

State Expert Appraisal Committee (SEAC)

Minutes of 428th meeting of the State Expert Appraisal Committee (SEAC) held on 08.12.2023 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Malligai, Saidapet, Chennai 600 015 for consideration of Mining projects.

Confirmation of Earlier Minutes

The minutes of the 427th SEAC meeting held on 07.12.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 428- 01

(File No.10424/2023)


Proposed Rough Stone and Gravel Quarry lease area over an extent of 1.93.50Ha at S.F No.380/2 & 780/3 of Pulimankombai Village, Andipatti Taluk, Theni District, Tamil Nadu by Thiru. B. Ashokraja - For Environmental Clearance. (SIA/TN/MIN/444400/2023, dated: 18.12.2023).

The proposal was placed for appraisal in the 428th Meeting of SEAC held on 08.12.2023. The details of the project furnished by the proponent are given in the website(parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **Thiru. B. Ashokraja** has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry lease area over an extent of 1.93.50Ha at S.F No.380/2 and 780/3 of Pulimankombai Village, Andipatti Taluk, Theni District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the proposal are as follows:

File No	10424/2023	Category	B2
	444400/2023		1(a)


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1


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Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. B. Ashokraja, S/o. Balamurugan, No. 227/1A, Vaigai Anai Road, K. Vilakku, Kovilpatti, Andipatti Taluk, Theni District – 625 512.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel Quarry
3.	S.F Nos. of the quarry site	:	380/2 & 780/3
4.	Village in which situated	:	Pulimankombai
5.	Taluk in which situated	:	Andipattti
6.	District in which situated	:	Theni
7.	Extent of quarry (in ha.)	:	1.93.50Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10°03'55.75"N to 10°04'02.18"N 77°41'04.57"E to 77°41'09.73"E
9.	Topo Sheet No.	:	58- F/12
10.	Type of mining	:	Opencast Semi Mechanized mining
11.	Life of Project	:	10 years
	Lease Period	:	10 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m ³ (RoM)	:	Rough Stone m ³ - 7,71,400m ³
		:	Gravel m ³ - 38,570m ³
Minable Resources m ³ (RoM)	:	Rough Stone m ³ - 2,41,160m ³	
			As modified by SEAC
			Rough Stone m ³ -
			Gravel m ³ -
			Rough Stone m ³ -

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2

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		Gravel m ³ - 30,420m ³	Gravel m ³ -
	Annual Peak Production in m ³	: Rough Stone m ³ - 39,520m ³	Rough Stone m ³ -
		Gravel m ³ - 17,082m ³	Gravel m ³ -
	Ultimate Depth in meters	: 42m BGL	
13.	Depth of water table	: 59m in rainy season & 62m in summer season	
14.	Man Power requirement per day:	: 25 Nos	
15.	Water requirement: 1. Drinking & Domestic 2. Dust suppression 3. Green belt	: 5.0 KLD 1.5 KLD 1.5 KLD 2.0 KLD	
16.	Power requirement	: TNEB 81,120 Liters of HSD	
17.	Precise area communication approved by the Assistant Director, Dept of G&M	: Na.Ka.No.159/Kanimam/2023, Dated: 21.07.2023.	
18.	Mining Plan approved by Assistant Director, Dept of Geology & Mining.	: Roc.No.159/2023/Mines, Dated:09.08.2023.	
19.	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	: Roc.No.159/2023/Mines, Dated:09.08.2023.	
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Dated: :14.08.2023.	


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3

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21.	Project Cost (excluding EMP cost)	:	Rs. 66,11,000		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
			Max Total RoM in m ³	2,41,160 m ³	30,420 m ³
			Annual Max RoM in m ³	39,520 m ³	17,082 m ³
		:	Ultimate Depth in mtrs	42m BGL	
23.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 37.12 Lakhs Recurring Cost – Rs. 26.64 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 not exceeding 39,520m³ of Rough stone & 17,082 m³ of gravel by maintaining the ultimate depth of mining up to 42m below ground level and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MoEF &CC, in addition to the following specific conditions:

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


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SEAC -TN

4

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1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.


- 3) Before obtaining the CTO from the TNPCB, the PP shall construct the Garland drains of width 2m, depth 1.5m and with proper gradient for maximum discharge of rainfall in the adjoining areas of the mine lease boundary with siltation/sedimentation tank with an objective of allowing the water to let out in the natural drainage system located nearby shall be completed before execution of the mine lease.
- 4) The PP shall construct the Catch drains and siltation ponds of appropriate size to arrest silt and sediment flow from the working pit, soil and waste dumps. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should regularly be desilted particularly after monsoon and maintained properly.
- 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 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.
- 7) 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.
- 8) **Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast**


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parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these 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) 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 when the depth of mine touches 30 m or during the 3rd year of quarrying operation 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) 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. Blasting operation should be carried out only during the daytime.
- 11) 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.
- 12) 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


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

- 13) Plantation shall be raised in the surrounding area including green belt in an area of 1.00 Ha by planting native species around ML area, OB dumps, and roads etc. in consultation with local DFO/Agriculture Department. The density of the trees should be around 500 plant species per hectare.
- 14) The PP shall carry out the Regular monitoring of ground water level & quality by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should be carried out four times in a year– pre-monsoon (April -May), monsoon (August), post - monsoon (November) and winter (January) and the data thus collected may be sent regularly to MOEF, Central Ground Water Authority and Regional Director Central Ground Water Board with a copy forwarded to the DEE/TNPCB.
- 15) The PP shall ensure that the higher benches of the excavated void/mine pit shall be adequately terraced and plantation completed to stabilize the slopes.
- 16) As accepted by the Project Proponent the CER cost is **Rs. 5 Lakhs** and the amount shall be spent towards Government High School, P. Dharmathupatti. for the activities as committed before obtaining CTO from TNPCB.

Agenda No: 428 - 02

File No: 10431/2023

Proposed Rough Stone & Gravel quarry lease over an extent of 1.51.50 ha in S.F. No. 115/2, 115/4, 115/5, 115/6, 115/7, 115/8A, 115/9A, 115/9B, 115/10, 115/11 & 116/2A1 of Pachudayampatti Village, Senthamangalam Taluk, Namakkal District, Tamil Nadu by Thiru. M. Vellaiyan - For Environmental Clearance.

(SIA/TN/MIN/436364/2023, Dated: 12.07.2023)


MEMBER SECRETARY
SEAC -TN

7

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The proposal was placed in this 428th SEAC meeting held on 08.12.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation.

The SEAC noted the following:

1. The Project Proponent, Thiru. M. Vellaiyan has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 1.51.50 ha in S.F. No. 115/2, 115/4, 115/5, 115/6, 115/7, 115/8A, 115/9A, 115/9B, 115/10, 115/11 & 116/2A1 of Pachudayampatti Village, Senthamangalam Taluk, Namakkal District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

EIA Coordinator requested to defer the proposal due to sudden illness of the PP and hence subject was not taken up for appraisal.

Agenda No: 428- 03

(File No.10418/2023)

Proposed Rough Stone and Gravel Quarry lease area over an extent of 1.33.96 Ha (Patta Land) at S.F Nos.15/1B, 16/1L, 16/K & 485/5B of Pukkampatti & Vellar Village, Mettur Taluk, Salem District, Tamil Nadu by Thiru. R. Karthik - For Environmental Clearance. (SIA/TN/MIN/444527/2023, dated:15.09.2023).

The proposal was placed for appraisal in the 428th Meeting of SEAC held on 08.12.2023. 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. R. Karthik has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry lease area over an extent of 1.33.96 Ha (Patta Land) at S.F Nos.15/1B, 16/1L, 16/K & 485/5B of Pukkampatti & Vellar Village, Mettur Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.


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SEAC -TN

8

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

File No	10418/2023		Category	B2
	444527/2023			1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. R. Karthik, S/o. Ravichandran, No.104, Kottai Kovil Street, Dharmapuri District – 636 701.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel Quarry	
3.	S.F Nos. of the quarry site	:	15/1B, 16/1L, 16/K & 485/5B	
4.	Village in which situated	:	Pukkampatti & Vellar	
5.	Taluk in which situated	:	Mettur	
6.	District in which situated	:	Salem	
7.	Extent of quarry (in ha.)	:	1.33.96Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	11°52'07.1695"N to 11°52'10.0320"N 77°59'03.5163"E to 77°59'08.9966"E	
9.	Topo Sheet No.	:	58-E/13	
10.	Type of mining	:	Open cast Semi-Mechanized Method.	
11.	Life of Project	:	10 years	
	Lease Period	:	10 years	
	Mining Plan Period	:	10 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Rough Stone - 4,88,560m ³	-
		:	Gravel - 24,428m ³	-


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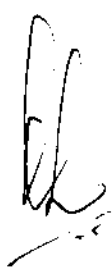
9

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	Minable Resources m ³ (RoM)	: Rough Stone - 1,08,335m ³	-
		: Gravel - 15,958m ³	-
	Annual Peak Production in m ³	: Rough Stone - 19,065m ³	-
		: Gravel - 8,342m ³	-
	Ultimate Depth in meters	: 32m BGL	-
13.	Depth of water table	: 60-65m BGL	
14.	Man Power requirement per day:	: 21 Nos.	
15.	Water requirement: 4. Drinking & Domestic 5. Dust suppression 6. Green belt	: 1.0 KLD 0.2 KLD 0.5KLD 0.3 KLD	
16.	Power requirement	: 52,436 liters of HSD for the first 5 years	
17.	Precise area communication approved by the Deputy Director, Dept. of G&M	: Rc.No.51/2023/Kanimam-A, Dated:30.06.2023.	
18.	Mining Plan approved by Deputy Director, Dept. of Geology & Mining.	: Rc.No.51/2023/Mines-A, Dated:18.07.2023.	
19.	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining	: Rc.No.51/2023/Mines-B, Dated:07.09.2023.	
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Dated: 26.07.2023.	
21.	Project Cost (excluding EMP cost)	: Rs.48,13,000/-	


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22.	EC Recommendation	: Validity	30 years subject to the following upper limits.	
			Rough Stone	Gravel
		: Max Total RoM in m ³	1,08,335	15,958
		: Annual Max RoM in m ³	19,065	8,342
		: Ultimate Depth in mtrs	32m BGL	
23.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 21,83,692/- Recurring Cost – Rs. 12,38,203/-	
24.	CER cost (in Rs. Lakhs).	:	Rs. 5,00,000 /-	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the **annual peak production capacity not exceeding 19,065m³ of Rough stone & 8,342m³ of gravel by maintaining the ultimate depth of mining up to 32m below ground level** and subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MoEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.


