

**State Expert Appraisal Committee (SEAC)**

**Minutes of 399<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 10.08.2023 (Thursday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Mining Projects.**

**Confirmation of Earlier Minutes**

The minutes of the 398<sup>th</sup> SEAC meeting held on 04.08.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 399 - 01

(File No.5416/2023)

Existing Multi-Colour Granite quarry lease over an extent of 1.62.0 Ha at S.F.Nos. 201(P) of Jakkeri Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Tmt. J. Premalatha – For Environmental Clearance under violation category.

(SIA/TN/MIN/214691/2021 dated.10.06.2021)

The proposal was placed in the 399<sup>th</sup> meeting of SEAC held on 10.08.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Tmt. J. Premalatha has applied for Environmental Clearance for the Existing Multi-Colour Granite quarry lease over an extent of 1.62.0 Ha at S.F.Nos. 201(P) of Jakkeri Village, Denkanikottai 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. ToR under violation category was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.5416/TOR-542/2018 dated 30.07.2018.
4. EIA Report was submitted at the office of SEIAA-TN on 23.05.2023.
5. Based on the KML file submitted by the proponent in Parivesh portal and Google imagery, it is ascertained that the proposed site is approximately 3.77 Km from Cauvery North Wildlife Sanctuary and 25.23 Km from Cauvery South Wildlife Sanctuary.

  
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Based on the presentation and details furnished by the project proponent, the SEAC decided to defer the appraisal for the want of following details from the project proponent:

- i) Copy of renewal of mining lease obtained from competent authority.
- ii) Copy of the approved scheme of mining plan from the Competent Authority, which shall include the following details:
  - a. Last Five-Year Production & Development Target as specified & approved in the Mining Plan
  - b. Achieved Quantity of Production & Development in the last five years
  - c. Deviation (Achieved Vs Target)
  - d. Justifiable Reasons for deviation

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

**Agenda No: 399 -02**


**(File No.6186/2023)**

**Existing Black Granite (Dolerite) quarry lease over an extent of 1.02.5 Ha at S.F.Nos. 156/2, 157/1, 157/2, 157/3 and 157/4 of Siruvalai Village, Vikravandi (formerly Vilupuram) Taluk, Vilupuram District, Tamil Nadu by Thiru. A. Abdul Salam – For Environmental Clearance. (SIA/TN/MIN/431987/2023 dated:02.06.2023)**

The proposal was placed in the 399<sup>th</sup> meeting of SEAC held on 10.08.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Thiru. A. Abdul Salam has applied for Environmental Clearance for the Existing Black Granite (Dolerite) quarry lease over an extent of 1.02.5 Ha at S.F.Nos. 156/2, 157/1, 157/2, 157/3 and 157/4 of Siruvalai Village, Vikravandi (formerly Vilupuram) Taluk, Vilupuram 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. ToR under violation category was issued to the project vide Lr.No.SEIAA-TN/F.No.6186/TOR-479/2018 dated 08.06.2018.

  
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4. EIA Report was submitted at the office of SEIAA-TN on 13.06.2023.
5. The PP had presented the Ecological damage assessment report for the period of violation taken place in the mines and the Environmental Compensation for the same as per the CPCB Guidelines.

Based on the presentation and document furnished by the project proponent, the SEAC decided to constitute a Sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation.

After the receipt of the evaluation report by the Sub-committee, the SEAC will take further action on the issue of Environmental Clearance under violation category.

**Agenda No: 399 - 03**

**(File No.8825/2023)**

**Proposed Rough Stone and Gravel Quarry lease over an extent of 0.78.5 ha at S.F.Nos. 360/1A1(P), 360/1A2(P) & 360/1A3 of Arasampalayam Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Thiru.M. Loganathan – For Environmental Clearance. (SIA/TN/MIN/434946/2023 dated:28.06.2023)**

The proposal was placed in the 399<sup>th</sup> meeting of SEAC held on 10.08.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **Thiru.M. Loganathan** has applied for Environmental Clearance for Proposed Rough Stone and Gravel Quarry lease over an extent of 0.78.5 ha at S.F.Nos. 360/1A1(P), 360/1A2(P) & 360/1A3 of Arasampalayam Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.8825/TOR-1107/2021 dated 21.03.2022.
4. EIA report was submitted at SEIAA-TN on 30.06.2023.
5. The salient features of the proposal are as follows:

  
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File No	8825/2023 434946/2023		Category	B1 1(a)	
	Sl. No	Salient Features of the Proposal			
1	Name of the Owner/Firm	:	Thiru. M. Loganathan, S/o. Mysamy Gounder, West Thottam, Karacheri, Chettipalayam Via, Coimbatore District – 641201.		
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	:	360/1A1 (P), 360/1A2 (P) & 360/1A3		
4	Village in which situated	:	Arasampalayam		
5	Taluk in which situated	:	Kinathukadavu		
6	District in which situated	:	Coimbatore		
7	Extent of quarry (in ha.)	:	0.78.5 Ha		
8	Latitude & Longitude of all corners of the quarry site	:	10°52'37.69"N to 10°52'40.82"N 77°02'46.81"E to 77°02'50.75"E		
9	Topo Sheet No.	:	58- F/01		
11	Life of Project	:	5 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	Rough Stone	
			1,96,250 m <sup>3</sup>	-	
			Gravel	Gravel	
			15,700m <sup>3</sup>	-	
	Mina ble Resources m <sup>3</sup> (RoM)	:	Rough Stone	Rough Stone	
			49,650m <sup>3</sup>	-	
			Gravel	Gravel	
			9,068m <sup>3</sup>	-	
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone	Rough Stone	
			10,815m <sup>3</sup>	-	
			:	Gravel	Gravel

  
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		3,410 m <sup>3</sup>	-
	Maximum Depth in meters	: 27m BGL	22m BGL
13	Depth of water table	: 60m - 65m	
14	Man Power requirement per day:	: 15 Nos	
15	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	: 3.0 KLD 1.5 KLD 0.5 KLD 1.0 KLD	
16	Power requirement	: 69 Ltrs of HSD/day	
17	Precise area communication approved by the Assistant Director, Department of G&M	: Na.Ka.No.212/Kanimam/2021, dated: 12.08.2021	
18	Mining Plan approved by Assistant Director, Department of G&M.	: Rc.No.212/Mines/2021, dated: 01.09.2021	
19	500m cluster letter issued by Assistant Director, Department of G&M, with date	: Rc.No.212/Mines/2021, dated: 01.09.2021	
20	VAO Certificate Regarding Structures within 300m Radius	: Not Furnished	
21	Project Cost (excluding EMP cost)	: Rs. 19,01,000/-	
22	EC Recommendation	: Validity	30 years subject to the following upper limits.
			Rough Stone      Gravel
		: Max Total RoM in m <sup>3</sup>	47,770m <sup>3</sup> 9,068m <sup>3</sup>
		: Annual Max RoM in m <sup>3</sup>	10,815m <sup>3</sup> 3,410 m <sup>3</sup>
	: Max Depth in mtrs	22m BGL	
23	EMP cost (in Rs. Lakh).	: Capital Cost – Rs. 19,44,200/- Recurring Cost – Rs. 11,93,572/-	

  
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24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000
25	ToR Issued Details	:	Lr.No. SEIAA- TN/F.No.8825/SEAC/ToR-1107/2021 Dated: 21.03.2022.
26	Public Hearing Conducted on	:	07.02.2023

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 10,815m<sup>3</sup> of rough stone & 3410m<sup>3</sup> of gravel by restricting the ultimate depth of mining upto 22m below ground level and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall complete the process of amalgamation coordinating with the PPs of all the other leases in the cluster to work as a single lease in accordance with the provisions of Mineral Concession Rules, 1960 and MM (D&R) Act, 1957, for ensuring the environmental sustainability.
- 3) Considering the quarrying operations in the cluster environment, the PP shall inform the Regional Inspector of Mines / Director of Mines Safety, DGMS-Chennai Region for appointing statutory competent persons as applicable and permitted in accordance with the Mines Act, 1952 before the execution of lease.
- 4) The PP shall not adopt the 'Deep-hole large diameter drilling and blasting' without obtaining the prior permission obtained from the Director of Mines Safety, DGMS-Chennai Region.
- 5) The PP shall furnish a Standard Operating Procedures (SoP) for handling the explosives and carrying out the blasting operations in the cluster environment

  
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following the provisions of MMR 1961 and the relevant Circulars issued by the DGMS to the concerned AD (Mines) at the time of execution of lease.

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

- 9) As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards the Government High School, Arasampalayam, Coimbatore District before obtaining CTO from TNPCB.

Agenda No: 399-04

(File No: 8833/2021)

Proposed Rough Stone & Jelly quarry lease over an extent of 3.59.0 Ha at SF.No. 225/2A of Chinnakalayamputhur Village, Palani Taluk, Dindigul District Tamil Nadu by Tvl.T&P Aggregates Private Limited - for Environmental Clearance.

(SIA/TN/MIN/434078/2023, Dated:21.06.2023)

The proposal was placed in 399<sup>th</sup> meeting of SEAC held on 10.08.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, Tvl.T&P Aggregates Private Limited has applied for Environmental Clearance for the proposed Rough Stone & Jelly quarry lease over an extent of 3.59.0Ha at SF.No.225/2A of Chinnakalayamputhur Village, Palani Taluk, Dindigul District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

File No	8833/2021		Category	B1
	SIA/TN/MIN/434078/2023, Dated:21.06.2023			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Tvl.T &P Aggregates Private Limited Chinnakalayamputhur Palani Taluk Dindigul District-624601	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone & Jelly	
3.	S.F Nos. of the quarry site with area break-up	:	225/2A	
4.	Village in which situated	:	Chinnakalayamputhur	

  
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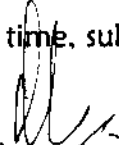
5.	Taluk in which situated	:	Palani		
6.	District in which situated	:	Dindigul		
7.	Extent of quarry (in ha.)	:	3.59.0Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	10°28'03.98"N to 10°28'08.83"N 77°26'41.59"E to 77°26'52.83"E		
9.	Topo Sheet No.	:	58 F/07		
10.	Type of mining	:	Opencast Semi-Mechanized of Mining		
11.	Life of Project	:	10 years		
	Lease Period	:	10 years		
	Mining Plan Period	:	5 years		
12.	Mining Plan Details	:	As per approved Mining Plan		
			Rough Stone	Weathered Rock	Topsoil
	Geological Resources m <sup>3</sup>	:	16,12,6 20m <sup>3</sup>	35,836m <sup>3</sup>	71,672m <sup>3</sup>
	Minable Resources m <sup>3</sup>	:	6,36,6 90m <sup>3</sup>	26,520m <sup>3</sup>	55,212m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	80,710 m <sup>3</sup>	16,224m <sup>3</sup>	33,598m <sup>3</sup>
	Ultimate Depth in meters	:	23m BGL		
13.	Depth of water table	:	58m BGL		
14.	Man Power requirement per day:	:	24 Employees		
15.	Water requirement: 1. Drinking water & Utilized water 2. Dust suppression 3. Green belt	:	3.0 KLD 1.0 KLD 1.0 KLD 1.0 KLD		
16.	Power requirement	:	TNEB -		
17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Rc.No.897/2019(Kanimam), Dated:19.02.2021		
18.	Mining Plan approved by Assistant Director, Department of G&M.	:	Rc.No.897/2019(Mines), dated:10.05.2021		
19.	Department of G&M, Assistant Director 500m Cluster Letter	:	Rc.No.897/2019(Mines), dated:10.08.2021		

20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated:16.06.2021			
21.	Project Cost (excluding EMP cost)	:	Rs. 88,36,000/-			
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.		
				Rough Stone	Weathered Rock	Top soil
		:	Max Total in m <sup>3</sup>	4,00,510m <sup>3</sup>	26,520m <sup>3</sup>	55,212 m <sup>3</sup>
		:	Annual Max in m <sup>3</sup>	80,710 m <sup>3</sup>	16,224m <sup>3</sup>	33,598 m <sup>3</sup>
:	Max Depth in mtrs	23m BGL				
23.	EMP cost (in Rs. Lakh).	:	Rs.296.5 Lakhs			
24.	CER cost (in Rs. Lakh).	:	Rs.5,00,000/-			
25.	EIA report submitted on	:	Dated: 26.06.2023			
26.	ToR details	:	Lr.No.SEIAA-TN/F.NO.8833/SEAC/ToR-1108/2021 Dated:21.03.2022			
27.	Public hearing details	:	Public hearing conducted on Dated:11.01.2023.			

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 80,710m<sup>3</sup> of Rough stone, 16,224m<sup>3</sup> of Weathered Rock and 33,598m<sup>3</sup> of Top soil by maintaining the ultimate depth of mining of 23m 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

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

- 2) Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 3) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 4) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be

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

- 5) The project proponent shall contribute Rs.5,00,000/- towards conservation measures for Kodaikanal Wildlife Sanctuary in consultation with concerned District Forest Officer, before obtaining CTO from TNPCB.
- 6) As accepted by the Project Proponent the CER cost of Rs.5 lakh and the amount shall be spent for the committed activities at Village Government Middle School, Vijayapuram Village before obtaining CTO from TNPCB.

**Agenda No: 399 - 05**

**(File No: 6566/2018)**

**Existing Multi Coloured Granite Quarry lease over an extent of 0.71.0 Ha at S.F.Nos. 317/6 & 317/8 of Balapathiraramapuram Village, Veerakeralampudur Taluk, Tenkasi District (Formerly Tirunelveli District), Tamil Nadu by Thiru. S. Kumarasamy – for Environmental Clearance under violation category. (SIA/TN/MIN/431643/2023, Dt. 31/05/2023)**

The proposal was placed in this 399<sup>th</sup> SEAC meeting held on 10.08.2023. The details of the project furnished by the proponent are available on the web portal (parivesh.nic.in). The project proponent gave a detailed presentation.

