

## State Expert Appraisal Committee (SEAC)

Minutes of 445<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 15.02.2024 (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 444<sup>th</sup> SEAC meeting held on 09.02.2024 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 445 -01

(File No.9196/2022)

Proposed Rough Stone and Gravel quarry lease over an extent of 1.00.5 Ha (Patta land) in S.F.Nos. 360/1A5 & 360/1A6 of Arasampalayam Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Thiru. M. Viswanathan - For Environmental Clearance. (SIA/TN/MIN/456766/2023 dated:26.12.2023)

The proposal was placed for appraisal in the 445<sup>th</sup> Meeting of SEAC held on 15.02.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

### The SEAC noted the following:

1. The project proponent, Thiru. M. Viswanathan has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease over an extent of 1.00.5 Ha (Patta land) in S.F.Nos. 360/1A5 & 360/1A6 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. It is an existing quarry which was previously operated by Thiru. M. Sivasamy during the period 2015 – 2020. EC was issued to the Proponent Thiru. M. Sivasamy vide Lr.No.SEIAA-TN /F.No.2526/EC/1(a)/1901/ 2014 dated:30.03.2015.
4. Now, the proponent Thiru.M.Viswanathan submitted an application for Environmental Clearance for quarrying in the same area.

  
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5. ToR was issued to the project proponent, Thiru.M.Viswanathan vide Lr.No.SEIAA-TN/F.No.9196/SEAC/ToR/1224/2022, Dated:18.08.2022. as the proposal falls under 'B1' category.
6. Public hearing was conducted on 07.02.2023.
7. Baseline monitoring period March – May 2021.
8. EIA Report submitted in the PARIVESH Portal on 26.12.2023.
9. It was found that the proponent, Thiru.M.Viswanathan passed away on 24.05.2023.
10. Subsequently, the Revenue Divisional Officer vide his letter dated.02.11.2023 has transferred the quarrying permissions in the name of Tmt. Revathy, wife and legal heir of Late. Thiru.M.Viswanathan.

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

- i) The proposed area is a Patta Land and the Patta for the S.F.Nos.360/1A6 is in the name of Thiru. M. Sivasamy. Hence, the proponent is requested to furnish the registered lease deed in the name of PP.

On receipt of the same, further deliberations shall be done. Hence, the proponent is advised to submit the details within a period of 30 days failing which the proposal will be automatically delisted from the PARIVESH Portal.

**Agenda No: 445- 02**

**(File No: 8658/2021)**

**Proposed Rough Stone & Gravel quarry lease over an extent of 0.50.58Ha at SF.No. 525/2(P) of Tharuvai Village, Palayamkottai Taluk, Tirunelveli District, Tamil Nadu by Thiru.V.Sivasubbu - For Environmental Clearance.**

**(SIA/TN/MIN/456341/2023, Dated: 22.12.2023)**

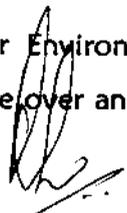
The proposal was placed in 445<sup>th</sup> meeting of SEAC held on 15.02.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru. V. Sivasubbu has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent

  
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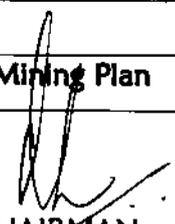
of 0.50.58Ha at SF.No.525/2(P) of Tharuvai Village, Palayamkottai Taluk, Tirunelveli District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

<b>File No</b>	<b>8658/2021</b> <b>SIA/TN/MIN/456341/2023,</b> <b>Dated:22.12.2023</b>	<b>Category</b>	<b>B1</b>
<b>Sl. No</b>	<b>Salient Features of the Proposal</b>		
1.	Name of the Owner/Firm	:	Thiru.V.Sivasubbu S/o.Velu No.B4C, NGO Colony, Jawahar Nagar Palayamkottai Tirunelveli District-627011
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	:	525/2(P)
4.	Village in which situated	:	Tharuvai
5.	Taluk in which situated	:	Palayamkottai
6.	District in which situated	:	Tirunelveli
7.	Extent of quarry (in ha.)	:	0.50.58Ha
8.	Latitude & Longitude of all corners of the quarry site	:	08°38' 36.78"N to 08°38'40.47"N 77°40'46.12"E to 77°40'50.76"E
9.	Topo Sheet No.	:	58 H/15
10.	Type of mining	:	Opencast Semi mechanized mining
11.	Life of Project	:	5 years
	Lease Period	:	5 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	<b>As per approved Mining Plan</b>

  
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		Rough Stone	Gravel
	Geological Resources m <sup>3</sup>	: 1,17,760m <sup>3</sup>	17,664m <sup>3</sup>
	Minable Resources m <sup>3</sup>	: 18,250m <sup>3</sup>	10,080m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	: 3,780m <sup>3</sup>	1,890m <sup>3</sup>
	Maximum Depth in meters	: 13m BGL	
13.	Depth of water table	: 50m BGL in summer season – 55m BGL in rainy season	
14.	Man Power requirement per day	: 7 Employees	
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	: 1.5 KLD 0.5 KLD 0.5 KLD 0.5 KLD	
16.	Power requirement	: TNEB 16,280Liters of HSD will be utilized for entire project life.	
17.	Precise area communication approved by the Joint Director/Assistant Director(i/c), Department of G&M.	: Rc.No.M1/19947/2014, Dated:11.01.2021.	
18.	Mining Plan approved by Joint Director/Assistant Director(i/c), Department of G&M.	: Rc.No.M1/19947/2014, Dated:18.01.2021.	
19.	500m Cluster Letter approved by Joint Director /Assistant Director(i/c), Department of G&M,	: Rc.No.M1/19947/2014, Dated:18.01.2021.	
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Dated:08.03.2021.	
21.	Project Cost (excluding EMP cost)	: Rs.10,35,080/-	

  
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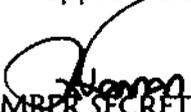
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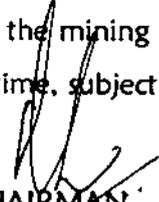
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
		:	Max Total in m <sup>3</sup>	18,250m <sup>3</sup>	10,080m <sup>3</sup>
		:	Annual Max in m <sup>3</sup>	3,780m <sup>3</sup>	1,890m <sup>3</sup>
:	Max Depth in mtrs	13m BGL			
23.	EMP cost (in Rs. Lakh).	:	Rs.20,68,885		
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs		
25.	EIA report submitted on	:	Dated:26.12.2023		
26.	ToR details	:	Lr.No.SEIAA-TN/F.No.8658/SEAC/ToR-1076/2021,Dated:01.03.2022.		
27.	Public hearing details	:	Public hearing conducted on Dated:11.10.2023.		

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 **3,780m<sup>3</sup> of Rough stone and 1,890m<sup>3</sup> of Gravel** by maintaining the ultimate depth of mining up to **13m BGL** and subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a

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

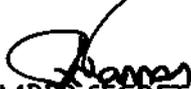
2. The PP shall appoint a First Class/Second Class Mine Manager for managing the quarrying operations before the execution of lease and a copy of the appointment shall be sent to the Director of Mines Safety, Chennai Region along with Notice of Opening of the Mine under the provisions of MMR 1961.
3. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
4. Since the structures are situated within a radial distance of 500 m, the PP along with other existing quarry proponents shall carry out the scientific studies within a period of six months from the commencement of quarrying operations after obtaining prior permission from the DMS, DGMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the in the cluster of quarries, by involving anyone of these reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
5. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
6. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of

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

7. As a part of monitoring the implementation of eco-friendly blasting operation due to the existence of structures within 300m, the PP shall monitor the blast-induced ground & air vibration (noise) once in a week by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 250m, 500m, 750 m through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
8. For the environmental point of view, the PP shall design and furnish a Standard Operating Procedure for the regulation of transportation and traffic volume in the cluster situation to the concerned AD (Mines) at the time of lease execution. A copy of such report shall be submitted within commencement of six months from the execution of lease to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance without any deviation.
9. The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
10. The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
11. As a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras - Centre for Environmental Studies, and Anna University Chennai-Dept

  
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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.

12. Considering the cluster of quarries are located, the PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
13. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Primary School, Tharuvai before obtaining CTO from TNPCB.

**Agenda No: 445- 03**

**(File No: 9050/2022)**

**Proposed Rough Stone & Gravel quarry lease over an extent of 2.57.0Ha at SF.Nos. 843/1, 843/2, 844/1 (P), 844/2 (P) & 844/3 of Nadanthai (North) Village, Aravakurichi Taluk, Karur District, Tamil Nadu by Thiru.G.Prabakar - For Environmental Clearance. (SIA/TN/MIN/454166/2023, Dated: 04.12.2023).**

The proposal was placed in 445<sup>th</sup> meeting of SEAC held on 15.02.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru. G. Prabakar has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 2.57.0Ha at SF. Nos. 843/1, 843/2, 844/1 (P), 844/2 (P) & 844/3 of Nadanthai (North) Village, Aravakurichi Taluk, Karur 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. Earlier EC Issued Vide Lr.No.SEIAA-TN/F.No.3697/EC/1(a)/2710/2015 dated:08.01.2016.

Based on the presentation and details furnished by the project proponent, **SEAC decided to defer and call for additional particulars as follows,**

  
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1. The PP shall submit Certified Compliance Report obtained from the office of the IRO, MoEF & CC, Chennai and the PP shall furnish appropriate mitigating measures for the non-compliance items, if any.

On receipt of the same, further deliberations shall be done. Hence, the proponent is advised to submit the details within a period of 30 days failing which the proposal will be automatically delisted from the PARIVESH Portal.

