

State Expert Appraisal Committee (SEAC)

Minutes of 397<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 03.08.2023 (Thursday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Mining Projects.

Confirmation of Earlier Minutes

The minutes of the 396<sup>th</sup> SEAC meeting held on 28.07.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 397 - 01

(File No: 9693/2023)

Existing Rough Stone lease over an extent of 1.51.0 Ha at S.F.No. 132/1,2A,2B,132/3 and 132/4 in Chetthuppattu Village, Kundrathur Taluk, Kanchipuram District, Tamil Nadu by Thiru.C. Saravanan - Environment Clearance for next scheme of mining.

(SIA/TN/MIN/412327/2023 dt 27.12.2023)

The proposal was earlier placed in the 353<sup>rd</sup> meeting of SEAC held on 10.02.2023. 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, Thiru.C. Saravanan has applied seeking Environment Clearance for the existing Rough Stone lease (next scheme of mining) over an extent of 1.51.0 Ha at S.F.No. 132/1,2A,2B,132/3 and 132/4 in Chetthuppattu Village, Kundrathur Taluk, Kanchipuram 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. Previously EC has been issued by SEIAA TN via Lr. No. SEIAA-TN/F.No.4975/1(a)/EC.No.2936/2015 dated 17.02.2016 for the production quantity of Rough stone and 18222 cbm of Gravel to a depth to the proposed depth of of 27m BGL.
4. CCR obtained from IRO(SZ), MoEF&CC vide Lr. No.EP/12.1/2022-23/SEIAA/283/TN/729 dated 15.06.2023

  
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5. AD/Mines has reported presence of existing pit with dimensions of 275m (L) x 51m (W) x 25m (D) at the project site.

Based on the presentation and documents furnished by the project proponent, SEAC directed the Project Proponent to furnish certified compliance report for the earlier EC. On receipt of the same the proposal will be taken up for further deliberations.

File No	9693		Category	B2
	SIA/TN/MIN/412327/20 23 dt 27.12.2023			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	C. SARAVANAN S/o Shri. Chandran 2/196 Kanniyamman kovil Street Cheetuppattu Village Kundrathur Taluk Kanchipuram District- 601301.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone & Gravel	
3.	S.F Nos. of the quarry site with area break-up	:	S.F.No. 132/1,2A,2B,132/3 and 132/4	
4.	Village in which situated	:	Chetthuppattu	
5.	Taluk in which situated	:	Kundrathur	
6.	District in which situated	:	Kanchipuram District	
7.	Extent of quarry (in ha.)	:	1.51.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°55'03.92"N to 12°55'07.11"N 80°01'01.70"E to 80°01'11.44"E	
9.	Topo Sheet No.	:	58 G/08	
10.	Type of mining	:	Opencast mechanized method of mining.	
11.	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone - 324416 m <sup>3</sup>	-

  
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			Gravel – 4738 m <sup>3</sup>	
	Minable Resources in m <sup>3</sup> (RoM)	:	Rough Stone - 49795m <sup>3</sup>	Rough Stone - 48920m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone – 12675 m <sup>3</sup>	-
	Ultimate Depth in meters	:	37m (2m Gravel+35m Rough stone) BGL	-
13.	Depth of water table	:	51 m from ground profile	
14.	Man Power requirement per day:	:	15 Nos.	
15.	Water requirement:	:	4.5 kLD	
	1. Drinking & domestic purposes (in KLD)		2.0 kLD	
	2. Dust suppression , Green Belt & Wet Drilling (in KLD)		1.5 kLD & 1.0 kLD	
16.	Power requirement		TNEB 39,840 litres of HSD will be utilized	
17.	Precise area communication approved by the Assistant Director, Dept. of Geology & Mining	:	Rc.No.74/Q3/2021 Dated:26.07.2021.	
18.	Mining Plan approved by Assistant Director, Dept. of Geology & Mining	:	Rc.No.74/Q3/2021 Dated:03.08.2021	
19.	Assistant Director, Dept. of Geology & Mining 500m Cluster Letter		Rc.No.74/Q3/2021 Dated:03.08.2021	
20.	VAO Certificate Regarding Structures within 300m Radius		Letter Dated 05.08.2021	
21.	Project Cost (excluding EMP cost)	:	Rs.38.0 Lakh	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.

  
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			Rough Stone	Gravel	
		:	Max Total RoM in m <sup>3</sup>	48920	-
		:	Annual Max RoM in m <sup>3</sup>	12675	-
		:	Max Depth in m	35m BGL	2m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.16,47,000/- Recurring cost – Rs. 5,01,000/- + 5% of inflation cost every year		
24.	CER cost (in Rs. Lakh).	:	5..0 Lakh		

The PP furnished the details sought and hence the subject was taken up for discussion in this 397<sup>th</sup> meeting of SEAC held on 03.08.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the Annual Peak RoM production capacity of not exceeding 12675 m<sup>3</sup> of Rough stone by maintaining the ultimate depth of mining of 37m BGL, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The proponent shall provide the particulars for carrying out the plantation of 1500 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.
- 3) Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving


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

- 4) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the existing quarry wall within a period of one year from the date of lease execution, by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engg –IIT(Madras), NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 5) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 6) The PP shall strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site.
- 7) As accepted by the Project Proponent the CER cost of Rs.5.0 lakhs and the amount shall be spent for the committed activities at Village Government School before obtaining CTO from TNPCB.

  
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**Agenda No: 397-02**

**(File No: 9742/2023)**

**Existing Rough stone and Gravel quarry lease over an extent of 1.53.5 Ha of Patta land in S.F. No: 210/7C1, 210/8A1B of Melur Village of Kulathur Taluk of Pudukkottai District Tamil Nadu by Thiru M. Nallaiyah - Terms of Reference for EIA study (next scheme of mining). (SIA/TN/MIN/414495/2023, Dated: 13.01.2023)**

The proposal was earlier placed in the 367<sup>th</sup> meeting of SEAC held on 31.03.2023. 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, Thiru M. Nallaiyah has applied seeking Terms of Reference for EIA study for the existing Rough stone and Gravel quarry lease (next scheme of mining) over an extent of 1.53.5 Ha of Patta land in S.F. No: 210/7C1, 210/8A1B of Melur Village of Kulathur Taluk of Pudukkottai District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. As per the precise area communication letter, the lease period is 5 years and mine plan period is 5 years. As per the approved mine plan, the annual peak production shall not exceed 39115 m<sup>3</sup> of Rough stone & 17278 m<sup>3</sup> of Gravel for an ultimate depth of 33m BGL.
4. There is an existing pit with depth of 14m at the project site. The quarry was previously operated from 05.02.2007 to 04.02.2012

Based on the presentation made by the proponent, SEAC decided to call for the following additional details from the Proponent:

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 indicating the ownership of the building, nature of construction, age of the building, number of residents, their profession and

  
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income, etc. On receipt of the aforesaid details/documents, the Committee will further deliberate and decide on future course of action.

Based on the presentation and details furnished by the project proponent, SEAC decided to grant Terms of Reference (TOR) with Public Hearing subject to the following TORs, in addition to (i) the standard terms of reference for EIA study shown in Annexure-I and (ii) the Standard ToR for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The PP shall submit photographs of fencing, greenbelt and garland drain.
2. The PP shall submit the letter obtained from the concerned AD (Mines) showing details on the date of lease executed, date of last working day, Mining Plan approved quantity, EC Approved Quantity and Achieved quantity (year wise).
3. Since the quarry is existing with a depth of excavation of 14 m without benches of appropriate dimension (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall carry out a 'Slope Stability Assessment Studies' for the existing conditions of the quarry wall by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM - Bengaluru, IIT-Madras, NIT Surathkal – Dept of Mining Engg, and Anna University Chennai –Dept of Mining Engg. The above studies shall spell out 'a 'Slope Stability Action Plan' for the proposed quarry covering the existing condition of the quarry wall including the overall pit slope angle and it shall cover the aspects of stability of quarry walls including the access ramp keeping the benches intact.
4. 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.

**AGENDA No: 397-03**

**(File No: 9770/2023)**

**Proposed Red Earth and Pebbles quarry lease over an extent of – 2.10.0 Ha Government Land S.F.No. 58/1(PART-II) of Kallamedu Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu by Thiru. S. Manoharan– For Environmental Clearance. (SIA/TN/MIN/429810/2023, dated 02.08.2023)**

The proposal was placed in 373<sup>rd</sup> meeting of SEAC held on 27.04.2023. The project

  
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proponent made a detailed presentation. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).


The SEAC noted the following:

1. The project proponent, Thiru. S. Manoharan has applied seeking Environmental Clearance for the Proposed Red Earth and Pebbles quarry lease over an extent of 2.10.0 Ha Government land S.F.No. 58/1(PART-II) of Kallamedu Village, Ulundurpet Taluk, Kallakurichi 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, as amended.

On perusal of the online application pertaining to the project, the SEAC noticed that the Project Proponent's name did not match with that mentioned in the statutory approvals. As the Environmental Clearance is auto-generated and name correction is not permitted on PARIVESH web portal, the Committee directed the Proponent to withdraw this online application and file a new one. On receipt of the new online application the subject may be placed before the SEAC for appraisal.

Now the PP has applied afresh seeking Environmental Clearance as instructed and hence the subject was taken up for discussion in this 397th meeting of SEAC held on 03.08.2023.

File No	9770		Category	B2
	SIA/TN/MIN/429810/20 23 dt 02.08.2023			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. S. Manoharan, S/o. Sakkarapani, No. 1/20, South Street, Kallamedu Village, Ulundurpet Taluk, Kallakurichi District – 607 204	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Lime stone)	:	Red Earth and Pebbles	

  
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3.	S.F Nos. of the quarry site with area break-up	:	58/1(PART-II)	
4.	Village in which situated	:	Kallamedu	
5.	Taluk in which situated	:	Ulundurpet	
6.	District in which situated	:	Kallakurichi	
7.	Extent of quarry (in ha.)	:	2.10.0 Ha - Government Land	
8.	Latitude & Longitude of all corners of the quarry site	:	11°41'20.63"N to 11°41'26.57"N 79°24'40.34"E to 79°24'47.46"E	
9.	Topo Sheet No.	:	58-M/ 06	
10.	Type of mining	:	Open cast method of shallow mining	
11.	Life of Project	:	2 years	
	Lease Period	:	2 years	
	Mining Plan Period	:	2 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	Red Earth-34463 m <sup>3</sup> Pebbles 22975 m <sup>3</sup>	-
	Mineable Resources m <sup>3</sup> (RoM)	:	Red Earth-28858 m <sup>3</sup> Pebbles 19238 m <sup>3</sup>	-
	Annual Peak Production in m <sup>3</sup>	:	Red Earth-14525 m <sup>3</sup> Pebbles 9683 m <sup>3</sup>	-
	Maximum Depth in meters	:	3m (1m AGL+2m BGL)	-
13.	Depth of water table	:	47m BGL	
14.	Man Power requirement per day:	:	10 Nos.	
15.	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	0.3kLD 1.5 kLD 0.7 kLD	
16.	Power requirement	:	TNEB	

			8,020 liters of HSD for entire project life		
17.	Precise area communication approved by the AD/DD, Dept. of Geology & Mining	:	Rc.No.B/G&M/05/2021, 03.02.2021	Dated:	
18.	Mining Plan approved by Assistant Director, Dept. of Geology & Mining	:	Rc.No.B/G&M/05/2021, 25.05.2021	Dated:	
19.	500m Cluster Letter approved by Assistant Director, Dept. of Geology & Mining	:	Rc.No.B/G&M/05/2021, 25.05.2021	Dated:	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated Nil		
21.	Project Cost (excluding EMP cost)	:	Rs. 55,79,000/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Red Earth	Pebbles
			Max Total RoM in m <sup>3</sup>	28858	19238
			Annual Max RoM in m <sup>3</sup>	14525	9683
		:	Max Depth in m	3m (1m AGL+2m BGL)	
23.	EMP cost (in Rs. Lakh).	:	Capital Cost: Rs 1153000/- Recurring Cost/Annum: 560250/- + 5% cost inflation for 2 <sup>nd</sup> year		
24.	CER cost (in Rs. Lakh).	:	Rs. 2.0 Lakh		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak RoM production capacity not exceeding 1510 m<sup>3</sup> of Gravel and 13593 m<sup>3</sup> of Pebbles by maintaining the ultimate depth of mining of 3m (1m AGL+2m BGL) subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

  
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- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life of not exceeding two years from the date of execution of mine lease.
- 2) The proponent shall provide the particulars for carrying out the plantation of 1200 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB as a part of dust control measures.
- 3) The PP shall not carry out the blasting operations in the proposed quarry.
- 4) The PP shall strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site.
- 5) As accepted by the Project Proponent the CER cost of Rs. 2.0 lakh and the amount shall be spent for the committed activities at Village Government School before obtaining CTO from TNPCB.