The SEAC noted the following:

1. The Project Proponent, Thiru. S. Kumarasamy has applied for Environmental Clearance under violation category for the Existing Multi Coloured Granite Quarry lease over an extent of 0.71.0 Ha at S.F.Nos. 317/6 & 317/8 of Balapathiraramapuram Village, Veerakeralampudur Taluk, Tenkasi District (Formerly Tirunelveli District), Tamil Nadu.
2. The proposed quarry/activity is covered under Category “B1” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006.
3. ToR issued under violation category vide Lr No. SEIAA-TN/F.No.6566/TOR-459/2018, Dated:04.06.2018
4. As per the Hon’ble High Court of Madras order dated 13.10.2017 in W.P.No.11189 of 2017, amendment in the ToR was issued vide Letter No. SEIAA-TN/F-6566/SEAC- CXVIII/TOR- 459(A)/2018 Dt. 30.07.2018

  
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5. Extension of validity of ToR issued vide Lr. No. SEIAA-TN/F.No.6566/SEAC/TOR- 459/2018/Extn. dated: 26.09.2022

6. The PP has furnished the EIA Report under violation on 13.06.2023

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

1. The proponent shall furnish the status of the renewal of lease granted for quarry site obtained from the Dept. of Geology & Mining.

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

**Agenda No. 399 – 06.**

**(File No: 8723/2022)**

**Proposed Rough stone and Gravel quarry lease over an extent of 2.00.0 Ha of Patta land in S.F.Nos.406/2B(P), 406/3A, 406/4A, 406/2G, 406/3B and 406/4B at Panapatti Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Thiru.K.N.Venkatachalam - For Environmental Clearance. (SIA/TN/MIN/429594/2023 Dt. 17.05.2023)**

The proposal was placed in this 399<sup>th</sup> Meeting of SEAC held on 10.08.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Thiru.K.N.Venkatachalam has applied for Environmental Clearance for the proposed Rough stone & gravel quarry lease over an extent of 2.00.0 Ha in S.F.No:406/2B(P), 406/3A, 406/4A, 406/2G, 406/3B and 406/4B at Panapatti Village, Kinathukadavu 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. The precise area communication was issued for the period of 10 years. The approved mining plan is for the period of 1<sup>st</sup> five years & production should not exceed 147280m<sup>3</sup> of Rough Stone & 30208m<sup>3</sup> of Gravel. The annual peak production is 31280m<sup>3</sup> of Rough Stone (4<sup>th</sup> Year) & 14632m<sup>3</sup> of Gravel (1<sup>st</sup> Year). The depth of mining is 42m BGL.

  
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4. ToR vide. Lr No. SEIAA-TN/F.No.8723/SEAC/ToR-1050/2022, Dated: 31.01.2022 for the depth of 37m & production of 146020m<sup>3</sup> of Rough Stone & 30208m<sup>3</sup> of Gravel.

5. Public Hearing Conducted on 07.02.2023.

Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	Thiru.K.N.Venkatachalam S/o.Naichimuthugounder : No.20, Thirumalaisamy Street Puthu Siddhapudur Coimbatore District-641044	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone )	: Rough Stone and Gravel	
3.	S.F Nos. of the quarry site with area break-up	: 406/2B(P), 406/3A, 406/4A, 406/2G, 406/3B and 406/4B	
4.	Village in which situated	: Panapatti	
5.	Taluk in which situated	: Kinathukadavu	
6.	District in which situated	: Coimbatore	
7.	Extent of quarry (in ha.)	: 2.00.0ha (Patta Land)	
8.	Latitude & Longitude of all corners of the quarry site	: 10°51'52.99"N to 10°51'59.17"N 77°04'30.46"E to 77°04'35.93"E	
9.	Topo Sheet No.	: 58 F/01	
10.	Type of mining	: 10 Years	
11.	Life of Project	: 10 Years	
	Lease Period	: 10 Years	
	Mining Plan Period	: 5 Years	
12.	Mining Plan Details	: As per approved Mining Plan	
	Geological Resources m <sup>3</sup> (RoM)	Rough Stone in m <sup>3</sup>	Gravel in m <sup>3</sup>
		900450m <sup>3</sup>	40020m <sup>3</sup>
	Mineable Resources m <sup>3</sup> (RoM)	Rough Stone	Gravel
		295680m <sup>3</sup>	30208m <sup>3</sup>
Annual Peak Production in m <sup>3</sup>	Rough Stone	Gravel	
	31280m <sup>3</sup>	14632m <sup>3</sup>	
Maximum Depth in meters	: 42m		

13.	Depth of water table	:	78m-73		
14.	Man Power requirement per day:	:	28 Nos		
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	2.3 KLD 0.5 KLD 1.0 KLD 0.8 KLD		
16.	Power requirement	:	TNEB 2,41,574 Liters of HSD		
17.	Precise area communication approved by Assistant Director Department of G&M.	:	Rc.No.215/Kanimam/2021, dt:19.07.2021		
18.	Mining Plan approved by Assistant Director Department of G&M.	:	Rc.No.215/Mines/2021, dt:28.07.2021		
19.	Department of G&M, Assistant Director 500m Cluster Letter	:	Rc.No.215/Mines/2021, dt:28.07.2021		
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated: 30.07.2021		
21.	Project Cost (excluding EMP cost)	:	Rs.70.57 Lakhs		
22.	EC Recommendation	:	1st Five Years as per approved mining plan		
		:		Rough Stone	Gravel
		:	Max Total RoM in m <sup>3</sup>	146020 m <sup>3</sup>	30208 m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>	31280m <sup>3</sup>	14632m <sup>3</sup>
:	Max Depth in mtrs	37 m			
23.	EMP cost (in Rs. Lakh).	:	Capital Cost - Rs.33.20 Lakhs Recurring Cost - Rs. 16.054 Lakhs With 5% inflation for the recurring cost.		
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production of 31280 m<sup>3</sup> of Rough Stone & 14632 m<sup>3</sup> of Gravel by the ultimate depth of mining upto 37m BGL and for the period five Years subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The PP shall install the fencing of tall sheet type around the boundary along with the tree plantations before obtaining the CTO from the TNPCB.
- 3) The Project Proponent shall obtain necessary permission for the common boundary working (Amalgamation), by submitting the corresponding application to obtain order in written by the Chief Inspector of Mines (DGMS) or by the Regional Inspector of Mines (DMS) under Regulation 111 of MMR 1961 within a period of six months after the date of lease execution.
- 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 optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

  
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- 5) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 6) As accepted by the Project Proponent the CER cost is Rs.5 lakhs and the amount shall be spent for the Government Higher Secondary School, Panapatti Village, Coimbatore District before obtaining CTO from TNPCB.

Agenda No: 399 - 07.

(File No: 8835 /2023)

Proposed Rough Stone and Gravel Quarry lease over an extent of 1.05.5Ha at S.F.No.51/4 & 51/5A1B of Palli Village, Cheyyar Taluk, Tiruvannamalai District, Tamil Nadu by Thiru. S.Sivasuriyamadhava Raja - For Environmental Clearance. (SIA/TN/MIN/433969/2022 Dt.20.06.2023)

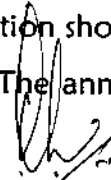
The proposal was placed in this 399<sup>th</sup> Meeting of SEAC held on 10.08.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. S.Sivasuriyamadhava Raja has applied for Environmental Clearance for the proposed Rough Stone and Gravel Quarry lease over an extent of 1.05.5Ha at S.F.No.51/4 & 51/5A1B of Palli Village, Cheyyar Taluk, Tiruvannamalai District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. 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 99440m<sup>3</sup> of Rough Stone & 14342m<sup>3</sup> of Gravel. The annual

  
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peak production is 23360m<sup>3</sup> of Rough Stone & 9086m<sup>3</sup> of Gravel. The depth of mining is 42.0m BGL.

4. ToR vide. Lr No. SEIAA-TN/F.No.8835/SEAC/ToR-1101/2021 Dated: 21.03.2022.

5. Public Hearing Conducted on 23.02.2023.

Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	: Thiru.S.Sivasuriyamadhava Raja S/o.Subramaniyan No.9/13, Shanmuga Nagar Mannivakkam Chennai -600048
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	: Rough stone and Gravel
3.	S.F Nos. of the quarry site with area break-up	: 51/4 & 51/5A1B
4.	Village in which situated	: Palli
5.	Taluk in which situated	: Cheyyar
6.	District in which situated	: Tiruvannamalai
7.	Extent of quarry (in ha.)	: 1.05.5 ha (patta Land)
8.	Latitude & Longitude of all corners of the quarry site	: 12°43'11.47"N 12°43'15.68"N 79°36'36.51"E 79°36'41.37"E
9.	Topo Sheet No.	: 57 P/10
10.	Type of mining	: Open Cast Semi-Mechanized
11.	Life of Project	: 5 Years
	Lease Period	: 5 Years
	Mining Plan Period	: 5 Years
12.	Mining Plan Details	: As per approved Mining Plan
	Geological Resources m <sup>3</sup> (RoM)	: Rough Stone in m <sup>3</sup> 520800m <sup>3</sup>
	Mineable Resources m <sup>3</sup> (RoM)	: Rough Stone                      Gravel 99440m <sup>3</sup> 14322m <sup>3</sup>

  
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	Annual Peak Production in m <sup>3</sup>	:	Rough Stone	Gravel
			23360m <sup>3</sup>	9086m <sup>3</sup>
	Maximum Depth in meters	:	42m	
13.	Depth of water table	:	55m-50m	
14.	Man Power requirement per day:	:	18 Nos	
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	2.5 KLD 1.0 KLD 1.0 KLD 0.5 KLD	
16.	Power requirement	:	TNEB	
17.	Precise area communication approved by District Collector the Department of G&M.	:	Na.Ka.No.09/Kanimam/2018, Dated: 14.12.2018.	
18.	Mining Plan approved by Assistant Director Department of G&M.	:	Roc.No.09/Kanimam/2018, Dated: 24.01.2019.	
19.	Department of G&M, Deputy Director 500m Cluster Letter	:	Roc.No.09/Kanimam/2018, Dated: 08.07.2021	
20.	VAO Certificate Regarding Structures within 300m Radius	:	dated: 28.06.2021	
21.	Project Cost (excluding EMP cost)	:	Rs.27.67 Lakhs	
22.	EC Recommendation	:	1st Five Years as per approved mining plan	
		:	Rough Stone	Gravel
		:	Max Total RoM in m <sup>3</sup>	99440 m <sup>3</sup> 14322m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>	23360 m <sup>3</sup> 9086m <sup>3</sup>
		:	Max Depth in mtrs	42m
23.	EMP cost (in Rs. Lakh).	:	Capital Cost - Rs.19 Lakhs	

			Recurring Cost - Rs. 13.62 Lakhs with 5% inflation for the recurring cost.
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production of 23360m<sup>3</sup> of Rough Stone & 9086 m<sup>3</sup> of Gravel by the ultimate depth of mining up to 42m BGL and for the period five Years subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The PP shall install the fencing of S2 or G2 type as per the DGMS Circular, 1972 around the boundary along with the tree plantations before obtaining the CTO from the TNPCB.
- 3) The Project Proponent shall obtain necessary permission for carry out the blasting operation from the Regional Inspector of Mines (DMS) under MMR 1961 within a period of six months after the date of lease execution.
- 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 optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB,

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

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

Agenda No: 399 - 08

(File No: 8954/2023)

Proposed Rough Stone and Gravel Quarry lease over an extent of 2.38.0Ha at S.F.No.280/6 of Anaikulam Village, Veerakeralampudur Taluk, Tenkasi District, Tamil Nadu by Thiru. R. Ponkaliraj - For Environmental Clearance.  
(SIA/TN/MIN/426824/2023 Dt. 20/04/2023)

  
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The proposal was placed in this 399<sup>th</sup> Meeting of SEAC held on 10.08.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.R.Ponkaliraj has applied for Environmental Clearance for the proposed Rough Stone and Gravel Quarry lease over an extent of 2.38.0Ha at S.F.No.280/6 of Anaikulam Village, Veerakeralampudur Taluk, Tenkasi 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 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 402450m<sup>3</sup> of Rough Stone & 18408m<sup>3</sup> of Gravel & 35700m<sup>3</sup> Weathered Rock. The annual peak production is 81690m<sup>3</sup> of Rough Stone, 16744m<sup>3</sup> of Gravel & 32640m<sup>3</sup> of Weathered Rock. The depth of mining is 53m BGL.
4. ToR vide. Lr No. SEIAA-TN/F.No.8954/SEAC/ToR- 1136/2022 Dated: 25.03.2022.
5. Public Hearing Conducted on 03.01.2023.
6. EIA received on: 30.05.2023.

Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	: Thiru.R.Ponkaliraj S/o.(Late) P.Rajendran No.18/7/23, Thirumal Andavar Kovil Street Sivagurunathapuram V.K.Pudur Taluk Surandai-627859
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	: Rough stone & Gravel
3.	S.F Nos. of the quarry site with area break-up	: 280/6

4.	Village in which situated	:	Anaikulam
5.	Taluk in which situated	:	Veerakeralampudur
6.	District in which situated	:	Tenkasi
7.	Extent of quarry (in ha.)	:	2.38.0Ha
8.	Latitude & Longitude of all corners of the quarry site	:	09°00'03"N to 09°00'11"N 77°28'21"E to 77°28'26"E
9.	Topo Sheet No.	:	58 H/05
10.	Type of mining	:	Opencast Mechanized of Mining
11.	Life of Project	:	5 Years
	Lease Period	:	5 Years
	Mining Plan Period	:	5 Years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m <sup>3</sup> (RoM)	Rough Stone in m <sup>3</sup>	Gravel m <sup>3</sup> Weathered Rock m <sup>3</sup>
		1189500m <sup>3</sup>	23790m <sup>3</sup> 47580m <sup>3</sup>
	Mineable Resources m <sup>3</sup> (RoM)	Rough Stone	Gravel Weathered Rock m <sup>3</sup>
		402450m <sup>3</sup>	18408m <sup>3</sup> 35700m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	Rough Stone	Gravel Weathered Rock
81690m <sup>3</sup>		16744m <sup>3</sup> 32640m <sup>3</sup>	
Maximum Depth in meters	:	53m	
13.	Depth of water table	:	73m
14.	Man Power requirement per day:	:	22 Nos.
15.	Water requirement:	:	3.0 KLD
	1. Drinking water	:	1.0 KLD
	2. Utilized water	:	1.0 KLD
	3. Dust suppression	:	1.0 KLD
4. Green belt	:		
16.	Power requirement	:	TNEB 235834 Liters of HSD

  
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17.	Precise area communication approved by the District Collector's, with date	:	Rc.No.M1/11657/2017, dated: 16.11.2021			
18.	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	:	Rc.No.M1/11657/2021, dated: 08.12.2021			
19.	Assistant Director, mines 500m cluster letter	:	Rc.No.M1/11657/2017, dated: 09.12.2021			
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated:13.12.2021			
21.	Project Cost (excluding EMP cost)	:	Rs. 78.37 Lakhs			
22.	EC Recommendation	:	1st Five Years as per approved mining plan			
				Rough Stone	Gravel	Weathered Rock
			Max Total in m <sup>3</sup>	397830 m <sup>3</sup>	18408m <sup>3</sup>	35700m <sup>3</sup>
			Annual Max RoM in m <sup>3</sup>	81690m <sup>3</sup>	16744m <sup>3</sup>	32640m <sup>3</sup>
		:	Max Depth in mtrs	48 m		
23.	EMP cost (in Rs. Lakh).	:	Capital Cost - Rs.20.66 Lakhs Recurring Cost - Rs. 22.22 Lakhs with 5% inflation for the recurring cost.			
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs			


  
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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 not exceeding 81690m<sup>3</sup> of Rough Stone, 16744m<sup>3</sup> of Gravel & 32640m<sup>3</sup> of Weathered Rock by restricting the ultimate depth of mining up to 48m BGL and for the period five Years subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 3) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall

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

- 4) As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the Government Higher Secondary School, Anaikulam Village before obtaining CTO from TNPCB.

**Agenda No. 399-09**


**(File No.6568/2023)**

**Existing Limestone quarry over an extent of 2.25.0 Ha at S.F. No. 455/1, 456/2 & 456/3 of Khairulabad Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu by M/s. Dalmia Cement (Bharat) Limited – For Environmental Clearance under Violation (SIA/TN/MIN/430142/2023 dated:23.05.2023).**

The proposal was placed in 399<sup>th</sup> Meeting of SEAC held on 10.08.2023. The details of the project furnished by the proponent are available in the website ([www.parivesh.nic.in](http://www.parivesh.nic.in)). The SEAC noted the following:

1. The Proponent, M/s. Dalmia Cement (Bharat) Limited, has applied for Environmental Clearance for the Existing Limestone quarry over an extent of 2.25.0 Ha at S.F. No. 455/1, 456/2 & 456/3 of Khairulabad Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu.
2. The project/activity is covered under Category “B1” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 30 years (13.08.2004 to 12.08.2034). The mining plan is for the period of 5 years (2019 to 2023) & production should not exceed 30205 Ts of RoM & 15,058 Ts of Limestone. The ultimate depth – 26.5 m BGL.
4. ToR under violation issued vide Lr.No.SEIAA-TN/F.No.6568/TOR-389/2018, Dated: 24.05.2018.
5. As per MoEF&CC O.M Dt:17.02.2020, the validity of ToR shall be 4 years for all the projects/activities and 5 years for River Valley and HEP Projects.
6. The EIA Notification dt:18.01.2021 states that

*“...Notwithstanding anything contained in this notification, the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for*

  
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*the purpose of calculation of the period of validity of Prior Environmental Clearances granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid.”*

Hence, the ToR issued is valid till 23.05.2023.

7. Public Hearing Conducted on 23.05.2023.

8. EIA Report Submitted on 06.07.2023.

Based on the presentation made and documents furnished by the project proponent, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment whether it is being carried out in accordance with CPCB Guidelines (or) other guidelines stipulated by the MoEF & CC, remediation plan, natural resource augmentation and community resource augmentation. The SEAC also decided to request SEIAA-TN to initiate action under Sec. 19 of the Environment (Protection) Act, to be taken for violation cases, in accordance with law.


**Agenda No. 399-10**

**(File No.8955/2023)**

**Proposed Rough stone and Gravel quarry lease over an extent of 2.30.2 Ha at S.F.No.39/1A, 39/1B, 39/2A & 49 of Appanayakkanpatti village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu by Tmt. R. Gayathiri- For Environmental Clearance (SIA/TN/MIN/430218/2023, dated:22.05.2023).**

The proposal was placed in 399<sup>th</sup> Meeting of SEAC held on 10.08.2023. The details of the project furnished by the proponent are available in the website ([www.parivesh.nic.in](http://www.parivesh.nic.in)). The SEAC noted the following:

1. The Proponent, Tmt. R. Gayathiri, has applied for Environmental Clearance for the Proposed Rough stone and Gravel quarry lease over an extent of 2.30.2 Ha at S.F.No.39/1A, 39/1B, 39/2A & 49 of Appanayakkanpatti village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu.

  
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2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of 5 years & production should not exceed 2,41,368 m<sup>3</sup> of rough stone & 74,690.5 m<sup>3</sup> of gravel with a ultimate depth of mining is 36m below ground level.
4. ToR issued vide Lr.No.SEIAA-TN/F.No.8955/ToR-1130/2022 Dated: 25.03.2022.
5. Public Hearing was conducted on 07.12.2022.

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

1. An educational institution, namely, PSR Engineering College, with 5800 Nos. of students & 500 teachers, is located very close (within 500m) to the proposed quarry. Further, 1800 students are staying in the college hostel.
2. It is also noted that based on the Writ Petitions filed in the Hon'ble High Court against operation of mines in the area, the Hon'ble High Court had appointed an Advocate Commissioner to inspect the site and give a report. The Commission appointed by the Court had inspected site and submitted detailed report to the Court stating, among others, that "...The staff of the college and the counsel for the college had shown several broken window glass panes and shown cracks in several buildings but without expertise and assistance of a structural engineer and other experts to gauge the effect of explosion and it's impact on the buildings it is not possible for me say anything on the subject, however on 09.07.2021 we could hear explosive noise between 5 pm to 6 pm while inspecting near the workshop building in PSR Engineering College".
3. There are considerable number of structures located nearby.
4. Besides, the proposed site is also surrounded by the presence of fireworks and Vaippar River.
5. The proposed mining activity involves blasting.

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

  
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Agenda No: 399 – 11

(File No: 3818 /2023)

Existing Black Granite Mine lease over an Extent of 1.01.0Ha in S.F.Nos.214/1A & 214/2B, Iggalore Village of Thalavadi Taluk, Erode District, Tamil Nadu by Tmt. Senniappan Suseela (Legal Heir) – For Environmental Clearance under violation category. (SIA/TN/MIN/429063/2022 Dt. 12.05.2023)


The proposal was placed in this 399<sup>th</sup> meeting of SEAC held on 10.11.2023. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Tmt. Senniappan Suseela (Legal Heir) has applied seeking Environmental Clearance for the Existing Black Granite Mine lease over an Extent of 1.01.0Ha in S.F.Nos.214/1A & 214/2B at Iggalore Village of Thalavadi Taluk, Erode District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category “B” – “Under Violation” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006 as amended
3. ToR for the EIA study under violation category was issued vide Letter No.SEIAA-TN/F.No.3818/ToR-489/2018/ dated 16.05.2018.
4. Amendment to ToR Letter No. SEIAA-TN/F-3818/SEAC- CXVIII/TOR-489(A)/2018 dt 30.07.2018
5. ToR Extension under violation category issued vide SEIAA. Lr. No. SEIAA-TN/F.No.3818/ToR-489/2018 dated: 28.10.2022.

The SEAC further noted that the Project site falls within 1km radius of the Satyamangalam Tiger Reserve. Further, the Hon`ble Supreme Court of India also read the following in Para No 42:

*42. In our opinion, the Guidelines framed on 9<sup>th</sup> February 2011 appears to be reasonable and we accept the view of the Standing Committee that uniform Guidelines may not be possible in respect of each Sanctuary or National Park for maintaining ESZ. We are of the opinion, however, that a minimum width of 1 kilometre ESZ ought to be maintained in respect of the protected*


  
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*forests, which forms part of the recommendations of the CEC in relation to Category B protected forests. This would be the standard formula, subject to changes in special circumstances. We have considered CEC's recommendation that the ESZ should be relatable to the area covered by a protected forest but the Standing Committee's view that the area of a protected forest may not always be a reasonable criterion also merits consideration. It was argued before us that the 1 km wide "no development zone" may not be feasible in all cases and specific instances were given for Sanjay Gandhi National Park and Guindy National Park in Mumbai and Chennai metropolis respectively which have urban activities in very close proximity. These sanctuaries shall form special cases.*

Considering the above judgement of Hon'ble Supreme Court, the SEAC decided not to recommend Environmental Clearance for the project proposal placed by the PP. However, the PP shall carry out the following activities to comply with the terms & conditions stipulated with the ToR given earlier under 'Violation' category:

- 1) The PP shall pay the amount of of Rs. 27,07,500 /-towards the Environmental Compensation as it was determined in accordance with the CPCB Guidelines following the principle of 'Polluter Pays' due to the 'violation' category. The amount prescribed for Ecological remediation is Rs. 12,02,200/-, for natural resource augmentation Rs.8,00,000/- & for community resource augmentation (Rs.7,05,300/-), totaling Rs. 27,07,500/-. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 27,07,500/- in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
2. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.

  
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3. The SEIAA may request the TNPCB to initiate credible action against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.

**Agenda No: 399 – 12**

**(File No: 5414 /2021)**

**Existing Grey Granite quarry lease over an extent of 1.62.0Ha in S.F. No: 95 (Part), Modikuppam Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by Tmt. J. Premalatha – For Environmental Clearance. (SIA/TN/MIN/214637/2021 Dt. 10.06.2021)**


The proposal was placed in this 399<sup>th</sup> meeting of SEAC held on 10.11.2023. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Tmt. J. Premalatha has applied for Environmental Clearance for the Existing Grey Granite quarry Lease over an extent of 1.62.0Ha in S.F. No:95 (Part), Modikuppam Village, Krishnagiri Taluk, Krishnagiri, 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 as amended.
3. ToR issued vide. Lr No. SEIAA-TN/F.No.5414/SEAC/ToR- 531/2018 Dated: 30.07.2018.
4. Based on the KML file submitted by the proponent in Parivesh portal and google imagery, it is ascertained that the proposed site is approximately 2.83 Km from Cauvery North Wildlife Sanctuary and 8.67 Km from Cauvery South Wildlife Sanctuary.

Based on the presentation and details furnished by the project proponent, the SEAC decided to defer the appraisal for the want of following details from the project proponent:

- i) Copy of renewal of mining lease obtained from competent authority.

  
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- ii) Copy of the approved scheme of mining plan from the Competent Authority, which shall include the following details:
- Last Five-Year Production & Development Target as specified & approved in the Mining Plan
  - Achieved Quantity of Production & Development in the last five years
  - Deviation (Achieved Vs Target)
  - Justifiable Reasons for deviation

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

**Agenda No: 399 – 13**

**(File No: 6534 /2023)**


**Existing Multi Colour Granite over an extent of 1.57.5 Ha at S.F. No. 360/10 (P), 360/11 (P), 360/13 (P) & 369/2A (P), Vilangamudi Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu. by Tvl. Archean Granites Private Limited – For Environmental Clearance under violation category. (SIA/TN/MIN/429144/2022 Dt. 13.05.2023)**

The proposal was placed in this 399<sup>th</sup> meeting of SEAC held on 10.11.2023. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

**The SEAC noted the following:**

- The project proponent, Tvl. Archean Granites (P) Ltd has applied seeking Environmental Clearance for the existing Multi Colour Granite over an extent of 1.57.5 Ha at S.F. No. 360/10 (P), 360/11 (P), 360/13 (P) & 369/2A (P), Vilangamudi Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu.
- The project/activity is covered under category “B1” of Item 1 (a) “Mining of Minerals Projects” of the schedule to the EIA Notification, 2006 as amended.
- ToR vide. Lr No. SEIAA-TN/F.No.6534/SEAC/ToR-376/2018 Dated: 15.05.2018.
- Independent chapter on assessment of ecological damage, remediation plan and natural and community resource augmentation plan was submitted along with EIA report.

Based on the presentation and documents furnished by the Project Proponent the SEAC

  
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decided to make an on-the spot site inspection by the Sub-committee constituted by SEAC (i) to assess the ecological damage submitted by the PP in accordance with the CPCB Guidelines (ii) to provide the appropriate distribution under ecological damage, natural resource augmentation and community resource augmentation and (iii) to inspect the records & areas identified for carrying out remediation measures. On receipt of the site inspection report the SEAC will further deliberate and decide on future course of action.