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SEAC- TN


- 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 habitations are situated within a radial distance of 500 m**, the PP shall carry out the scientific studies **within a period of six months** from the commencement of quarrying operations, **to design the controlled blast parameters initially** for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations, and **subsequently with proper validation of the design through trial blasts** in the proposed quarry after obtaining the prior permission from the DMS / Chennai Region in accordance with DGMS Circular No. 7 of 1997, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 5) The PP shall furnish 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.
- 6) Since the tank is located at a distance of 430 m from the mine lease boundary, 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


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


- & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 7) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept 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 not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
- 9) The PP shall adhere to the **special mitigation measures as the proposed quarry is located within 1 km from the reserve forests as stipulated in the Annexure.**
- 10) The PP shall develop Green belt/plantation all along the mining lease boundary in a safety barrier.
- 11) As accepted by the Project Proponent the CER cost is **Rs. 5 Lakhs** and the amount shall be spent towards Government Higher Secondary School, Pukkampatti, Salem District for the activities as committed before obtaining CTO from TNPCB.

Agenda No: 428- 04

Existing Black Granite Quarry Lease over an Extent of 166.92.0 Ha of S.F.Nos. 917(P) & 921(P) of Mahimandalam Village, Katpadi Taluk, Vellore District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited – Representation to change activities and to give time


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SEAC -TN

13

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SEAC- TN


extension for carrying out CRAP, NRAP & ERP - Reg

The representation was placed for appraisal in the 428th Meeting of SEAC held on 08.12.2023.

The SEAC noted the following:

1. Ministry of Environment, Forest & Climate Change has issued Environmental Clearance under violation category to M/s. Tamil Nadu Minerals Limited vide F.No.23-203/2018-IA.III(V) dated.09.04.2021 for black granite quarry of 166.92.0 Ha located at S.F.Nos. 917(P) & 921(P) of Mahimandalam Village, Katpadi Taluk, Vellore District, Tamil Nadu.
2. In the Environmental Clearance letter dated.09.04.2021, TAMIN has been directed to provide budgetary provision and spend Rs. 61,40,000/- towards Ecological Remediation Plan, Natural Resource Augmentation Plan and Community Resource Augmentation Plan within the span of three years, i.e., from 2021-2022 to 2023-2024.
3. Subsequently, TAMIN requested MoEF&CC to transfer the entire file to SEIAA-Tamil Nadu as the project falls under 'B1' category as per the MoEF&CC Notification S.O.1886(E), dated 20.04.2022 and MOEF&CC, OM dated 27.09.2022.
4. Subsequently, the proposal was placed before 19th Expert Appraisal Committee (EAC) meeting held on 25.08.2023. During the meeting, the EAC has recommended to transfer the instant proposal to SEIAA-TN.
5. Now, the proponent M/s. TAMIN has submitted a representation requesting to change activities covered under ERP, CRAP & NRAP as follows and also to extent time to complete these activities.

Details	Nature of work now	Rs in Lakhs
Ecological Remediation Plan	Plantation of 10,000 sampling and maintenance cost	21.60


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Community Resource Augmentation Plan	i. Common Community Hall for Mahimandalam & Bodinatham Villages ii. Tuition centre for Mahimandalam Village students. iii. Smart Class room in Govt. School of Mahimandalam Village iv. Water retention ponds 3 Nos. v. Blue Green Centre through Auroville Foundation for the two Govt. Schools in Mahimandalam & Bodinatham Villages	32.80
Natural Resource Augmentation Plan	Demand draft for the amount of Rs.7.0 Lakh to be given to DFO, Vellore towards construction Water Holes Percolation Tank in RF area	7.00
Total		61.40

Based on the presentation and details furnished by the project proponent, the Committee after deliberations, decided to accept the proponent's request to change activities covered under ERP, NRAP & CRAP mentioned in the EC dated.09.04.2021 as requested. Further, the Committee decided to give time extension of 6 months, i.e., upto 08.10.2024 for completing the activities mentioned above by including two Govt Schools for installing the Blue Green Centre, in consultation with the Auroville Foundation, as a part of Environmental Compensation. If the activities are not completed within the stipulated time period, bank guarantee submitted shall be forfeited.

Agenda No: 428- 05

(File No.10453/2023)

Existing Rough Stone and Gravel Quarry Lease over an Extent of 1.97.0Ha of S.F.Nos. 255/4 of Kasavanampatti Village, Dindigul West Taluk, Dindigul District, Tamil Nadu by Thiru. M. Balu – For Environment Clearance (SIA/TN/MIN/446159/2023, dt.29.09.2023)


MEMBER SECRETARY
SEAC -TN

15


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The proposal was placed for appraisal in the 428th Meeting of SEAC held on 08.12.2023. 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. Balu** has applied for Environment Clearance for the Existing Rough Stone and Gravel Quarry Lease over an Extent of 1.97.0Ha of S.F.Nos. 255/4 of Kasavanampatti Village, Dindigul West Taluk, Dindigul District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was accorded to the project proponent by DEIAA vide Lr.No.DEIAA/DGL/EC.No.114/2010/1(a) dated.02.08.2018 for a period of 5 years from the date of execution of mining lease. EC was accorded for the quantity of 1,56,678m³ of rough stone & 30,889m³ of gravel up to a depth of 29m.
4. Now, based on MoEF&CC O.M dated.24.04.2023, the proponent has submitted the application at SEIAA-TN for re-appraisal of EC granted by DEIAA.

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 project proponent shall submit a Certified Compliance Report as per the MoEF&CC O.M dated.08.06.2022 for the previous EC obtained from DEIAA dated.02.08.2018 indicating the compliance status & budgetary provisions.
- ii) The structures situated within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m, (iv)300 m & v) 500m shall be enumerated with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds, schools, colleges, etc., along with action plan.
- iii) The proponent shall also furnish slope stability action plan indicating the stabilization measures for the existing quarry wall and proposed benching formations incorporating the haul road accessibility with adequate gradient


MEMBER SECRETARY
SEAC -TN

16

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SEAC- TN


and width as given in the DGMS Circular No. 9 of 2008.

On receipt of the same, further deliberations will 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: 428-06

(File No: 10419/2023)

Proposed Rough stone & Gravel quarry lease over an extent of 1.44.50Ha at SF.No. 329/2, 329/3, 329/5, 329/6, 338/1 & 339/6 of Palayaseevaram -A Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu by Thiru.E.Muthukrishnan - For Environmental Clearance. (SIA/TN/MIN/444906/2023, Dated: 20.09.2023)

The proposal was placed in 428th meeting of SEAC held on 08.12.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.E.Muthukrishnan has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 1.44.50Ha at SF.No. 329/2, 329/3, 329/5, 329/6, 338/1 & 339/6 of Palayaseevaram -A Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation and documents furnished by the project proponent, SEAC noted that, the Survey nos 329/3, 329/5, 329/6 and 338/1 comes under "Nanjai Category". Hence the committee decide that, the PP shall furnish NoC from Collector for conversion of land use.

On receipt of the same, further deliberations will 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.428-07

(File No: 10433/2023)

Existing Multi Colour Granite quarry lease over an extent of 2.01.0Ha at SF.Nos. 1067/2(P), 1068/1(P), 1068/2(P) And 1068/3(P) of Myladumparai Village, Andipatti


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SEAC -TN

CHAIRMAN
SEAC- TN



**Taluk, Theni District, Tamil Nadu by Thiru.S.M.Ramar - For Environmental Clearance.
(SIA/TN/MIN/441248/2023, Dated:22.08.2023).**

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

The SEAC noted the following:

1. The project proponent, Thiru.S.M.Ramar has applied for Environmental Clearance for the existing Multi Colour Granite quarry lease over an extent of 2.01.0Ha at SF.Nos. 1067/2(P), 1068/1(P), 1068/2(P) And 1068/3(P) of Myladumparai Village, Andipatti Taluk, Theni District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

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

1. The project proponent shall furnish documentary evidence obtained from the concerned District Forest Officer showing the distance between the nearest R.F, PAs and the proposed quarry site.
2. As accepted, the PP shall submit revised CER.

On receipt of the same, further deliberations will 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: 428-08

(File No: 10440/2023)


Proposed Rough stone quarry lease over an extent of 1.00.0Ha at SF.No. 141/6 (Part) of Kalappanaickenpatti Village, Senthamangalam Taluk, Namakkal District, Tamil Nadu by Tmt.S.Menaka - For Environmental Clearance.

(SIA/TN/MIN/444508/2023, Dated:25.09.2023)

The proposal was placed in 428th meeting of SEAC held on 08.12.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Tmt.S.Menaka has applied for Environmental Clearance


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


for the proposed Rough stone quarry lease over an extent of 1.00.0Ha at SF.No. 141/6 (Part) of Kalappanaickenpatti Village, Senthamangalam Taluk, Namakkal District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier EC Issued By DEIAA - Lr. No. DEIAA-NMK-TN/F.No.259/Mines/04/EC.No.12/2018, Dated: 03.08.2018.