**Agenda No: 445-04**

**(File No: 8827/2021)**

**Proposed Rough Stone quarry over an extent of 2.57.0 Ha at S.F.Nos. 589/1C (Part) & 589/1D of Lembalakudi Village, Thirumayam Taluk, Pudukkottai District, Tamil Nadu by Tmt. R. Rethinam - For Environmental Clearance.**

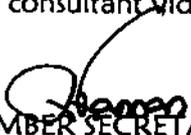
**(SIA/TN/MIN/444141/2023, Dated: 27.11.2023)**

The proposal was placed for appraisal in this 445<sup>th</sup> meeting of SEAC held on 15.02.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

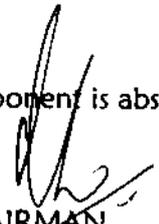
**The SEAC noted the following:**

1. The project proponent, Tmt. R. Rethinam has applied for Environmental Clearance for the Proposed Rough Stone quarry over an extent of 2.57.0 Ha at S.F.Nos. 589/1C (Part) & 589/1D of Lembalakudi Village, Thirumayam Taluk, Pudukkottai 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. The precise area communication was issued for the period of 5 years. The approved mining plan is for 5 years. As per the approved mine plan, the annual peak production shall not exceed 49,377 m<sup>3</sup> of Rough Stone for an ultimate depth of 47m below ground level.
4. ToR along with Public Hearing issued vide Lr No. SEIAA-TN/F.No.8827/SEAC/ToR-1099/2021 Dated:21.03.2022.
5. Public hearing conducted on 23.03.2023.
6. EIA Report submitted on 30.11.2023.

The consultant vide email dated 14.02.2024 has informed that the proponent is absent

  
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for the presentation/appraisal for this SEAC meeting since the Proponent is in process of obtaining Certified Compliance Report from the Concern Authority. Hence the SEAC decided to defer the proposal.

**Agenda No: 445-05**

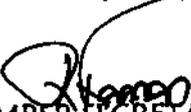
**(File No: 9016/2022)**

**Proposed Rough Stone and Gravel quarry over an extent of 3.86.0 Ha at S.F.Nos. 452/2, 452/3A, 452/3B and 452/4 of Melathattapparai Village, Thoothukudi Taluk, Thoothukudi District, Tamil Nadu by Thiru. P. Ananthakumar - For Environmental Clearance. (SIA/TN/MIN/452648/2023, Dated: 18.11.2023)**

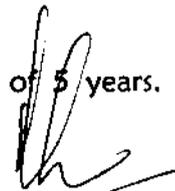
The proposal was placed for appraisal in this 445<sup>th</sup> meeting of SEAC held on 15.02.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Thiru. P. Ananthakumar has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry over an extent of 3.86.0 Ha at S.F.Nos. 452/2, 452/3A, 452/3B and 452/4 of Melathattapparai Village, Thoothukudi Taluk, Thoothukudi 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. The owner of the land is Tmt. P. Poopiratti and previously EC was issued to Thiru. P. Ponraj who is the son of land owner. Now, the land owner has given power of attorney to the proponent Thiru. P. Ananthakumar who is also the son of land owner. Hence, the proponent has got surface rights to over the applied area.
4. Earlier, EC was accorded to the ex-proponent Thiru. P. Ponraj vide Lr. No.SEIAA-TN/F.No.2882/1(a)/EC.No:3314/2016 dated: 15.07.2016 for the Rough Stone and Gravel quarry over an extent of 2.58.5 Ha at S.F.Nos. 452/2 and 452/4 of Mela Thattapparai Village, Thoothukudi Taluk, Thoothukudi District, Tamil Nadu, for the production quantity of 22,680 m<sup>3</sup> of Rough Stone and 8505 m<sup>3</sup> of Gravel upto the depth of 6m.
5. The precise area communication was issued for the period of 5 years. The

  
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- approved mining plan is for 5 years. As per the approved mine plan, the annual peak production shall not exceed 1,83,809 m<sup>3</sup> of Rough Stone (2<sup>nd</sup> year) and 5456 m<sup>3</sup> of Gravel (1<sup>st</sup> year) for an ultimate depth of 45m below ground level.
6. ToR along with Public Hearing issued vide Lr No. SEIAA-TN/F.No.9016/SEAC/ToR-1159/2022 Dated: 06.06.2022.
  7. Public hearing conducted on 12.09.2023.
  8. EIA Report submitted on 27.11.2023.

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

1. The owner of the land is Tmt. P. Poopiratti and previously EC was issued to Thiru. P. Ponraj who is the son of land owner. Now, the land owner has given power of attorney to the proponent Thiru. P. Ananthakumar who is also the son of land owner. Hence, the proponent has got surface rights to over the applied area. Since the Land owner and the project proponent for the previous EC and present proposal for EC are from same family, the PP shall obtain Certified Compliance Report (CCR) from Integrated Regional Office, MoEF&CC, Chennai for the earlier Environmental Clearance obtained from SEIAA-TN.

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

**Agenda No: 445-06**

**(File No: 8360/2023)**

**Proposed Multi Colour Granite quarry lease area over an extent of 2.00.5 Ha at S.F. 90/1(Part), 90/2(Part) of Devannagoundanur Village, Sankari Taluk, Salem District, Tamil Nadu by Thiru.P.Jayaraj -For Environmental Clearance.**

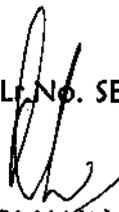
**(SIA/TN/MIN/456617/2023, Dated: 25.12.2023).**

The proposal was placed for appraisal in the 445<sup>th</sup> meeting SEAC held on 15.02.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). **The SEAC noted the following:**

1. Earlier, the project proponent has obtained EC from SEIAA vide Lr No. SEIAA-

  
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TNF.No.3362/EC/1(a)/2170/2014 dated: 01.04.2015 for the Proposed Multi Colour Granite quarry lease area over an extent of 2.00.5 Ha at S.F. 90/1(Part), 90/2(Part) of Devannagoundanur Village, Sankari Taluk, Salem District, Tamil Nadu for the period of 5 years for the quantity of 2713 cbm of Granite upto a depth of 17m.

2. Certified Compliance Report (CCR) obtained from IRO(SZ); MoEF&CC vide Lr. EP/12.1/2022-23/SEIAA/177/TN/1395 Dt:22.12.2022.
3. The project proponent, Thiru.P.Jayaraj has applied for Environmental Clearance for the Proposed Multi Colour Granite quarry lease area over an extent of 2.00.5 Ha at S.F. 90/1(Part), 90/2(Part) of Devannagoundanur Village, Sankari Taluk, Salem District, Tamil Nadu.
4. The project/activity is covered under category "B1" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
5. ToR along with Public Hearing issued vide Lr No. SEIAA-TN/F.No.8360/SEAC/ToR- 1315/2022 Dated:21.12.2022.
6. Public hearing conducted on 12.10.2023.
7. EIA Report submitted on 03.01.2024.

During the meeting, the SEAC noted the following.

S. No	Description	As per earlier EC issued	Parameters Achieved as per the CCR and approved Mining Plan
1.	Quantity	2371 m <sup>3</sup> of Multi Colour Granite	1809.342 m <sup>3</sup> of Multi Colour Granite
2.	Depth	17m BGL	21m BGL

Based on the presentation and documents furnished by the PP, committee noted the that the Proponent had achieved a depth of 21m for the period from 2015-16 to 2019-2020 in the above subject area as against EC approved depth of 17m. Hence, based on the above, Committee decided to treat the case as violation.

The Committee further noted the following.

- The Ministry issued a Standard Operating Procedure dated 7<sup>th</sup> July 2021 bearing the file no. 22-21/2020-IA.III, for identification and handling of violation cases

  
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under EIA Notification 2006 in compliance to order of the Hon'ble National Green Tribunal in Appeal No. 34/2020 (WZ) titled Tanaji B. Gambhire Vs Chief Secretary, Government of Maharashtra.

- This SOP was challenged in the Madurai Bench of the Hon'ble High Court of Madras in the matter W.P.(MD) No. 11757 of 2021 titled Fatima Vs Union of India and was interim stayed vide order dated 15<sup>th</sup> July 2021.
- However, The Hon'ble Supreme Court in W.P.(C) No.1394/2023 titled Vanashakti vs. Union of India, has stayed the operation of both the Office Memoranda dated:7<sup>th</sup> July 2021 and dated 28<sup>th</sup> January 2022 issued by the Ministry on 02.01.2024.

Therefore, the Committee decided to defer this proposal as the SoP issued by the MOEF&CC for considering violation cases is under stay by the Hon'ble Madurai Bench of Madras High Court and by the Hon'ble Supreme Court.