Agenda No: 399 – 14


(File No: 8165 /2023)

Proposed Multi colour Granite quarry lease area over an extent of 2.35.73Ha at S.F.Nos. 118/1A1, 118/1B, 118/2, 118/4A, 119/1, 129/1B, 129/5 & 156/10 of Alambadi Village, Gujilamparai Taluk, Dindigul District, Tamilnadu. by Tmt.Nama Umadevi – For Environmental Clearance. (SIA/TN/MIN/433227/2022 Dt. 13.06.2023)

The proposal was placed in this 399<sup>th</sup> meeting of SEAC held on 10.11.2023. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

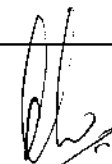
1. The project proponent, Tmt. Nama Umadevi has applied seeking Environmental Clearance for the Proposed Multi colour Granite quarry lease area over an extent of 2.35.73Ha at S.F.Nos. 118/1A1, 118/1B, 118/2, 118/4A, 119/1, 129/1B, 129/5 & 156/10 of Alambadi Village, Gujilamparai Taluk, Dindigul District, 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 as amended.
3. ToR vide. Lr No. SEIAA-TN/F.No.8165/SEAC/ToR-4865/2021 Dated: 30.10.2021
4. Public Hearing Conducted on 20.12.2022.
5. The Mining Lease is issued for the period of 20 Years. The approved current scheme mining plan for the period of 5 Years & production should not exceed ROM of 50,000 cu.m [30,000cu.m of Multicolour Granite (Recovery 60 %) & 20,000 Cu.m of Granite Waste (Reject 40 %)]. The annual peak production is ROM of 10,125 cu.m [6075 cu.m of Multicolour Granite (Recovery 60 %) & 4050 Cu.m of Granite Waste (Reject 40%)]. The depth of mining is 29m BGL.

  
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File No	8165 EIA	Category	B1
	SIA/TN/MIN/433227/2023 Dt:13.06.2023		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Tmt.Nama Umadevi W/o. Nama Krishnaiah No.742/30, 12th Main Shubh Enclave Harlur Road Sarjapur Bengaluru, Karnataka - 560102
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Multi Colour Granite
3.	S.F Nos. of the quarry site with area break-up	:	S.F.Nos. 118/1A1, 118/1B, 118/2, 118/4A, 119/1, 129/1B, 129/5 & 156/10
4.	Village in which situated	:	Alambadi Village.
5.	Taluk in which situated	:	Gujilamparai Taluk,
6.	District in which situated	:	Dindigul District
7.	Extent of quarry (in ha.)	:	2.35.73Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10°46'09.91"N to 10°46'17.37"N 78°03'08.58"E to 78°03'17.74"E
9.	Topo Sheet No.	:	58 J/01
10.	Type of mining	:	Opencast semi mechanized method of mining.
11.	Life of Project	:	20 years
	Lease Period	:	20 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources in m <sup>3</sup> (RoM)	:	As modified by SEAC ROM - 423650 m <sup>3</sup> Recovery - 254190 m <sup>3</sup> Granite waste - 169460 m <sup>3</sup>
	Mineable Resources in m <sup>3</sup> (RoM)	:	ROM - 84720 m <sup>3</sup>

  
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		Recovery– 50832 m <sup>3</sup> Granite waste – 33888 m <sup>3</sup>	
	Annual Peak Production in m <sup>3</sup>	: ROM – 10125 m <sup>3</sup> Recovery– 6075 m <sup>3</sup> Granite waste – 4050 m <sup>3</sup>	
	Maximum Depth in m	: 31m BGL	
13.	Depth of water table	: 55m-60m BGL	
14.	Man Power requirement per day:	: 49 Employees	
15.	Water requirement: 1. Drinking & domestic purposes (in kLD) 2. Dust suppression, Green Belt & Wet Drilling (in kLD)	: 3.8 kLD 1.5 kLD 1.0 kLD 1.3 kLD	
16.	Power requirement	: TNEB (domestic) DG set (industrial)	
17.	Precise area communication approved by the Assistant Director/ Deputy Director, Dept. of Geology & Mining	: Lr. No. 4026/MMB.2.2020-1 Dated:13.07.2023.	
18.	Mining Plan approved by Assistant Director/ Deputy Director, Dept. of Geology & Mining	: Rc.No.419/MM2/2020, dt:13.10.2020	
19.	Assistant Director/ Deputy Director, Dept. of Geology & Mining 500m Cluster Letter	: Roc.No.47/2019(Mines), dated:09.12.2020	
20.	VAO Certificate regarding Structures within 300m Radius	: VAO letter dated 23.10.2020	
21.	Project Cost (excluding EMP cost)	: Rs. 3,04,19,000/-	

  
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22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				RoM	Granite
		:	Max Total RoM in m <sup>3</sup>	50000	30000
		:	Annual Max RoM in m <sup>3</sup>	10125	6075
		:	Max Depth in m	29m	
23.	EMP cost (in Rs. Lakh).	:	Rs. 147.75 Lakh		
24.	CER cost (in Rs. Lakh).	:	Rs. 6.0 Lakh		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 10125 m<sup>3</sup> of RoM, 6075 m<sup>3</sup> of Multicolour Granite and 4050 m<sup>3</sup> of Waste by maintaining the ultimate depth of mining of 29m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The PP shall install sheet fencing on the western and northern boundaries along with the tree plantations before obtaining the CTO from the TNPCB.
- 3) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research /

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

- 4) Since the waterbodies are situated at a distance of 150 m, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 5) The PP shall strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site.
- 6) As accepted by the Project Proponent the CER cost of Rs. 6.0 Lakh and the amount shall be spent for the committed activities at Village Government School before obtaining CTO from TNPCB.

**Agenda No: 399-15**

**(File No: 8935/2023)**

**Existing Rough stone & gravel quarry lease over an extent of 1.29.0 Ha in S.F.No. 326A/4C, Ariyur Village, Vellore Taluk Vellore\_District, Tamil Nadu by Tmt. S. Tamilarasi, - For Environment Clearance for next scheme of mining. (SIA/TN/MIN/428169/2023 dt 15.05.2023)**

The proposal was placed in this 399<sup>th</sup> meeting of SEAC held on 10.08.2023. The Project Proponent made a detailed power point presentation about the proposed project. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

  
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1. The Project Proponent, Tmt. S. Tamilarasi has applied seeking Environment Clearance for the Existing Rough stone & gravel quarry lease for next scheme if mining over an extent of 1.29.0 Ha in S.F.No. 326A/4C, Ariyur Village, Vellore Taluk Vellore 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. As seen on KML image, a railway track is situated at a distance of 15m from the boundary of the project site.

During the meeting the PP and the EIA coordinator stated that they want to withdraw the proposal due to difference in area in the mining plan and EIA report and hence will submit fresh application.

The Committee, therefore, decided to request SEIAA to accept the withdrawal application as and when received from the PP.


**Agenda No: 399-16**

**(File No: 8956/2023)**

**Proposed Rough stone and gravel quarry lease over an extent of 1.30.3 Ha at S.F.No. 196/2A, 196/3, 196/4 & 197/2 of Appainackanpatti Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu by Thiru. S. Ragupathi - For Environment Clearance (SIA/TN/MIN/430026/2023 dt 22.05.2023)**

The proposal was placed in this 399<sup>th</sup> meeting of SEAC held on 10.08.2023. The Project Proponent made a detailed power point presentation about the proposed project. The details of the project furnished by the proponent are available in the website ([parivesh.nic.in](http://parivesh.nic.in)). The SEAC noted the following:

1. The Project Proponent, S. Ragupathi has applied seeking Environment Clearance for the proposed Rough Stone over an extent of 1.30.3 Ha at S.F.No. 196/2A, 196/3, 196/4 & 197/2 of Appainackanpatti Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification 2006, as amended.
3. ToR Lr No. SEIAA-TN/F.No.8956/SEAC/ToR 1134/2021 dated 25.03.2022.
4. Public Hearing was conducted on 07.12.2022.

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

1. An educational institution, namely, PSR Engineering College, with 5800 Nos. of students & 500 teachers, is located very close (within 500m) to the proposed quarry. Further, 1800 students are staying in the college hostel.
2. It is also noted that based on the Writ Petitions filed in the Hon'ble High Court against operation of mines in the area, the Hon'ble High Court had appointed an Advocate Commissioner to inspect the site and give a report. The Commission appointed by the Court had inspected site and submitted detailed report to the Court stating, among others, that "...The staff of the college and the counsel for the college had shown several broken window glass panes and shown cracks in several buildings but without expertise and assistance of a structural engineer and other experts to gauge the effect of explosion and it's impact on the buildings it is not possible for me say anything on the subject, however on 09.07.2021 we could hear explosive noise between 5 pm to 6 pm while inspecting near the workshop building in PSR Engineering College".
3. There are considerable number of structures located nearby.
4. Besides, the proposed site is also surrounded by the presence of fireworks and Vaippar River.
5. The proposed mining activity involves blasting.

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

Agenda No: 399 - 17

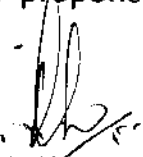
File No: 6367/2023

Proposed Multi Colour Granite quarry lease over an extent of 1.24.5 ha in S.F. No. 194/4B (Part), 242/1 & 243/1B at Eriodu Village, Veda sandur Taluk, Dindigul District, Tamil Nadu by Thiru. C.Rabeek Raja - For Environmental Clearance under violation category. (SIA/TN/MIN/431374/2023, Dated: 29.05.2023)

The proposal was placed in this 399<sup>th</sup> SEAC meeting held on 10.08.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation. SEAC noted the following:

  
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1. The Project Proponent, Thiru. C. Rabeek Raja has applied for Environmental Clearance for the Proposed Multi Colour Granite quarry lease over an extent of 1.24.5 ha in S.F. No. 194/4B (Part), 242/1 & 243/1B at Eriodu Village, Vedasandur Taluk, Dindigul District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 10 years. The mining plan is for 5 years & production should not exceed 1,84,625m<sup>3</sup> of Rough Stone & 23,916m<sup>3</sup> of Gravel. The annual peak production 37,715m<sup>3</sup> of Rough Stone & 15,276m<sup>3</sup> of Gravel. The ultimate depth of mining is 37m BGL.
4. Subsequently, the proponent had obtained ToR vide Lr. No. SEIAA-TN/F.No.6367/SEAC/ToR - 442/2018, Dated: 30.05.2018.
5. The proponent had obtained Extension of ToR vide Lr. No. SEIAA-TN/F.No.6367/SEAC/ToR - 442/2018, Dated: 22.12.2022.
6. Based on the KML file submitted by the proponent in Parivesh portal and google imagery, it is ascertained that the proposed site is approximately 6.29 Km from Kadavur Slender loris Wildlife Sanctuary.

Now, the proposal was placed in the 399<sup>th</sup> SEAC meeting held on 10.08.2023. During the meeting, EIA coordinator informed that the proponent was absent. Hence the subject was not taken up for appraisal. However, as per MoEF&CC Office memorandum vide FC-11/119/2020-FC Dated: 17.05.2022, the proposed site attracts NBWL clearance as per the provision contained in para 5 of the above-mentioned OM. Hence, the PP shall submit the following

1. The proponent shall submit the acknowledgment of the application submitted in Parivesh Portal for NBWL clearance.
2. The project proponent shall furnish the reason for his absence.

Upon the receipt of above said details, further deliberation shall be done.

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

  
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Agenda No: 399 - 18

File No: 6556/2023

Proposed Limestone quarry lease over an extent of 2.24.0 ha in S.F. No. 835/3, 836(Part) & 837/1B at Varavanai Village, Kulithalai Taluk (Presently at Kadavur Taluk), Karur District, Tamil Nadu by Thiru. S. Sekhar - For Environmental Clearance under violation category. (SIA/TN/MIN/435179/2023, Dated: 13.07.2023)

The proposal was placed in this 399<sup>th</sup> SEAC meeting held on 10.08.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation.

SEAC noted the following:

1. The Project Proponent, Thiru. S. Sekhar has applied for Environmental Clearance for the Proposed Limestone quarry lease over an extent of 2.24.0 ha in S.F. No. 835/3, 836(Part) & 837/1B at Varavanai Village, Kulithalai Taluk (Presently at Kadavur Taluk), Karur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 10 years. The mining plan is for 5 years & production should not exceed 1,84,625m<sup>3</sup> of Rough Stone & 23,916m<sup>3</sup> of Gravel. The annual peak production 37,715m<sup>3</sup> of Rough Stone & 15,276m<sup>3</sup> of Gravel. The ultimate depth of mining is 37m BGL.
4. Subsequently, the proponent had obtained ToR vide Lr.No.SEIAA-TN/F.No.6556/SEAC/ToR - 1035/2021, Dated: 13.10.2021.
5. Further, the proponent submitted an application for amendment in the earlier issued ToR vide SIA/TN/MIN/22466/2018 Dt. 19.3.2018. Subsequently, the proposal was placed in 298<sup>th</sup> SEAC meeting held on 22.07.2022.

Now the proponent has requested for amendment in ToR exempting him from public hearing. During the presentation, the proponent referred to the following Office Memorandums issued by MoEF&CC:

- i) O.M from MoEF&CC dated 04.04.2016, exempts mining projects (major minerals) with lease area up to 25 hectares from public hearing.

  
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- ii) O.M from MoEF&CC dated 12.11.2020 states that “While considering the applications for Environmental Clearance under the violation category as the provisions of S.O.804(E) dated 14.03.2017, the EACs/SEACs may insist upon public hearing to be conducted only for those categories of projects for which the EIA notification 2006 itself requires public hearing to be conducted.

Based on the above-mentioned O.M., the PP has requested for an amendment in ToR exempting from public hearing stating that the proposed project falls under Mining projects (major minerals) category with lease area < 25ha and coming under cluster mining >5ha.

After the detailed deliberations and discussion, the SEAC have decided not to consider the request of the Project proponent for the above said amendment as it falls under violation case and also considering the circumstances of this case.