**Agenda No: 397 - 04**

**(File No: 9791/2018)**

**Existing Grey granite (Paradiso) Quarry over an Extent of 2.78.5 Ha of Patta land in S.F.No. 382/5A, 382/5B, 382/6A, 382/6B, 382/6C, 382/7A, 382/7B, 382/8, 382/9A, 382/9B, 382/9C, 382/10 and 382/11, Chendarapalli Village, Krishnagiri Taluk and District, Tamil Nadu by Thiru. B.K. Murali- For Terms of Reference under Violation category. (SIA/TN/MIN/23602/2018 Dated: 05.04.2018)**

The proposal was earlier placed in the 366<sup>th</sup> meeting of SEAC held on 30.03.2023. 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 Thiru. B.K. Murali, has applied seeking Terms of Reference under Violation category for the Existing Grey granite (Paradiso) Quarry over an Extent of 2.78.5 Ha of Patta land in S.F.No. 382/5A, 382/5B, 382/6A, 382/6B, 382/6C, 382/7A, 382/7B, 382/8, 382/9A, 382/9B, 382/9C, 382/10 and 382/11, Chendarapalli Village, Krishnagiri Taluk and District, Tamil Nadu.

  
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2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006 as amended.
3. The project proponent is yet to submit approved scheme of mining. The annual peak production of RoM is 5292 cbm of Granite and the ultimate depth is 34m.
4. The life of mine is 28 years and the lease period is valid upto 27.02.2031.

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

1. The structures within the radius of (i) 100 m, (ii) 300 m, and (iii) 500 m 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.
2. Copy of mine plan/scheme of mining for the proposed period of quarrying approved by the concerned AD (Mines)/ competent authority.
3. Latest letter from AD/Mines stating the details of quarries (existing/expired/abandoned/proposed) located within 500m radial distance from the periphery of the mine lease area.

On receipt of the details sought above, the Committee will further deliberate and decide on future course of action.

The PP furnished the details sought and hence the subject was taken up for discussion in this 397<sup>th</sup> meeting of SEAC held on 03.08.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to grant of Terms of Reference (ToR) with Public Hearing under Violation category, subject to the following ToRs, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants which should be submitted within one year from the date of issue of ToR.

1. The SEIAA-TN may initiate the action U/s 19 of E(P) Act 1986 for their violation.
2. The project proponent shall submit approved mining plan/scheme of mining for the next spell of mining along with the EIA/EMP report.

  
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3. The PP shall furnish the details of penalty levied by the Department of Geology and Mining for the exploitation of mineral without prior EC along with supporting documents.
4. The PP shall furnish a letter from DFO on the proximity details of nearest any other Wild Life sanctuaries & Protected areas with respect to the proposed project site.

**Agenda No: 397 - 05**

**File No: 9532/2022**

**Proposed Gravel quarry lease over an extent of 4.68.0ha in S.F. No. 24/2 (P) & 25/1B1C at Silambinathanpettai Village, Panruti Taluk, Cuddalore District Tamil Nadu by Tmt. P. Indira - For Environmental Clearance. (SIA/TN/MIN/401732/2022/dated 29.09.2022)**

The proposal was placed in the 397<sup>th</sup> SEAC meeting held on 03.08.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation. SEAC noted the following:

1. The Project Proponent, Tmt. P. Indira has applied for Environmental Clearance for the proposed Gravel quarry lease over an extent of 4.68.0ha in S.F. No. 24/2 (P) & 25/1B1C at Silambinathanpettai Village, Panruti Taluk, Cuddalore 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.
3. The Production for the three years states that total quantity should not exceed 1,29,589 m<sup>3</sup> of Gravel for depth of mining 5m AGL.
4. Earlier the proposal was placed in the 362<sup>nd</sup> SEAC meeting held on 13.03.2023. During the presentation, SEAC noted that from the KML file uploaded by the proponent in PARIVESH portal, that the proposed site has been quarried up to a depth of 3m approximately. Further, the precise area communication letter and mine plan approval letter have not mentioned about the aforesaid excavated area. Hence, AD/Mines shall inspect the quarry site and give his comments on the existing site condition.

Now, the proposal is placed in the 397<sup>th</sup> SEAC meeting held on 03.08.2023.

  
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File No		9532/2022	Category	B1
		401732/2022		1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru.P. Indira, W/o Perumal, North Street, Silambinathanpettai Village. Panruti Taluk,Cuddalore District.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Gravel Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	24/2 (P) & 25/1B1C	
4.	Village in which situated	:	Silambinathanpettai	
5.	Taluk in which situated	:	Panruti	
6.	District in which situated	:	Cuddalore	
7.	Extent of quarry (in ha.)	:	4.68.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	11°41'54.27"N to 11°42'06.41"N 79°36'54.93"E to 79°37'03.87"E	
9.	Topo Sheet No.	:	58 - M/10	
10	Type of mining	:	Opencast method of shallow mining without drilling & blasting	
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 <sup>3</sup> (RoM)	:	Gravel	Gravel
		:	1,64,264m <sup>3</sup>	
	Mina ble Resources m <sup>3</sup> (RoM)	:	Gravel	Gravel
		:	1,29,589m <sup>3</sup>	
Annual Peak Production in m <sup>3</sup>	:	Gravel	Gravel	
		:	51,015 m <sup>3</sup>	
	Maximum Depth in meters	:	5m (AGL)	
13	Depth of water table	:	41m in rainy & 46m in summer seasons	


  
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14	Man Power requirement per day:	:	10 Nos	
15	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	2.0 KLD 0.2 KLD 1.5 KLD 0.3 KLD	
16	Power requirement	:	TNEB 21,600 Litres of HSD	
17	Precise area communication approved by the Assistant Director, Department of G&M.	:	Rc.No.222/Mines/2018, Dated:06.01.2021	
18	Mining Plan approved by Assistant Director, Department of G&M.	:	Rc.No.222/Mines/2018, Dated:15.02.2021	
19	Department of G&M, Deputy Director (i/c), 500m Cluster Letter	:	Rc.No.222/Mines/2018, Dated:29.06.2022	
20	VAO Certificate Regarding Structures within 300m Radius	:	28.08.2022	
21	Project Cost (excluding EMP cost)	:	Rs.62,33,000/-	
22	EC Recommendation	:	Validity	3 years subject to the following upper limits.
		:		Gravel
		:	Max Total RoM in m <sup>3</sup>	1,29,589m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>	51,015 m <sup>3</sup>
:	Max Depth in mtrs	5m (AGL)		
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 21,17,600 Recurring Cost – Rs. 6,82,260	
24	CER cost (in Rs. Lakh).	:	Rs. 2,00,000	

Now the proposal was again placed in 397<sup>th</sup> SEAC meeting held on 03.08.2023. Based on the presentation and documents furnished, the SEAC noted that,

1. The Assistant Director (Mines), Department of Geology and Mining, Coimbatore District, vide letter Rc. No.222/Mines/2018, dated 05.05.2023 had indicated that the PP have not carried out any mining activities in the lease area of 4.68.0 Ha after having applied for obtaining the quarrying permission and the land has been levelled

  
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for the agricultural activities.

Based on the aforesaid AD/Mines letter, presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak RoM production of capacity not exceeding 51,015m<sup>3</sup> of Gravel by maintaining the ultimate depth of mining of 5m AGL, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The PP shall complete the quarrying operations within a period of 3 years from the date of execution of the lease.
2. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
3. The PP shall carry out the required number of plantations as committed in the EMP without deviation before the execution of the lease.
4. The PP shall not carry out drilling & blasting operations in the proposed quarry.
5. As accepted by the Project proponent, the CER cost is Rs.2 Lakhs and the amount shall be spent for the committed activities towards Panchayat Union Primary School, Silambinathanpettai, Panrutti before obtaining CTO from TNPCB.

**Agenda No. 397 - 06**

**(File No. 9687/2022)**

**Proposed Rough Stone and Gravel quarry over an extent of 3.08.0 Ha in S.F.No. 178/1B(P), 178/2A2(P), 178/2B(P), 179/3B(P) & 179/4B(P) of Ottapidaram Village, Ottapidaram Taluk, Thoothukudi District, Tamil Nadu by Thiru S. Pachaimal for Environmental Clearance. (SIA/TN/MIN/411892/2022, dated: 23.12.2022)**

The proposal was placed in this 397<sup>th</sup> Meeting of SEAC held on 03.08.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Thiru S. Pachaimal has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry over an extent of 3.08.0 Ha in S.F.No. 178/1B(P), 178/2A2(P), 178/2B(P), 179/3B(P) & 179/4B(P)

  
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of Ottapidaram Village, Ottapidaram Taluk, Thoothukudi 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. As per mining plan, the lease period is 5 years. The mining plan is for 5 years & production should not exceed 4,24,435cu.m. of Rough Stone and 17,278cu.m of Gravel. The annual peak production 87,270cu.m. of Rough Stone. The maximum depth of mining would be 40m BGL.
4. Earlier, the proposal was placed in the 365<sup>th</sup> Meeting of SEAC held on 24.03.2023. Based on the presentation and document furnished by the proponent, SEAC decided to call for additional details
  1. There is a windmill installed at a distance of 90 m from the proposed mine lease area after the commencement of quarrying operations as per precise area communication letter issued vide Rc.G.M1/472/2016 Dated: 21.07.2022 and solar power plant located at a distance of 400m approximately as ascertained from the KML file uploaded by the proponent in Parivesh Portal.

Hence, the proponent was requested to carry out blast-induced vibration study & fly rock travel range distance and simulate the effects of blasting considering the structures (including windmill & solar panel) located at a distance of 50m, 100m, 200m, 300m and 500m from the proposed mine lease area, by involving any of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus and submit the report.

Now, the proposal was again placed in the 397<sup>th</sup> SEAC meeting held on 03.08.2023. Based on the presentation and document furnished by the proponent, SEAC decided to call for additional details

1. The proponent shall furnish the Mining Plan duly approved by the Competent Authority after having incorporated all the suggestions/recommendations given in the study report.

  
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Upon the receipt of above said details, further deliberation shall be done. Hence, the proponent is advised to submit the additional documents/ information as sought above within a period of 30 days failing which your proposal will automatically get delisted from the PARIVESH portal.

Agenda No: 397 - 07

(File No: 9708/2023)

Proposed Rough Stone & Gravel quarry lease area over an extent of Extent 0.84.0 Ha at SF.No. 50/18(Part) of Amburpettai Village, Vaniyambadi Taluk, Thirupathur District, Tamil Nadu by Thiru. B. Suresh - For Environmental Clearance. (SIA/TN/MIN/412508/2022, Dated: 29.12.2022)

The proposal was placed for appraisal in this 397<sup>th</sup> meeting of SEAC held on 03.08.2023. 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. B. Suresh has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease area over an extent of Extent 0.84.0 Ha at SF.No. 50/18(Part) of Amburpettai Village, Vaniyambadi Taluk, Thirupathur 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. As per the mining plan, the lease period is for 10 years. The production for 5 years not to exceed 41,135m<sup>3</sup> of Rough Stone, 10,922 m<sup>3</sup> of Gravel & 5,332m<sup>3</sup> of Weathered Rock to a depth of Mining 23m Below ground level.
4. Earlier, the proposal was placed in the 371<sup>st</sup> meeting of SEAC held on 26.04.2023. Based on the presentation and documents furnished by the proponent, SEAC decided to call for additional details
  1. The PP shall carry out a survey and enumerate the structures located within 50m, 100m, 200m and 300m radius of the proposed site, with details such as nature of structure, use, occupation, etc.
  2. The proponent shall furnish the transport route that will be used to transport material from the quarry.