The SEAC noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

Agenda No: 428-09

(File No: 10447/2023)

Proposed Ordinary Earth quarry lease over an extent of 0.96.0Ha at SF.No. 9/2,9/3 & 9/4 of Ramathandalam Village, Tiruvallur Taluk, Tiruvallur District, Tamil Nadu by Thiru.N.Sambasivam - For Environmental Clearance.

(SIA/TN/MIN/446633/2023, Dated:02.10.2023)

The proposal was placed in 428th meeting of SEAC held on 08.12.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.N.Sambasivam has applied for Environmental Clearance for the proposed Ordinary Earth quarry lease over an extent of 0.96.0Ha at SF.No. 9/2,9/3 & 9/4 of Ramathandalam Village, Tiruvallur Taluk, Tiruvallur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

File No	10447/2023	Category	B2
	SIA/TN/MIN/446633/2023, Dated:02.10.2023		
Sl. No	Salient Features of the Proposal		


MEMBER SECRETARY
SEAC -TN

19

CHAIRMAN
SEAC- TN


1.	Name of the Owner/Firm	Thiru.N.Sambasivam Proprietor of M/s.N.R.S.Brick Works, : Pakkam Village, Tiruvallur Taluk, Tiruvallur District
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	: Ordinary Earth quarry
3.	S.F Nos. of the quarry site with area break-up	: 9/2, 9/3 & 9/4
4.	Village in which situated	: Ramathandalam
5.	Taluk in which situated	: Tiruvallur
6.	District in which situated	: Tiruvallur
7.	Extent of quarry (in ha.)	: 0.96.0Ha
8.	Latitude & Longitude of all corners of the quarry site	: 13°12'45.64"N to 13°12'48.67"N 79°55'18.46"E to 79°55'23.29"E
9.	Topo Sheet No.	: 57-O/16
10.	Type of mining	: Opencast Semi - Mechanized Mining
11.	Life of Project	: 1 Year
	Lease Period	: 1 Year
	Mining Plan Period	: 1 Year
12.	Mining Plan Details	: As per approved Mining Plan Ordinary Earth
	Geological Resources m ³	: 9,576m ³
	Minable Resources m ³	: 3,422m ³
	Annual Peak Production in m ³	: 3,422m ³
	Maximum Depth in meters	: 1m BGL
13.	Depth of water table	: 23m in Summer season - 18m in Rainy season
14.	Man Power requirement per day:	: 6 Employees

15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	2.0 KLD 0.5 KLD : 0.5 KLD 0.5 KLD 0.5 KLD
16.	Power requirement	: -
17.	Precise area communication approved by the Deputy Director, Department of G&M.	Na.Ka.No.391/2018/Kanimam.2, : Dated:31.08.2023
18.	Mining Plan approved by Deputy Director, Department of G&M.	Rc.No.391/2018/G&M-2, : Dated:25.09.2023
19.	500m Cluster Letter approved by the Deputy Director, Department of G&M.	Rc.No.391/2018/G&M-2, : Dated:25.09.2023
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Dated:18.07.2023
21.	Project Cost (excluding EMP cost)	: Rs.4,06,000/-
22.	EC Recommendation	: Validity 30 years subject to the following upper limits. Ordinary Earth : Max Total in m ³ 3,422m ³ : Annual Max in m ³ 3,422m ³ : Max Depth in mtrs 1m BGL
23.	EMP cost (in Rs. Lakh).	: Rs.2.24 Lakhs
24.	CER cost (in Rs. Lakh).	: Rs.2,00,000

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


MEMBER SECRETARY
SEAC -TN

21

CHAIRMAN
SEAC- TN


Annual Peak excavation quantity of not exceeding 3,422m³ of Earth with maintaining an ultimate pit depth of 1m BGL for a period of one year from the date of execution of lease 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 PP shall complete the quarrying operations within a period of 1 year from the date of execution of the lease.
2. The PP shall install the tall wind sheets around the lease boundary directing the structures located nearby and water shall be sprayed frequently so as to arrest the dust pollution.
3. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
4. The PP shall carry out the required number of plantations as committed in the EMP without deviation before obtaining the CTO from the TNPCB.
5. The PP shall not carry out drilling & blasting operations in the proposed quarry.
6. As accepted by the Project proponent the CER cost is Rs.2 Lakhs and the amount shall be spent for the Panchayat Union Middle School, Beemanthopu Village as committed, before obtaining CTO from TNPCB.

Agenda No: 428-10


(File No: 10427/2023)

Proposed Rough Stone and Gravel quarry lease over an extent of 1.68.5 Ha at S.F.No. 667(P) of Kayathar Village, Kayathar Taluk, Thoothukkudi District, Tamil Nadu by Thiru. M. Murugaiah – For Environmental Clearance.

(SIA/TN/MIN/444145/2023, Dated: 17.09.2023)

The proposal was placed for appraisal in this 428th meeting of SEAC held on 08.12.2023. 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. Murugaiah has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease over an extent


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN



of 1.68.5 Ha at S.F.No. 667(P) of Kayathar Village, Kayathar Taluk, Thoothukkudi District, Tamil Nadu.

2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 5 years. The approved mining plan is for 5 Years. The annual peak production shall not exceed 23,751 m³ of Rough Stone & 12,474 m³ of Gravel for an ultimate depth of 37m (2m Gravel & 35m Rough Stone).

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:

- i) The PP shall provide the legal & technical justifications and other details for the proposed mine lease area being worked outside the boundary.
- ii) The details of fencing & plantation activities carried out for the existing mine and proposed mine lease.
- iii) The details on the location of any structures, habitations, school/college premises, hospitals, windmills/solar panel units within a radial distance of 500 m from the mine lease boundary.

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: 428-11

(File No: 10434/2023)

Proposed Gravel quarry lease over an extent of 1.51.0 Ha at S.F.No. 295/3E of Okkarai Village, Thuraiyur Taluk, Tiruchirappalli District, Tamil Nadu by Thiru. R. Balakumar – For Environmental Clearance. (SIA/TN/MIN/442737/2023, Dated: 05.09.2023)

The proposal was placed for appraisal in this 428th meeting of SEAC held on 08.12.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).


MEMBER SECRETARY
SEAC -TN

23


CHAIRMAN
SEAC- TN

The SEAC noted the following:

1. The project proponent, Thiru. R. Balakumar has applied for Environmental Clearance for the Proposed Gravel quarry lease over an extent of 1.51.0 Ha at S.F.No. 295/3E of Okkarai Village, Thuraiyur Taluk, Tiruchirappalli District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 3 years. The approved mining plan is for 3 Years. The annual peak production shall not exceed 7298 m³ of Gravel for an ultimate depth of 2m below ground level.
4. The salient features of the proposal are as follows:

File No	10434 / 2023	Category	82 / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Thiru. R. Balakumar, S/o. Rengaraj, No.4/98, East Street, Krishnapuram Village, Okkarai, Thuraiyur Taluk, Tiruchirappalli District - 621 008.
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Gravel
3	S.F Nos. of the quarry site with area break-up	:	295/3E
4	Village in which situated	:	Okkarai
5	Taluk in which situated	:	Thuraiyur
6	District in which situated	:	Tiruchirappalli
7	Extent of quarry (in ha.)	:	1.51.0 Ha
8	Latitude & Longitude of all corners of the quarry site	:	11°12'27.74"N to 11°12'33.06"N 78°31'14.16"E to 78°31'20:63"E


MEMBER SECRETARY
SEAC - TN

24

CHAIRMAN
SEAC- TN


9	Topo Sheet No.	:	58 - I/12	
10	Type of mining	:	Opencast Mechanized Mining	
11	Life of Project	:	3 years	
	Lease Period	:	3 years	
	Mining Plan Period	:	3 years	
12	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Gravel 30,200 m ³	Gravel -
	Minable Resources m ³ (RoM)	:	Gravel 21,892 m ³	Gravel -
	Annual Peak Production in m ³	:	Gravel 7298 m ³	Gravel -
	Ultimate Depth in meters	:	2m below ground level	-
	13	Depth of water table	:	30m below ground level
14	Man Power requirement per day:	:	7 Nos.	
15	Water requirement:	:	2.5 KLD	
	1. Drinking water	:	0.5 KLD	
	2. Utilized water	:	-	
	3. Dust suppression	:	1.0 KLD	
	4. Green belt	:	1.0 KLD	
16	Power requirement	:	3650 Liters of HSD	
17	Precise area communication approved by Assistant Director, Department of G&M	:	Na.Ka.No.525/2022/Kanimam, Dated:27.06.2023	
18	Mining Plan approved by Assistant Director, Department of G&M	:	Rc.No.525/2022/Mines, Dated:27.07.2023	


MEMBER SECRETARY
SEAC -TN

25

CHAIRMAN
SEAC- TN


19	Department of G&M, Assistant Director 500m Cluster Letter	: Rc.No.525/2022/Mines, Dated:28.07.2023	
20	VAO Certificate Regarding Structures within 300m Radius	: Letter dated 18.08.2023	
21	Project Cost (excluding EMP cost)	: Rs. 8,37,000/-	
22	EC Recommendation	: Validity	30 years subject to the following upper limits.
			Gravel
		: Max Total RoM in m ³	21,892 m ³
		: Annual Max RoM in m ³	7298 m ³
		: Max Depth in mtrs	2m below ground level
23	EMP cost (in Rs. Lakh).	: Capital Cost – Rs. 16.94 lakhs Recurring Cost – Rs. 9.18 lakhs	
24	CER cost (in Rs. Lakh).	: Rs. 3,00,000/-	

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 7298 m³ of Gravel by maintaining the ultimate depth of mining upto 2m below ground level for a period of three years only from the date of lease execution 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 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.