Now, the proposal was placed in the 399<sup>th</sup> SEAC meeting held on 10.08.2023. During the presentation, Committee noted the following

**I. Notification & office memorandum issued by MoEF&CC from time to time**

1. As per EIA Notification 2006 S.O. 1533 (E) Dated: 14.09.2006, under

A. para 7(i)

• **I. Stage (1) - Screening:**

*“...The projects requiring an Environmental Impact Assessment report shall be termed Category ‘B1’ and remaining projects shall be termed Category ‘B2’ and will not require an Environment Impact Assessment report. For categorization of projects into B1 or B2 except item 8 (b), the Ministry of Environment and Forests shall issue appropriate guidelines from time to time.”*

• **III. Stage (3) - Public Consultation:**

*“...All Category ‘A’ and Category B1 projects or activities shall undertake Public Consultation, except the following: -*

- a) modernization of irrigation projects (item 1(c) (ii) of the Schedule).*  
*b) all projects or activities located within industrial estates or parks (item 7(c) of the Schedule) approved by the concerned authorities, and which*

- are not disallowed in such approvals.*
- c) expansion of Roads and Highways (item 7 (f) of the Schedule) which do not involve any further acquisition of land.*
  - d) All Building/Construction projects/Area Development projects and Townships (item 8).*
  - e) all Category 'B2' projects and activities.*
  - f) all projects or activities concerning national defense and security or involving other strategic considerations as determined by the Central Government.*

**B. para 12 Operation of EIA Notification, 1994, till disposal of pending cases:**

From the date of final publication of this notification the Environment Impact Assessment (EIA) notification number S.O.60 (E) dated 27th January, 1994 is hereby superseded, except in suppression of the things done or omitted to be done before such suppression to the extent that in case of all or some types of applications made for prior environmental clearance and pending on the date of final publication of this notification, the Central Government may relax any one or all provisions of this notification except the list of the projects or activities requiring prior environmental clearance in Schedule I , or continue operation of some or all provisions of the said notification, for a period not exceeding one year from the date of issue of this notification.

2. MoEF&CC vide office memorandum No. J-13012/12/2013-IA-II (I) dated: 24.12.2013 issued guidelines for consideration of proposals for grant of environmental clearance Environmental Impact Assessment (EIA) Notification, 2006 and its amendments regarding categorization of Category 'B' projects/activities into Category 'B1' & 'B2' among the others stated therein

(a) Para 2.

I. Mining of Minerals

Mining of minor minerals

II. Other projects or activities

(b) Para 3


*"The guidelines for categorization of Category 'B' projects/activities into*

*Category 'B1' & 'B2' are applicable only to those projects/activities mentioned above. All the other Category 'B' projects/activities listed under the Schedule of EIA Notification, 2006 and its amendments shall be considered as Category 'B1' projects and appraised as per the procedure prescribed in the EIA Notification."*

3. Following the dictum of the Hon'ble Supreme Court of India laid down in the case of Deepak Kumar & ors Vs. State of Haryana & ors (2012) 4 SCC 629, the National Green Tribunal, principal bench had passed a detailed judgment in the case of Himmat Singh Shekhawat Vs. State of Rajasthan & ors decided on 13th January, 2015, the Tribunal had issued large number of directions in paragraph 83 of the judgment as follows among others stated therein:

- I. For the reasons afore recorded, we hold and declare that the Notification dated 9th September, 2013 is invalid and inoperative for non-compliance of the statutorily prescribed procedure under the Environment (Protection) Rules, 1986 and 90 for absence of any justifiable reason for dispensation of such procedure.
- II. We also hold and declare that the Office Memorandums dated 24th June, 2013 and 24th December, 2013 to the extent afore indicated are invalid and inoperative being beyond the power of delegated legislation.
- III. All the Office Memorandums and Notifications issued by MoEF i.e., 1st December, 2009, 18th May, 2012 and 24th June, 2013 and 24th December, 2013(except to the extent afore-stated) are operative and would apply to the lease mine holders irrespective of the fact that whether the area involved is more or less than 5 hectares.

4. Subsequently, as per EIA Notification 2006 S.O. 141 (E) Dated: 15.01.2016,  
*"...And whereas, in pursuance to the order of Hon'ble Supreme Court dated the 27th February, 2012 in I.A. No.12- 13 of 2011 in Special Leave Petition (C) No.19628-19629 of 2009, in the matter of Deepak Kumar etc. Vs. State of Haryana and Others etc., prior environmental clearance has now become mandatory for mining of minor minerals irrespective of the area of mining lease;  
And whereas, as a result of the above said Order of Hon'ble Supreme*

  
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*Court, the number of cases which are now required to obtain prior environmental clearance has increased substantially; And whereas, the Hon'ble National Green Tribunal, vide its order dated the 13th January, 2015 in the matter regarding sand mining has directed for making a policy on environmental clearance for mining leases in cluster for minor minerals:*

*And whereas, the State Governments have represented for streamlining the process of environmental clearance for mining of minor mineral:*

*...the Central Government made the following amendments in the said notification, namely: -*

*Para (k) in the Schedule, -*

*(i) for item 1 (a) and the entries relating thereto, the following item and entries shall be substituted, namely: -*

(1)	(2)	(3)	(4)	(5)
"1(a)	(i) Mining of minerals	≥50 ha of mining lease area in respect of noncoal mine lease. >150 ha of mining lease area in respect of coal mine lease. Asbestos mining irrespective of mining area.	<50 ha of mining lease area in respect of non-coal mine lease ≤150 ha of mining lease area in respect of coal mining lease	General Conditions shall apply except: (i) for project or activity of mining of minor minerals of Category 'B2' (up to 25 ha of mining lease area); (ii) River bed mining projects on account of inter-state boundary.  Note: (1) Mineral prospecting is exempted."  (2) The prescribed procedure for

				<p><i>environmental clearance for mining of minor minerals including cluster situation is given in Appendix XI.”:</i></p> <p><i>(3) The mining leases which have obtained environmental clearance under Environment Impact Assessment Notification, 1994 and Environment Impact Assessment Notification, 2006 shall not require fresh environmental clearance during renewal provided the project has valid and subsisting environmental clearance.</i></p>
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*Para (1) after Appendix VI, the following appendices shall be inserted, namely: -*

**APPENDIX - XI**

*[See paragraph 7 (iii) (b)]*

**PROCEDURE FOR ENVIRONMENTAL CLEARANCE FOR MINING OF MINOR MINERALS INCLUDING CLUSTER**

*The following policy shall be followed for environmental clearance of mining of minor minerals including cluster situation: -*

*“... (6). A cluster shall be formed when the distance between the peripheries of one lease is less than 500 meters from the periphery of other lease in a homogeneous mineral area.”*

  
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5. Subsequently, as per EIA Notification 2006 S.O. 2269 (E) Dated: 01.07.2016,  
“Whereas by notification of the Government of India in the erstwhile Ministry of Environment and Forest number S.O. 1533 (E), dated the 14th September, 2006 published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (ii) (hereinafter referred to as the said notification) directions has been given on environmental clearance for minor minerals and environment clearance for leases in cluster;

And whereas, the provision of cluster in the said notification is causing practical difficulty in the State of Rajasthan, where a large number of small size (15×30 sq. mt or 30×60 sq. mt) leases and quarry licenses are operational for many years. A large number of such leases have been granted years before, and have been further fragmented with family partitions. These mines are located adjacent to each other leaving no space between two leases, which make it difficult to prepare and implement Environment Management Plan for individual leases;

And whereas, many of the lessees who applied for environmental clearance for individual leases, but by classification of cluster in the said notification are being included in B1 category and has to be processed at the State level, whereas the work of appraisal and environmental clearance for small leases is assigned to the district level authority; And whereas, in view of the sudden unemployment of a large number of persons in the State of Rajasthan due to closure of mines,

... the Central Government hereby makes the following further amendments to the notification of the Government of India, in the erstwhile Ministry of Environment and Forests number S.O. 1533(E), dated the 14th September, 2006 after having dispensed with the requirement of notice under clause (a) of sub-rule (3) of the said rule 5 in public interest, namely: –

(b) in Appendix XI, -

- (i) for paragraph 6, the following shall be substituted, namely: - “(6)  
A cluster shall be formed when the distance between the peripheries of one lease is less than 500 meters from the periphery

  
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of other lease in a homogeneous mineral area which shall be applicable to the mine leases or quarry licenses granted on and after 9th September, 2013.”;

- (ii) after the Table relating to “Schematic Presentation of Requirements on Environment Clearance of Minor Minerals including cluster situation” and before Appendix XII, the following Note shall be inserted at the end, namely: -

“Note. –

(1) In the State of Rajasthan, for mining of minor minerals, in situation of a large number of leases or quarry licenses of very small size (up to one hectare each) in contiguous area, the Mines and Geology Department of the State Government shall stated therein.

(5) The leases not operative for three years or more and leases which have got environmental clearance as on 15th January, 2016 shall not be counted for calculating the area of cluster, but shall be included in the Environment Management Plan and the Regional Environmental Management Plan.”

6. Subsequently, as per EIA Notification 2006 S.O. 3977 (E) Dated: 14.08.2018, The following amendments were made in the schedule among the others stated therein

(i) against item 1(a),

(a) in column (4),

for “<50 ha of mining lease area in respect of non-coal mine lease”, the following were substituted as

“... ≤ 100 ha of mining lease area in respect of non-coal mine lease.”

7. Subsequently, as per EIA Notification 2006 S.O. 1886 (E) Dated: 20.04.2022, The following amendments were made in the schedule among the others stated therein

(2) in the Schedule,

(i) against item 1(a), –



(b) in column (4)

(A) for “≤ 100 ha of mining lease area in respect of non-coal mine lease”, the following shall be substituted, namely: –

“All mining lease area in respect of minor mineral mining leases and ≤ 250 ha mining lease area in respect of major mineral mining lease other than coal”;

(B) for the symbols, figures and letters “≤ 150 ha”, the symbols, figures and letters “≤ 500 ha” shall be substituted;

## II. Observations of SEAC

Hence, based on the above Notification and office memorandum issued by MoEF&CC issued by MoEF&CC from time to time,

- a. In the parent notification S.O. 1533 (E) dated 14.09.2006, under para 7 public consultation was mandated for category A and category B1 projects with certain exemptions as stated above.
- b. Subsequently, MoEF&CC vide office memorandum dated 24.12.2013 had issued guidelines for consideration of proposals for grant of environmental clearance Environmental Impact Assessment (EIA) Notification, 2006 and its amendments regarding categorization of Category 'B' projects/activities into Category 'B1' & 'B2'.
  - Where, in para 3 of the above-mentioned OM among the other stated therein, states that  
*“The guidelines for categorization of Category 'B' projects/activities into Category 'B1' & 'B2' are applicable only to those projects/activities mentioned above. All the other Category 'B' projects/activities listed under the Schedule of EIA Notification, 2006 and its amendments shall be considered as Category 'B1' projects and appraised as per the procedure prescribed in the EIA Notification.”*
- c. Further, the above-mentioned office memorandum was modified by the Hon'ble National Green Tribunal, principal bench vide order dated 13.01.2015 in O.A. No. 123 of 2014 and M.A. No. 419 of 2014 and the Tribunal had issued large number of directions in paragraph 83 of the judgment.


- Further, based on the above judgement, Sustainable sand mining management guidelines, 2016 was issued by MoEF&CC, where under Regime of Law and Administrative Orders Relating to Mining of Minor Minerals, it states that  
*"...the proviso at paragraph 2 (iii) of O.M. dated 24.12.2013 which says that "No river sand mining project, with mine lease area less than 5 ha, may be considered for granting EC" has been quashed."*
- d. Subsequently, in the notification issued by MoEF&CC vide
- i. S.O. 141 (E) dated 15.01.2016,
    - Appendix XI was included in the EIA Notification 2006 which provides the procedure to be followed for grant of Environmental clearance for mining of minor minerals including cluster.
  - ii. S.O. 2269 (E) dated 01.07.2016,
    - Certain amendments were made in the para 6 of the notification S.O. 141 (E) dated 15.01.2016 which pertains to the cluster situation of mining of minor minerals stated therein.
- e. Subsequently, in the notification issued by MoEF&CC S.O. 1886 (E) Dated: 20.04.2022,
- Up to 250 Ha of major minerals shall be appraised at state level by SEIAA.
  - All minor minerals irrespective of extent shall be appraised at state level by SEIAA.

In the light of the above-mentioned notification & office memorandum issued from time to time, committee is of the opinion that

- A. The cluster situation has been defined with respect to mining of minor minerals only vide notification S.O. 141 (E) dated 15.01.2016 & S.O. 2269 dated 01.07.2016.
- B. Further, as per the parent notification S.O. 1533 (E) dated: 14.09.2006, under para 7(i) I. stage (1) – Screening,
  - *"...For categorization of projects into B1 or B2 except item 8 (b), the*

  
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*Ministry of Environment and Forests shall issue appropriate guidelines from time to time.”*

C. Subsequently, MoEF&CC vide office memorandum dated 24.12.2013, issued guidelines regarding categorization of various Category 'B' projects/activities in the schedule into Category 'B1' & 'B2' for consideration of proposals for grant of environmental clearance Environmental Impact Assessment (EIA) Notification, 2006 and its amendments.

- Hence, as per the provision contained in para 3 of the above-mentioned OM, it is ascertained that, all category 'B' projects/activities, other than minor minerals which are categorized as B1 and B2 as stated therein, shall be considered as category B1 projects and appraised as per procedure prescribed in the EIA Notification.

D. Further, as per MoEF&CC notification S.O. 1886 dated: 20.04.2022,

- The major mineral extent up to 250 Ha shall be appraised at state level by SEIAA.


### III. Conclusion


Based on the above, SEAC decided to conclude that

- i. The major minerals up to 250 Ha falls under the 'B1' category as per the above-mentioned OM dated 24.12.2013.
- ii. As per the EIA notification, 2006 para 7(i) III. Stage (3) under Public Consultation mandates that all Category 'A' and Category 'B1' projects or activities shall undertake Public Consultation.