3. The proponent shall furnish the details of the location of the crusher and the transport route.

Now, the proposal was again placed in the 397<sup>th</sup> SEAC meeting held on 03.08.2023. Based on the presentation and document furnished by the proponent, SEAC noted that

S.No.	Range	No. of Structures
1.	0-50m	0
2.	50-100m	0
3.	100-150m	1
4.	150-200m	9
5.	200-250m	3
6.	250-300m	9
	Total	22

As per the enumeration study,

1. There are 22 structures located within the 300m radius from the proposed quarry site.
2. One structure is located in the range of 100-150m.
3. Remaining 21 structures (95%) are located in the range of 150-300m radius.

Hence, this proposal attracts the following legal implications:

- (i) Under the provisions of Tamil Nadu Minor Mineral Concession Rules, 1959, Rule 36 (1-A) (a) says

*".... No lease shall be granted for quarrying stone within 300 meters (three hundred meters) from any inhabited site: Provided that the existing quarries which are subsisting under current leases shall be entitled for continuance till the expiry of the lease period. The lessees whose quarries lie within a radius of 300 metres from the inhabited site shall undertake blasting operations only after getting permission of the Director of Mines Safety, Chennai".*

Similarly, Rule 36 (1-A) (c) also indicates

*".... No new layout, building plans falling within 300 metres from any quarry should be given approval by any agency unless prior clearance of the Director*

*of Geology and Mining is obtained. On receipt of proposals for according clearance, the Director of Geology and Mining (DGM) shall decide upon the continuance or closure, as the case may be of any quarry which is situated within 300 metres from the now layout, building sought for such clearance....”.*

Hence, in view of the existence of many structures and cement brick manufacturing unit located around the quarry as also considering the fact that there is also a stone crusher unit functioning nearby, the SEAC decided that the proposed mine will further deteriorate the environment and therefore, decided to not to recommend the proposal for the grant of Environmental Clearance.

Agenda No: 397-08

(File No.9861/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.21.45 Ha at S.F.Nos. 476/2 (P) & 476/3(P) of Kaliyal Village, Vilavancode Taluk, Kanniyakumari District, Tamilnadu by Thiru. S. Dhas – For Environmental Clearance.

(SIA/TN/MIN/419735/2023 dated 24.02.2023)

The proposal was placed in the 397<sup>th</sup> meeting of SEAC held on 03.08.2023. 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. Dhas has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 1.21.45 Ha at S.F.Nos. 476/2 (P) & 476/3(P) of Kaliyal Village, Vilavancode Taluk, Kanniyakumari District, Tamilnadu.
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.

During the meeting, the Committee noted that the project proponent was absent and hence the subject was not taken up for discussion. Further, the SEAC decided that the proponent shall furnish reason for absence. Hence, the proponent is advised to submit the above-mentioned details within a period of 30 days failing which the proposal will be automatically delisted from the PARIVESH Portal.

  
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**Agenda No: 397-09**

**(File No.9908/2023)**

**Proposed Rough Stone & Gravel quarry lease over an extent of 4.47.5 Ha at S.F.Nos. 1067/1(Part), 1067/2(Part) & 678 (Part) of Thennilai West Village, Pugalur Taluk, Karur District, Tamil Nadu by Thiru.T.Ponnusamy – For Environmental Clearance. (SIA/TN/MIN/421945/2023 dated.13.03.2023)**

The proposal was placed in the 397<sup>th</sup> meeting of SEAC held on 03.08.2023. 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. T. Ponnusamy has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 4.47.5 Ha at S.F.Nos. 1067/1(Part), 1067/2(Part) & 678 (Part) of Thennilai West Village, Pugalur Taluk, Karur 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.
3. Earlier proposal was placed in 378<sup>th</sup> SEAC meeting held on 11.05.2023. Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to obtain the following details from the PP.
  - a) The PP shall revise the bench geometry keeping the ultimate depth of the quarry as 50 m and furnish the 'Revised Production Development Plan' approved by the AD (Mines).
  - b) 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 a 'Slope Stability Assessment' studies for the existing conditions of the quarry wall by involving any of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM - Bengaluru, IIT-Madras, NIT Surathkal – Dept of Mining Engg, and Anna University Chennai-CEG Campus, Chennai. The above studies shall spell out the 'Action Plan' for carrying out the realignment of the benches and

  
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quarrying operations in a safe & sustainable manner in the proposed quarry lease.


4. The proponent vide letter dated.05.06.2023 has furnished a reply to the queries raised by SEAC.

5. In view of this, the proposal is again placed in this 397<sup>th</sup> SEAC meeting.

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

File No	9908		Category	1(a)	
	SIA/TN/MIN/421945/2023			B2	
Sl. No	Salient Features of the Proposal				
1	Name of the Owner/Firm	:	Thiru. T. Ponnusamy, S/o. Thangavel, Door.No.4, Pavithram, Pavithram Post, Pugalur Taluk, Karur District – 639 002.		
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	:	1067/1 (Part), 1067/2 (Part) & 678 (Part)		
4	Village in which situated	:	Thennilai West		
5	Taluk in which situated	:	Pugalur		
6	District in which situated	:	Karur		
7	Extent of quarry (in ha.)	:	4.47.50 Ha		
8	Latitude & Longitude of all corners of the quarry site	:	10°58'32.49"N to 10°58'41.31"N 77°48'48.40"E to 77°48'54.74"E		
9	Topo Sheet No.	:	58-F/13		
10	Type of mining	:	Opencast Semi mechanized Mining Method		
11	Life of Project	:	5 years		
	Lease Period	:	5 years		
	Mining Plan Period	:	5 years		
12	Mining Plan Details	:	<u>As per approved Mining Plan</u>	<u>As modified by SEAC</u>	

	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone – 18,47,711	Rough Stone – 14,00,831
			Gravel – 1232	Gravel – 1232
	Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone – 5,83,201	Rough Stone – 4,72,521
			Gravel - 28	Gravel - 28
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone- 1,26,680	Rough Stone- 1,15,480
		Gravel - 28	Gravel - 28	
	Ultimate Depth in meters	:	60m BGL	50m BGL
13	Depth of water table	:	75 – 70m	
14	Man Power requirement per day:	:	22 Nos.	
15	Water requirement: 1. Drinking water 2. Utilized Water 3. Dust suppression 4. Green belt	:	5.0 KLD 0.5 KLD 1.5 KLD 1.5 KLD 1.5 KLD	
16	Power requirement	:	4,66,560 liters of HSD	
17	Precise area communication approved by the Deputy Director, Dept. of G&M with date	:	Rc.No.553/Mines/2022, dated:03.03.2023.	
18	Mining Plan approved by the Deputy Director, Dept. of Geology and Mining with date	:	Rc.No.553/Mines/2022, dated:09.03.2023.	
19	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining with date	:	Rc.No.553/Mines/2022, dated:09.03.2023.	
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 09.03.2023.	
21	Project Cost (excluding EMP cost)	:	Rs.72,25,400/-	
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.

  
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			Rough Stone	Gravel
		: Max Total RoM in m <sup>3</sup>	4,72,521	28
		: Annual Max RoM in m <sup>3</sup>	1,15,480	28
		: Max Depth in mtrs	50m BGL	
23	EMP cost (in Rs. Lakh).	: Capital Cost: Rs.51.05 Lakhs Recurring Cost: Rs.30.81 lakhs		
24	CER cost (in Rs. Lakh).	: Rs.7.6 Lakhs		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the Annual Peak Production Capacity of not exceeding 1,15,480m<sup>3</sup> of rough stone & 28m<sup>3</sup> of gravel by restricting the ultimate depth of mining upto 50m 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) Within a period of one year from the date of lease execution, the PP shall carry out the scientific studies on optimization of the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB,

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

- 3) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and the existing quarry wall when the depth of the quarry touches 30 m or during the fourth year of quarrying operation, by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engg –IIT(Madras), NIT- Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation
- 4) The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations to the concerned AD (Mines) at the time of execution of lease.
- 5) As accepted by the Project Proponent the CER cost of Rs. 7.6 Lakhs and the amount shall be spent for the activities as committed towards the Government High School – Pavithram Village before obtaining CTO from TNPCB.

**Agenda No: 397-10**

**(File No: 9555/2022)**


**Proposed Ordinary Earth quarry lease over an extent of 1.05.5 Ha at SF. No. 367(P) of Ervadi Village, Keelakarai Taluk, Ramanathapuram District, Tamil Nadu by Thiru. M. Nagarethinam- For Environmental Clearance.**

**(SIA/TN/MIN/402659/2022, Dt: 12.10.2022).**

Earlier, the proposal was placed in 362<sup>nd</sup> SEAC meeting held on 13.03.2023. 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. Nagarethinam has applied for Environmental Clearance for the proposed Ordinary Earth quarry lease over an extent of 1.05.5Ha in SF. No. 367(P) of Ervadi village, Keelakarai Taluk, Ramanathapuram District, Tamil Nadu.

  
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2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 1 year. The mining plan is for the period of one year & the production should not exceed 7616 m<sup>3</sup> of ordinary earth with an ultimate depth of mining is 1.0m BGL.

Based on the presentation and document furnished by the project proponent, SEAC decided to seek the following details from the project proponent.

1. The kml file was unviewable. The PP shall upload the correct viewable kml file in Parivesh website.
2. The PP carry out the geological assessment to identify mineralization, to establish continuity, quality and quantity of mineral mineral deposit, particularly, the presence of heavy minerals in the Teri sand (red earth) such as ilmenite, rutile, lucoxene, garnet, monazite, zircon and sillimanite, etc. Hence the PP shall furnish the report through the systematic sampling in the proposed site with showing geological coordinates and the mineralogical analysis obtained as per the procedures laid in accordance with the provisions of Atomic Minerals Concessional Rules, 2016 through the laboratory of IREL (India) Limited, Research Centre, Beach Road, Kollam, Kerala.
3. The PP shall change all the documents from "Earth" to "Ordinary Earth" as per the TN G.O. (Ms). No.244, dated. 14.12.2022.
4. The proponent shall produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the Hon'ble Madurai Bench of Madras High Court.

The proposal was again placed in the 397<sup>th</sup> SEAC meeting held on 03.08.2023. The reply furnished by the PP was not satisfactory to the query raised in earlier 362<sup>nd</sup> SEAC meeting held on 13.03.2023. Hence SEAC decided to seek the following details from the project proponent.

1. The kml file was unviewable. The PP shall upload the correct viewable kml file in Parivesh website.

  
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2. The PP carry out the geological assessment to identify mineralization, to establish continuity, quality and quantity of mineral mineral deposit, particularly, the presence of heavy minerals in the Teri sand (red earth) such as ilmenite, rutile, lucoxene, garnet, monazite, zircon and sillimanite, etc. Hence the PP shall furnish the report through the systematic sampling in the proposed site with showing geological coordinates and the mineralogical analysis obtained as per the procedures laid in accordance with the provisions of Atomic Minerals Concessional Rules, 2016 through the laboratory of IREL (India) Limited, Research Centre, Beach Road, Kollam, Kerala (or) through CSIR NML Madras Centre, CSIR Madras Complex (SERC Campus), Taramani, Chennai.
3. The PP shall change all the documents from "Earth" to "Ordinary Earth" as per the TN G.O. (Ms). No.244, dated. 14.12.2022.
4. The proponent shall produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the Hon'ble Madurai Bench of Madras High Court.