MEMBER SECRETARY
SEAC -TN

26

CHAIRMAN
SEAC- TN


- 2) The PP shall install the tall wind sheets around the lease boundary directing the structures located nearby and water shall be sprayed frequently so as to arrest the dust pollution.
- 3) The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
- 4) The PP shall carry out the required number of plantations as committed in the EMP without deviation before obtaining the CTO from the TNPCB.
- 5) The PP shall not carry out drilling & blasting operations in the proposed quarry.
- 6) As accepted by the Project Proponent the CER cost of **Rs. 3 Lakhs** and the amount shall be spent for the activities as committed towards Adi Diravidar Welfare Elementary School, Okkarai Village, Thuraiyur Taluk, Tiruchirappalli District, before obtaining CTO from TNPCB.

Agenda No: 428-12

(File No: 10441/2023)

Proposed Black Granite quarry lease over an extent of 1.00.0 Ha at S.F.No. 407/3 (Part) of Siruvalai Village, Vikravandi Taluk, Viluppuram District, Tamil Nadu by Thiru. K. Paramasivam – For Environmental Clearance. (SIA/TN/MIN/433201/2023, Dated: 13.06.2023)

The proposal was placed for appraisal in this 428th meeting of SEAC held on 08.12.2023. 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. K. Paramasivam has applied for Environmental Clearance for the Proposed Black Granite quarry lease over an extent of 1.00.0 Ha at S.F.No. 407/3 (Part) of Siruvalai Village, Vikravandi Taluk, Viluppuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 20 years. The approved mining plan is for 5 Years. The annual peak production shall not exceed 7300 m³ ROM which includes 1460 m³ of granite recovery (@20%) & 5840 m³


MEMBER SECRETARY
SEAC -TN

27


CHAIRMAN
SEAC- TN

of granite waste (@80%) for an ultimate depth of 20m.

4. Earlier the project proponent has obtained EC from DEIAA vide Lr.No.DEIAA-VPM-TN/F.No.18015/Ec.No.02/2018 dated: 04.12.2018.

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:

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

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

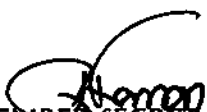
Agenda No: 428-13

(File No: 10448/2023)

Proposed Quartz quarry lease over an extent of 1.09.0 Ha at S.F.Nos. 123/1, 123/2 and 124/2 of Ulimaranapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by M/s. Nova Minerals – For Environmental Clearance. (SIA/TN/MIN/445848/2023, Dated: 03.10.2023)

The proposal was placed for appraisal in this 428th meeting of SEAC held on 08.12.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). **The SEAC noted the following:**

1. The project proponent, M/s. Nova Minerals has applied for Environmental Clearance for the Proposed Quartz quarry lease over an extent of 1.09.0 Ha at S.F.Nos. 123/1, 123/2 and 124/2 of Ulimaranapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 10 years. The approved mining plan is for 5 Years. The annual peak production shall not exceed


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN



9945 M.T ROM which includes 5967 M.T of Quartz Recovery (@60%) & 3978 M.T of Mineral Rejects (@40%) for an ultimate depth of 10m below ground level.

4. Cauvery North Wildlife Sanctuary is located at a distance of 2.15 km, West from the mine lease area.
5. DFO letter vide Na.Ka.No. 212/2023/L, Dated: 25.01.2023
6. The salient features of the proposal are as follows:

File No	10448 / 2023	Category	B2 / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	M/s. Nova Minerals, M-34, Avalapalli Hudco, TNHB, Phase VI, Bagalur Road, Hosur, Krishnagiri District - 636 109.	
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	Quartz	
3	S.F Nos. of the quarry site with area break-up	123/1, 123/2 and 124/2	
4	Village in which situated	Ulimaranapalli	
5	Taluk in which situated	Denkanikottai	
6	District in which situated	Krishnagiri	
7	Extent of quarry (in ha.)	1.09.0 Ha	
8	Latitude & Longitude of all corners of the quarry site	12°38'35.34"N to 12°38'42.50"N 77°40'03.16"E to 77°40'06.66"E	
9	Topo Sheet No.	58 - H/10	
10	Type of mining	Opencast Mechanized Mining	
11	Life of Project	10 years	
	Lease Period	10 years	
	Mining Plan Period	5 years	
12	Mining Plan Details	As per approved Mining Plan	As modified by SEAC


MEMBER SECRETARY
SEAC -TN

29


CHAIRMAN
SEAC- TN

		Quartz	Quartz
	Geological Resources M.T (RoM)	80,847 M.T ROM which includes 48,508 M.T of Quartz Recovery (@60%) & 32,339 M.T of Mineral Rejects (@40%)	-
		Quartz	Quartz
	Minable Resources M.T (RoM)	58,172 M.T ROM which includes 34,903 M.T of Quartz Recovery (@60%) & 23,269 M.T of Mineral Rejects (@40%)	-
		Quartz	Quartz
	Annual Peak Production in M.T	9945 M.T ROM which includes 5967 M.T of Quartz Recovery (@60%) & 3978 M.T of Mineral Rejects (@40%)	-
	Ultimate Depth in meters	10m below ground level	7m below ground level
13	Depth of water table	40m-45m	
14	Man Power requirement per day:	15 Nos.	
15	Water requirement:	3.5 KLD	

	1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	0.5 KLD 1.0 KLD 1.0 KLD 1.0 KLD	
16	Power requirement	: TNEB	
17	Precise area communication approved by Additional Chief Secretary to Government, Industries, Investment Promotion & Commerce (MMC.1) Department	: Letter No.4077517/MMC.1/2023-1, Dated: 12.04.2023	
18	Mining Plan approved by Additional Director, Directorate of G&M	: Rc.No.6162/MM7/2022, Dated:21.08.2023	
19	Department of G&M, Deputy Director 500m Cluster Letter	: Roc.No.834/2019/Mines, Dated:21.09.2023	
20	VAO Certificate Regarding Structures within 300m Radius	: Letter dated 15.09.2023	
21	Project Cost (excluding EMP cost)	: Rs. 43,46,000/-	
22	EC Recommendation	: Validity	30 years subject to the following upper limits.
		: Max Total RoM in M.T	Quartz 41,340 M.T ROM which includes 24,804 M.T of Quartz Recovery (@60%) & 16,536


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


			M.T of Mineral Rejects (@40%)
		Annual Max RoM in M.T	9945 M.T ROM which includes 5967 M.T of Quartz Recovery (@60%) & 3978 M.T of Mineral Rejects (@40%)
		Max Depth in mtrs	7m below ground level
23	EMP cost (in Rs. Lakh).	Capital Cost – Rs. 29.32 lakhs Recurring Cost – Rs. 11.47 lakhs	
24	CER cost (in Rs. Lakh).	Rs. 5,00,000/-	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 9945 M.T ROM which includes 5967 M.T of Quartz Recovery (@60%) & 3978 M.T of Mineral Rejects (@40%) by maintaining the ultimate depth of mining upto 7m below ground level and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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

- 3) The PP shall install the tall wind sheets around the lease boundary directing the structures located nearby and water shall be sprayed frequently so as to arrest the dust pollution.
- 4) The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
- 5) The PP shall carry out the required number of plantations as committed in the EMP without deviation before obtaining the CTO from the TNPCB.
- 6) The PP shall ensure that the waste should be dumped at designated site as per approved Mining Plan on nonmineralized land within lease area or outside lease area at land provided by district authority or occupied by the lessee, STP/Quarry License holder. The height of the dump shall be as per the approved mining plan and toe of the dump should have retaining wall.
- 7) The PP shall ensure that the Drills shall either be operated with dust extractors or equipped with water injections system.
- 8) The PP shall ensure that the Regular water sprinkling should be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul roads, loading and unloading points and transfer points.
- 9) The PP shall carry out Initial Medical Examination and Periodic Medical Examination for the persons to be employed accordingly before the execution of the lease, in the Occupational Health Medical centers duly approved by the Directorate General of Mines Safety, Dhanbad.
- 10) The PP shall **annually** carry out an Occupational Health Survey (OHS) includes free silica test, **in accordance with the guidelines & period of examination laid in the DGMS (Tech.) (S&T) Circular No. 01 of 2011**, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952 by actively involving State Government officials and Non-Government Organizations (NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


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.

- 11) The PP shall carry out only the mild blasting operation to loosen the ground using NONEL initiation system only for the proposed quarrying operation.
- 12) The PP shall furnish the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling & blasting, excavation, transportation and green belt development, to the concerned AD (Mines) at the time of lease execution.
- 13) The PP shall not employ any external agency for carrying out the blasting operation in the proposed quarry and he shall also install the temporary (or) permanent magazine approved by the concerned licensing authority **before the execution of the lease**, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 14) 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.
- 15) The PP shall carry out the backfilling of the mined out void area with the waste excavated from the quarrying operation simultaneously for developing suitable plantation as indicated in the EMP.
- 16) As accepted by the Project Proponent, **Rs. 5 Lakhs** shall be included in the EMP and the amount shall be spent towards conservation measures for Cauvery North Wildlife Sanctuary in consultation with the concerned DFO, before obtaining CTO from TNPCB.
- 17) As accepted by the Project Proponent the CER cost of **Rs. 5,00,000** and the amount shall be spent for the activities as committed towards Panchayat Union Primary School, Gummalapuram Village, Denkanikottai Taluk, Krishnagiri District before obtaining CTO from TNPCB.