Based on the presentation and documents furnished by the proponent and considering the provision of MoEF&CC notification and office memorandum the Committee noted that

1. The proponent's request to amend the earlier issued Terms of Reference vide online proposal number SIA/TN/MIN/22466/2018 Dt. 19.3.2018 under violation category to exempt from public hearing was rejected in the 298<sup>th</sup> SEAC meeting held on 22.07.2022.
2. Further, the proponent has not conducted public hearing despite the fact that the proponent's request to exempt from public hearing was rejected previously

  
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and subsequently, the proponent had submitted an EIA report in Parivesh portal vide online proposal number SIA/TN/MIN/435179/2023, Dated: 13.07.2023 without public hearing.

Hence, the Committee decided to direct the proponent to conduct public hearing and shall submit the public hearing minutes in Parivesh portal.

Upon the receipt of the same, further deliberation shall be made.

Agenda No: 399 – TA1

(File No. 6217/2018)

Existing Black Granite Quarry over an extent of 1.20.0 Ha at S.F. Nos. 1/6, 2/1, 2/2A, 2/3B1 & 2/3B2 at Semangalam Village, Vanur Taluk, Villupuram District, Tamil Nadu by M/s. Karthik Raja Exports, for Environmental Clearance “Under Violation”. (SIA/TN/MIN/74640/2018 Dt:11.04.2022).

The details of the project furnished by the proponent are available in the website (parivesh.nic.in). Earlier, the proposal was again placed in 335<sup>th</sup> SEAC meeting held on 06.12.2022

The SEAC noted the following.

1. The Project Proponent, M/s. Karthik Raja Exports has applied for Environmental Clearance under Violation along with EIA Report & along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan for the Existing Black Granite Quarry over an extent of 1.20.0 Ha at S.F. Nos. 1/6, 2/1, 2/2A, 2/3B1 & 2/3B2 at Semangalam Village, Vanur Taluk, Villupuram District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category “B” – “Under Violation” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006.
3. Application for ToR under Violation Dt:04.04.2018.
4. The ToR under violation for carrying out the EIA study under violation issued vide SEIAA. Lr. No. SEIAA-TN/F.No.6217/TOR- 372/2018 Dated: 18.05.2018
5. ToR Amendment for ToR under Violation with Public Hearing issued vide Lr. . No. SEIAA-TN/F-6217/SEAC-CXVIII/TOR-372(A)/2018, dt.30.07.2018.
6. The project proponent has obtained Mining lease vide G.O.(3D). No.14,

  
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Industries (MMB-2) department Dated 05.03.2010.

Based on the presentation made and documents furnished by the project proponent, the SEAC decided to make site inspection by the Sub-committee to be constituted by the SEAC to assess the present status of the project and environmental settings as the proposal falls under violation category. Further the subcommittee will assess the ecological damage and to check the Remedial Plan & Community Augmentation Plan submitted by the PP during the inspection.

The Project proponent shall furnish the following documents during the site inspection by the sub-committee.

1. Copy of penalty claimed and copy of remittance of the total penalty levied by the AD/DD, Dept of Geology and Mining, Villupuram District.
2. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
3. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
4. 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.
5. The PP shall produce details of public hearing conducted with reference to date of ToR issued.
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.

On the receipt of the sub-committee report, further deliberation will be carried out in the forthcoming Committee Meeting. SEAC also decided to ask SEIAA to move the Government to initiate credible action under Sec. 19 of the Environment Act.

Subsequently, the proposal was placed in the 616<sup>th</sup> Authority meeting held on 21.12.2022. The Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 06.12.2022.

  
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The proposal was again placed in 399<sup>th</sup> SEAC Meeting held on 10.08.2023 and the Sub Committee inspected the site on 02.07.2023 and submitted the site inspection report on 10.08.2023 as detailed below:


M/s. Karthik Raja Exports commenced this granite mine without prior Environmental Clearance as per the MoEF Notification S.O 1533(E) dated, 14.09.2006. Hence, the project comes under violation category as per MoEF&CC Notification S.O 804(E) dated 14.03.2017.

The PP has operated the quarry during the violation period from 15.01.2016 to 10.01.2017 and obtained necessary transport permit to a quantity of 291.018 cbm. The PP was directed to pay the amount of Rs.46,71,226/- to the Department of Geology and Mining towards 100% cost value of the mined mineral against the permitted EC quantity

Damage Assessment report has been prepared in accordance with MoEF & CC Notification dated 14.03.2017 by the PP.

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

1. The black granite quarry of M/S KARTHIK RAJA EXPORTS over an extent of 1.20.0 Ha is located in Semangalam and Kunnam Villages, Vanur Taluk, Villupuram District.
2. As submitted and verified, mining lease for quarrying Black granite in S.F.No: 1/6, 2/2A, 2/3B1 & 2/3B2, over an extent of 1.20.0Ha of Semangalam Village, Vanur Taluk of Villupuram District, Tamil Nadu state vide G.O (3D) No. 14 industries (MMB-2) Department dated 17.03.2010 for a period of 20 years. The mining lease deed was executed on 26.03.2010 and the lease will expire on 25.03.2030.
3. The peak production in the quarry is recorded in the year 2013 – 14 which is 110.721 CBM.
4. Delay in EC application from the Date of issue of ToR & Public Hearing conductance.
5. 11 quarries are found within 500 m radius (14.30.5 Ha) vide AD, Mines L.No. R.C.No. A/G&M/922/2015 dated 15.10.2019.

  
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6. The ToR issued vide letter L.No. SEIAA –TN/F.No.6217/TOR-372/2018, Dated:18.05.2018.
7. Habitation is located at Semangalam – 1.5 Km South.
8. The Lease is fenced with barbed wire in all sides and boundary pillars marked are noticed with geo Coordinates.
9. Mine is not in operation and Pit is filled with rain water.
10. As reported, the mine is not in operation since 2017.
11. The mine offices, Rest Shelter, First Aid facility, are available adjacent to mining lease area.
12. Developed Green belt is noticed in around mine offices, Rest Shelter, First Aid facility. However, PP has now planted new saplings along the peripheries of the Lease.
13. As informed, environment friendly Mining activity, mechanized method using excavator was carried out in the Lease during the Violation Period upto a depth of 18 m BGL and no ground water- table intersection was encountered as it exist at the depth of 60 m BGL..

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

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


#### **MINING PLAN APPROVALS**

The mining plan was approved by Department of Geology and Mining, Guindy, Chennai vide letter no: 11363/MM5/2009, dated 05.03.2010 and valid up to 04.03.2015 2. The first scheme of mining was prepared and submitted as per Rule 18(3) GCDR, 1999 for the period 2015-16 to 2019-2020. Any Mining Plan/Scheme if not approved within 90 days, the lessee shall continue the quarry operation and considered as deemed approval as per Rule 18 (5) of Granite Conservation and Development Rules, 1999.

#### **GREEN BELT DEVELOPMENT AND PLANTATION**

Since the lease area is Granite terrain the PP has propped to plant predomenetly 1000 native species during the ensuing Scheme of mining period .

#### **PENALTY FOR VIOLATION**

  
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The PP has operated the quarry during the violation period from 15.01.2016 to 10.01.2017 and obtained necessary transport permit to a quantity of 291.018 cbm. The PP was directed to pay the amount of Rs.46,71,226/- to the Department of Geology and Mining towards 100% cost value of the mined mineral against the permitted EC quantity.

However, the PP has obtained interim order for the collection of the said cost of mineral. However, the PP has submitted an affidavit that he will abide to any directions issued by the Hon'ble High Court regarding payment of cost of mineral in future since the Writ Appeal No. 18556 of 2022 is pending in Hon'ble High Court of Madras.

**CONCLUSIONS:**

As the Proposal falls in Low Level Ecological Damage during the Violation Period, the Sub-Committee is of the opinion that the higher Environmental Compensation value has been arrived based on the CPCB Guidelines is Rs. 12,00,000/- which is higher than the other estimation - Environmental Compensation values of Rs. 2,40,000/- based on SEAC-TN model and Rs. 2,82,000/- based on the EIA estimates prepared by the EIA coordinator. Therefore, the aforesaid value of Rs. 12,00,000/- must be compensated for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan as follows:

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	5,50,000
2	Natural Resource Augmentation Plan	3,00,000
3	Community Resource Augmentation Plan	3,50,000
<b>Grand Total</b>		<b>12,00,000</b>

Based on the CPCB Guidelines for the violation cases, the CER value is estimated as Rs. 5,00,000/-. However, the PP had committed to provide the following budget towards the Corporate Environmental Responsibility (CER) during the SEAC Sub-Committee Inspection.

  
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Particulars	CER Amount
Providing Incinerator (10 kg/batch) for Government School, in nearest two villages	Rs.3,00,000
Maintaining the Toilet facility in Govt School	Rs.2,00,000
Total	Rs. 5,00,000

#### STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 12,00,000/- must be given to TNPCB for successful implementation of the Schemes within the period of two years. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. CER fund of Rs. 5,00,000 must be spent by the PP as committed during the appraisal and receipt has to be produced before executing the lease.
3. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

#### RECOMMENDATIONS

Based on the report submitted by the Sub-Committee, the SEAC have observed that the Mining of Black Granite in an extent of 1.20.0 Hectare in 1/6, 2/1, 2/2A, 2/3B1 & 2/3B2 Semangalam Village, Vanur Taluk of Villupuram District for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the SEAC recommend the grant of Environmental Clearance for Mining of Black Granite in an extent of 1.20.0 Ha SF No. 1/6, 2/1, 2/2A, 2/3B1 & 2/3B2 Semangalam Village, Vanur Taluk of Villupuram District of M/s Karthick Raja Exports for not exceeding the annual peak production capacity of 6825 m<sup>3</sup> of ROM with an ultimate pit depth of not exceeding 42 m below ground level subject to the following conditions in addition to the normal conditions:


1. The amount prescribed for Ecological remediation (Rs. 5,50,000), natural resource augmentation (Rs. 3,00,000) & community resource augmentation (Rs. 3,50,000), totaling Rs. 12,00,000 shall be spent towards the activities committed

by the PP in the EIA Report. Hence, the SEAC decided to direct the project proponent to remit the amount of Rs. 12,00,000 in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.

#### Ecological Remediation Plan

S.No	Description	Cost
1	Land Reclamation	Rs.1,00,000
2	Cost for Plantation around lease boundary	Rs.2,00,000
3	Cost estimated for SI fencing around lease area	Rs.2,50,000
<b>Total Cost</b>		<b>Rs.5,50,000</b>

2. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
3. The amount committed by the Project proponent for CER (Rs. 5,00,000) shall be spent for the benefit of the beneficiary to the activities committed by the proponent. A copy of receipt from the beneficiary shall be submitted before executing the lease. However, the PP shall supervise the work and submit the status of the work complied pertaining to the CER within a period of one year to the DEE/TNPCB and the SEIAA after the execution of the lease.
4. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
5. The company shall submit the 'No Dues Certificate' obtained from State Government i.e. Department of Geology & Mining to the SEIAA before grant of EC, if it is not produced earlier.

  
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S. No	Activities	Financial Proposal
<b>Natural Resource Augmentation Plan</b>		
1	Development of Rain water harvesting pit in the houses of nearest villages (1 House)	Rs.1,00,000
2	Installing 4 numbers of 40 watt Solar light Pole One 40 watt Solar light Pole = Rs.30,000	Rs.1,20,000
3	Plantation in common areas of villages like bus stops, Govt hospitals, VAO offices (40 Trees)	Rs.80,000
<b>Total</b>		<b>Rs.3,00,000</b>
<b>Community Resource Augmentation Plan</b>		
1	Installation of RO Plant for safe drinking water supply to Government Hospital and Government High school, Semangalam in Nearest Village. (Capacity = 50 LPH – 6 Nos)	Rs.1,50,000
2	Developing Library facility in the nearest Government schools & Purchase of Environmental related Books	Rs.1,00,000
4	Conducting Health and Safety Awareness Program among nearest village people	Rs.1,00,000
<b>Total</b>		<b>Rs 3,50,000</b>

CER Activity	Project Cost (Rs. In Lakhs)	Cost allocated for CER activity (Rs. In Lakhs)
1. Developing Facilities such as Water Purifier, Fan, Cot and Bed to the Semangalam village Dispensary.	43	5.0
2. Developing facilities such as Water Purifier and Computer facilities to the Govt. High School, Semangalam.		
<b>Total Cost Allocation</b>	<b>43</b>	<b>5.0</b>

  
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6. 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.
7. The PP shall install the Environmental Management Cell headed by the statutory (I/II Class) Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
8. 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.
9. 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.
10. 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.
11. The proponent shall obtain a 'Star Rating' system awarded by Anna University, Chennai annually to the mining lease being operated for their efforts and initiatives taken for successful implementation of the Sustainable Development Framework (SDF). A copy of the certificate obtained on 'Star Rating System' shall be sent to the concerned AD (Mines), the concerned DEE/TNPCB, IRO/MoEF &CC and the SEIAA-TN.
12. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.

  
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Agenda No: 399-TA- 02

(File No. 6218/2018)

Existing Black Granite Quarry over an extent of 1.44.5 Ha at S.F. Nos. 1/10, 1/11, 1/13A, 1/13B, 1/14 & 1/16 of Semangalam Village, Vanur Taluk, Villupuram District, Tamil Nadu by M/s. Karthik Raja Exports, for Environmental Clearance "Under Violation". (SIA/TN/MIN/74807/2018 Dt:06.04.2018).

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

The SEAC noted the following:

1. The Project Proponent, M/s. Karthik Raja Exports has applied for Environmental Clearance under Violation along with EIA Report & along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan for the Existing Black Granite Quarry over an extent of 1.44.5 Ha at S.F. Nos. 1/10, 1/11, 1/13A, 1/13B, 1/14 & 1/16 of Semangalam Village, Vanur Taluk, Villupuram District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B" – "Under Violation" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Application for ToR under Violation Dt:02.04.2018.
4. The ToR under violation for carrying out the EIA study under violation issued vide SEIAA. Lr. No. SEIAA-TN/F.No.6218/TOR- 341/2018 Dated: 14.05.2018
5. ToR Amendment for ToR under Violation with Public Hearing issued vide Lr. No. SEIAA-TN/F-6218/SEAC-CXVIII/TOR-341(A)/2018, dt.30.07.2018.
6. The project proponent has obtained Mining lease vide G.O.(3D). No.14, Industries (MMB-2) department Dated 05.03.2010.