**Agenda No: 397 - 11**


**(File No: 9766/2023)**

**Proposed Rough Stone and Gravel quarry lease over an extent of 0.55.5 Ha in S.F.No. 267/5, Pogalur Village, Peranampattu Taluk, Vellore District, Tamil Nadu by Thiru G. Nagesh- For Environmental Clearance. (SIA/TN/MIN/413535/2023, Dated:12.01.2023)**

Earlier, the proposal was placed in the 277<sup>th</sup> SEAC meeting held on 26.05.2022, 353<sup>rd</sup> meeting of SEAC held on 09.02.2023 and 523<sup>rd</sup> SEIAA meeting held on 21.06.2022. The details of the minutes are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru G. Nagesh, has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of 0.55.5 Ha in S.F.No. 267/5, Pogalur Village, Peranampattu Taluk, Vellore District, Tamil Nadu.

  
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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. As per mining plan, the lease period is 5 years and the mining plan for the period of 5 years & the production should not exceed –31839cu.m. of Rough stone. The annual peak production 6595Cu.m of Rough Stone and the Ultimate depth is 26m metre Above GL.

The proposal was again placed in the 353<sup>rd</sup> SEAC meeting held on 09.02.2023. Based on the presentation and document furnished by the proponent, SEAC decided to call for additional details.

1. The PP shall submit the certified compliance report issued by the IRO, MoEF & CC, Chennai.
2. The PP shall enumerate number of structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m with details such as dwelling houses with number of occupants, whether it belongs to the owner & type of the construction, life/age of the buildings/structures, including the places of worship, industries, factories, sheds, poultry farm etc.

Now the proposal was placed in the 397<sup>th</sup> SEAC meeting held on 03.08.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

Sl.No	Query	Reply
1.	The PP shall submit the certified compliance report issued by IRO, MOEF & CC, Chennai.	The PP has furnished CCR vide F. No.EP/12.1/2022-23/SEIAA/318/TN dated 18.04.2023.
2.	The PP shall enumerate number of structures within the radius of i) 50m, ii) 100m, iii) 200m and iv) 300m with the details such as dwelling houses with number of occupants, whether it belongs to the owner & type of construction, life/age of the building & structures, including the places of worship.	With respect to this query, enumeration Study Report is enclosed. As per the study it is inferred that there no dwelling houses located within 300 m radius from the proposed quarry. Whereas, no structures are located within the range of 0-150m radius and 20 structures like poultry farm, shed, motor room, etc., are located within the 150-300 m radius, and the Poultry Farms located within the 300m radius were non-

industries, factories, sheds, poultry farm etc.,	operative. As such there is no impact envisaged in this proposed quarry.
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File No	9766/2023	Category	B2
	SIA/TN/MIN/413535/2023, Dated:12.01.2023		
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.G.Nagesh S/o. Gopal Thonaparai Village Rajakuppam Post Peranampattu Taluk Vellore District
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone & Gravel quarry
3.	S.F Nos. of the quarry site with area break-up	:	267/5
4.	Village in which situated	:	Pogalur
5.	Taluk in which situated	:	Peranampattu
6.	District in which situated	:	Vellore
7.	Extent of quarry (in ha.)	:	0.55.5Ha
8.	Latitude & Longitude of all corners of the quarry site	:	12°55'00.01"N to 12°55'03.60"N 78°46'41.72"E to 78°46'44.64"E
9.	Topo Sheet No.	:	57 L/13
10.	Type of mining	:	Opencast Semi-mechanized Mining
11.	Life of Project	:	5 Years
	Lease Period	:	5 Years
	Mining Plan Period	:	5 Years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m <sup>3</sup>	:	As modified by SEAC Gravel
		:	1,38,675m <sup>3</sup>
Minable Resources m <sup>3</sup>	:	Rough stone	Gravel
	:	31839m <sup>3</sup>	

  
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	Annual Peak Production in m <sup>3</sup>	:	Rough stone 6,595m <sup>3</sup>	Gravel -
	Ultimate Depth in meters	:	26m AGL	
13.	Depth of water table	:	53m BGL	
14.	Man Power requirement per day:	:	16 Employees	
15.	Water requirement: 1. Drinking water & Utilized water 2. Dust suppression 3. Green belt	:	2.5 KLD 0.5 KLD 1.5 KLD 0.5 KLD	
16.	Power requirement	:	TNEB -	
17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Rc.No.03/2021(Mines), Dated:27.08.2021	
18.	Mining Plan approved by Assistant Director, Department of G&M.	:	Rc.No.03/2021(Mines), Dated:03.09.2021	
19.	500m Cluster Letter approved by the Assistant Director, Department of G&M.	:	Rc.No.03/2021(Mines), Dated:06.09.2021	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter furnished dated:Nil	
21.	Project Cost (excluding EMP cost)	:	Rs. 46,22,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits. Rough stone
		:	Max Total in m <sup>3</sup>	31,839m <sup>3</sup>
		:	Annual Max in m <sup>3</sup>	6,595m <sup>3</sup>
		:	Max Depth in mtrs	26m AGL

23.	EMP cost (in Rs. Lakh).	:	Rs.64.45 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 not exceeding 6,595m<sup>3</sup> of Rough Stone by maintaining the ultimate depth of mining of 26m AGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The 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 strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site.
- 3) Since the structures are situated within a radial distance of 300 m, the PP shall carry out only non-explosive quarrying operation including hand-breakage by chiselling & hammering, usage of rock breakers, rippers, hydraulic fracturing, and chemical static expansion agents.
- 4) PP shall submit an affidavit that the mining operation will be carried out strictly as per (3) above before getting EC.
- 5) The PP shall furnish the Mining Plan modified accordingly and duly approved by the competent authority by indicating only non-explosive rock breakage techniques before the execution of lease with the concerned District authorities.
- 6) The PP shall carry out the initial/periodical medical examination (PME) to all the permanent/contractual employees in the DGMS approved Occupational Health Centre as per the provisions of the Mines Rules, 1955.
- 7) The proponent shall develop fencing all around the project area & around the abandoned pits situated near the proposed project area in order to ensure safety before the execution of the lease.

  
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- 8) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4<sup>th</sup> year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 9) As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Government Higher Secondary School, Mel Alankuppam Village before obtaining CTO from TNPCB.

**Agenda No: 397-12**


**(File No: 9571/2022)**

**Proposed Black granite quarry lease over an extent of 1.90.0 Ha S.F.Nos. No. 802/3B1, 803/1, 803/2, 804/2, 804/3, 805/1 (P), 805/2 & 831/2 (P), Irudukottai Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by M/s. Seven Hills Black Granite – For Environmental Clearance. (SIA/TN/MIN/405609/2022 dated 07.11.2022)**

The proposal is placed for appraisal in this 397<sup>th</sup> SEAC meeting held on 03.08.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). SEAC noted the following:

1. The Project Proponent, M/s. Seven Hills Black Granite has applied for Environmental Clearance for the Proposed Black granite quarry lease over an extent of 1.90.0 Ha S.F.Nos. No. 802/3B1, 803/1, 803/2, 804/2, 804/3, 805/1 (P), 805/2 & 831/2 (P), Irudukottai Village, Denkanikottai Taluk, Krishnagiri 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.
3. Earlier, the proponent has obtained Environmental Clearance from SEIAA-TN vide Lr.No.SEIAA-TN/F.No.3174/EC/1(a)/EC.No.3712/2015 dated.06.09.2016 for a quantity of 1371 cu.m of black granite with the validity of EC Co-terminus with

  
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the lease period or limited to a maximum period of 5 years from the date of issue of EC, whichever is earlier.

4. Now, the proponent has submitted an application seeking EC for the Scheme of mining for the period 2021-2026.
5. Earlier, the proposal was placed for appraisal in the 362<sup>nd</sup> SEAC meeting held on 13.03.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain the following details with documentary evidence (Phots & videos) from the PP.
  - i) The CNWLS is located within 10km, hence the PP shall furnish the details of conservation measures at a cost of Rs. 5 Lakhs in consultation with concern DFO.
  - ii) Since the residential structures are located in Southern side of the proposed site, the PP shall make provision to provide the thick Green belt with 2 rows of trees followed by Galvanized sheet at the height of 2 to 3 m in the Southern side of the proposed site, directing the habitations.
6. The proponent vide letter dated.09.06.2023, furnished a reply to the queries raised by SEAC.
7. In view of the above, the proposal was again placed in this 397<sup>th</sup> SEAC meeting held on 03.08.2023.
8. The Committee, during appraisal noted that the proponent has achieved a production equivalent to 5 times the proposed production during the 3<sup>rd</sup> year (2018-19) in the previous mine plan/EC period. However, the proponent has not exceeded the total quantity of production as approved in the earlier EC granted by the SEIAA, dated.06.09.2016.
9. The salient features of the proposal are as follows:

File No	9571 / 2022	Category	B2
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	M/s. Seven Hills Granites, No. 2/36, 1 <sup>st</sup> Floor, S.R. Traders Upstairs, Krishnagiri Bye Pass Road, Hosur, Krishnagiri District - 635 032.

  
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2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Black Granite (Dolerite Dyke)	
3	S.F Nos. of the quarry site with area break-up	:	802/3B1, 803/1, 803/2, 804/2, 804/3, 805/1(P) 805/2 & 831/2(P)	
4	Village in which situated	:	Irudhukottai	
5	Taluk in which situated	:	Denkanikottai	
6	District in which situated	:	Krishnagiri	
7	Extent of quarry (in ha.)	:	1.90.0 Ha	
8	Latitude & Longitude of all corners of the quarry site	:	12°28'2.75"N to 12°27'58.20"N 77°47'41.24"E to 77°47'35.65"E	
9	Topo Sheet No.	:	57-H/15	
10	Type of mining	:	Opencast Semi Mechanized Mining	
11	Life of Project	:	20 years	
	Lease Period	:	20 years (12.12.2016 – 11.12.2036)	
	Mining Plan Period	:	5 years	
12	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	Black Granite	Black Granite
		:	5,40,250 m <sup>3</sup> of ROM which includes 1,08,050 m <sup>3</sup> of Black Granite (20% recovery) and 4,32,200 m <sup>3</sup> of Granite waste.	-
		:	Top soil	Top soil
		:	271,32m <sup>3</sup>	-
		:	Weathered granite	Weathered granite
		:	16,965m <sup>3</sup>	-
	Minable Resources m <sup>3</sup> (RoM)	:	Black Granite	Black Granite
:		1,90,790 m <sup>3</sup> of ROM which includes 38,158 m <sup>3</sup> of Black Granite (20% recovery) and	-	

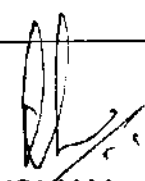
  
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		1,52,632 m <sup>3</sup> of Granite waste	
		Top soil	Top soil
		25,338m <sup>3</sup>	-
		Weathered granite	Weathered granite
		17,735m <sup>3</sup>	-
	Annual Peak Production in m <sup>3</sup>	Black Granite	Black Granite
		26220 m <sup>3</sup> of ROM which includes 5244m <sup>3</sup> of black granite recovery (@20%) & 20,976m <sup>3</sup> of granite waste	-
	Maximum Depth in meters	33.5m bgl	-
13	Depth of water table	72m bgl	
14	Man Power requirement per day:	22 Nos.	
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	2.0 KLD 1.0 KLD - 0.5 KLD 0.5 KLD	
16	Power requirement	No electricity is required	
17	Precise area communication approved by the Principal Secretary to Government, Industries (MME.2) Department	G.O. (3D) No.65 dated 31.10.2016	
18	Mining Plan approved by the Commissioner, Department of G&M.	Rc.No.3854/MM4/2021, dated: 29.07.2022	
19	Department of G&M, Deputy Director 500m Cluster Letter	Roc.No.25/2021/Mines, dated: 12.08.2022	
20	VAO Certificate Regarding Structures within 300m Radius	Letter dated 10.08.2022	
21	Project Cost (excluding EMP cost)	Rs. 1,25,70,000/-	

  
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22	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m <sup>3</sup>	Black Granite 1,03,170 m <sup>3</sup> ROM which includes 20,634 m <sup>3</sup> of recoverable Black Granite and 82,536 m <sup>3</sup> of Black Granite waste. Also 8778m <sup>3</sup> of top soil & 6413m <sup>3</sup> of weathered granite
		:	Annual Max RoM in m <sup>3</sup>	26220 m <sup>3</sup> of RoM which includes 5244m <sup>3</sup> of recoverable granite & 20,976m <sup>3</sup> of granite waste
		:	Max Depth in mtrs	33.5m bgl
23	EMP cost (in Rs. Lakh).	:	Capital Cost - Rs. 15,38,000/- Recurring Cost - Rs. 11,10,300/-	
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 26,220 m<sup>3</sup> of RoM which includes 5244m<sup>3</sup> of recoverable granite & 20,976m<sup>3</sup> of granite waste by restricting the ultimate depth of mining up to 33.5m 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

  
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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 provide all the required PPEs during the operation of Diamond Wire Saw Cutting in the proposed quarry.
- 3) The PP shall ensure that all the waste material, and mineral rejects are placed within the mine leasehold area in a systematic and scientific manner.
- 4) As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards the Panchayat Union Middle School, Giriyanapalli Village, Kelamangalam Block before obtaining CTO from TNPCB. In addition, PP shall undertake - through DFO concerned – conservation measures at a cost of Rs. 5 lakhs in CNWLS.