Agenda No: 428 - 14

(File No: 10421/2023)

Proposed Gravel quarry lease over an extent of 4.99.0ha S.F.No.158 (Part) of Vempangudi Village, Sivagangai Taluk and Sivagangai District, Tamil Nadu by Thiru. P. Thangapandian- For Environmental Clearance. (SIA/TN/MIN/445222/2023, dated: 21.09.2023)

The proposal was placed in 428th SEAC Meeting held on 08.12.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.P.Thangapandian has applied for Environmental Clearance for the proposed Gravel quarry lease over an extent of 4.99.0ha S.F.No.158 (Part) of Vempangudi Village, Sivagangai Taluk and Sivagangai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication has been issued to grant the lease for a period of 3 Year. The approved mining plan is also prepared accordingly for the period of 3 Year with the production quantity of not to exceed 34784m³ of Gravel and the depth of mining is 1.5m BGL.

Salient features of the proposed project activity:

Sl. No	Details of the Proposal	:	Data Furnished
1.	Name of the Owner/Firm	:	Thiru.P.Thangapandian S/o.Pandian, No.4/77C, Kattunedunkulam, Sundaranadappu, Sivangagai Taluk and District - 630561.


MEMBER SECRETARY
SEAC -TN

35

CHAIRMAN
SEAC- TN


2.	Type of quarrying (Savudu/Rough Stone/ Sand/ Granite)	:	Gravel
3.	S.F No. Of the quarry site with area break-up	:	158 (Part)
4.	Village in which situated	:	Vempangudi
5.	Taluk in which situated	:	Sivagangai
6.	District in which situated	:	Sivagangai
7.	Extent of quarry (in ha.)	:	4.99.0ha
8.	Latitude & Longitude of all corners of the quarry site	:	09°46'43.23"N to 09°46'53.11"N 78°29'18.07"E to 78°29'28.98"E
9.	Topo Sheet No.	:	58 - K/ 05
10.	Type of mining		Open cast Mechanized method of mining
11.	Period of quarrying proposed	:	3 Years
12.	Production (Quantity in m ³)	:	34784m ³ of Gravel
13.	Depth of quarrying	:	1.5m BGL
14.	Depth of water table	:	47m-42m
15.	Man Power requirement per day:		10 Nos
16.	Source of Water Requirement		Water Vendors
17.	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt &Wet Drilling (in KLD)	:	2.0KLD 0.6 KLD 0.2 KLD 0.7 KLD
18.	Power requirement a. Domestic Purpose		TNEB

b. Industrial purpose		
19.	Whether any habitation within 300m distance	: No
20.	Precise area communication approved by the, Assistant Director, Department of Geology and Mining with date	: Na.Ka.No.224/Kanimam/2022, dt: 25.07.2023
21.	Mining Plan approved by Deputy Director, Department of Geology and Mining with date	: Rc.No.224/Mines/2022, Dt:10.08.2023
22.	Deputy Director, Department of Geology and Mining 500m cluster letter	: Rc.No.224/Mines/2022, Dt: 22.08.2023
23.	Assistant Director, Department of Geology and Mining in regard to Rivers, Streams, Canals, etc & protected areas letter	: Rc.No.1046/2021/Mines, Dt: 10.02.2023
24.	Soil Test Report	: Lr. Dt:16.07.2023 from Division of National Institute of Technology, Thiruchirappalli-15 department of Civil Engineering
25.	VAO certificate regarding 300m radius cluster	: Letter dt:24.08.2023
26.	DFO letter	: DFO, Lr.Na.Ka.No.4629/2022/V, Dt:29.08.2022
27.	Project Cost (excluding EMP cost)	: Rs.28.04 Lakhs
28.	EMP cost	: Rs.3.0 Lakhs
29.	CER cost	: Rs.0.55 Lakhs

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


MEMBER SECRETARY
SEAC -TN

37

CHAIRMAN
SEAC- TN


decided to recommend the proposal for the grant of **Environmental Clearance** for the period of **3 Years** and the quantity shall not exceed **34,784 Cu.m** of Gravel and the depth of mining up to **1.5m BGL** for a period of three years from the date of lease execution subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. 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.
2. The PP shall install the tall wind sheets around the lease boundary directing the structures located nearby and water shall be sprayed frequently so as to arrest the dust pollution.
3. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
4. The PP shall carry out the required number of plantations as committed in the EMP without deviation before obtaining the CTO from the TNPCB.
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. 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.
7. As accepted by the Project proponent the CER cost is Rs. **2 lakhs** and the amount shall be spent for the Panchayat Union Primary School-Veppangudi Village, Sivangai District as committed, before obtaining CTO from TNPCB.

Agenda No: 428 - 15

(File No: 10428/2023)

Proposed Gravel quarry lease over an extent of 4.05.0ha at S.F.No.576/2A in Jeyamangalam Bit-I Village, Periyakulam Taluk, Theni District, Tamil Nadu by Thiru.S.Sivaram - For Environmental Clearance. (SIA/TN/MIN/444370/2023, dated:14.09.2023)


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN



The proposal was placed in 428th SEAC Meeting held on 08.12.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.S.Sivaram has applied for Environmental Clearance for the proposed Gravel quarry lease over an extent of 4.05.0ha at S.F.No.576/2A in Jeyamangalam Bit-I Village, Periyakulam Taluk, Theni District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication has been issued to grant the lease for a period of 3 Year. The approved mining plan is also prepared accordingly for the period of 3 Year with the production quantity of not to exceed 49486m³ of Gravel and the depth of mining is 2m BGL.

Salient features of the proposed project activity:

Sl. No	Details of the Proposal	:	Data Furnished
1.	Name of the Owner/Firm	:	Thiru.S.Sivaram S/o. Subburaj, No. 22. Thathaiyan Street, Bommaiyagoundanpatti, Theni District
2.	Type of quarrying (Savudu/Rough Stone/ Sand/ Granite)	:	Gravel
3.	S.F No. Of the quarry site with area break-up	:	576/2A
4.	Village in which situated	:	Jeyamangalam Bit-I
5.	Taluk in which situated	:	Periyakulam


MEMBER SECRETARY
SEAC -TN

39


CHAIRMAN
SEAC- TN

6.	District in which situated	:	Theni
7.	Extent of quarry (in ha.)	:	4.05.0ha
8.	Latitude & Longitude of all corners of the quarry site	:	10°05'17.24"N to 10°05'23.20"N 77°35'41.62"E to 77°35'53.27"E
9.	Topo Sheet No.	:	58 - F/ 12
10.	Type of mining		Opencast method of Shallow mining
11.	Period of quarrying proposed	:	3 Years
12.	Production (Quantity in m ³)	:	49486m ³ of Gravel
13.	Depth of quarrying	:	2m BGL
14.	Depth of water table	:	25m-20m
15.	Man Power requirement per day:		8 Nos
16.	Source of Water Requirement		Water Vendors
17.	Water requirement: 3. Drinking & domestic purposes (in KLD) 4. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	1.0 KLD 0.2 KLD 0.4 KLD 0.4 KLD
18.	Power requirement c. Domestic Purpose d. Industrial purpose		TNEB
19.	Whether any habitation within 300m distance	:	No
20.	Precise area communication approved by the, Assistant Director, Department of Geology and Mining with date	:	Na.Ka.No.1046/Kanimam/2021, dt: 06.02.2023
21.	Mining Plan approved by Assistant Director, Department	:	Rc.No.1046/2021/Mines. Dt: 10.02.2023


MEMBER SECRETARY
SEAC -TN

40

CHAIRMAN
SEAC- TN


	of Geology and Mining with date		
22.	Assistant Director, Department of Geology and Mining 500m cluster letter	:	Rc.No.1046/2021/Mines. Dt: 10.02.2023
23.	Assistant Director, Department of Geology and Mining in regard to Rivers, Streams, Canals, etc & protected areas letter	:	Rc.No.1046/2021/Mines. Dt: 10.02.2023
24.	Soil Test Report	:	Lr. Dt:06.07.2023 from Division of Soil Mechanics and Foundation Engineering, Dept. of Civil Engineering, College of Engineering Guindy Campus, Anna university Chennai
25.	VAO certificate regarding 300m radius cluster	:	Letter dt: 15.04.2023
26.	Project Cost (excluding EMP cost)	:	Rs.459.23 Lakhs
27.	EMP cost	:	Rs.2.90 Lakhs
28.	CER cost	:	Rs.9.19 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the **grant of Environmental Clearance for the period of 3 Years and the quantity shall not exceed 49,486 Cu.m of Gravel and the depth of mining up to 2m BGL for a period three years from the date of lease execution subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:**


1. 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


MEMBER SECRETARY
SEAC -TN


41


CHAIRMAN
SEAC- TN

- furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
2. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
 3. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
 4. The PP shall install the tall wind sheets around the lease boundary directing the structures located nearby and water shall be sprayed frequently so as to arrest the dust pollution.
 5. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
 6. The PP shall carry out the required number of plantations as committed in the EMP without deviation before obtaining the CTO from the TNPCB.
 7. The PP shall not carry out drilling & blasting operations in the proposed quarry.
 8. 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.
 9. The PP shall install a bio-toilet for the convenience of the workmen before obtaining the CTO from the TNPCB.
 10. 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.
 11. As accepted by the Project proponent the CER cost is Rs. **2 Lakhs** and the amount shall be spent for the Panchayat Union Primary School, Jayamangalam, Theni District as committed, before obtaining CTO from TNPCB.
 12. In addition to that as committed by the PP, an amount of Rs. 2 Lakhs shall be spent towards the conservation measures of Kodaikanal Wildlife Sanctuary in


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN



consultation with the concerned DFO and the same shall be included in the EMP.