Earlier, this proposal was placed in the 335<sup>th</sup> SEAC meeting held on 06.12.2022. Based on the presentation made and documents furnished by the project proponent, the SEAC decided to make site inspection by the sub-committee to be constituted by the SEAC to assess the present status of the project and environmental settings as the proposal falls under violation category. Further the subcommittee will assess the ecological damage and to check the Remedial Plan & Community Augmentation Plan

  
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submitted by the PP during the inspection.

The PP shall furnish the following documents during the site inspection by the sub-committee


1. Copy of penalty claimed and copy of remittance of the total penalty levied by the AD/DD, Dept of Geology and Mining, Villupuram District.
2. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
3. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
4. 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.
5. The PP shall produce details of public hearing conducted with reference to date of ToR issued.
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.

On the receipt of the sub-committee report, further deliberation will be carried out in the Forthcoming Committee Meeting. SEAC also decided to ask SEIAA to move the Government to initiate credible action under Sec. 19 of the Environment Act.

The proposal was again placed in 399<sup>th</sup> SEAC Meeting held on 10.08.2023 and the Sub Committee inspected the site on 02.07.2023 and submitted the site inspection report on 10.08.2023 as detailed below:

**M/s. Karthik Raja Exports** commenced this granite mine without prior Environmental Clearance as per the MoEF Notification S.O 1533(E) dated, 14.09.2006. Hence, the project comes under violation category as per MoEF&CC Notification S.O 804(E) dated 14.03.2017.

The PP has operated the quarry during the violation period from 15.01.2016 to 10.01.2017 and obtained necessary transport permit to a quantity of 97.471 cbm. The PP was directed to pay the amount of Rs.38,83,829/- to the Department of Geology and Mining towards 100% cost value of the mined mineral against the permitted EC

  
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quantity. The Ecological Damage Assessment report has been prepared in accordance with MoEF & CC Notification dated 14.03.2017.

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

1. The black granite quarry of M/S KARTHIK RAJA EXPORTS over an extent of 1.44.5 Ha is located in Semangalam and Kunnam Villages, Vanur Taluk, Villupuram District.
2. As submitted and verified, mining lease for quarrying Black granite in S.F.No: 1/10, 1/11, 1/13A, 1/13B, 1/14, 1/16, over an extent of 1.44.5 Ha of Semangalam Village, Vanur Taluk of Villupuram District, Tamil Nadu state vide G.O (3D) No. 35industries (MMB-2) Department dated 27.02.2006 for a period of 20 years. The mining lease deed was executed on 27.03.2006 and the lease will expire on 26.03.2026.
3. Delay in EC application from the Date of issue of ToR & Public Hearing conductance.
4. 11 quarries are found within 500 m radius (14.30.5 Ha) vide AD, Mines L.No. R.C.No. A/G&M/922/2015 dated 15.10.2019.
5. The ToR issued vide letter L.No. SEIAA -TN/F.No.6217/TOR-372/2018, Dated:18.05.2018.
6. Habitation is located at Semangalam – 1.5 Km South.
7. The Lease is fenced with barbed wire in all sides and boundary pillars marked are noticed with geo Coordinates.
8. Mine is not in operation and Pit is filled with rain water.
9. As reported, the mine is not in operation since 2017.
10. The mine offices, Rest Shelter, First Aid facility, are available adjacent to mining lease area.
11. Developed Green belt is noticed in around mine offices, Rest Shelter, First Aid facility. However, PP has now planted new saplings along the peripheries of the Lease.
12. As informed, environment friendly Mining activity, mechanized method using excavator was carried out in the Lease during the Violation Period upto a depth

of 18 m BGL and no ground water- table intersection was encountered as it exist at the depth of 60 m BGL.

#### STATUS OF MINING OPERATION

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

The mining plan was approved by Department of Geology and Mining, Guindy, Chennai vide letter no: 16059/MM5/2003, dated 17.02.2006 and valid up to the life of the lease. The third scheme of mining was prepared and submitted as per Rule 18(3) GCDR, 1999 for the period 2021-22 to 2025-2026. Any Mining Plan/Scheme if not approved within 90 days, the lessee shall continue the quarry operation and considered as deemed approval as per Rule 18 (5) of Granite Conservation and Development Rules, 1999.

The PP has operated the quarry during the violation period from 15.01.2016 to 10.01.2017 and obtained necessary transport permit to a quantity of 97.471 cbm. The PP was directed to pay the amount of Rs.38,83,829/- to the Department of Geology and Mining towards 100% cost value of the mined mineral against the permitted EC quantity.

However, the PP has obtained interim order for the collection of the said cost of mineral. However, the PP has submitted an affidavit that he will abide to any directions issued by the Hon'ble High Court regarding payment of cost of mineral in future since the Writ Appeal No. 18553 of 2022 is pending in Hon'ble High Court of Madras.

The Sub-Committee opines the Proposal falls in **Low Level Ecological Damage** during the Violation Period, and hence the higher Environmental Compensation value has been arrived based on the CPCB Guidelines is Rs. 12,00,000/- which is higher than the other estimation - Environmental Compensation values of Rs. 2,89,000/- based on SEAC-TN model and Rs. 2,82,000/- based on the EIA estimates prepared by the EIA coordinator. Therefore, the aforesaid value of Rs. 12,00,000/- must be compensated for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan as follows:

  
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Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	5,50,000
2	Natural Resource Augmentation Plan	3,00,000
3	Community Resource Augmentation Plan	3,50,000
<b>Grand Total</b>		<b>12,00,000</b>

Based on the CPCB Guidelines for the violation cases, the CER value is estimated as Rs. 5,00,000/-. However, the PP had committed to provide the following budget towards the Corporate Environmental Responsibility (CER) during the SEAC Sub-Committee Inspection.


Particulars	CER Amount
Providing Incinerator (10 kg/batch) for Government School, in nearest two villages	Rs.3,00,000
Maintaining the Toilet facility in Govt School	Rs.2,00,000
<b>Total</b>	<b>Rs. 5,00,000</b>

#### STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 12,00,000/- must be given to TNPCB for successful implementation of the Schemes within the period of two years. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. CER fund of Rs. 5,00,000 must be spent by the PP as committed during the appraisal and receipt has to be produced before executing the lease.
3. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

#### RECOMMENDATIONS

The SEAC has observed that the Mining of Black Granite in an extent of 1.20.0 Hectare in 1/6, 2/1, 2/2A, 2/3B1 & 2/3B2 Semangalam Village, Vanur Taluk of Villupuram District for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the report submitted by the sub-committee. Hence, the SEAC

  
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recommend the grant of Environmental Clearance for Mining of Black Granite in an extent of 1.20.0 Ha SF No. 1/6, 2/1, 2/2A, 2/3B1 & 2/3B2 Semangalam Village, Vanur Taluk of Villupuram District of M/s Karthik Raja Exports for not exceeding the annual peak production capacity of 10212 m<sup>3</sup> of ROM with an ultimate pit depth of not exceeding 32 m below ground level subject to the following conditions in addition to the normal conditions:

1. The amount prescribed for Ecological remediation (Rs. 5,50,000), natural resource augmentation (Rs. 3,00,000) & community resource augmentation (Rs. 3,50,000), totaling Rs. 12,00,000 shall be spent towards the activities committed by the PP in the EIA Report. Hence, the SEAC decided to direct the project proponent to remit the amount of Rs. 12,00,000 in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.

S.No	Description	Cost
1	Land Reclamation	Rs.1,50,000
2	Cost for Plantation around lease boundary	Rs.1,50,000
3	Cost estimated for SI fencing around lease area	Rs.2,50,000
<b>Total Cost</b>		<b>Rs.5,50,000</b>

S. No	Activities	Financial Proposal
<b>Natural Resource Augmentation Plan</b>		
1	Development of Rain water harvesting pit in the houses of nearest villages (1 House)	Rs.1,00,000
2	Installing 4 numbers of 40 watt Solar light Pole One 40 watt Solar light Pole = Rs.30,000	Rs.1,20,000
3	Plantation in common areas of villages like bus stops, Govt hospitals, VAO offices (40 Trees)	Rs.80,000
<b>Total</b>		<b>Rs.3,00,000</b>

  
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Community Resource Augmentation Plan		
1	Installation of RO Plant for safe drinking water supply to Government Hospital and Government schools in Nearest Village. (Capacity = 50 LPH – 6 Nos)	Rs.1,00,000
2	Developing Library facility in the nearest Government schools & Purchase of Environmental related Books	Rs.1,00,000
4	Conducting Health and Safety Awareness Program among nearest village people	Rs.1,50,000
	<b>Total</b>	<b>Rs 3,50,000</b>

CER Activity	Project Cost (Rs. In Lakhs)	Cost allocated for CER activity (Rs. In Lakhs)
3. Developing Facilities such as Water Purifier, Fan, Cot and Bed to the Semangalam village Dispensary.	43	5.0
4. Developing facilities such as Water Purifier and Computer facilities to the Govt. School.		
<b>Total Cost Allocation</b>	<b>43</b>	<b>5.0</b>

2. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.

3. The amount committed by the Project proponent for CER (Rs. 5,00,000) shall be spent for the benefit of the beneficiary to the activities committed by the proponent. A copy of receipt from the beneficiary shall be submitted before executing the lease. However, the PP shall supervise the work and submit the status of the work complied pertaining to the CER within a period of one year to the DEE/TNPCB and the SEIAA after the execution of the lease.

  
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4. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
5. The company shall submit the 'No Dues Certificate' obtained from State Government i.e. Department of Geology & Mining to the SIEAA before grant of EC, if it is not produced earlier.
6. 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.
7. The PP shall install the Environmental Management Cell headed by the statutory (I/II Class) Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
8. 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.
9. 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.
10. 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.
11. The proponent shall obtain a 'Star Rating' system awarded by Anna University, Chennai annually to the mining lease being operated for their efforts and initiatives taken for successful implementation of the Sustainable Development Framework (SDF). A copy of the certificate obtained on 'Star Rating System' shall

be sent to the concerned AD (Mines), the concerned DEE/TNPCB, IRO/MoEF &CC and the SEIAA-TN.

12. 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.

**Agenda No. 399 – TA - 03**

**(File No.6255/2023)**


**Existing Lime Stone Mine lease over an extent of 0.24.29Ha at S.F.No.644/4(Part) of Sirungudi Village, Natham Taluk, Dindigul District, Tamil Nadu by M/s. Sivam Mines – For Environmental Clearance under violation category. (SIA/TN/MIN/418939/2023, dated: 18.02.2023)**


The proposal was placed in the 369<sup>th</sup>SEAC Meeting held on 20.04.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, M/s. Sivam Mines, has applied for Environmental Clearance under violation category for the Existing Lime Stone Mine lease over an extent of 0.24.29Ha at S.F.No.644/4 (Part) of Sirungudi Village, Natham Taluk, Dindigul District, Tamil Nadu.
2. The project/ activity is covered under Category “B” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification,2006.
3. TOR was issued vide LrNo.SEIAA-TN/F.No.6255/SEAC/ToR-418/2018 Dated: 25.05.2018.
4. Extension to TOR vide Lr.No.SEIAA-TN/F.No.6255/SEAC/TOR-418/2018/Extn, dated: 28.11.2022.
5. EIA Report was submitted on: 23.02.2023.
6. Earlier the proposal was placed in 369<sup>th</sup> SEAC meeting held on 20.04.2023. Based on the presentation made by the proponent, SEAC decided to call for additional details

1. To revise the ecological damage assessment as per CPCB Guidelines.

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

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

The proposal was again placed in 399<sup>th</sup> SEAC Meeting held on 10.08.2023 and the Sub Committee inspected the site on 02.07.2023 and submitted the site inspection report on 10.08.2023 as detailed below:


M/s. Sivam Mines is a Partnership Firm. When the Transfer of mining lease was granted in the year 2014, the partners of the firm are Thiru. S.Asaialangaram, Thiru.S.Ilangovan, Thiru. I.Vijay Alangar and Selvi. I.Sempon Manickam. Thiru. S.Ilangovan is the Managing Partner of the firm.

The mining lease for limestone mining was granted to Thiru. S. Asaialangaram, Dindigul District vide G.O. 3 (D).No. 325, Industries (MMA II) Department, Dated 09.11.1995 for a period of 20 years and the lease deed was executed on 17.04.1996 in Patta Land over an extent of 0.24.29 at Sirugudi Village, Natham Taluk, Dindigul District, Tamil Nadu State.

Later, the lease was transferred to M/s. Sivam Mines., 6/209, Main Road, Sirugudi Post, Natham (Tk), Dindigul District vide G.O.(D) No.174 Industries (MMA1) Department, Dated 05.11.2014.

The commencement of mining in this Lease was in the Year 1996. 'No prior Environmental Clearance (EC) is required for the Major Mineral Mines with <5 Ha Extent' in the context of the MoEF&CC, Office Memorandum (OM) No. J-11013/182/2012-IA-II(M) dated 04.01.2013. However, the existing Mining Lease

  
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requires EC as per Notification SO 141(E) dated 15.01.2016 under EIA Notification 2006.


As per the clarification given by MoEF&CC, 'the mine leases which continue to operate without obtaining EC after 15.01.2016 shall be considered as Violation Cases and the leases which were in operation till 15.01.2016 and stopped production after 15.01.2016 shall be considered for EC.

M/s. Sivam Mines has operated Sirugudi Limestone Mine under GO.325 after 15.01.2016 till 10.01.2017 and produced 150 Tonnes of Limestone during Violation Period of 361 Days. Operating the Lease without EC is in VIOLATION of EIA Notification 2006.