**Agenda No: 445-07**

**(File No: 8549/2023)**

**Proposed Rough Stone & Gravel Quarry over an extent of 2.00.0 Ha at S.F.No.442(Part) of Keeranur Village, Kangayam Taluk, Tiruppur District, Tamil Nadu by Thiru.P.Sasikumar- For Environmental Clearance.**

**(SIA/TN/MIN/453987/2023 Dt.01.12.2023).**

The proposal was placed in the 445<sup>th</sup> SEAC Meeting held on 15.02.2024. The project proponent gave a detailed presentation. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

**The SEAC noted the following:**

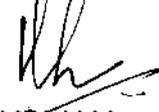
1. The Project Proponent, Thiru.P.Sasikumar has applied for Environmental Clearance for the Proposed Rough Stone & Gravel Quarry over an extent of 2.00.0 Ha in SF.No. 442(Part), Keeranur Village, Kangeyam Taluk, Tiruppur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. The salient features of the proposal are as follows:

  
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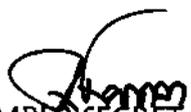
  
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File No	8549/ 2020	Category	B1 / 1(a)		
Sl. No	Salient Features of the Proposal				
1	Name of the Owner/Firm	:	Thiru.P.Sasikumar S/o.Palanisamy, No.5/257, Keeranur Village, Kangayam Taluk, Tiruppur -638701.		
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone & Gravel Quarry		
3	S.F Nos. of the quarry site with area break-up	:	442(Part)		
4	Village in which situated	:	Keeranur		
5	Taluk in which situated	:	Kangayam		
6	District in which situated	:	Tiruppur		
7	Extent of quarry (in ha.)	:	2.00.0 ha		
8	Latitude & Longitude of all corners of the quarry site	:	11°04'52.40"N to 11°04'57.75"N 77°33'27.41"E to 77°33'33.38"E		
9	Topo Sheet No.	:	58 – E/12		
10	Type of mining	:	Opencast Mechanized Mining		
11	Life of Project	:	10 years		
	Lease Period	:	10 years		
	Mining Plan Period	:	10 years		
12	Mining Plan Details	:	As per approved Mining Plan		
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel	As modified by SEAC
		:	7,98,080 m <sup>3</sup>	39,904 m <sup>3</sup>	Rough Stone 7,98,080 m <sup>3</sup> Gravel 39,904 m <sup>3</sup>

  
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	Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
			2,87,800 m <sup>3</sup>	30,888 m <sup>3</sup>	2,87,800 m <sup>3</sup>	30,888 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone	Gravel	Rough Stone	Gravel
			31,025 m <sup>3</sup>	15,642 m <sup>3</sup>	31,025 m <sup>3</sup>	15,642 m <sup>3</sup>
	Ultimate Depth in meters	:	42m			
13	Depth of water table	:	62m-58m BGL			
14	Man Power requirement per day:	:	24 Nos.			
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	4.3KLD 0.8 KLD 2.0 KLD 1.5 KLD			
16	Power requirement	:	TNEB 235390 liters of HSD			
17	Precise area communication approved by District Collector	:	Rc.No.1475/Mines/2020, Dated: 23.02.2021.			
18	Mining Plan approved by Joint Director / Assistant Director (i/c), Department of G&M	:	Rc.No.1475/Mines/2020, Dated: 26.02.2021.			
19	Department of G&M, Joint Director / Assistant Director (i/c) 500m Cluster Letter	:	Rc.No.1475/Mines/2020, Dated: 26.02.2021			
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated: 19.04.2021			

  
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21	Project Cost (excluding EMP cost)	:	Rs. 3,29,81,478/-		
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
		:	Max Total RoM in m <sup>3</sup>	2,87,80 Om <sup>3</sup>	30,888 m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>	31,025 m <sup>3</sup>	15,642 m <sup>3</sup>
:	Max Depth in mtrs	42m			
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 33.52 Lakhs Recurring Cost – Rs.3.44 Lakhs		
24	CER cost (in Rs. Lakh).	:	Rs. 5.0 Lakhs		
25.	Tor Issued		Lr.No.SEIAA-TN/F.No.8549/ToR-1139/2020 Dated: 08.04.2022.		
26.	Public Hearing		21.07.2023		
27.	EIA Report Submitted		11.12.2023		

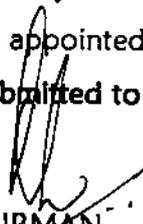
Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 31,025 m<sup>3</sup> of Rough Stone and 15,642 m<sup>3</sup> of Gravel by maintaining the depth of mining up to 42m and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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

- 2) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before obtaining the CTO from the DEE/TNPCB.
- 3) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 4) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 5) The Tipper Lorries shall be covered completely after loading the rough stone as committed by the Proponent.
- 6) The PP shall carry out the scientific studies **within a period of six months** from the commencement of quarrying operations after obtaining necessary permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the cluster of quarries located, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 7) As a part of monitoring the implementation of eco-friendly blasting operation, the PPs in the cluster shall regularly monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m (or) at any sensitive structures periodically once in a week through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the

  
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- AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.**
- 6) Considering the influence of the Cluster of quarries in operation in the hilly terrain, the PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' to be adopted in the cluster in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 7) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4<sup>th</sup> year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 8) **Since the waterbodies are situated nearby,** the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of two years from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Dept of Geology, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

  
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- 9) The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
- 10) The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
- 11) Considering the cluster of quarries are located, the PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
- 12) As accepted by the Project Proponent the CER cost is **Rs. 5 Lakhs** and the amount shall be spent towards Government High School, Keeranur for the activities as committed before obtaining CTO from TNPCB.

**Agenda No: 445-08**

**(File No:8780/2023)**

**Proposed Rough stone & Gravel quarry lease over an extent of 4.97.0 Ha at S.F.No. 46 of Kuttapalayam Village, Kangayam Taluk, Tiruppur District, Tamil Nadu by Tvl. R.P.P. Blue Metals - For Environmental Clearance.**

**(SIA/TN/MIN/454921/2023, Dated: 09.12.2023).**

The proposal was placed for appraisal in the 445<sup>th</sup> meeting of SEAC held on 15.02.2024. During the meeting, the Proponent has requested for additional time to produce Certified Compliance Report for the earlier EC issued. Hence, the subject was not taken up for discussion.

**Agenda No: 445-09**

**(File No: 8787/2021)**

**Proposed Rough Stone quarry lease area over an extent of 1.20.0 Ha at S.F.Nos.569/1 (Part-4) of Nadumandalam Village, Natham Taluk, Dindigul District, Tamil Nadu by Thiru. A.Govindarajan- For Environmental Clearance.**

**(SIA/TN/MIN/453098/2023, Dated: 23.11.2023).**

  
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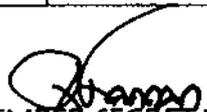
  
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The proposal was placed for appraisal in the 445<sup>th</sup> meeting of SEAC held on 15.02.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

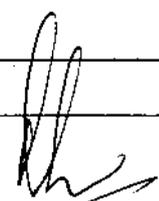
**The SEAC noted the following:**

1. The project proponent, Thiru. A.Govindarajan has applied for Environmental Clearance for the Proposed Rough Stone quarry lease area over an extent of 1.20.0 Ha at S.F.Nos.569/1 (Part-4) of Nadumandalam Village, Natham 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.
3. The lease area of SF. No. 569/1 (Part-4) was previously granted for quarrying rough stone, over an extend of 1.20.0hect in favour of Mr. A. Lakshmiopathi, Proceedings Vide Roc.No.578/2007 (Mines, dated 23.07.2007 and the lease was executed on 23.07.2007 for 5years upto 22.07.2012.
4. The salient features of the proposal are as follows:

File No	8787 / 2021	Category	B1 / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Thiru.A.Govindarajan S/o.Amirthalingadoss, No.6, Manmalai Kovil Street, K.Pudur , Madurai District-625 007.
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone Quarry
3	S.F Nos. of the quarry site with area break-up	:	569/1(Part-4)
4	Village in which situated	:	Nadumandalam
5	Taluk in which situated	:	Natham
6	District in which situated	:	Dindigul

  
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7	Extent of quarry (in ha.)	:	1.20.0 Ha	
8	Latitude & Longitude of all corners of the quarry site	:	10°14'34.88"N to 10°14'41.04"N 78°14'20.33"E to 78°14'23.92"E	
9	Topo Sheet No.	:	58 - J/04	
10	Type of mining	:	Opencast Mechanized Mining	
11	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
12	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone 2,77,070 m <sup>3</sup>	Rough Stone 2,77,070 m <sup>3</sup>
	Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone 1,05,820 m <sup>3</sup>	Rough Stone 1,05,820 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone 23,235 m <sup>3</sup>	Rough Stone 23,235 m <sup>3</sup>
	Ultimate Depth in meters	:	35m (10m AGL + 25m BGL)	
13	Depth of water table	:	50m-55m BGL	
14	Man Power requirement per day:	:	20 Nos.	
15	Water requirement:		3.3 KLD	
	1. Drinking water		1.0 KLD	
	2. Utilized water	:	1.5 KLD	
	3. Dust suppression		0.8 KLD	
	4. Green belt			
16	Power requirement	:	4,47,969 Liters of HSD	

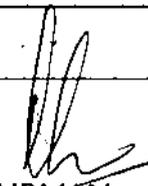
  
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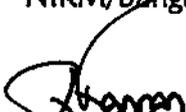
17	Precise area communication approved by District Collector	:	Na Ka No.112/ 2021(Kanimam) Dated: 06.05.2021	
18	Mining Plan approved by Joint Director / Assistant Director (i/c), Department of G&M	:	Roc.No.112/2021(Mines): Dated: 12.07.2021	
19	Department of G&M, Joint Director / Assistant Director (i/c) 500m Cluster Letter	:	Roc.No.112/2021(Mines): Dated: 16.07.2021	
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter furnished	
21	Project Cost (excluding EMP cost)	:	Rs. 1,85,48,800/-	
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:		Rough Stone
		:	Max Total RoM in m <sup>3</sup>	1,05,820 m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>	23,235 m <sup>3</sup>
:	Max Depth in mtrs	35m (10m AGL + 25m BGL)		
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 25.45 Lakhs Recurring Cost – Rs.3.03 Lakhs	
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-	
25.	Tor Issued	:	Lr.No.SEIAA-TN/F.No.8787/TOR-1151/2021 Dated 23.05.2022	
26.	Public Hearing	:	04.10.2023	
27.	EIA Report Submitted	:	11.12.2023	

  
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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 23,235 m<sup>3</sup> of Rough Stone by maintaining the depth of mining upto 35m (10m AGL + 25m BGL) and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
- 3) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 4) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 5) The PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations after obtaining necessary permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the cluster of quarries located, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna

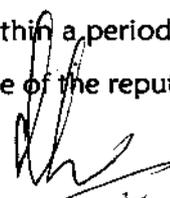
  
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University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 6) As a part of monitoring the implementation of eco-friendly blasting operation, the PPs in the cluster shall regularly monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m (or) at any sensitive structures periodically once in a week through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 7) Considering the influence of the Cluster of quarries in operation in the hilly terrain, the PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' to be adopted in the cluster in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 8) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4<sup>th</sup> year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 9) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of two years from the date of lease execution, by involving any one of the reputed

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

- 10) The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
- 11) The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
- 12) Considering the cluster of quarries are located, the PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
- 13) As accepted by the Project Proponent the CER cost is Rs. 5 Lakhs and the amount shall be spent towards Panchayat Union Primary School, Velampatti Village for the activities as committed before obtaining CTO from TNPCB.