**Agenda No: 397 – 13**

**(File No: 9585/2022)**

**Proposed Red Soil Quarry lease over an extent of 3.70.5 Ha at S.F.Nos. 263/2, 264/3C, Iruvelli Group Village, Kadaladi Taluk, Ramanathapuram District, Tamil Nadu by Thiru. J. Nagavinoth - for Environmental Clearance. (SIA/TN/MIN/403055/2022, dt 15.10.2022)**


The proposal was placed in 397<sup>th</sup> SEAC meeting held on 03.08.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru. J. Nagavinoth has applied for Environmental Clearance for the proposed Red Soil Quarry lease over an extent of 3.70.5 Ha at S.F.Nos. 263/2, 264/3C, Iruvelli Village, Kadaladi Taluk, Ramanathapuram 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. As per mining plan, the lease period is one year. The mining plan is for the period of one year & the production should not exceed 62250m<sup>3</sup> of red soil with an ultimate depth – 2m BGL.

  
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4. Earlier, the proposal was placed for appraisal in the 363<sup>rd</sup> SEAC meeting held on 14.03.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain the following details from the PP.

- i) The PP carry out the geological assessment to identify mineralization, to establish continuity, quality and quantity of mineral mineral deposit, particularly, the presence of heavy minerals in the Teri sand (red earth) such as ilmenite, rutile, lucoxene, garnet, monazite, zircon and sillimanite, etc. Hence the PP shall furnish the report through the systematic sampling in the proposed site with showing geological coordinates as per the procedures laid in accordance with the provisions of Atomic Minerals Concessional Rules, 2016 and the mineralogical analysis obtained from the laboratory of IREL (India) Limited, Research Centre, Beach Road, Kollam, Kerala.
- ii) The PP shall change all the documents including the Mining Plan from "Red Soil" to "Ordinary Earth" as per the TN G.O. (Ms). No.244, dated. 14.12.2022.
- iii) The proponent shall produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the Hon'ble Madurai Bench of Madras High Court.

5. Subsequently, the proposal was placed in the 609<sup>th</sup> Authority meeting held on 10.04.2023. The authority noted that this proposal was placed for appraisal in 363<sup>rd</sup> meeting of SEAC held on 14.03.2023. After detailed discussion, the Authority decided to obtain following details from the PP in addition to the above.

- a) This area is theri red desert which is component of marine sediments and shifting sand dunes. Studies have shown that such as red soil tracks there are many medicinal plants and vegetation like palmyra, pandanus etc. The impact of quarrying sand dunes, natural vegetation and proposed red soil to be studied in depth and to be reported.

  
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6. On receipt of reply from the proponent, the proposal was again placed in this 397<sup>th</sup> SEAC meeting held on 03.08.2023.

During, the meeting, the committee observed that the reply furnished by the PP was not satisfactory to the query raised in earlier 362<sup>nd</sup> SEAC meeting held on 13.03.2023. Hence SEAC decided to seek the following details from the project proponent.

1. The PP carry out the geological assessment to identify mineralization, to establish continuity, quality and quantity of mineral mineral deposit, particularly, the presence of heavy minerals in the Teri sand (red earth) such as ilmenite, rutile, lucoxene, garnet, monazite, zircon and sillimanite, etc. Hence the PP shall furnish the report through the systematic sampling in the proposed site with showing geological coordinates and the mineralogical analysis obtained as per the procedures laid in accordance with the provisions of Atomic Minerals Concessional Rules, 2016 through the laboratory of IREL (India) Limited, Research Centre, Beach Road, Kollam, Kerala (or) through CSIR NML Madras Centre, CSIR Madras Complex (SERC Campus), Taramani, Chennai.
2. The PP shall change all the documents from "Earth" to "Ordinary Earth" as per the TN G.O. (Ms). No.244, dated. 14.12.2022.
3. The proponent shall produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the Hon'ble Madurai Bench of Madras High Court.

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

Agenda No: 397-14

(File No: 9746/2023)

Proposed Rough Stone & Gravel Quarry lease over an extent of 3.46.60 Ha at S.F.Nos. 161/1A(pt) of Therku Ilandaikkulam Village, Kayathar Taluk, Thoothukudi District, Tamil Nadu by Thiru. K.M.S. Peer Mohideen – for Environmental Clearance. (SIA/TN/MIN/414588/2023, dt: 19.01.2023)

  
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The proposal was placed in 397<sup>th</sup> SEAC meeting held on 03.08.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. K.M.S. Peer Mohideen has applied for Environmental Clearance for the Proposed Rough Stone & Gravel Quarry lease over an extent of 3.46.60 Ha at S.F.Nos. 161/1A(pt) of Therku Ilandaikkulam 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. Earlier, the proposal was placed in the 372<sup>nd</sup> SEAC meeting held on 27.04.2023. Based on the presentation and documents furnished by the project proponent, SEAC after detailed discussion decided to defer the proposal and the PP shall furnish the following additional particulars
  - i) Registered lease agreement to be submitted.
  - ii) Revised mining plan leaving a safety distance of minimum 150m from the wind mill located adjacent to the project site, from the competent authority.
4. On receipt of a reply from the proponent, the proposal was placed in this 397<sup>th</sup> SEAC meeting held on 03.08.2023.
5. The salient features of the proposal are as follows:

File No	9746 / 2023	Category	B2
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Thiru. K.M.S. Peer Mohideen, S/o. Mr. Shahul Hameed, 52/32, Uppu Kinaru Street, Kayathar Taluk, Thoothukudi District - 628 952.
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel
3	S.F Nos. of the quarry site with area break-up	:	161/1A (Part)

  
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4	Village in which situated	:	Thekuilandaikkulam			
5	Taluk in which situated	:	Kayathar			
6	District in which situated	:	Thoothukudi			
7	Extent of quarry (in ha.)	:	3.46.60 Ha			
8	Latitude & Longitude of all corners of the quarry site	:	8°57'37.88"N to 8°57'42.48"N 77°45'12.56"E to 77°45'19.94"E			
9	Topo Sheet No.	:	58-H/13			
10	Type of mining	:	Opencast Mechanized Mining			
11	Life of Project	:	5 years			
	Lease Period	:	5 years			
	Mining Plan Period	:	5 years			
12	Mining Plan Details	:	As per approved Mining Plan		As modified by SEAC	
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
				13,18,296 m <sup>3</sup>	69,384 m <sup>3</sup>	-
	Mirable Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
				7,04,036 m <sup>3</sup>	58,644 m <sup>3</sup>	5,50,652 m <sup>3</sup>
Annual Peak Production in m <sup>3</sup>	:	Rough Stone	Gravel	Rough Stone	Gravel	
			1,44,966 m <sup>3</sup>	-	1,19,262 m <sup>3</sup>	48,508 m <sup>3</sup>
	Maximum Depth in meters	:	40m below ground level			
14	Depth of water table	:	55m-60m			
15	Man Power requirement per day:	:	25 Nos.			
16	Water requirement:	:	5.0 KLD			
	1. Drinking water	:	0.350 KLD			
	2. Utilized water	:	0.650 KLD			
	3. Dust suppression	:	2.0 KLD			
	4. Green belt	:	2.0 KLD			
17	Power requirement	:	5,73,002 Liters of HSD			
18	Revised precise area communication approved by Assistant Geologist / Assistant	:	Na.Ka.No.G.M.1/725/2022		Dated: 02.06.2023	

  
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	Director (i/c), Department of G&M.				
19	Revised Mining Plan approved by Assistant Geologist / Assistant Director (i/c), Department of G&M.	:	Roc.No.G.M.1/725/2022 20.06.2023	Dated:	
20	Department of G&M, Assistant Geologist / Assistant Director (i/c) 500m Cluster Letter	:	Roc.No.G.M.1/725/2022 10.01.2023	Dated:	
21	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 11.01.2023		
22	Project Cost (excluding EMP cost)	:	Rs. 38,50,000/-		
23	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
			Max Total RoM in m <sup>3</sup>	5,50,652 m <sup>3</sup>	48,508 m <sup>3</sup>
			Annual Max RoM in m <sup>3</sup>	1,19,262 m <sup>3</sup>	48,508 m <sup>3</sup>
		:	Max Depth in mtrs	40m bgl	
24	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 58.43 Lakhs Recurring Cost – Rs. 29.51 Lakhs		
25	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 1,19,262m<sup>3</sup> of rough stone by restricting the ultimate depth of mining up to 40m 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 adopt the **Special Mitigation Measures** stipulated for the quarries located in **Close Proximity to the Windmills** as given in the Annexure without any deviation.
- 3) The PP shall obtain prior permission to carry out the blasting operation from the Director of Mines Safety, Chennai Region, Chennai without fail.
- 4) The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations to the concerned AD (Mines) at the time of execution of lease.
- 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 the existing quarry wall when the depth of the quarry touches 30 m (or) during the 3<sup>rd</sup> year of quarrying operation, by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engg –IIT(Madras), NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 6) As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards the Government High School Ayyanaroothu Village before obtaining CTO from TNPCB.

**Agenda No: 397-15**

**(File No: 10091/2023)**

**Existing Rough Stone and Gravel quarry lease area over an extent of 2.63.0 Ha at S.F.Nos. 202/1 (P) & 202/2 (P) of Ekkattampalayam Village, Perundurai Taluk, Erode District, Tamil Nadu by Thiru. P. Mahendran - For Environmental Clearance.**

**(SIA/TN/MIN/430225/2023, Dated: 22.05.2023)**

The proposal was placed for appraisal in this 397<sup>th</sup> meeting of SEAC held on 03.08.2023. The details of the project furnished by the proponent are given in the

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

1. The project proponent, Thiru. P. Mahendran has applied for Environmental Clearance for the existing Rough Stone and Gravel quarry lease area over an extent of 2.63.0 Ha at S.F.Nos. 202/1 (P) & 202/2 (P) of Ekkattampalayam Village, Perundurai Taluk, Erode District, Tamil Nadu.
2. Earlier, the Proponent, Thiru. P. Mahendran, has applied for Extension of validity of Environmental Clearance for the above said Rough Stone and Gravel Quarry, since earlier EC was issued DEIAA vide Lr. No. DEIAA-ERD/F.No.17505/2016/EC No. (1/17) Dated 27.06.2017.
3. The same was apprised in 369<sup>th</sup> SEAC Meeting held on 20.04.2023 and 378<sup>th</sup> SEAC meeting held on 11.05.2023. During the presentation, PP requested to defer the proposal. Hence, SEAC decided to defer the proposal.
4. As per the OM issued by MOEF&CC Dt. 28.4.2023, the PP has applied for EC for fresh appraisal.
5. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
6. Earlier, the proposal was placed for appraisal in the 384<sup>th</sup> meeting of SEAC held on 16.06.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain the following details.
  - a. From the KML it is seen that there are a number of existing pits located within 500m, but the same was not mentioned in AD 500m cluster letter. Hence, the PP shall furnish a fresh letter indicating the existence of expired/abandoned/existing/proposed quarries from the AD mines & Geology.
  - b. PP shall furnish the details of fencing, green belt & garland drain with photo evidence.
7. On receipt of a reply from the proponent, the proposal was placed in this 397<sup>th</sup> SEAC meeting held on 03.08.2023.
8. Based on the revised 500m cluster letter and other details submitted by the proponent, the Committee noted that Thiru. G. Banugopal and Thiru. P. Venkatachalam have withdrawn their lease applications of area 0.85.0

ha & 1.05.0 Ha respectively and hence it resulted in the current proposal of Thiru. P. Mahendran falls automatically under 'B2' category.