Other than operating the Mine without required EC after 15.01.2016, and one more violation observed that the mine was operated without CTO there. M/s. Sivam Mines received the Demand Notice from the District Collector, Trichy for 100% cost of Mineral value of Limestone quantity produced i.e.150 Tonnes without EC vide Rc. No. 618/2019(Mines) dated 06.08.2019 for Rs.76,000/-. Sivam Mines Not remitted the amount to Department of Geology and Mining.

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

1. The Sub Committee has inspected Limestone Mine belongs to M/s. Sivam Mines covering mining lease vide G.O No. 325 over an extent of 0.24.29 Ha in Sirugudi Village, Natham Taluk, Dindigul District to comprehend the over all mining scenario.
2. As per Amended MMDR Act 2015, validity of the Lease is upto 16.04.2046. Since the validity of lease has been extended under deemed extension as it was informed by the competent authority vide Rc.No. 90IMines/2023. dated: 02.05.2023 and it has been noted that
  - i. The District Collector has not granted 'No Mining Dues Certificate' for the above lease.

  
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- ii. Latest Review of Mining Plan was approved by IBM vide letter no. TN/DGL/LST/ROMP-1584.MDS, dated: 10.01.2020 as the lease is fit for extension of validity.
3. There were no mining activities carried out in the Pit.
4. Fencing has not been made adequately around the existing pit.
5. There are about 30 to 40 houses / habitations are located at a radial distance of 300 m from the lease boundary of the proposed quarry.
6. However, the PP have got Approved Mining Plan from IBM for the Project from time to time without any break with sending the draft copy of the Mining Plan well in advance to the competent authority.
7. Here, the PP have informed that the modified mining plan will be processed for carrying out the limestone quarrying without adopting the drilling & blasting techniques.
8. Besides, a water body/tank is located at a distance of 110 m from the lease boundary and agricultural activities are carried out around the existing pit.
9. The existing pit/proposed quarry working is surrounded by the agricultural work activities to the larger extent due to existence of waterbodies including tank and wells.
10. During Violation Period, it was informed that the mechanised systematic mining activities, wet-drilling and controlled blasting were carried out in the Lease.
11. The waste rocks generated during mining was dumped within the mining lease area.
12. The transportation of mineral was carried out through village road (even during the Violation Period). PP informed there were few habitations then along the road since beginning of mine. Here, the PP informed that the habitations are developed near to road in few areas in recent past.
13. No Green Belt was developed along the periphery of Mine Pits including in Safety Barriers.
14. Garland Drains are provided along the periphery but its maintenance has to be enhanced after the commencement of mining operations.
15. Additional plantation as per the proposals given in EIA shall be developed.



16. No extensive Mineral exploration activities were subsequently carried out by the proponent to prove the existence of Limestone beyond the current Mining Plan depth.
17. No Hydrogeology study was carried out to determine the environmental effects due to limestone mining due to a smaller extent of work at shallow depth.
18. The PP have shown the avenue plantation activities are being currently carried out outside the mine lease along the haul roads leading to the villages.
19. The PP have also shown the Sub-Committee regarding the greenbelt development activities implemented in the past in inactive areas and away from the existing quarry.

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

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

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

#### **MINING PLAN APPROVALS**

The Regional Controller of Mines, Indian Bureau of Mines (IBM), Chennai has accorded its Approval periodically for Mining Plans/Schemes. For recent Review of Mining Plan (ROMP) for the Period 2021-22 to 2025-26 vide Letter No. TN/DGL/LST/ROMP-1652.MDS, Dated: 21.06.2021.

M/s. Sivam Mines has operated Sirugudi Limestone Mine under GO 325 after 15.01.2016 till 10.01.2017 and produced/transported 150 Tonnes of Limestone. Operating the Lease after 15.01.2016 without EC is in Violation of EIA Notification 2006 (as amended). The Violation Period was 361 Days. The mining activities were stopped from 10.01.2017 and there was no production from this Mine since then for want of EC.

#### **PENALTY FOR VIOLATION**

M/s. Sivam Mines has received Demand Notice from the District Collector, Trichy for 100% cost of Mineral value of Limestone quantity of 150 Tonnes produced without EC vide Rc. No. 618/2019(Mines) dated 06.08.2019 for 76,000/-. Sivam Mines Not remitted the amount to Department of Geology and Mining.

  
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## DAMAGE COST CALCULATION

Based on the inspection of the project site and other documents furnished by project proponent, M/s. Sivam Mines, SEAC Sub-Committee recommends the following Estimation made towards the Ecological remediation cost, Natural resources augmentation cost and Community resources augmentation cost under violation category for the concerned Limestone Mine covering mining lease vide G.O.Ms.No. 325 over an extent of 0.24.29 Ha in Sirugudi Village, Natham Taluk, Dindigul District.


Further, the SEAC Sub-Committee opines that the Proposal falls in Low Level Ecological Damage based on the EMP measures were in place during the Violation Period, and it is inferred that the higher Environmental Compensation value has been arrived based on the CPCB Guidelines is Rs. 6,40,000/- which is higher than the other Environmental Compensation estimated values of Rs. 63,500/- based on the revised EIA Model (as proposed by the Proponent) and Rs. 29,148/- arrived on SEAC-TN model. Therefore, the value of Rs. 6,40,000/- shall be compensated for Ecological Remediation, Natural Resource Augmentation and Community Resource Augmentation Plans in accordance with the MoEF & CC Guidelines accordingly.


### **STATUTORY PROCEDURES TO BE FOLLOWED:**

1. The Bank Guarantee for Rs. 6,40,000/- must be given to TNPCB for successful implementation of the Schemes in a period of two years. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. The PP shall produce the No Dues Certificate issued by the Directorate of Geology and Mining to SEAC/SEIAA-TN.
3. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

### **RECOMMENDATIONS**

The SEAC has observed that the Mining of Limestone in an extent of 0.24.29 Ha for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the SEAC has recommended the following conditions to be implemented by the PP and it shall be

  
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ensured by the SEIAA, in case of M/s. Sivam Mines for having carried out the Mining of Limestone in an extent of 0.24.29 Ha (G.O. No. 325) during the violation period:

1. The amount prescribed for Ecological remediation (Rs. 2.00 Lakhs), natural resource augmentation (Rs. 2.30 lakhs) & community resource augmentation (Rs. 2.10 Lakhs), totaling Rs. 6.40 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 6.40 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.

#### ENVIRONMENTAL REMEDIATION PLAN

Env. Component	Remediation Measures for Environmental damage	1st Year (in Rs)	2nd Year (in Rs)	Total (Rs.)
Air Environment	water sprinkler tanker for the local village road	50,000		50,000
Water Environment	Renovation of Rain Water Harvesting Pits		25000	25,000
Land Environment	Renovation of Garland Drains	25000		25,000
Ecological Environment	Avenue Plantation		50000	50,000
Socio economic environment	Solar Lighting Facilities along the village roads	50,000		50,000
Total				2,00,000

  
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## NATURAL RESOURCE AUGMENTATION PLAN

Environmental components	Natural Resource Augmentation	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	Total (Rs.)
Water Environment	Rain water harvesting structures at prominent place in the Sirugudi village	50,000	50,000	1,00,000
Air Environment	Providing trees in three tier system around project area as air barrier		80,000	80,000
Land / Soil Environment	Providing Agricultural needs for 2 families	50,000	-	50,000
<b>TOTAL</b>				<b>2,30,000</b>

## COMMUNITY RESOURCES DEVELOPMENT PLAN

Sl.No	Community Resource Development	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	Total (Rs.)
1	Improving Toilet Facilities at Sirugudi Village Government School with maintenance	1,50,000	-	1,50,000
	Provision of Environmental Related Books	30,000	30,000	60,000
<b>TOTAL</b>				<b>2,10,000</b>

2. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of two years. If not, the bank guarantee will be forfeited to TNPCB without further notice.

  
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3. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.

Further, based on the observation made by the sub-committee, the SEAC had noticed that the project is located in a highly dense populated region, i.e., 40 houses within a radial distance of 300 m but starts at distance of 30 m from the lease boundary which is against the provision of the mining laws. Hence, the SEAC has decided not to recommend further mining operation from such a small lease area including the adoption of non-explosive techniques for environment sustainability considering the existence of agricultural activities around (Location Sensitivity).

However, the SEIAA may be requested to instruct the PP to complete the other legal requirements pertaining to the violation aspects and to furnish a final closure plan for closing the existing mine legally.

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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.



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

14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
15. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
16. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
17. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
18. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
19. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
20. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
21. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory

obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

22. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

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

  
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### ROUGH STONE/JELLY/BLUE METAL QUARRY

- 1) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 2) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 3) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 4) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry including all the contractual employees/truck drivers shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy / Salem / Hosur.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) The proponent shall install the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
- 8) The Proponent shall submit a conceptual 'Slope Stability Action Plan' incorporating the benches & accessible haul road approved by the concerned

AD (Mines) for the proposed quarry to the DEE/TNPCB at the time of obtaining the CTO.

- 9) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are undergoing the initial/periodical medical examination in the DGMS approved OHS Clinics/Hospitals as per the DGMS Circular No. 01 of 2011 before they are engaged in mining activities.
- 10) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are provided with adequate PPEs before engaged in mining operations.
- 11) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 12) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 13) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 14) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 15) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 16) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 17) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.

- 18) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 19) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 20) Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
- 21) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 22) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 23) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.

- 24) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 25) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 26) The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 27) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.
- 28) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 29) The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent

shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.

- 32) To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 33) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 36) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 37) All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 38) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole



and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

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

40) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.


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

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

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

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

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

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


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


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

  
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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.

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



- the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
34. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
  35. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
  36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
  37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
  38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
  39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
  40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
  41. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site

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

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

  
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## Annexure II

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

#### 1. Statutory Compliance:

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

9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.

10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

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

1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.

2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.

3. The project proponent shall install a system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM25) covering upwind and downwind directions during the construction period.

4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.

5. Sand, murrum, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.

6. Wet jet shall be provided for grinding and stone cutting.

7. Unpaved surfaces and loose soil should be adequately sprinkled with water to suppress dust.

8. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly

disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.

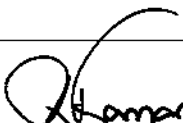
9. The diesel generator sets to be used during construction phase shall be low Sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.
10. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
11. For indoor air quality the ventilation provisions as per National Building Code of India.

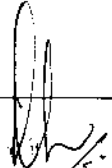
### 3. Water Quality Monitoring and Preservation:

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

- specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
6. At least 20% of the open spaces as required by the local building byelaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
  7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation car washing, thermal cooling, conditioning etc. shall be done.
  8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
  9. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
  10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
  11. The local bye-law provisions on rainwater harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rainwater harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
  12. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total freshwater requirement shall be provided. In areas where ground water recharging is not feasible, the rainwater should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
  13. All recharges should be limited to shallow aquifer.
  14. No ground water shall be used during construction phase of the project.

15. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
16. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).
17. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, not related water shall be disposed into municipal drain.
18. No sewage or untreated effluent water would be discharged through storm water drains.
19. Onsite sewage treatment of capacity of treating 100% wastewater to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated wastewater shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be taken to mitigate the odor problem from STP.
21. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Centre Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

  
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#### 4. Noise Monitoring and Prevention:

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

#### 5. Energy Conservation Measures:

1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
2. Outdoor and common area lighting shall be LED.
3. The proponent shall provide solar panels covering a minimum of 50% of terrace area as committed.
4. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
5. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.

  
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6. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building byelaws requirement, whichever is higher.

7. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building byelaws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

**6. Waste Management:**

1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.

2. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

3. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.

4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.

5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.

6. Any hazardous waste generated during construction phase shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.

7. Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction

  
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material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.

8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September 1999 and amended from time to time. Ready mixed concrete must be used in building construction.
9. Any wastes from construction and demolition activities related thereto shall be managed to strictly conform to the Construction and Demolition Rules, 2016.
10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

**7. Green Cover:**

1. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
2. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
3. Where the trees need to be cut with prior permission from the concerned local authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
4. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled

appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

5. A wide range of indigenous plant species should be planted as given in the Appendix-I, in consultation with the Government Forest/Horticulture Departments and State Agriculture University.

**8. Transport:**

1. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
  - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
  - b. Traffic calming measures.
  - c. Proper design of entry and exit points.
  - d. Parking norms as per local regulation.
2. Vehicles hired to bring construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
3. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of

  
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components of the plan which involve the participation of these departments.

**9. Human Health Issues:**

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

**10. Corporate Environment Responsibility:**

1. The PP shall complete the CER activities, as committed, before obtaining CTE.
2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be

submitted to the MoEF&CC as a part of Half Yearly Compliance Report (HYCR).

3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Half Yearly Compliance Report (HYCR).

**11. Miscellaneous:**

1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in Tamil language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.
3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4. The project proponent shall submit Half Yearly Compliance Reports (HYCR) on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

6. The project proponent shall inform the Authority (SEIAA) of the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
7. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
8. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also during their presentation to the State Expert Appraisal Committee.
9. No further expansion or modifications to the plant shall be carried out without prior approval of the Authority (SEIAA).
10. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11. The Authority (SEIAA) may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. The Authority reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.
13. The Regional Office of the MoEF&CC Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
14. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

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

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

40	<i>Premna mollissima</i>	Munnai	முள்ளை
41	<i>Premna serratifolia</i>	Narumunnai	நறு முள்ளை
42	<i>Premna tomentosa</i>	Malaijoovarasu	மலை பூஞ்சை
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	பூவை
47	<i>Puthranjiva roxburghii</i>	Karipala	கரிபாலா
48	<i>Salvadora persica</i>	Ugaa Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புகள் சோபுகாய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாள் கெட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாந்தி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேளி மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தா வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூஞ்சை
59	<i>Walsuratrifoliata</i>	valsura	வால்குரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்பளி

  
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