**Agenda No: 445-10**

**(File No:8801/2023)**

**Proposed Rough Stone quarry lease area over an extent of 2.30.0 Ha at S.F.Nos. 270(Part-1) of Venkatesapuram Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. V. Sekar - For Environmental Clearance.**

**(SIA/TN/MIN/456273/2023, Dated: 21.12.2023)**

The proposal was placed for appraisal in the 445<sup>th</sup> meeting SEAC held on 15.02.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

  
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**The SEAC noted the following:**

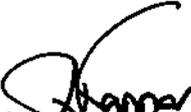
1. Earlier, the project proponent has obtained EC from SEIAA vide Lr.No. SEIAA-TNF.No.5355/EC/1(a)/3269/2016 dated: 09.07.2016 for the Proposed Rough Stone quarry lease area over an extent of 2.30.0 Ha at S.F.Nos. 270(Part-1) of Venkatesapuram Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu for the period of 5 years for the quantity of 125072 cbm of Rough Stone upto a depth of 42m.
2. Certified Compliance Report (CCR) obtained from IRO(SZ); MoEF&CC vide Lr. EP/12.1/2022-23/SEIAA/148/TN/1187 Dt:14.11.2022.
3. The project proponent, Thiru. V. Sekar has applied for Environmental Clearance for the Proposed Rough Stone quarry lease area over an extent of 2.30.0 Ha at S.F.Nos. 270(Part-1) of Venkatesapuram Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
4. The project/activity is covered under category "B1" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
5. The salient features of the proposal are as follows:

File No	8801/ 2023	Category	B1 / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Thiru.V.Sekar S/o.Venkatesappa D.No.4/165/B, Karukondahalli, Bataramangalam Post Denkanikottai Taluk Krishnagiri District-635113.
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone
3	S.F Nos. of the quarry site with area break-up	:	270(Part-1)
4	Village in which situated	:	Venkatesapuram

  
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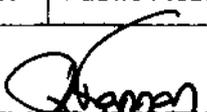
  
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5	Taluk in which situated	:	Shoolagiri	
6	District in which situated	:	Krishnagiri	
7	Extent of quarry (in ha.)	:	2.30.0 Ha	
8	Latitude & Longitude of all corners of the quarry site	:	12°43'58.7014"N to 12°44'3.1722"N 77°56'12.8213"E to 77°56'8.3746"E	
9	Topo Sheet No.	:	57 H/14	
10	Type of mining	:	Opencast Mechanized Mining	
11	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
12	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone 8,08,575 m <sup>3</sup>	Rough Stone 8,08,575m <sup>3</sup>
	Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone 2,75,300 m <sup>3</sup>	Rough Stone 2,75,300 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone 74,185 m <sup>3</sup>	Rough Stone 74,185 m <sup>3</sup>
	Ultimate Depth in meters	:	47m (10m AGL +37m BGL)	
	13	Depth of water table	:	70m BGL
14	Man Power requirement per day:	:	14 Nos.	
15	Water requirement:	:	1.5 KLD	
	1. Drinking water	:	0.5 KLD	
	2. Utilized water	:	0.5 KLD	
	3. Dust suppression	:	0.5 KLD	
	4. Green belt	:		
16	Power requirement	:	500 Liters of HSD / day	

  
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17	Precise area communication approved by District Collector	:	Roc.No.81/2016/Mines-2, dated:25.04.2016	
18	Mining Plan approved by Joint Director / Assistant Director (i/c), Department of G&M	:	Roc.No.668/2021/Mines, dated:23.04.2021	
19	Department of G&M, Joint Director / Assistant Director (i/c) 500m Cluster Letter	:	Roc.No.668/2021/Mines, dated:23.04.2021	
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated:10.08.2021	
21	Project Cost (excluding EMP cost)	:	Rs. 1,37,90,000/-	
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:		Rough Stone
		:	Max Total RoM in m <sup>3</sup>	275300 m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>	74185 m <sup>3</sup>
:	Max Depth in mtrs	47 m (10m above ground level + 37m below ground level)		
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs.13,96,000/- Recurring Cost – Rs.7,45,600/-	
24	CER cost (in Rs. Lakh).	:	Rs.5,00,000/-	
25.	Tor Issued	:	Lr No. SEIAA-TN/F.No.8801/SEAC/ TOR-1324/2023 Dated:09.02.2023.	
26.	Public Hearing	:	22.09.2023	

  
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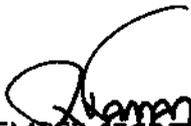
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27.	EIA Report Submitted	22.12.2023
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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 74,185 m<sup>3</sup> of Rough Stone by maintaining the depth of mining upto 47 m (10m above ground level + 37m 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) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
- 3) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 4) The PP shall revise the Plan X-Y & C-D to maintain a bench width of atleast 10 m for the existing highwalls of 10 m vertical wall before executing the lease and the required slope stability measures shall be installed before obtaining the CTO from the TNPCB.
- 5) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.

  
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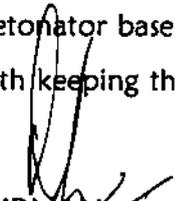
  
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- 6) Within a period of six months from date of lease execution and also every year, the PP shall carry out an Occupational Health Survey (OHS) includes **free silica test**, in accordance with the guidelines laid in the **DGMS (Tech.) (S&T) Circular No. 01 of 2011**, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952 by actively involving State Government officials and Non-Government Organizations(NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual compliance certificate shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 7) However, for the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry walls in a hilly terrain within a period of one year from the commencement of mining operations **for evaluating the slope stabilization & protective measures while designing the proposed benches**, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 8) The PP shall carry out the scientific studies **within a period of six months** from the commencement of quarrying operations after obtaining necessary permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the cluster of quarries located, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of

Environmental Compliance without any deviation.

- 9) As a part of monitoring the implementation of eco-friendly blasting operation, the PPs in the cluster shall regularly monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m (or) at any sensitive structures periodically once in a week through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 10) Considering the influence of the Cluster of quarries in operation in the hilly terrain, the PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' to be adopted in the cluster in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 11) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4<sup>th</sup> year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 12) The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
- 13) The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the

  
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security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.

14) Considering the cluster of quarries are located, the PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.

15) As accepted by the Project Proponent the CER cost is Rs. 5 Lakhs and the amount shall be spent towards Government High School, Bukkasagaram for the activities as committed before obtaining CTO from TNPCB.

**Agenda No: 445 – 11**

**File No: 8656/2023**

**Proposed Rough Stone quarry lease over an extent of 4.50.0 Ha in S.F. No. 168 (Part-1) at Vada Aalampirandhan Village, Cheyyar Taluk, Tiruvannamalai District Tamil Nadu by Thiru.N.Venkatesh - For Environmental Clearance.**

**(SIA/TN/MIN/453960/2023, dated: 09.12.2023)**

The proposal was placed in this 445<sup>th</sup> SEAC meeting held on 15.02.2024. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru. N. Venkatesh has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 4.50.0ha in S.F. No. 168 (Part-1) at Vada Aalampirandhan Village, Cheyyar Taluk, Tiruvannamalai District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 5 years. The mining plan is for 5 years & production should not exceed 12,54,020m<sup>3</sup> of Rough Stone. The annual peak production of Rough Stone should not exceed 2,50,920m<sup>3</sup> of Rough Stone. The ultimate depth of mining is 40m AGL.

  
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4. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.8656/SEAC/ToR - 1365/2023, Dated: 09.02.2023.

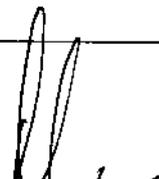
5. Public hearing was conducted on 18.08.2023.

6. EIA Report submitted on 22.12.2023.

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

File No	8656/2023	Category	B1
	453960/2023		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.N.Venkatesh, S/o.Natarajan, No.158, Kurinji Nagar, Vellisemmandalam, Cuddalore District.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone Quarry
3.	S.F Nos. of the quarry site with area break-up	:	168(Part-1)
4.	Village in which situated	:	Vada Aalapirandhan
5.	Taluk in which situated	:	Cheyyar
6.	District in which situated	:	Tiruvannamalai
7.	Extent of quarry (in ha.)	:	4.50.0Ha
8.	Latitude & Longitude of all corners of the quarry site	:	12°38'06"N to 12°38'16"N 79°36'28"E to 79°36'35"E
9.	Topo Sheet No.	:	57-P/10
10.	Type of mining	:	Opencast Semi - Mechanized Mining
11.	Life of Project	:	5 years
	Lease Period	:	5 Years
	Mining Plan Period	:	5 Years

  
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	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC	
12.	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone 40,50,000m <sup>3</sup>	Rough Stone	
	Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone 24,97,020m <sup>3</sup>	Rough Stone	
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone 2,50,920m <sup>3</sup>	Rough Stone	
	Maximum Depth in meters	:	40m AGL		
	13.	Depth of water table	:	55-58 m	
	14.	Man Power requirement per day:	:	70 Nos	
15.	Water requirement:	:	5.0 KLD		
	1. Drinking & utilized water	:	1.0 KLD		
	2. Dust suppression	:	2.0 KLD		
	3. Green belt	:	2.0 KLD		
16.	Power requirement	:	TNEB 4,01,280 Litres of HSD		
17.	Precise area communication approved by District Collector Tiruvannamalai, with date	:	Na.Ka No.16/Kanimam/2019, dated: 28.05.2019		
18.	Mining Plan approved by Assistant Director, Dept of Geology & Mining.	:	Rc.No.16/Kanimam/2019, dated: 07.06.2019		
19.	Department of G&M, Assistant Director, 500m Cluster Letter	:	Rc.No.16/Kanimam/2019, dated: 07.06.2019.		
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Furnished		

21.	Project Cost (excluding EMP cost)	:	Rs. 5,94,50,000
22.	EC Recommendation	:	Validity
			30 years subject to the following upper limits.
			Rough Stone Quarry
		:	Max Total RoM in m <sup>3</sup>
		:	12,54,020m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>
		:	2,50,920m <sup>3</sup>
		:	Max Depth in mtrs
		:	40m AGL
23.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 50.20 Lakhs Recurring Cost – Rs. 75.20 Lakhs
24.	CER cost (in Rs. Lakhs).	:	Rs. 5,00,000

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding **2,50,920m<sup>3</sup> of Rough stone by maintaining the ultimate depth of mining up to 40m Above Ground Level** and subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a **maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.**
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit and garland drainage with settlement tank before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.