Agenda No: 428-16

(File No: 10254/2023)

Proposed Rough Stone and Gravel Quarry over an extent of 2.90.0 Ha at S.F.Nos.750/1(P), 752/1, 752/2 of Ayyanaruthu Village, Kayathar Taluk, Thoothukudi District, Tamil Nadu by Thiru.K.Karuppasamy - For Environmental Clearance. (SIA/TN/MIN/437012/2023, Dated:21.07.2023)

The proposal was placed in the 428th Meeting of SEAC held on 08.12.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.K.Karuppasamy has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry over an extent of 2.90.0 Ha at S.F.Nos.750/1(P), 752/1, 752/2 of Ayyanaruthu Village, Kayathar Taluk, Thoothukudi District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the proposed project as follows

File No	10254	Category	"B2" 1(a)
	SIA/TN/MIN/437012/2023, Dated:21.07.2023		EC
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.k.karuppasamy s/o. karuppasamy, No:3/4A, Sannadhuputhukudi village, Kayathar Taluk, Thoothukudi District, Pin code-627 352.


MEMBER SECRETARY
SEAC -TN

43

CHAIRMAN
SEAC- TN


2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	750/1(P), 752/1, 752/2	
4.	Village in which situated	:	Ayyanaruthu	
5.	Taluk in which situated	:	Kayathar	
6.	District in which situated	:	Thoothukudi	
7.	Extent of quarry (in ha.)	:	2.90.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	08°55'56.65"N to 08°56'02.32"N 77°44'33.52"E to 77°44'40.02"E	
9.	Topo Sheet No.	:	58-H/09	
10.	Type of mining	:	Opencast Semi mechanized Mining	
11.	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Rough Stone – 13,03,200 m ³	Rough Stone – 13,03,200 m ³
		:	Gravel – 57,920 m ³	Gravel – 57,920 m ³
	Mirable Resources m ³ (RoM)	:	Rough Stone – 4,57,050 m ³	Rough Stone – 4,57,050 m ³
		:	Gravel – 47,270 m ³	Gravel – 47,270 m ³


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


	Annual Peak Production in m ³	:	Rough Stone – 92,980 m ³	Rough Stone – 92,980 m ³
			Gravel – 38,860 m ³	Gravel – 38,860 m ³
	Ultimate Depth in meters	:	47m BGL	
13.	Depth of water table	:	65m BGL	
14.	Man Power requirement per day:	:	33Nos.	
15.	Water requirement: 1. Drinking water & Domestic 2. Dust suppression 3. Green belt	:	6.0KLD 2.0KLD 2.5KLD 1.5KLD	
16.	Power requirement	:	TNEB- 3,73,528 Liters of HSD	
17.	Precise area communication approved by the Joint Director / Assistant Director(i/c), Department of Geology and Mining	:	Rc.No. G.M.1/160/2023 Dated; 06.06.2023	
18.	Mining Plan approved by Joint Director / Assistant Director(i/c), Department of Geology and Mining	:	Rc.No. G.M.1/160/2023 Dated; 22.06.2023	
19.	Joint Director / Assistant Director(i/c), Department of Geology and Mining, 500m Cluster Letter	:	Rc.No. G.M.1/160/2023 Dated; 22.06.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 15.06.2023	


MEMBER SECRETARY
SEAC -TN

45

CHAIRMAN
SEAC- TN


21.	Project Cost (excluding EMP cost)	:	Rs. 92,40,000/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
			Max Total	4,57,05	47,270
			RoM in m ³	0 m ³	m ³
:	Annual Max	RoM in m ³	92,980	38,860	
			m ³	m ³	
:	Ultimate Depth in mtrs	47m BGL			
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 37.70 lakhs recurring cost – Rs. 35.25 lakhs/annum		
24.	CER cost (in Rs. Lakh).	:	Rs. 10,00,000 /- as accepted by the PP		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 92,980 m³ of rough stone & 38,860 m³ of Gravel by maintaining the ultimate depth of mining upto 47m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN



within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.

3. The PP shall ensure that adequate green plantation is developed as proposed in the EMP 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. **Since the structures are situated within a radial distance of 500 m**, the PP shall carry out the scientific studies **within a period of six months** from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
6. The PP shall 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.
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 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


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 ensure that the transport of materials shall not be carried out during school hours from 8AM-10AM and during 3PM -5PM (or as specified by the school administration).
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 accepted by the Project Proponent the CER cost of **Rs. 10.0 Lakhs** and the amount shall be spent for the activities as committed towards Panchayat Primary School, Ayyanaruthu Village before obtaining CTO from TNPCB.

Agenda No: 428-17

(File No: 10450/2023)

Proposed Rough Stone and Gravel Quarry over an extent of 1.73.0 Ha at S.F.Nos.57/2A, 57/2B & 57/3 of Adavanapalli Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by M/s. Stonemark Engineering Private Ltd -For Environmental Clearance. (SIA/TN/MIN/446619/2023, Dated:02.10.2023).

The proposal was placed in the 428th Meeting of SEAC held on 08.12.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Stonemark Engineering Private Ltd has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry over an extent of 1.73.0 Ha at S.F.Nos.57/2A, 57/2B & 57/3 of Adavanapalli Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the proposed project as follows


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN



File No	10450		Category	"B2" 1(a)
	SIA/TN/MIN/446619/2023, Dated:02.10.2023			EC
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	M/s. Stonemark Engineering Private Ltd, No.63B-72, Adavanapalli, Near Venkatesapuram Village, Hosur Taluk, Krishnagiri District, Pin Code-635109.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	57/2A, 57/2B & 57/3	
4.	Village in which situated	:	Adavanapalli	
5.	Taluk in which situated	:	Hosur	
6.	District in which situated	:	Krishnagiri	
7.	Extent of quarry (in ha.)	:	1.73.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°45'22.74"N to 12°45'30.46"N 77°55'38.68"E to 77°55'43.71"E	
9.	Topo Sheet No.	:	57- H/13	
10.	Type of mining	:	Opencast Semi mechanized Mining	
11.	Life of Project	:	10 years	
	Lease Period	:	10 years	
	Mining Plan Period	:	10 years	


MEMBER SECRETARY
SEAC - TN

49


CHAIRMAN
SEAC- TN

	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
12.	Geological Resources m ³ (RoM)	:	Rough Stone – 6,22,656 m ³	Rough Stone – 6,22,656 m ³
		:	Gravel – 34,592 m ³	Gravel – 34,592 m ³
	Mirable Resources m ³ (RoM)	:	Rough Stone – 2,16,216 m ³	Rough Stone – 2,16,216 m ³
		:	Gravel – 25,384 m ³	Gravel – 2,5384 m ³
	Annual Peak Production in m ³	:	Rough Stone – 45,864 m ³	Rough Stone – 45,864 m ³
		:	Gravel – 9880 m ³	Gravel – 9880 m ³
	Maximum Depth in meters	:	32m BGL	
13.	Depth of water table	:	60m BGL - 65m BGL	
14.	Man Power requirement per day:	:	19 Nos.	
15.	Water requirement:			
	4. Drinking water & Domestic	:	4.0KLD	
	5. Dust suppression & Green belt	:	1.55KLD	2.45KLD
16.	Power requirement	:	-	
17.	Precise area communication approved by the Joint Director / Assistant	:	Rc.No. 304/2023/Mines Dated: 07.08.2023	


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN



	Director(i/c), Department of Geology and Mining																	
18.	Mining Plan approved by Joint Director / Assistant Director(i/c), Department of Geology and Mining	:	Rc.No. 304/2023/Mines 2019 Dated; 13.09.2023															
19.	Joint Director / Assistant Director(i/c), Department of Geology and Mining, 500m Cluster Letter		Rc.No. 304/2023/Mines 2019 Dated; 21.09.2023															
20.	VAO Certificate Regarding Structures within 300m Radius		Letter Dated: 26.09.2023															
21.	Project Cost (excluding EMP cost)	:	Rs. 70,53,355/-															
22.	EC Recommendation	:	<table border="1"> <tr> <td>Validity</td> <td colspan="2">30 years subject to the following upper limits.</td> </tr> <tr> <td></td> <td>Rough Stone</td> <td>Gravel</td> </tr> <tr> <td>Max Total RoM in m³</td> <td>2,08,800 m³</td> <td>25,384 m³</td> </tr> <tr> <td>Annual Max RoM in m³</td> <td>45,864 m³</td> <td>9880 m³</td> </tr> <tr> <td>Ultimate Depth in mtrs</td> <td colspan="2">32m BGL</td> </tr> </table>	Validity	30 years subject to the following upper limits.			Rough Stone	Gravel	Max Total RoM in m ³	2,08,800 m ³	25,384 m ³	Annual Max RoM in m ³	45,864 m ³	9880 m ³	Ultimate Depth in mtrs	32m BGL	
Validity	30 years subject to the following upper limits.																	
	Rough Stone	Gravel																
Max Total RoM in m ³	2,08,800 m ³	25,384 m ³																
Annual Max RoM in m ³	45,864 m ³	9880 m ³																
Ultimate Depth in mtrs	32m BGL																	
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 37.91 lakhs recurring cost – Rs. 17.52 lakhs/annum															
24.	CER cost (in Rs. Lakh).	:	Rs. 5,10,000 /- as accepted by the PP															


MEMBER SECRETARY
SEAC -TN

51

CHAIRMAN
SEAC- TN

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 45,864m³ of rough stone & 9880 m³ of Gravel by maintaining the ultimate depth of mining upto 32m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall 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.
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 shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters initially for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations, and subsequently with proper validation of the design through trial blasts in the proposed quarry after obtaining the prior permission from the DMS / Chennai Region in accordance with DGMS Circular No. 7 of 1997, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining &


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


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

5. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
6. The PP shall ensure that the transport of materials shall not be carried out during school hours from 8AM-10AM and during 3PM -5PM (or as specified by the school administration).
7. 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.
8. The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
9. 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


MEMBER SECRETARY
SEAC -TN

53

CHAIRMAN
SEAC- TN



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

10. The PP shall make necessary arrangements before obtaining the CTO from TNPCB for installing the water mist spraying equipments around the existing crusher area to arrest the propagation of airborne dust into the surroundings.
11. As accepted by the Project Proponent the CER cost of **Rs. 5,10,000/-** and the amount shall be spent for the activities as committed towards Panchayat Union Primary School, Venkatesapuram Village before obtaining CTO from TNPCB.