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

File No	10091 / 2023	Category	B2			
Sl. No	Salient Features of the Proposal					
1	Name of the Owner/Firm	:	Thiru. P. Mahendran, S/o. V.K. Palanisamy, No.11/32, Vettukkattu Valasu, Ingur, Perundurai Taluk, Erode District - 638 052.			
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel			
3	S.F Nos. of the quarry site with area break-up	:	202/1 (P) & 202/2 (P)			
4	Village in which situated	:	Ekkattampalayam			
5	Taluk in which situated	:	Perundurai			
6	District in which situated	:	Erode			
7	Extent of quarry (in ha.)	:	2.63.0 Ha			
8	Latitude & Longitude of all corners of the quarry site	:	11°08'51.95"N to 11°08'57.02"N 77°34'09.10"E to 77°34'17.69"E			
9	Topo Sheet No.	:	58-E/12			
10	Type of mining	:	Opencast Mechanized Mining			
11	Life of Project	:	5 years			
	Lease Period	:	5 years			
	Mining Plan Period	:	5 years			
12	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC		
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
			8,45,550 m <sup>3</sup>	25,196 m <sup>3</sup>	-	-
Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel	

  
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			2,90,531 m <sup>3</sup>	15,444 m <sup>3</sup>	-	-
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone	Gravel	Rough Stone	Gravel
			60,685 m <sup>3</sup>	10,098 m <sup>3</sup>	-	-
	Maximum Depth in meters	:	42m below ground level			
13	Depth of water table	:	58m-63m bgl			
14	Man Power requirement per day:	:	37 Nos.			
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	2.0 KLD 0.4 KLD - 1.0 KLD 0.6 KLD			
16	Power requirement	:	2,35,816 Liters of HSD			
17	Precise area communication approved by Assistant Director, Department of G&M.	:	Na.Ka.No.984/Mines/2021 30.12.2021			Dated:
18	Mining Plan approved by Assistant Director, Department of G&M.	:	R.c. No. 984/Mines/2021 07.02.2022			Dated:
19	Department of G&M, Assistant Director 500m Cluster Letter	:	R.c. No. 984/Mines/2021 18.02.2022			Dated:
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 24.01.2022			
21	Project Cost (excluding EMP cost)	:	Rs. 52,49,000/-			
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.		
				Rough Stone	Gravel	
		:	Max Total RoM in m <sup>3</sup>	2,90,531 m <sup>3</sup>	20,394 m <sup>3</sup>	

		: Annual Max RoM in m <sup>3</sup>	60,685 m <sup>3</sup>	10,098m <sup>3</sup>
		: Max Depth in mtrs	42m below ground level	
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 29,81,100/- Recurring Cost – Rs. 19,63,941/-	
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 60,685m<sup>3</sup> of rough stone & 10,098m<sup>3</sup> of gravel by restricting 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 not adopt the 'Deep-hole large diameter drilling and blasting' without obtaining the prior permission obtained from the Director of Mines Safety, DGMS-Chennai Region.
- 3) The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations to the concerned AD (Mines) at the time of execution of lease.
- 4) Within a period of one year from the date of lease execution, the PP shall carry out the scientific studies on optimization of the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute

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

- 5) For 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 the existing quarry wall when the depth of the quarry touches 30 m (or) during the 3<sup>rd</sup> year of quarrying operation, by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engg –IIT(Madras), NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 6) As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards the Panchayat Union Primary School, Veppili, Ekkaatampalayam, Chennimalai Union before obtaining CTO from TNPCB.

**Agenda No. 397 – 16.**


**(File No: 9290/2022)**

**Proposed Rough Stone, Gravel & Weathered Rock quarry lease over an extent of 0.75.50Ha in S.F.Nos.407/2 Thulaiyanur Village, Thirumayam Taluk, Pudukottai District, Tamil Nadu by Thiru. A. Chinniah for Environmental Clearance. (SIA/TN/MIN/247919/2021 Dated 26.05.2022)**

Earlier, the proposal was placed in this 308<sup>th</sup> Meeting of SEAC held on 01.09.2022. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website ([parivesh.nic.in](http://parivesh.nic.in)).

**The SEAC noted the following:**

1. The Project Proponent, Thiru. A. Chinniah has applied for Environmental Clearance for the proposed Rough Stone, Gravel & Weathered Rock quarry lease

  
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over an extent of 0.75.50 Ha in S.F.Nos. 407/2 Thulaiyanur Village, Thirumayam Taluk, Pudukottai District, Tamil Nadu.

2. The proposed quarry/activity would fall under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is 5 years. The mining plan is for the period of 5 years & the production should not exceed 84705 Cu.m. of Rough Stone, 1980 Cu.m of Gravel & 1980 Cu.m of Weathered Rock. The annual peak production 24485 Cu.m. of Rough Stone (3<sup>rd</sup> year), and 1980 Cu.m of Gravel (1<sup>st</sup> Year) & 1980 Cu.m of Weathered Rock (1<sup>st</sup> Year. The ultimate depth – 49 m BGL.
4. It has been observed that the quarry was operated in two spells previously – 2005 to 20010 & 2011 to 2016 and the lease was expired in 2016.

Based on the presentation and documents furnished by the project proponent, SEAC had observed that (i) the Mining Plan approved by the competent authority shows the non-existence of safety zone of 7.5 m and 10 m in adjacent to the patta land and Govt Poramboke land (ii) no benches are formed in the existing pit which is having a depth of 35 m in the area of extent is only 0.75.5 Ha (iii) No Green belt developed in the existing quarry site (iv) No fencing (v) A temple is located at a distance of 250 m from the proposed quarry.

Further under the *Rule 11 (a)* of the Tamil Nadu Minor Mineral Concession Rules 1959:

*".... The minimum area that may be granted or renewed under a lease under this rule for ensuring mining activities to optimum depth shall not be less than one hectare;"*

*The Rule 11 (b) states that ".... The minimum area that may be granted or renewed under a lease under this rule for ensuring mining activities to optimum depth shall not be less than one hectare;*

*Provided that the State Government, if it is satisfied on the basis of proposed production level, geological or topographical conditions may, for the reasons to be recorded in writing, grant or renew a lease over an area more than the maximum area or less than the minimum area specified under this rule...."*

Hence, the SEAC have decided to call for the following details:

1. As there is a temple close to the site within 250 m from the proposed existing

  
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mining area, the PP shall obtain a prior permission letter from the Director of Mines Safety, Chennai Region for carrying out the blasting operations in view of public safety.

2. The SEIAA is requested to obtain the reasons for granting the renewal of existing quarry lease which is less than 1 Ha but with a depth proposed from 35 m to 45 m and a comprehensive report on the slope stability of existing quarry wall without benches & safety of employees/ public considering blasting operation, loading and movement haulage trucks after a site inspection, from the AD/DD, Dept. Of Geology & Mining, Pudukottai as per the TNMMC Rules 1959. The AD may also be asked to explain as to how the mining plan was approved without leaving adequate space for maintaining safety zone and without benches of required dimensions.

Subsequently, the proposal was placed in 553<sup>rd</sup> SEIAA meeting held on 21.09.2022. The authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 01.09.2022

The project proponent has furnished reply on 09.05.2023. The proposal was again placed in the 397<sup>th</sup> meeting of SEAC held on 03.08.2023.

Based on the presentation, documents and on careful examination of reply furnished by the project proponent. SEAC noted that the reasons furnished by the AD Mines was unsatisfactory & unacceptable and besides, the proponent has not maintained benches, quarry wall & haulage roads properly in accordance with the applicable mining laws while carrying out the blasting, excavation and transportation operations for the safety of employees & general public during the previous spell of quarry operation. Hence, keeping the safety and environmental aspects in mind, the SEAC decided not to recommend the proposal for grant of Environmental Clearance.

Agenda No. 397- 17

File No. 9629/2022.

Proposed Rough Stone and Gravel Quarry lease over an extent of 1.17.5Ha S.F.No.116/2B1C, Machipalayam Village, Madukkarai Taluk, Coimbatore District by Tmt.V.Palaniammal - For Environmental Clearance. (SIA/TN/MIN/409056/2022, dt: 02.12.2022)

  
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Earlier, this proposal was placed for appraisal in this 364<sup>th</sup> SEAC meeting held on 23.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

1. The Project Proponent, Tmt.V.Palaniammal has applied for Environmental Clearance for the proposed Rough Stone and Gravel Quarry lease over an extent of 1.17.5Ha S.F.No.116/2B1C, Machipalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of item 1(a) "Mining of Minerals Project" of the Schedule to the EIA Notification,2006.
3. The precise area communication/lease is issued for the period of 5Years. The approved mining plan is for the period of five years & production should not exceed 58720m<sup>3</sup> of Rough Stone and the annual peak production shall not exceed 12420 m<sup>3</sup> of Rough Stone (2<sup>nd</sup> Year)). The ultimate depth is 30m BGL.
4. CCR from MoEF&CC, IRO (SEZ) Dt:13.01.2023.

Based on the presentation and documents furnished by the project proponent, SEAC noted that the PP had not complied with major EC conditions relating to development of green belt, tree planting, fencing, etc. In this regard, SEAC after detailed discussion decided that the PP shall rectify the defects pointed out in the CCR and submit the details, after which SEAC will examine the proposal further. Further, the PP shall obtain the NOC for the proposed activity from the local panchayat/PWD/Competent authority in regard to nearby Kunitipaathi Odai and check dam.

Subsequently, the proposal was placed 613<sup>rd</sup> SEIAA meeting held on 21.04.2023. The Authority decided to communicate the SEAC minutes to the project proponent held on 23.03.2023.

The project Proponent furnished reply on 08.06.2023. The proposal was again placed in the 397<sup>th</sup> meeting of SEAC held on 03.08.2023.

Based on the presentation, documents and on careful examination of replies furnished by the project proponent, SEAC noted that the proponent has proposed a quarry involving blasting and HEMM operations.

Considering the fact that Muthukkarai Pachapalayam Village is located at a distance of 250m and a check dam built across the Kumittiipathi Odai/river is situated at 50m from

  
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the existing quarry lease boundary, the SEAC decided not to recommend the proposal for grant of Environmental Clearance.

Agenda No. 396 – 18.

File No. 9733/2023.

Proposed Rough Stone & Gravel Quarry lease over an extent of 1.71.5Ha S.F.No.116/2B1B & 116/3A2, Nachipalayam Village, Madukkarai Taluk, Coimbatore District by Thiru. A. Palanisamy – for Environmental Clearance. (SIA/TN/MIN/413321/2023, dt: 07.01.2023)

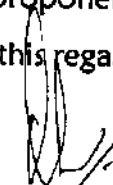
Earlier, this proposal was placed in 372<sup>nd</sup> SEAC meeting held on 27.04.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. Earlier, Thiru. A. Palanisamy has obtained Environmental Clearance for the Proposed Rough Stone & Gravel Quarry lease over an extent of 1.15.5Ha S.F.No.116/2B1B of Nachipalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu vide Lr.No.SEIAA-TN/F.No.3705/EC/1(a)/2647/2015 Dt:15.01.2016.
2. CCR obtained from MoEF&CC, IRO, (SEZ) Vide Lr. E.P/12.1/2022-23/SEIAA/229/TN/74 Dt:13.01.2023.
3. The Project Proponent, Thiru. A. Palanisamy has applied for Environmental Clearance for the Proposed Rough Stone & Gravel Quarry lease over an extent of 1.71.5Ha S.F.No.116/2B1B & 116/3A2, Nachipalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu.
4. The proposed quarry/activity is covered under Category “B2” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006.
5. The precise area communication is issued for the period of 5 Years. The approved mining plan is for the period of five years & production should not exceed 73580m<sup>3</sup> of Rough Stone & 7636m<sup>3</sup> of Gravel and the annual peak production shall not exceed 15150 m<sup>3</sup> of Rough Stone & 2668 m<sup>3</sup> of Gravel. The depth of mining 30m BGL.