  
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3. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
4. For ensuring the scientific & systematic way of mining, the PP shall submit a conceptual plan indicating the quarry operation to be carried out from top ward to downwards by maintaining the haul road of permitted gradient along with keeping the benches intact, to the concerned AD (Mines) at the time of lease execution.
5. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
6. The PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations with a prior permission obtained from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground & noise from the blasting operations carried out in the overburden/side-burden formation of the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
7. Since the village is located within 650 m, as a part of monitoring the implementation of eco-friendly blasting operation, the PP shall monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, and 750 m and the fly rock level produced through capturing a video image **once in a month**, by involving any of the reputed Research and Academic Institution such

- as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT (ISM) - Dhanbad, and Anna University Chennai-CEG Campus, etc. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
8. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
  9. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4<sup>th</sup> year or when the depth of working exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
  10. As a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Dept of Geology, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

  
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11. The PP shall furnish the Traffic Plan to accommodate the daily fleet movement of trucks from the quarry proposed in the hilly terrain to the nearest village road/highway in a safe manner with pollution control measures based on a scientific study involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Transportation Engineering-IIT-Madras, and Division of Transportation Engineering, CEG Campus/Anna University, Chennai before obtaining the CTO from the DEE/TNPCB.
12. 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 Vada alapiranthan primary school before obtaining CTO from TNPCB.

**Agenda No: 445 - 12**

**(File No: 8831/2023)**

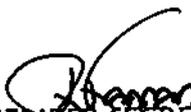
**Proposed Rough stone quarry lease over an extent of 1.50.5 Ha at S.F.No. 425/14A1 & 425/32 of Lembalakudi Village, Thirumayam Taluk, Pudukkottai District, Tamil Nadu by Tmt. M. Selvarani - For Environmental Clearance.**

**(SIA/TN/MIN/453493/2023 dated: 27.11.2023)**

The proposal was placed in 445<sup>th</sup> SEAC meeting held on 15.02.2024. The details of the project furnished by the proponent are given in the website ([parivesh.nic.in](http://parivesh.nic.in)).

**The SEAC noted the following:**

1. The Project Proponent, Tmt. M. Selvarani has applied for Environmental Clearance for the proposed rough stone quarry lease over an extent of 1.50.5 Ha at S.F.No. 425/14A1 & 425/32 of Lembalakudi Village, Thirumayam Taluk, Pudukkottai 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 5 years. The mining plan is for 5 years & production should not exceed 1,85,478m<sup>3</sup> of Rough Stone. The annual peak production of Rough Stone should not exceed 48,222m<sup>3</sup> of Rough Stone. The ultimate depth of mining is 47m BGL.

  
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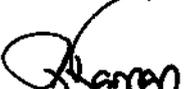
4. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.8831/SEAC/ToR - 1097/2021, Dated: 21.03.2022.
5. Public hearing was conducted on 23.03.2023.
6. EIA Report submitted on 15.12.2023.

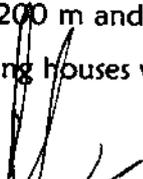
Now, the proposal was placed in 445<sup>th</sup> SEAC meeting held on 15.02.2024. Based on the presentation and documents furnished by the PP, committee noted the following  
As per the KML file uploaded by the proponent in Parivesh portal, it was ascertained that

1. An Overhead Tank approximately at a distance of 150m in the North Western direction.
2. Cluster of structures approximately at a distance of 185m in the North Western direction.
3. There is a vari approximately at a distance of 50m in the South Western end of the proposed site.

Based on the above facts, the committee decided to call for the additional details as follows:

- (i) The PP shall carry out a study with respect to the implications of Mining activity on the Overhead Tank existing closely to suggest the appropriate Mitigation measures.
- (ii) The PP shall conduct a study with respect to the implications of the proposed mining activity on the vari and the hydraulic structure and appropriate mitigation measures shall be submitted.
- (iii) The proponent shall obtain details regarding the status and condition of a quarry / expired pit exists nearby from AD/Mines.
- (iv) As per KML there appears to be a pit in the proposed site. EIA coordinator shall inspect the site and submit a detailed report on this.
- (v) The PP shall submit the comprehensive details regarding the Corporate Environment Responsibility as committed.
- (vi) 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

  
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number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, Overhead Water tank, Schools etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income etc..

(vii) The PP shall furnish alternative transportation route for the proposed quarry.

Upon the receipt of the above, 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.

**Agenda No: 445 - 13**

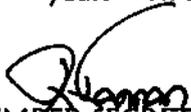
**(File No: 9069/2023)**

**Proposed Rough stone & gravel quarry lease over an extent of 4.70.0 Ha in S.F.Nos.92/3F, 92/3G, 92/3I2, 92/3I3, 92/3J, 92/3K1, 92/3K2, 92/3K3, 92/3K4, 92/3L, 92/3M, 92/3N, 92/3O1, 92/3O2, 92/3P, 92/3Q, 92/3R, 92/3S, 92/3T, 92/3U1, 92/3U2, 92/3U3 & 92/3V of Ponnangalam Village, Thirumangalam Taluk, Madurai District, Tamil Nadu by Thiru P. Thirugnanasambanthan - For Environmental Clearance. (SIA/TN/MIN/454788/2022, Dated: 08.12.2023)**

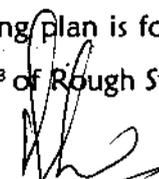
The proposal was placed in 445<sup>th</sup> SEAC meeting held on 15.02.2024. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru P. Thirugnanasambanthan has applied for Environmental Clearance for the Rough stone & gravel quarry lease over an extent of 4.70.0 Ha in S.F.Nos.92/3F, 92/3G, 92/3I2, 92/3I3, 92/3J, 92/3K1, 92/3K2, 92/3K3, 92/3K4, 92/3L, 92/3M, 92/3N, 92/3O1, 92/3O2, 92/3P, 92/3Q, 92/3R, 92/3S, 92/3T, 92/3U1, 92/3U2, 92/3U3 & 92/3V of Ponnangalam Village, Thirumangalam Taluk, Madurai District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 10 years. The mining plan is for 10 years – two spells & production should not exceed 7,32,635m<sup>3</sup> of Rough Stone

  
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& 73,686m<sup>3</sup> of Gravel. The annual peak production of Rough Stone should not exceed 88,480m<sup>3</sup> of Rough Stone & 40,488m<sup>3</sup> of Gravel. The ultimate depth of mining is 47m BGL.

4. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.9069/SEAC/ToR - 1172/2022, Dated: 13.06.2022.
5. Public hearing was conducted on 24.08.2023.
6. EIA Report submitted on 14.12.2023.

Now, the proposal was placed in 445<sup>th</sup> SEAC meeting held on 15.02.2024. Based on the presentation and documents furnished by the proponent, committee noted the following

As per the KML file uploaded by the proponent in Parivesh portal, it was ascertained that

1. The proposed site is abutting a tank on Southern and South-Eastern direction.

Based on the above facts, the committee decided to call for the additional details as follows:

- (i) The PP shall furnish the details regarding the ayacut area for the lake.
- (ii) The proponent shall furnish the details regarding Catchment Area of the lake.
- (iii) The PP shall obtain NOC from the concerned WRD-TN.
- (iv) The PP shall conduct a Hydrogeological & Hydrological study with respect to the to the abutting tank & appropriate Mitigation measures shall be submitted for implications due to the proposed Mining activity.

Upon the receipt of the above, 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.

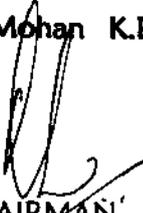
**Agenda No.445-14**

**File No: 8662/2021**

**Proposal for the grant of Environmental Clearance for the Proposed Rough Stone & Gravel quarry over an extent of 2.21.0 Ha located at S.F. No, 92/1B, Sillaraipuravu Village, Tenkasi Taluk, Tenkasi District Tamil Nadu by Thiru.Mohan K.Philip (SIA/TN/MIN/219928/2023 dt 20.07.2021)**

  
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The subject was earlier appraised in 243<sup>rd</sup> meeting of SEAC held on 04.02.2022. The SEAC has **decided not to recommend the proposal** for the grant of Environmental Clearance citing the following reasons:

SEAC noted that the lease area is 1.5 Km from the Nellai wildlife Sanctuary boundary as per MOEF Final Notification S.O. 2794(E) dated 02.08.2019 of MOEF & CC. The Committee felt that the proposed mining activity is close to the Eco Sensitive Zone and mining activity will affect the habitation in Nellai Wildlife Sanctuary. The Committee, therefore, decided not to recommend the project proposal.