Agenda No: 428 - 18

(File No: 10127/2023)

Proposed Multi Colour Granite Quarry lease over an extent of 2.02.4 Ha at S.F.No.688/1,689,692(Part) & 693 in Karikali Village, Vedasanthur Taluk, Dindigul District, Tamil Nadu by M/s. Elephant Granites – For Environment Clearance. (SIA/TN/MIN/433173/2023 dt 13.06.2023)

The proposal was earlier placed in the 401st meeting of SEAC held on 16.08.2023. The Project Proponent gave a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, M/s. Elephant Granites has applied seeking Environment Clearance for the Proposed Multi Colour Granite Quarry lease over an extent of 2.02.4 Ha at S.F.No.688/1,689,692(Part) & 693 in Karikali Village, Vedasanthur Taluk, Dindigul District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category “B2” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006, as amended.
3. DEIAA EC Lr. No. DEIAA/DGL/EC. No. 053/2017 dated 15.12.2017

On perusal of the documents furnished by the Proponent, the SEAC noted that the


MEMBER SECRETARY
SEAC -TN

54

CHAIRMAN
SEAC- TN


project site is located within 10km distance from the Kadavur Slender Loris Sanctuary. Para (3) sub para(ii) of the MoEF&CC O.M. F.No. 6-60/2020WL Part (1) dated 16.07.2020 states that,

- ii. Proposals involving activity/project located within 10Km of National Park/Wildlife Sanctuary wherein ESZ has not been finally notified and listed in the Schedule of the EIA Notification 2006 and requiring environment clearance, prior clearance from Standing Committee of the National Board for Wild Life will be required.

The Committee directed the Project proponent to furnish NBWL Clearance for the proposed project activity and CCR from the competent Authority for the existing quarry. On receipt of the additional particulars sought the Committee will further deliberate and decide on future course of action.

Now the PP has furnished the CCR obtained from IRO(SZ), MoEF&CC vide Lr. No. EP/12.1/2023-24/SEIAA/90/TN/1184 dated 26.10.2023. Hence the subject was placed in this 428th meeting of SEAC held on 08.12.2023. The SEAC noted that the PP has still not obtained the NBWL clearance sought by the SEAC. Hence the SEAC directed the project proponent to furnish the same. On receipt of the additional particulars sought the Committee will further deliberate and decide on future course of action.


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

Agenda No: 428 - 19

(File No: 10430/2023)

Proposed Rough stone quarry lease over an extent of 1.00.0 Ha at S.F.No. 36/1(Part), in Thekkalpatti Village, Valapadi Taluk, Salem District, Tamil Nadu by Thiru. R. Murugan - Environment Clearance. (SIA/TN/MIN/443195/2023 dt: 06/09/2023)

The proposal was placed in this 428th meeting of SEAC held on 08.12.2023. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).


MEMBER SECRETARY
SEAC -TN

55

CHAIRMAN
SEAC- TN


The SEAC noted the following:

1. The Project Proponent, Thiru. R. Murugan has applied seeking Environment Clearance for the Proposed Rough stone and Gravel lease for over an extent of 1.00.0 Ha at S.F.No. 36/1(Part), in Thekkalpatti Village, Valapadi Taluk, Salem District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. Manual method of mining has been approved in the mining plan.

File No	10430		Category	B2
	SIA/TN/MIN/443195/ 2023 dt: 06/09/2023			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. R. Murugan Chairman, Mettupatti Boyar Kal Ottarkal Kal Udaippor Welfare Association, Mettupatti Boyar Street, Valapadi Taluk, Salem District-636111	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/ Limestone)	:	Rough Stone	
3.	S.F Nos. of the quarry site with area break-up	:	S.F.No.36/1(Part)	
4.	Village in which situated	:	Thekkalpatti Village	
5.	Taluk in which situated	:	Valapadi Taluk	
6.	District in which situated	:	Salem District	
7.	Extent of quarry (in ha.)	:	1.00.0 Ha -Government Land	
8.	Latitude & Longitude of all corners of the quarry site	:	11°33'42.18"N to 11°33'46.15"N 78°20'31.75"E to 78°20'35.61"E	

MEMBER SECRETARY
SEAC -TN

56

CHAIRMAN
SEAC- TN

9.	Topo Sheet No.	:	58 I/06
10.	Type of mining	:	Manual method of 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 ³ (RoM)	:	Rough Stone – 348340 m ³
	Minable Resources in m ³ (RoM)	:	Rough Stone – 116560 m ³
	Annual Peak Production in m ³	:	Rough Stone – 13865m ³
	Maximum Depth in meters	:	42m (12m AGL + 30m BGL)
13.	Depth of water table	:	80-85 m
14.	Man Power requirement per day:	:	25 Nos.
15.	Water requirement:	:	2.0 kLD
	1. Drinking & domestic purposes (in kLD)	:	1.0 kLD 0.5 kLD
	2. Dust suppression, Green Belt & Wet Drilling (in kLD)	:	0.5 kLD
16.	Power requirement	:	TNEB & DG set 94178 Litre of HSD will be utilized for entire project life.
17.	Precise area communication approved by Dept. of Geology & Mining	:	Roc.No.1055/2019/Mines-A Dt:03.04.2023.


MEMBER SECRETARY
SEAC -TN

57

CHAIRMAN
SEAC- TN



18.	Mining Plan approved by Dept. of Geology & Mining	:	Roc.No.1055/2019/Mines-A Dt:24.04.2023.		
19.	500m Cluster Letter issued by Dept. of Geology & Mining	:	Roc.No.1055/2019/Mines-B Dt:26.06.2023.		
20.	VAO Certificate regarding Structures within 300m Radius	:	Letter Dated:26.06.2023.		
21.	Project Cost (excluding EMP cost)	:	Rs.1,01,85,000/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits	
				Rough Stone	Gravel
			Annual Max RoM in m ³	13865	-
Ultimate Depth of working in meters	42m (12m AGL + 30m BGL)				
23.	Total EMP cost (in Rs. Lakh).	:	Capital Cost - Rs.7,97,000/- Recurring Cost – 8,52,300/- (5%Inflation in every year) Total EMP Cost Rs.1,19,15,638/-		
24.	CER cost (in Rs. Lakh).	:	5.0 Lakh as accepted by the PP		

Assessing the impact of the project activity on the surrounding environment and the adequacy of EMP measures proposed in the PFR, presentation and other documents furnished by the project proponent. SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak RoM production capacity not exceeding 13865 m³ of Rough stone by maintaining the ultimate working depth of 42m (12m AGL + 30m BGL) by manual method only, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC.


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN



in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. **The PP shall not carry out the blasting operations as it was indicated as manual mining operation during the appraisal.** Hence, the **PP shall not carry out the drilling and blasting operations** at any point of time during the lease period and **it shall be ensured** during the field inspection & **recorded in a bound paged book maintained for the purpose** by the concerned AD (Mines) without deviation.
3. 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 six months 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
4. The proponent shall provide the particulars for carrying out the plantation of 700 Nos. of tall saplings of native species within and outside the proposed mining area as committed before obtaining CTO from TNPCB.
5. For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving anyone of the reputed


MEMBER SECRETARY
SEAC -TN

59

CHAIRMAN
SEAC- TN


- Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
6. PP shall plan and allocate fund to ensure the occupational health & safety of all contract and casual workers. Details of exposure specific health status evaluation of workers shall be maintained.
 7. For securing the health & safety of persons employed in the mine, the PP shall carry out the Periodical Medical Examination (PME) for the persons employed in the mine as per the Mines Rules 1955.
 8. The PP shall construct the welfare amenities such as Rest shelter, Toilets, etc as per the design stipulated vide DGMS Circular No. 25/1972 under the Rule 62 of Mines Rules 1955, for the persons employed in the quarry before obtaining the CTO from the TNPCB.
 9. As accepted by the Project Proponent the CER cost of **Rs.5 Lakh** for the committed activities at the P.U.P, School, Thekkalpatty, Valappady Taluk, Salem District, before obtaining CTO from TNPCB.

Agenda No: 428 - 20

(File No: 10451/2023)

Proposed Rough stone and Gravel lease over an extent of 1.17.0 Ha at S.F.No. 2/1B(P), 1C(P), 17/1(P), 3(P) & 18/2(P), in Sarkar Nattamangalam Village, Namakkal Taluk, Namakkal District, Tamil Nadu by Thiru. R. Prakasam - Environment Clearance. (SIA/TN/MIN/431024/2023 dt: 26/05/2023)

The proposal was placed in this 427th meeting of SEAC held on 07.12.2023. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. R. Prakasam has applied seeking Environment Clearance for the Proposed Rough stone and Gravel lease for over an extent


MEMBER SECRETARY
SEAC -TN

60

CHAIRMAN
SEAC- TN


of 1.17.0 Ha at S.F.No. 2/1B(P), 1C(P), 17/1(P), 3(P) & 18/2(P), in Sarkar Nattamangalam Village, Namakkal Taluk, Namakkal District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. DEIAA EC. Lr. No. DEIAA-NMK-TN/F.259/Mines/04/EC.No.03/2018 dated 03.08.2018 for mining 121320 cbm of Rough stone and 16660 cbm of Gravel up to a depth of 42m subject to the conditions stated therein.
4. AD/Mines has reported presence of existing pit with a depth of 22m at the project site.