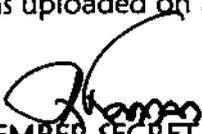
Subsequently the subject was placed in the 486<sup>nd</sup> meeting of Authority held on 16.02.2022. Accepting the decision of SEAC TN, the SEIAA TN requested the Member Secretary, SEIAA to communicate the SEAC minutes of 04.02.2022 to the project proponent.

Meanwhile, aggrieved by the decision of SEIAA, the PP filed writ petitions W.P.No. 21201 of 2023 and WMP(MD). No. 17609 of 2023 before the Hon'ble High Court of Madras (Madurai Bench) against SEIAA and SEAC. The Hon'ble Court has issued the following directions to SEIAA & SEAC vide its order dated 30<sup>th</sup> August 2023:

*Considering the limited scope of the relief sought for, the fact that the petitioner's application is pending from the year 2021 and the notification issued by the Ministry, this writ petition stands disposed of, with a direction to the respondents 5 & 6 to take a decision on the petitioner's application dated 20.07.2021, on merits and in accordance with law, within a period of eight weeks from the date of receipt of a copy of this order, after affording due opportunity of hearing to the petitioner.*

*There shall be no order as to costs. Consequently, connected miscellaneous petition is closed.*

Meanwhile the PP vide letter dated 02.09.2023 requested for opportunity to present his project proposal again. As per the orders of the Authority the rejection letter was issued vide T.O. Lr. No. SEIAA-TN/F.No.8662/2022 dated 15.09.2023 and the same was uploaded on PARIVESH.

  
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Now, the Government Pleader, Hon'ble High Court of Madras (Madurai Bench) vide letter dated 29.01.2024 has intimated that,

*A Writ Petition W.P.(MD)No.1450 of 2024 has been filed by Mohan K Philip before the Hon'ble Bench of Madurai Bench of Madras High Court, praying for issuance of Writ of Certiorarified Mandamus, calling lor the records pertaining to the letter No: SEIAA-TN/F.No.8662 /2022 dated 15.09.2023 passed by the 3<sup>rd</sup> respondent and quash the same as illegal and erroneous, consequently direct the 3<sup>rd</sup> respondent to grant environmental clearance and further direct the 1<sup>st</sup> respondent to grant stone quarry lease within a time frame to be fixed by this Hon'ble Court. When the above said writ petition came up for admission before the Hon'ble Division Bench of Madurai Bench of Madras High Court on 24.01.2024. The Hon'ble Division Bench directed to get instruction from the respondents. The above case is adjourned by two weeks. Kindly depute a concerned responsible official along with relevant records. Kindly treat this matter as most urgent.*

Hence the subject was placed in the 691<sup>st</sup> meeting of SEIAA held on 06.02.2024 and the Authority after detailed discussions decided to forward the Hon'ble Court order to SEAC for action on the above directions of High Court of Madras (Madurai Bench).

In view of the above, the subject was taken up for discussion in this 445<sup>th</sup> meeting of SEAC held on 15.02.2024. The PP informed the Committee that the final order has been delivered on 14.02.2024. The Committee directed the PP to furnish the copy of the judgement order for further consideration. On receipt of the same the Committee will further deliberate and decide on the future course of action.

**Agenda No.445-15**

**File No: 10115/2023**

**Proposed Rough Stone lease over an extent of 1.00.0 Ha at S.F.No.839/2(Part) in Sokkanur Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Thiru. J. Sathyan Praveen – For Environment Clearance. (SIA/TN/MIN/431805/2023 dt 01.06.2023)**

  
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The subject was earlier appraised in 401<sup>st</sup> meeting of SEAC held on 16.08.2023. The SEAC has decided not to recommend the proposal for the grant of Environmental Clearance citing the following reasons:

1. There are many structures including the labour sheds and cow sheds located within 300m radius of the proposed mine lease area.
2. The existing trees & strong vegetation present within the mine lease area may be disturbed unnecessarily causing the ecological damage while carrying out the proposed quarrying activity.
3. The proposed area has no mining activity in the vicinity and if mining activity is allowed, it may have a negative impact on the surrounding lush green environment and coconut groves.

Subsequently the subject was placed in the 652<sup>nd</sup> meeting of Authority held on 11.09.2023. The Authority, after detailed discussions, accepted the decision of SEAC, rejected the proposal and decided to request Member Secretary, SEIAA-TN to grant rejection letter to proponent as per the 401<sup>st</sup> SEAC minutes. Further, Authority decided to close and record this proposal.

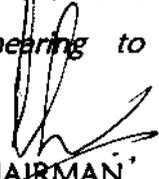
As per the orders of the Authority the rejection letter was issued vide T.O. Lr. No. SEIAA-TN/F.No.10115/2022 dated 15.09.2023 and the same was uploaded on PARIVESH.

Meanwhile, aggrieved by the decision of SEIAA, the PP filed appeal no. 42 of 2023 (SZ) before the Hon'ble National Green Tribunal (Southern Zone) against SEIAA and SEAC. The Hon'ble Court has issued the following directions to SEIAA & SEAC vide order dated 24<sup>th</sup> January 2024.

*In the result,*

- i) The appeal [Appeal No.42 of 2023 (SZ)] is allowed.*
- ii) The impugned order dated 15.09.2023 passed by the SEIAA – Tamil Nadu vide letter No. SEIAA-TN/F.No.10115/2022 is set aside and the matter is remitted back to the SEIAA – Tamil Nadu.*
- iii) The SEIAA – Tamil Nadu is directed to reappraise and revisit the proposal afresh and assess the same in its proper perspective with reference to rules in vogue by affording an opportunity of personal hearing to the*

  
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*appellant/project proponent and after inspection of the site within a period of 4 (four) weeks.*

Hence the subject was placed in this 690<sup>th</sup> meeting of SEIAA held on 05.02.2024 and the Authority after detailed discussions decided to forward the Hon'ble Court order to SEAC for compliance of the above directions of Hon'ble National Green Tribunal (Southern Zone).

In view of the above, the subject was taken up for discussion in this 445<sup>th</sup> meeting of SEAC held on 15.02.2024. The Committee decided to constitute a sub-committee to inspect the site as per the directions of the Hon'ble Court. On receipt of the inspection report from the sub-committee, the Committee will further deliberate and decide on the future course of action.

**Agenda No: 445-16**

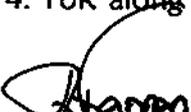
**(File No: 9261/2022)**

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

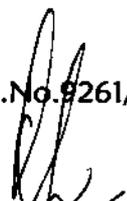
The proposal was placed in this 445<sup>th</sup> meeting of SEAC held on 15.02.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, M/s. S.S.V Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone quarry lease area over an extent of 2.50.0 Ha (Government Poramboke land) at S.F.No. 603/1 (Part-A) of Panchakshipuram Village, Hosur Taluk, Krishnagiri District, 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. The precise area communication was issued for the period of 5 years. The approved mining plan is for 5 years. As per the approved mine plan, the annual peak production shall not exceed 1,84,060 m<sup>3</sup> of Rough Stone for an ultimate depth of 91m (5m AGL + 86m BGL).
4. ToR along with Public Hearing issued vide Lr No. SEIAA-TN/F.No.9261/ToR-

  
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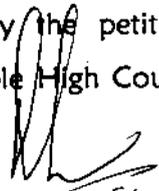
  
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1204/2022 Dated: 14.07.2022.

5. Public hearing conducted on 24.07.2023.
6. EIA Report submitted on 13.10.2023.
7. During the appraisal, the PP has furnished an affidavit stating that the college premise situated at a distance of 430 m from the mine lease boundary is not functioning presently.
8. Earlier, the proposal was placed for appraisal in the 421<sup>st</sup> meeting of SEAC held on 08.11.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of **Environmental Clearance for the annual peak production capacity not exceeding 1,09,940 m<sup>3</sup> of Rough Stone by maintaining the ultimate depth of mining upto 46m (5m AGL + 41m BGL) and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF&CC, in addition to the specific conditions stated therein.**
9. Subsequently, the subject was placed in the 676<sup>th</sup> authority meeting held on 28.11.2023. The authority noted that the subject was appraised in the 421<sup>st</sup> SEAC meeting held on 08.11.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.  
After detailed discussions, the Authority in its meeting dated 28.11.2023, taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant **Environmental Clearance for the quantity of 3,75,930 m<sup>3</sup> of Rough Stone up to the ultimate depth of 46m (5m AGL + 41m BGL) and the annual peak production should not exceed 1,09,940 m<sup>3</sup> of Rough Stone.** This is also subject to the conditions imposed by SEAC, normal conditions stipulated by MOEF&CC in addition to the conditions stated therein and the conditions in Annexure 'A' of this minutes.
10. The subject was placed in the 689<sup>th</sup> authority meeting held on 12.01.2024. After detailed discussion, the authority noted as follows:

- i. Meanwhile, W.P. No. 33990 of 2023 was filed by the petitioner Thiru.S.Ramesh and Thiru.N.Venkatesamy in the Hon'ble High Court of

  
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Madras and the Writ Petition Affidavit copy received vide this office mail dated 08.12.2023. The petitioner has raised the complaint against M/s. S.S.V Blue Metals represented by Proprietor Thiru. R. Rajasekaran, Panchakshipuram Village, Hosur Taluk, Krishnagiri District. Hence, the issue of Environmental Clearance has been put on hold.

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

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

11. The proposal was placed in the 444<sup>th</sup> meeting of SEAC held on 09.02.2024. During the meeting, the Project Proponent has stated that he has not received the copy of Affidavit for W.P. No. 33990 of 2023 filed by Petitioner in which he has been Respondent No. 7. The committee decided that the copy of Affidavit in the file may be communicated to PP. The PP was instructed to furnish his reply for the Writ Petition Affidavit. Hence, SEAC decided to defer the proposal and take it up in the ensuing meeting.

Now, this proposal was again placed in this 445<sup>th</sup> meeting of SEAC held on 15.02.2024.

The PP furnished the following reply:

Petitioner Prayer	PP's Reply
<p>2. I respectfully submit that, we are residing in the above address, and we have agriculture land in S.Nos.605, 606, 607 &amp; 602/3E total admeasuring about 4.25 Acres and 0.78 Hec situated at Masinayakappalli Village, Panchachipuram Post, Krishnagiri District. I and my family have cultivated the above said land for several decades and also we constructed house and living there in 12*12 Sq.meter. and we maintained goat cattle's, etc. It is pertinent to note that the</p>	<p>It is a Government Tender quarry. We have obtained Terms of Reference from SEIAA on 14.07.2022 vide Lr.No.SEIAA-TN/F.No.9261/ToR-1204/2022 Dated: 14.07.2022. The Public Hearing was conducted by TNPCB, Krishnagiri on 24.07.2023 at 11.30 AM at M/s. CMK Kalyana Mandapam, Nagondapalli, Denkanikottai Main Road, Hosur - 635 109. The final EIA appraisal meeting conducted by SEAC on 04.01.2024.</p>

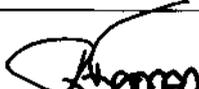
  
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<p>above forms are maintained by my family for several years and my entire family have depended upon the income derived from the above said lands.</p>	<p>The site observations - The goat shed and house of the petitioner is at 278meter at North direction actual measurements taken in the site.</p>
<p>3. I submit that a firm in the name and style of M/s. S.S.V Blue Mettal represented by its Proprietor R.Rajasekaren has applied for environment clearance before the 4<sup>th</sup> respondent for Rough Stone Quarry over a total extent of 2.50.0 Ha at S.F.No.603/1 (Part A) of Panchachipuram Village, Hosur Taluk, Krishnagiri District which near to my land at about 40 meters. I have immediately given representation dated 02.02.2023 requesting to not approval environment clearance due to agriculture exploit and pollution regarding air and noise. The 4<sup>th</sup> respondent has arranged a public hearing meeting on 24.07.2023 me and other my village people merely 500 hundred peoples were participated and explained the real fact and dire consequence and also 90% of formers and villagers were oppose to grant permission for mining and village 2 family's houses and cattles more than 70 goats and 4 cows are located in 40 meters radiation within the alleged quarry location and Sri MadhanaGiri Muneeswarar Swamy Old</p>	<p>Based on the site inspection, the enumeration study conducted along with GPS for actual measurements.</p> <p>The goat shed, and house of the petitioner is at 278 meter at North direction actual measurements taken in the site</p> <p>The MadhanaGiri Muneeswarer Swamy Old temple at 2.04 KM in southeast direction</p> <p>There is no any habitants within 40 meters from our proposed quarry</p>

<p>Temple is located in 250 meters if the clearance is granted the above temple may be damaged. As per the norms the stone crush quarry shall be located away from 1km but in our area the stone crush quarry has located within the 100 hundred meters. It is pertinent to note that in my village and surrounding villages there are more than 20 mines already existence and some other mines are still functioning after the lease period lapsed. The 1<sup>st</sup> respondent also levied alarming' penalty of ₹321 crore levied on illegal quarry owners in Krishnagiri district, only ₹20 lakh has been collected out of ₹321crores so far, and the fine has been allowed to be paid in installments and very recently the National Green Tribunal has expressed their reprimand regarding the above issue.</p>	
<p>4. I further submit that despite non collection penalties and shutdown the illegal mines the 1<sup>st</sup> respondent has allowed to run another mines for Rough Stone Quarry over a total extent of 2.50.0 Ha at S.F.No.603/1 (Part A) of Panchachipuram Village, Hosur Taluk, Krishnagiri District and other surrounding villages in Krishnagiri District. It is pertinent to note that the state government violating the Mines and</p>	<p>The prayer is not relevant to our quarry as our proposed quarry is legally tendered by the state government and our proposed quarry is not yet started.</p>

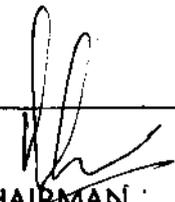
  
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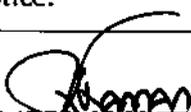
<p>Minerals (Regulation and Development Act) Act 1957 by without any prior approval from Central Government they grant approval to run the Minor Mines &amp; Minerals as per Section 15 of the above act.</p>	
<p>5. I further submit that the application form submitted by M/s. S.S.V. Blue Mettal by stating that the existing Quarry in our village and surrounding are 4 quarries but the actual running quarries are more than 20 quarries and it is pertinent to note that there is no permission obtained from the central Government. After conducting the public hearing the respondent never send any communication but shock and surprisingly the 1<sup>st</sup> respondent office bearers are earmarked the quarry lands in of 2.50.0 Ha at S.F.No.603/1 (Part A) of Panchachipuram Village, Hosur Taluk Krishnagiri District. I have immediately send representation dates 03.08.2023 to the 3<sup>rd</sup> respondent to not grant any clearance for Rough Stone Quarry over a total extent of 2.50.0 Ha at S.F.No.603/1 (Part A) of Panchachipuram Village, Hosur Taluk, Krishnagiri District. But after receiving my above representation the 3<sup>rd</sup> respondent is neither call for enquiry nor pass any orders in respect of my above representation. Hence without any other</p>	<p>We have not carried out any mining activities, we have taken the tender action of the proposed quarry, the said points not related to our proposed quarry</p> <p>There are Four Existing quarries, Three abandoned/Old quarries, Two Proposed quarries. As per the 500-meter radius letter</p> <p><b>The 500m radius letter received from Assistant Director (Addl.Charge), Dept of Geology and Mining, Collectorate, Krishnagiri vide letter no. Roc.No.182/2018/Mines dated:03.08.2021</b></p>

  
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<p>option I filed this writ petition under Article 226 of Constitution of India to direct the 3<sup>rd</sup> respondents to consider my representations dated 03.08.2023 within stipulated time as fixed by this Hon'ble court and consequently direct the 3<sup>rd</sup> respondent to reject the environment clearance for Rough Stone Quarry over a total extent of 2.50.0 Ha at S.F.No.603/1 (Part A) of Panchachipuram Village, Hosur Taluk, Krishnagiri District.</p>	
<p>It is prayed that this Hon'ble Court may be pleased to permit the petitioners to file single writ petition and pass such further any other order as this Hon'ble Court may deem fit and proper in the circumstances of the case and thus render justice.</p> <p>For the reasons aforementioned, it is prayed that this Hon'ble Court may be pleased to issue a writ of Mandamus or any other appropriate Writ or Direction to directing the 3<sup>rd</sup> respondents to consider my representations dated 03.08.2023 within stipulated time as fix by this Hon'ble court and pass such further any other order as this Hon'ble Court may deem fit and proper in the circumstances of the case and thus render justice.</p>	<p>The prayer is not relevant to our quarry as our proposed quarry is legally tendered by the state government and our proposed quarry is not yet started</p>

  
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The SEAC carefully reviewed the replies furnished by the proponent and after detailed deliberations, decided to reiterate its recommendations already made in the 421<sup>st</sup> SEAC meeting held on 08.11.2023. All other conditions mentioned in the minutes will remain unchanged and unaltered.

**Agenda No: 445-17**

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

**Proposed Rough Stone and Gravel quarry over an extent of 2.29.5 Ha in S.F.No. 271/6, 272/2(P), 272/3 & 272/4(P) of Thoppampalayam Village, Sathyamangalam Taluk, Erode District, Tamil Nadu by Thiru. N. Thangavel - for Environmental Clearance-afresh Consideration based on the Hon'ble NGT (SZ) in the matter of Appeal No.41 of 2023 dated: 10.01.2024. (SIA/TN/MIN/440129/2023, dated: 11.08.2023).**

The proposal was placed for reappraisal in the 445<sup>th</sup> meeting SEAC held on 15.02.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Committee noted that the same proposal was earlier considered by the Committee in its 365<sup>th</sup> meeting of SEAC held on 24.03.2023 in file No.9694/2022. Based on the presentation and documents furnished by the proponent, committee decided to not to recommend the proposal for the reasons stated therein.
2. Subsequently, the subject was placed before the Authority in its 612<sup>th</sup> meeting held on 17.04.2023 & 18.04.2023. SEIAA accepts the decision of SEAC and decided to request Member Secretary, SEIAA-TN to grant rejection letter to proponent as per the 365<sup>th</sup> SEAC minutes.
3. Subsequently, the rejection letter was granted vide letter dated: 25.05.2023 and the same was uploaded in the parivesh portal.
4. Meanwhile, the Proponent had filed a new application vide Proposal No. SIA/TN/MIN/440129/2023, dated: 11.08.2023 (10317/2023) for obtaining EC.
5. Hence, the Proponent was informed vide Letter dated:21.11.2023 that the rejected proposals will not be reconsidered at SEIAA-TN.

  
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6. Based on the above, the PP had approached the Hon'ble NGT (SZ), Chennai in the matter of Appeal No.41 of 2023 challenging the letter issued by MS-SEIAA vide order dated:10<sup>th</sup> January, 2024.