Based on the presentation and documents furnished by the project proponent, SEAC directed the Project Proponent to furnish the following additional details/documents:

The Committee directed the Project proponent to furnish the Certified Compliance Report obtained from the competent authority for the existing quarry. On receipt of the additional particulars sought the Committee will further deliberate and decide on future course of action. The proponent is advised to submit the above-mentioned details within a period of 30 days failing which the proposal will be automatically delisted from the PARIVESH Portal.


MEMBER SECRETARY
SEAC -TN

61

CHAIRMAN
SEAC- TN



ANNEXURE-I

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

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

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


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


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.


MEMBER SECRETARY
SEAC -TN

64

CHAIRMAN
SEAC- TN


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


MEMBER SECRETARY
SEAC -TN

65

CHAIRMAN
SEAC- TN


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

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

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


MEMBER SECRETARY
SEAC -TN

67

CHAIRMAN
SEAC- TN


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.


MEMBER SECRETARY
SEAC -TN

68

CHAIRMAN
SEAC- TN



- 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.


MEMBER SECRETARY
SEAC - TN

69

CHAIRMAN
SEAC- TN


- 17) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 18) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 19) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 20) Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
- 21) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 22) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN



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.


MEMBER SECRETARY
SEAC -TN

71

CHAIRMAN
SEAC- TN



- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 32) To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 33) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 36) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


- 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.


MEMBER SECRETARY
SEAC -TN


73

CHAIRMAN
SEAC- TN


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.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

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.


 MEMBER SECRETARY
 SEAC -TN

75

CHAIRMAN
 SEAC- TN



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.

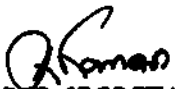
6. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall 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.


MEMBER SECRETARY
SEAC -TN

77

CHAIRMAN
SEAC- TN


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


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

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.


MEMBER SECRETARY
SEAC -TN

79

CHAIRMAN
SEAC- TN


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


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


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


MEMBER SECRETARY
SEAC -TN

81

CHAIRMAN
SEAC- TN


compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.

42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.

43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

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


MEMBER SECRETARY
SEAC -TN

83

CHAIRMAN
SEAC- TN


Department shall be obtained, as applicable, by project proponents from the respective competent authorities.

9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

2. Air quality monitoring and preservation:

1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
3. The project proponent shall install a system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM25) covering upwind and downwind directions during the construction period.
4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
5. Sand, murrum, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.
6. Wet jet shall be provided for grinding and stone cutting.

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

3. Water Quality Monitoring and Preservation:

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


MEMBER SECRETARY
SEAC -TN

85

CHAIRMAN
SEAC- TN


5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
6. At least 20% of the open spaces as required by the local building byelaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation car washing, thermal cooling, conditioning etc. shall be done.
8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
9. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
11. The local bye-law provisions on rainwater harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rainwater harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
12. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total freshwater requirement shall

be provided. In areas where ground water recharging is not feasible, the rainwater should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.

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


MEMBER SECRETARY
SEAC -TN

87


CHAIRMAN
SEAC- TN

21. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Centre Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

4. Noise Monitoring and Prevention:

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

5. Energy Conservation Measures:

1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
2. Outdoor and common area lighting shall be LED.
3. The proponent shall provide solar panels covering a minimum of 50% of terrace area as committed.
4. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN



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.

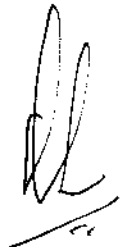
6. Waste Management:

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.


MEMBER SECRETARY
SEAC -TN

89

CHAIRMAN
SEAC- TN



5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
6. Any hazardous waste generated during construction phase shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
7. Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.
8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September 1999 and amended from time to time. Ready mixed concrete must be used in building construction.
9. Any wastes from construction and demolition activities related thereto shall be managed to strictly conform to the Construction and Demolition Rules, 2016.
10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

7. Green Cover:

1. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
2. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.

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

8. Transport:

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


MEMBER SECRETARY
SEAC -TN

91

CHAIRMAN
SEAC- TN


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

9. Human Health Issues:

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

10. Corporate Environment Responsibility:

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

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

11. Miscellaneous:

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


MEMBER SECRETARY
SEAC -TN

93

CHAIRMAN
SEAC- TN



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

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

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


MEMBER SECRETARY
SEAC -TN

95

CHAIRMAN
SEAC- TN


Appendix -I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விஸ்வம்
2	<i>Adenaanthera pavonina</i>	Marjadi	மஞ்சாடி. ஆனாக்கூற்றியணி
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Marjallavu	கோங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவளி.
18	<i>Creteva adansoni</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sebum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகையை
23	<i>Ficus amphissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பூவரசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம். ஆயிலி
27	<i>Lanea coromandelica</i>	Odhiam	ஓதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விலா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிரம்பா. பிசின்பட்டை
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	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுணா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுணா
38	<i>Phoenix sylvestre</i>	Eachai	ஈச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்


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SEAC -TN


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SEAC- TN

40	<i>Premna mollissima</i>	Murnai	முள்ளை
41	<i>Premna serratifolia</i>	Narumunai	நறு முள்ளை
42	<i>Premna tomentosa</i>	Malaipoovarasu	மலை பூவரசு
43	<i>Prosopis cinerea</i>	Vanni maram	வள்ளி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வெண்ணாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கறிபாலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புங்கன் சோப்புங்காய்
50	<i>Saraca asoca</i>	Asoca	அசாகா
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	வெண் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பாலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்புளி

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SEAC - TN

97

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SEAC- TN

Appendix -III

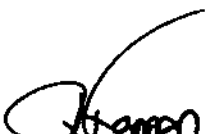
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-----சுரங்கம்

சுரங்கங்களில் சூவாரி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEWA, தேதியிடப்பட்டு சுற்றுச்சூழல் அனுமதி தேதி வளர் செல்லத்தக்கதாக உள்ளது.

பகணம் பகுதி வளர்ச்சி மேம்பாட்டுக்கான சுரங்கத் திட்டம்	சூவாரியின் எல்லைளையச் சுற்றி வேலி அமைக்க வேண்டும் சுரங்கப்பாதையின் ஆழம் தரைமட்டத்திலிருந்து பீட்டிக்கு மிளகல் இருக்க வேண்டும் காற்றில் மாசு ஏற்படாதவாறு சுரங்க பணிகளை மேற்கொள்ள வேண்டும்.
நடப்பட்டுள்ள பராமரிக்கப்படவேண்டிய மரங்கள் எண்ணிக்கை:	வாகனங்கள் செல்லும் பாதையில் மாசு ஏற்படாத அளவிற்கு தண்ணீரை முறையாக தண்ணீர் வாரிகளின் மூலமாக அவ்வப்போது தெளிக்க வேண்டும். இரைச்சல் அளவையும் தூசி மாசுபாட்டையும் குறைப்பதற்காக சூவாரியின் எல்லைளைய சுற்றி அடர்த்தியான பகணம் பகுதியை ஏற்படுத்த வேண்டும்.
சுரங்கத்தில் வெடி வைக்கும்பொழுது நிலஅதிர்வுகள் ஏற்படாதவாறும் மற்றும் சுதிகள் பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை உள்ளிப்பாக செயல்படுத்தப்பட வேண்டும்	
சுரங்கத்தில் இருந்து ஏற்படும் இரைச்சல் அளவு 85 டிபிஎஸ் (dBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.	
சுரங்க சட்ட விதிகள் 1966ன் கீழ் சுரங்கத்தில் உள்ள பணியாளர்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு கொதாரமுள்ள கழிப்பறை வசதிகளை செய்ய தர வேண்டும்.	
சிராமம் அல்லது பஞ்சாயத்து வட்டியாக வாகனங்கள் செல்லும் சாலைகளை தொடர்ந்து தனக்கு பராமரிக்க வேண்டும்.	
சுரங்கப்பணிகளால் அருகில் உள்ள விவசாயப் பணிகள் மற்றும் தீர்நிலைகள் பாதிக்கப்படக் கூடாது. தீர்நிலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் துவக்கும தீரின் தாத்தினை தொடர்த்து கண்காணிக்க வேண்டும்.	
சுரங்கத்திலிருந்து கனிம பொருட்களை எடுத்துச் செல்லு சிராம மக்களுக்கு எந்தத் சிரமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் சுற்றுச்சூழல் பாதிக்கவாத வகையில் வாகனங்களை இயக்க வேண்டும்.	
சுரங்கப்பணிகள் முடிக்கப்பட்டவுடன் சுரங்கமூடல் திட்டத்தில் உள்ளவாறு சுரங்கத்தினை மூட வேண்டும்.	
சுரங்க நடவடிக்கைகளை முடித்தபின்னர் சுரங்கப் பகுதி மற்றும் சுரங்க நடவடிக்கைகளால் இடைபுறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமானம் செய்ய துவாரங்கள் விவங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பகணப்பகுதியை உருவாக்க வேண்டும்.	
முழுமையான நிபந்தனைகளை அறிய பாசிடேஷ் (https://parvesh.nc.in) என்கிற இணையதளத்தைப் பார்வையிடவும் மேலும் எந்தவித சுற்றுச்சூழல் சார்ந்த புகார்கள்க்கு சென்சைஸில் உள்ள சுற்றுச்சூழல் மற்றும் வன அமைச்சகத்தின் ஓசூர்மனைந்த வட்டார அலுவலகம்: 044 - 28222325 (அல்லது) தமிழ்நாடு மாசு கட்டுப்பாடு வாரியத்தின் மாவட்ட சுற்றுச்சூழல் பொறுப்பாளர் அலுவலகம்.	


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