7. Based on the court direction, the proposal was again placed in the 689<sup>th</sup> Authority meeting held on 12.01.2024. The Authority noted that the Hon'ble National Green Tribunal (SZ) in its order dated:10<sup>th</sup> January, 2024 of Appeal No.41/2023 has directed the SEIAA-TN to consider the Proponent's proposal afresh bearing Proposal No.SIA/TN/MIN/440129 dated:11.08.2023. After detailed discussions, the Authority decided to forward the proposal to SEAC-TN based on the court direction for further course of action.

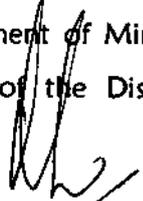
Based on the above, the proposal was placed for reappraisal in in the 445<sup>th</sup> meeting SEAC held on 15.02.2024 in deference to the court direction issued in the matter of Appeal No.41/2023 vide order dated: 10.01.2024.

During the meeting, the Committee carefully examined the points put forth by the PP and the EIA Coordinator, engaged by the PP. The Committee noted that the same proposal was considered by the SEAC in its 365<sup>th</sup> meeting of SEAC held on 24.03.2023 in file No.9694 and the Committee decided not to recommend observing the following ecologically sensitive issues,

1. The proposed quarry site is located in an ecologically sensitive area of Bhavani Sagar Reservoir and is located adjacent to the Velamundi RF.
2. The proposed quarry was earlier operated in three spells (i.e., 1996 to 1999, 1999 to 2004, 2009 to 2014) and the existing depth of the quarry is 15 m below ground level.
3. The Quarry operations were stopped due to the requirements of NBWL Clearance from 2014.
4. Due to existence of R.F at 113 m, the quarry was not opened from 2021 even though the final Notification issued on Sathyamangalam Tiger Reserve due to the existence of TN G.O on protection of R.F within 1 km from the quarry sites.
5. The Quarry was operated earlier with the conventional drilling & blasting activities and a scientific study was carried out by the Department of Mining Engineering, Anna University Chennai as per the direction of the District

  
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Collector in 2011 to determine the impact of blasting operations in the cluster of mines situated within 10 km distance from the Bhavani Sagar Dam structure & embankment and it was recommended to carry out the blasting operations with the prescribed maximum charge per delay in every round under the direct supervision of statutory competent person appointed under the provisions of MMR 1961.

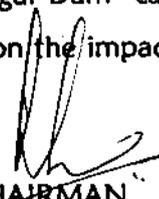
6. Accordingly, the quarry was in operation involving the blasting operation as the District Collector had granted the permission with stipulating the recommendations of the aforesaid scientific studies as the conditions to be followed scrupulously.
7. However, as per the KML file uploaded by the proponent in online through Parivesh portal, it is ascertained that,
  - i. The quarrying operations are proposed at a distance of 300 m from the catchment area of the Bhavani Sagar Reservoir in the Upstream Side.
  - ii. The existing quarry is located at a distance of 3.8 Km from the Bhavani Sagar Dam structure in the upstream side.
  - iii. The existing quarry is situated at a distance of 5.32 Km approximately from the highly protected Sathyamangalam Tiger Reserve.
  - iv. The starting point of embankment structure of Bhavani Sagar Dam is located at a distance of 879m only from proposed mine lease area.

Based on the above facts, **SEAC after detailed discussion and taking into consideration the safety of Bhavani Sagar Dam Structure and environmental setting of the site (Tiger Reserve) decided not to recommend this project proposal.**

However, the PP has filed a new proposal vide Online Proposal No. SIA/TN/MIN/440129/2023, dated: 11.08.2023 (10317/2023) without any change in the area or any other environmental factors pointed out by the Committee.

During the presentation, EIA Coordinator made a mention about the "Scientific Study of Blasting in Blue Metal Quarries of Thoppampalayam on Bhavanisagar Dam" carried out by the Dept. of Mining Engg, Anna University in the year 2011 on the impacts of

  
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mining activity on the Bavani Sagar Dam which is one of the oldest earthen Dams in the world. There is a caution stressed in the study report which is as follows,

*"...It is concluded from the study that blasting can be carried out in the blue metal quarries of Thoppampalayam Village and its surroundings without adversely affecting the Bhavanisagar dam, Perumal Temple and other structures in the area by following the recommendations given in this report. However, blast induced ground vibrations can cause damage to the Bhavanisagar Dam, Perumal Temple, etc. and pollute environment, if indiscriminate blasting of huge charges of high explosive (more than what has been recommended in this report) per delay without resorting to delay blasting is carried out."*

Considering all above, the Committee is of the view that reasons for not recommending the proposal remains the same. The reasoning of the Committee is also supported by the aforesaid comments made in the study report submitted by the Anna University during the year of 2011. Therefore, the Committee decided not to recommend the case for all the reasons mentioned above.

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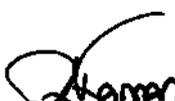
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## ANNEXURE-1

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

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

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

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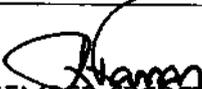
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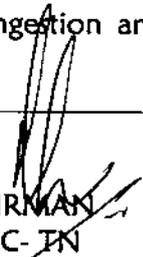
### **GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS**

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.

  
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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 (TNPCCB) 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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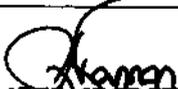
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### ROUGH STONE/JELLY/BLUE METAL QUARRY

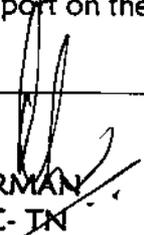
- 1) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 2) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, 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.

  
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- 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

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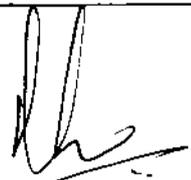
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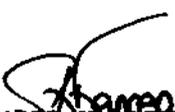
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SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED IN CLOSE PROXIMITY TO THE WINDMILLS		
Sl. No	Existing (or) Virgin Quarry	
	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m Up to 500 m
1.	Appointment of I/II Class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

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

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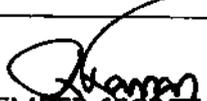
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### TERMS OF REFERENCE (ToR) FOR GRANITE / ROUGH STONE QUARRY

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?

  
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14. Quantity of minerals mined out.

- Highest production achieved in any one year
- Detail of approved depth of mining.
- Actual depth of the mining achieved earlier.
- Name of the person already mined in that leases area.
- If EC and CTO already obtained, the copy of the same shall be submitted.
- Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.

15. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).

16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc.,

17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.

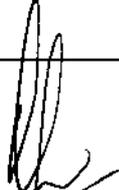
18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same.

19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.

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

  
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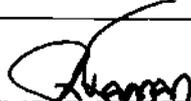
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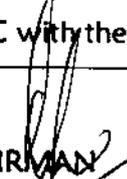
26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should 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

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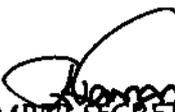
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photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.

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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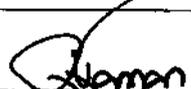
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## Annexure II

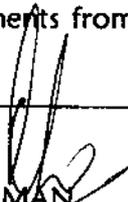
### Standard Environmental Clearance Conditions prescribed by MoEF&CC for Construction Projects.

#### 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.

  
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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.

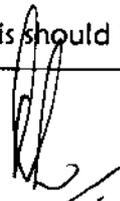
9. The diesel generator sets to be used during construction phase shall be low Sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.
10. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. 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-swailes, 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

  
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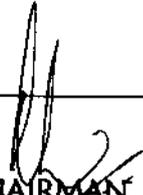
specified separately for ground water and surface water sources, ensuring that there is no impact on other users.

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.

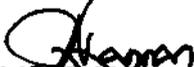
#### **5. Energy Conservation Measures:**

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.

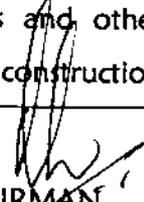
6. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building byelaws requirement, whichever is higher.
7. Solar power shall be used for lighting in the apartment to reduce the power load on grid. 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:**

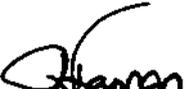
1. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to 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

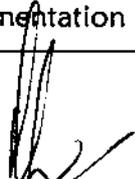
appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

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.

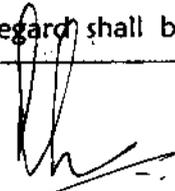
**9. Human Health Issues:**

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

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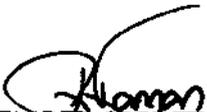
  
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submitted to the MoEF&CC as a part of Half Yearly Compliance Report (HYCR).

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

  
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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.

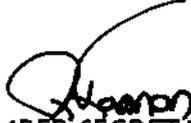
**Appendix - I**  
**List of Native Trees Suggested for Planting**

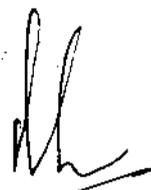
No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விவம்ப
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சள, ஆமைக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாளை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமர
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புனை
13	<i>Cassia fistula</i>	Serakondrai	சர்க்காண்டு
14	<i>Cassia roxburghii</i>	Sengondrai	செங்காண்டு
15	<i>Chloroxylon swositema</i>	Purasamaram	புரசமரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கொங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நடுவூலி
18	<i>Creisva adansoni</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sebenum</i>	Karungali	கருங்காணி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகை
23	<i>Ficus amphissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பூக்க
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	விளா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பின்பட்டை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழமரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	காம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனா
38	<i>Phoenix sylvestre</i>	Eachai	ஈச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Murnai	முள்ளை
41	<i>Premna serratifolia</i>	Narumunai	நறு முள்ளை
42	<i>Premna tomentosa</i>	Malaiipoovarasu	மலை பூங்க
43	<i>Prosopis cinerea</i>	Vanni maram	வள்ளி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்ணாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கரிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Marupungan, 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 கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்டி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேன் மருது
57	<i>Toona ciliate</i>	Sandhana vembu	சந்தா வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூங்க
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்பூசி

  
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