Based on the presentation and documents furnished by the project proponent, SEAC noted certain non-compliance previous EC conditions was noticed. In this regard, SEAC

  
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after detailed discussion decided to defer the proposal and the PP shall furnish the following additional particulars

- iii) Enumerate the details of habitations & structures within 300m radius from the proposed mining area
- iv) NOC for the proposed activity from the local panchayat/PWD/Competent authority with regard to nearby Kunitipaathi Odai and its check dam like structure.
- v) Action plan on the CCR.

Subsequently, the proposal was placed in the 619<sup>th</sup> SEIAA meeting held on 18.05.2023. The authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 27.04.2023.

The project Proponent has furnished reply on 22.06. 2023. The proposal was again placed in the 397<sup>th</sup> meeting of SEAC held on 03.08.2023.

Based on the presentation, documents and on careful examination of replies furnished by the project proponent. SEAC noted that the proponent has proposed a quarry involving blasting and HEMM operations.

Considering the fact that Muthukkarai Pachapalayam Village is located at a distance of 250m and a check dam built across the Kumittiipathi Odai/river is situated at 50m from the existing quarry lease boundary, the SEAC decided not to recommend the proposal for grant of Environmental Clearance.


Agenda No: 397- 19.

(File No: 9269/2022)

Proposed Gravel quarry lease over an extent of 4.58.5 Ha at S.F.No. 365/1A & 365/2 Metrathi Village, Madhathukulam Taluk, Tiruppur District, Tamil Nadu by Thiru.A Ravuthar for Environmental Clearance. (SIA/TN/MIN/271908/2022, Dt.09.05.2022)

Earlier, this proposal was placed in this 301<sup>th</sup> Meeting of SEAC held on 06.08.2022. 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. A Ravuthar has applied for Environmental Clearance for the proposed Gravel quarry lease over an extent of 4.58.5 Ha at S.F.No. 365/1A & 365/2 Metrathi Village, Madhathukulam Taluk, Tiruppur

  
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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 precise area communication is issued for the period of 3 years. The approved mining plan is for the period of five years & production should not exceed 35396.5 cu.m of Gravel. The annual peak production is 11845.5 Cu.m of Gravel (1<sup>st</sup> year). The ultimate depth is 2 m BGL

Based on the presentation and documents furnished by the project proponent, SEAC decided to call for following additional particulars for further processing the proposal.

1. The composition/component of the minerals proposed to be quarried shall be tested in any of the laboratories authorized by the Dept of Geology & Mining as directed in the above Judgment and the same shall be authorised by AD/DD, Geology & Mining Dept., Cuddalore District.
2. The proponent should produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the above Judgment.
3. DFO letter regard to proximity of nearby forest area.
4. To furnish copy of certificate obtained from Director General of Mine safety considering nearby habitats and building structures within 300m radius of the proposed mining area.

Subsequently, the proposal was placed in the 549<sup>th</sup> SEIAA meeting held on 05.09.2022. The authority decided to call for the following additional particulars from the project proponent in addition to the said additional particulars sought by the SEAC as follows

- i. Impact on surrounding agricultural fields around the proposed mining Area.
- ii. Erosion Control measures.
- iii. Impact on soil micro flora & vegetation around the project site.

The project Proponent has furnished reply on 01.06.2023. The proposal was again placed 397<sup>th</sup> SEAC meeting held on 03.08.2023. The proponent was absent for the meeting informing that yet to obtain additional details requested by SEAC/SEIAA. Hence, SEAC decided to defer the proposal.

  
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Agenda No: 397- 20

(File No: 9838/2023)

Proposed Rough Stone & Gravel Quarry lease over an extent of 2.15.0Ha S.F.No.538 (Part), Thennilai East Village, Pugalur Taluk, Karur District by M/s. Sri Balamali Murugan Blue Metals – for Environmental Clearance. (SIA/TN/MIN/414121/2023, dt: 18.02.2023)

Earlier, this proposal was placed in 375<sup>th</sup> SEAC meeting held on 04.05.2023. 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. Sri Balamali Murugan Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone & Gravel Quarry lease over an extent of 2.15.0Ha S.F.No.538 (Part), Thennilai East Village, Pugalur Taluk, Karur 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 precise area communication is issued for the period of 5Years. The approved mining plan is for the period of five years & production should not exceed 213101m<sup>3</sup> of Rough Stone & 16m<sup>3</sup> of Gravel. The depth of mining is 60m BGL.

SEAC noted that the project proponent (Tvl. Sri Balamalai Murugan Blue Metals) has already obtained Terms of Reference with Public Hearing vide Lr. No. SEIAA-TN/F.No.8828/SEAC/ToR-1098/2021 Dated:21.03.2022 for the proposed Rough stone and Gravel for over an extent of 4.18.0 ha of Patta land in S.F.No.538 of Thennilai (East) Village, Pugalur Taluk, Karur District, Tamil Nadu.

Based on the presentation made by the project proponent, it was observed that the EIA Coordinator and the PP has not disclosed the history of the previous application seeking TOR vide F.No.8828 / Proposal No. - 68107/2021 that they have obtained Terms of Reference with Public Hearing for the proposed Rough stone and Gravel for over an extent of 4.18.0 ha of Patta land in S.F.No.538 of Thennilai (East) Village, Pugalur Taluk, Karur District. But now the PP has filed new application vide file No. 9838/ Proposal No. 414121/2023 with reduced extent of mining lease area of 2.15.0 Ha with revised mandatory documents with the intention to avoid public hearing.

  
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In view of the above, SEAC has decided to call for explanation from PP and EIA Coordinator for not disclosing the history of the previous application (F.No.8828 – Proposal No. - 68107/2021).


Subsequently, the proposal was placed in the 622<sup>nd</sup> SEIAA meeting held on 26.05.2023. The authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 04.05.2023.

The project Proponent has furnished reply on 20.07.2023. The proposal was again placed in 397<sup>th</sup> SEAC meeting held on 03.08.2023.

During SEAC meeting, Committee noted PP and EIA Coordinator has furnished explanation for not disclosing history of the previous application (F.No.8828 – Proposal No. - 68107/2021) of the earlier proposed Rough stone and Gravel for over an extent of 4.18.0 ha of Patta land in S.F.No.538 of Thennilai (East) Village, Pugalur Taluk, Karur District which was already issued with Terms of Reference with Public Hearing vide Lr. No. SEIAA-TN/F.No.8828/SEAC/ToR-1098/2021 Dated:21.03.2022. In this regard, SEAC after detailed discussion has decided to accept PP's request for withdraw in regard to the F.No.8828 – Proposal No. - 68107/2021, since the proponent has revised all the documents from Dept. of Geology & Mining to the new proposal seeking Environmental Clearance for the Proposed Rough Stone & Gravel Quarry lease over an extent of 2.15.0Ha S.F.No.538 (Part), Thennilai East Village, Pugalur Taluk, Karur District, Tamil Nadu.

Further, based on the presentation and on careful examination of reply furnished by the project proponent. The SEAC decided to call for following additional particulars

1. The project proponent shall furnish Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and with mitigation measures for the non-compliance stated therein.
2. The details of Existing pit dimension, quantity of the mineral quarried and last transport permit for the earlier lease period from Dept. Of Geology & Mining.
3. The Details of penalty levied from Dept. Of Geology & Mining, if any.
4. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of

  
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occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.

5. Since the quarry is existing with a depth of excavation of 22 m without benches of appropriate dimension (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall carry out a 'Slope Stability Assessment Studies' for the existing conditions of the quarry wall by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM - Bengaluru, IIT-Madras, NIT Surathkal – Dept of Mining Engg, and Anna University Chennai –Dept of Mining Engg. The above studies shall spell out 'a 'Slope Stability Action Plan' for the proposed quarry covering the existing condition of the quarry wall including the overall pit slope angle and it shall cover the aspects of stability of quarry walls including the access ramp keeping the benches intact.

6. The Revised EMP for the life of the mine including mine closure plan.

**Agenda No: 397-21**

**(File No: 9467/2022)**

**Proposed Rough Stone & Gravel quarry lease over an extent of 4.07.5 Ha (patta land) at S.F. Nos: 1/1, 1/2, 1/3 & 4/1 of Pallakapalayam Village, Kumarapalayam Taluk, Namakkal District, Tamil Nadu by Thiru.K. Palanisamy -For Environmental Clearance (SIA/TN/MIN/289439/2022, Dt 20.08.2022).**

The proposal was placed in this 397<sup>th</sup> meeting of SEAC held on 03.08.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.K.Palanisamy has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 4.07.5 Ha (patta land) at S.F.Nos: 1/1, 1/2, 1/3 & 4/1 of Pallakapalayam Village, Kumarapalayam 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.
3. The quarry lease was granted for Rough stone quarry by the District Collector, Namakkal vide Proceedings Rc.No.429/Mines/2014, Dated: 18.02.2017 for a

  
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period of five years. The lease deed was executed on 18.02.2017 and the lease period is valid upto 17.02.2022.

4. Quarrying in this lease area was earlier carried out and Environmental clearance was obtained from SEIAA-TN vide Lr.No.SEIAA-TN/F.No.5163/1(a)/EC.No.3205/2016 dated 06.07.2016 for Rough stone & Gravel for the quantity of 90175 cu.m of Rough stone & 31648 cu.m of Gravel upto a depth of 7m BGL at Pallakapalayam Village, Tiruchengode Taluk, Namakkal District over 4.07.5 Ha of the lease area.
5. The PP has obtained Certified Compliance Report vide Lr.No. E.P/12.1/2022-23/SEIAA/269/TN/269 dated: 02.03.2023.
6. The PP has obtained a letter from the AD mines regarding the existing pit dimension & details of permit taken states that  
*"...It is ascertained that the lessee has permitted quantity of 57750cbm of rough stone upto 14.02.2022 for transportation from the lease area".*
7. The existing pit depth 6.5m
8. Subsequently the Secretariat, Industries (MMC 1) Department, Tamil Nadu State has passed an order vide G.O. (Ms) No.208 Industries (MMC.1) Department, Dated: 21.09.2020 and amendment rule 20 to the Tamil Nadu Minor Mineral Concession Rules, 1959 for extension of lease period from 5 years to 10 years.
9. The said rules and its amendment came into force after commencement of the quarrying and as per the settled law the said rule will apply to the existing leases and as such the lease period shall be extended by law to a period of Ten years i.e, 18.02.2017 to 17.02.2027.
10. The present scheme of mining plan is for the period of five years (18.02.2022 to 17.02.2027) & production should not exceed 1,25,660 m<sup>3</sup> of Rough stone & 16,284 m<sup>3</sup> of Gravel. The annual peak production is 29270 m<sup>3</sup> of rough stone & 8142 m<sup>3</sup> of Gravel. The proposed depth is 36.5 m BGL.
11. The salient features of the proposal are as follows:

	9467	Category	1(a) - B2
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File No	Online Proposal: SIA/TN/MIN/289439/2022, Dt 20.08.2022		EC
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	K.Palanisamy, S/o. Kandasamy, New No. 5/267, old No. 141, Mathali Kattu Thottam, Kadayampatty Post, Pudu Kadayampatty, Bhavani Taluk, Erode-638 302.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone )	:	Rough Stone and Gravel
3.	S.F Nos. of the quarry site with area break-up	:	1/1, 1/2, 1/3 & 4/1
4.	Village in which situated	:	Pallakapalayam
5.	Taluk in which situated	:	Kumarapalayam
6.	District in which situated	:	Namakkal
7.	Extent of quarry (in ha.)	:	4.07.5 Ha (patta land)
8.	Latitude & Longitude of all corners of the quarry site	:	11°28'43.94" N to 11°28'52.13" N 77°45'58.76" E to 77°46'07.45" E
9.	Topo Sheet No.	:	58 E/ 15
10.	Type of mining	:	Opencast Mechanized mining
11.	Life of Project	:	5 years
	Lease Period	:	5 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan      As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone- 1595800 m <sup>3</sup> Rough Stone- 1595800 m <sup>3</sup>
		:	Gravel 42150 m <sup>3</sup> Gravel 42150 m <sup>3</sup>
Mirable Resources m <sup>3</sup> (RoM)	:	Rough Stone - 788540m <sup>3</sup> Rough Stone - 788540m <sup>3</sup>	

  
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		Gravel 30866m <sup>3</sup>	Gravel 30866m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	Rough Stone – 29270 m <sup>3</sup>	Rough Stone – 29270 m <sup>3</sup>
		Gravel 8142 m <sup>3</sup>	Gravel 8142 m <sup>3</sup>
	Maximum Depth in meters	: 41.5 m BGL	
13.	Depth of water table	: 67m in Summer Season & 62m In Rainy Season	
14.	Man Power requirement per day:	: 20 nos	
15.	Water requirement: 1. Drinking water 2. Utilized Water 3. Dust suppression 4. Green belt	1.5 KLD  0.3 KLD 0.7 KLD 0.5 KLD	
16.	Power requirement	TNEB 1,03,238 Liters of HSD	
17.	Precise area communication approved by the District Collector	: Na.Ka.No.429/Kaniam/2014 Dated:18.02.2017	
18.	Mining Plan approved by Assistant Director, Dept of G&M.	: Rc.No.547/Mines/2021 Dated: 01.07.2022	
19.	Assistant Director, Dept of G&M 500m Cluster Letter	: Rc.No.547/Mines/2021 Dated: 21.07.2022	
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Dated:13.04.2022	
21.	Project Cost (excluding EMP cost)	: Rs.49.07,000/-	
22.	EC Recommendation	: Validity	30 years subject to the following upper limits.
			Rough Stone      Gravel
		: Max Total RoM in m <sup>3</sup>	1,25,660 m <sup>3</sup> 16,284 m <sup>3</sup>
	: Annual Max RoM in m <sup>3</sup>	29270 m <sup>3</sup> 8142 m <sup>3</sup>	

		:	Max Depth in mtrs	41.5 m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital Cost: Rs. 3414250/- Recurring Cost: Rs. 1561616/-	
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000 /- as accepted by the PP	

Earlier, this proposal was placed in the 360<sup>th</sup> meeting of SEAC held on 03.03.2023. Based on the presentation and details furnished by the project proponent, the Committee noted that there is non-compliance of many of the conditions as stipulated in the EC granted earlier as per the Certified Compliance Report, submitted by the proponent. Hence, the committee after detailed discussions decided to consider the proposal only after obtaining the adequate responses from the PP for the following points:

- i) The proponent shall erect the 'S3 (or) G2' type of Barbed wire fencing all around the boundary of the existing working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and the photographs showing the images of the same shall be furnished.
- ii) As per the EC issued earlier, the proponent shall complete the plantation as a part of Greenbelt development by considering the native species on all sides of the lease area at the rate of 500 nos / Ha. All the tree samplings should be planted around the boundary of the quarry site.
- iii) The PP shall also install the ear-marked boundary pillars along the wire fencing as per the approved Mining Plan.
- iv) The proponent shall comply with all other necessary conditions as per the earlier EC issued dated.06.07.2016 given below:
  - a. The PP shall show the photographic evidences indicating the rainwater harvesting measures.
  - b. The PP shall submit photographic evidences indicating Garland drain all around the boundary of the project area.
  - c. The PP shall furnish proof of separate account for maintaining the funds earmarked for Environmental Protection Measures.

  
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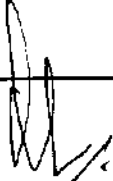
- d. The PP shall provide proof of solar lighting system provided to the nearby village.
- v) Besides, the structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds, etc.

On the receipt of the same it was again been placed in the 397<sup>th</sup> meeting of SEAC held on 03.08.2023. During the meeting the PP has made the representation along the above said details.

S.NO	SEAC QUERY	REPLY
1	The proponent shall erect the 'S3 (or) G2' type of Barbed wire fencing all around the boundary of the existing working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and the photographs showing the images of the same shall be furnished.	Proponent has erected fencing all along the lease area as recommended.
2	As per the EC issued earlier, the proponent shall complete the plantation as a part of Greenbelt development by considering the native species on all sides of the lease area at the rate of 500 nos/Ha. All the tree sampling should be planted around the boundary of the quarry site.	The proponent carried out plantation activities by planting native species all along the boundary barriers within the Existing Quarry Lease. Proponent carried out plantation within the project site. Name of the tree – Neem and pungan. Total number planted – 1500 Nos.
3	The PP shall also install the ear-marked boundary pillars along the wire fencing as per the approved Mining Plan.	The boundary pillar has been earmarked as per Approved Mining plan and fencing is completed.

4	The proponent shall comply with all other necessary conditions as per the earlier EC issued dated.06.07.2016 given below:										
a	The PP shall show the photographic evidences indicating the rainwater harvesting measures.	During rainy season, the runoff water from the Garland drain will be stored in the rainwater harvesting pit (the existing pit will be used as Rain water harvesting Structure). This water will utilized for the Dust suppression and Green belt development activities.									
b	The PP shall submit photographic evidences indicating Garland drain all around the boundary of the project area.	The Garland drain was laid all around the boundary of lease area to collect runoff rain water from the surface.									
c	The PP shall furnish proof of separate account for maintaining the funds earmarked for Environmental protection measures.	Separate account for Environmental Management Plan was created and details given.									
d	The PP shall provide proof of solar lighting system provided to the nearby Village.	The Project Proponent provided 15 solar lamps and 100 nos of trees to the Pallakapalayam village panchayat and letter given.									
5	Besides, the structure within the radius of (i) 50m, (ii) 100m, (iii) 200m and (iv) 300m shall be enumerated with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds, etc..	<p>Structure studies has been carried out in the project area, the structure details within 300m are given below</p> <table border="1" data-bbox="885 1579 1404 1937"> <thead> <tr> <th data-bbox="885 1579 1031 1713">Distance</th> <th data-bbox="1031 1579 1193 1713">No of Structures</th> <th data-bbox="1193 1579 1404 1713">Type of Structure</th> </tr> </thead> <tbody> <tr> <td data-bbox="885 1713 1031 1803">0 - 50m</td> <td data-bbox="1031 1713 1193 1803">-</td> <td data-bbox="1193 1713 1404 1803">-</td> </tr> <tr> <td data-bbox="885 1803 1031 1937">50-100m</td> <td data-bbox="1031 1803 1193 1937">-</td> <td data-bbox="1193 1803 1404 1937">-</td> </tr> </tbody> </table>	Distance	No of Structures	Type of Structure	0 - 50m	-	-	50-100m	-	-
Distance	No of Structures	Type of Structure									
0 - 50m	-	-									
50-100m	-	-									

  
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		100-200m	2	1 – Shed, 1 - Crusher
		200 – 300m	4	2 – Shed, 1 – Crusher office & 1 – Ware House (Godown)

The SEAC carefully examined the replies and 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 29270 m<sup>3</sup> of rough stone & 8142 m<sup>3</sup> of Gravel by maintaining the ultimate depth of mining upto 41.5 m 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 Committee directed the Project Proponent to comply with all the non-compliances within a period of six months from the date of execution of lease and to submit a sworn affidavit accordingly in Tamil in this regard.
3. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna



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

4. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 3<sup>rd</sup> year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
5. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Government High School, Pallakapalayam Village before obtaining CTO from TNPCB.

**Agenda No: 397-22**

**(File No: 9657/2022)**

**Proposed Rough Stone & Gravel lease over an extent of 1.00.0 Ha (patta land) at S.F.No's: 35/2 (P) of Agrahara Periyapalayam Village, Uthukuli Taluk, Tiruppur District, Tamil Nadu by Tmt. K. Subbulakshmi -For Environmental Clearance (SIA/TN/MIN/410939/2022 dt 17.12.2022).**

The proposal was placed in this 397<sup>th</sup> meeting of SEAC held on 03.08.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Tmt. K. Subbulakshmi has applied for Environmental Clearance for the Proposed Rough Stone & Gravel lease over an extent of 1.00.0 Ha (patta land) at S.F.No's: 35/2 (P) of Agrahara Periyapalayam Village, Uthukuli Taluk, Tiruppur 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.

  
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3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 34,750 m<sup>3</sup> of Rough Stone & 13,280 m<sup>3</sup> of Gravel. The annual peak production is 7110 m<sup>3</sup> of Rough Stone & 5,440 m<sup>3</sup> of Gravel up to a depth of 27m (2m Gravel+25m Rough Stone) BGL.

Earlier, this proposal was placed in this 365<sup>th</sup> meeting of SEAC held on 24.03.2023. Based on the presentation and documents furnished by the project proponent, SEAC noted that there are some structures located in the danger zone of the proposed quarry. Hence, the Committee decided to call for certain additional particulars as follows.

- i. The proponent shall enumerate on the details of the structures located within 50m, 100m, 200m, 300m radius from the proposed mine lease area indicating the type of structure/building, usage/purposes of such building – commercial/industrial/residential/farm house/Govt. building such as Sub-station, occupants of such buildings/structures, ownership of the buildings/structures whether it belongs to the PP (or) not, etc.
- ii. The fugitive studies due to proposed mining activity which may cause impacts like dust, vibration, etc., should be furnished.
- iii. Site map reveals that there is a temple located at 190m (W) from the proposed lease area. Hence, the PP shall furnish details indicating the ownership of temple, details of festival season & average devotee attendance etc.,

With the receipt of the above details, it was again been placed in the 397<sup>th</sup> meeting of SEAC held on 03.08.2023. During the meeting the PP has made the representation along the above said details.

SEAC had noted the following during the presentation made by the PP;

1. SEAC noted that there are many structures as below.
  - In 50 – 100m radius – Railway line connecting Tiruppur-Erode.
  - In 100 – 200m Radius – 1 Temple.
  - In 200 – 300m Radius - 11 Houses, 14 sheds, 2 Tank, 6 Tiled Roof House, 1 temple, 1 asbestos shed, 1 crusher.
2. There are considerable number of structures located nearby may be disturbed due to the proposed quarrying activities in terms of dust, noise and water pollutions.

  
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3. The proposed quarry site is important or sensitive for ecological reasons – wet lands, water sources or other water bodies, coastal zone, biospheres, mountains, flora & fauna, etc.
4. Further, the Reg. 109 of Metalliferrous Mines Regulations 1961 (MMR 1961) states that  
*“..... Workings under railways and roads, etc. – (1) No workings shall be made and no work of extraction or reduction of pillars shall be conducted at, or extended to, any point within 45 metres of any railway, or of any public works in respect of which this regulation is applicable by reason of any general or special order of the Central Government, or of any public road or building, or of other permanent structure not belonging to the owner of the mine, without the prior permission in writing of the Chief Inspector and subject to such conditions as he may specify therein.....”*

Based on the presentation, documents and on careful examination of reply furnished by the project proponent. SEAC noted that the proponent has proposed a quarry in greenfield area, involving blasting and HEMM operations near populated habitations as furnished by the PP.

Considering the proximity and sensitivity of the habitation and temple located within a radial distance of 300m and a railway track which is situated at 50 to 100m range from the existing quarry lease boundary, the SEAC decided not to recommend the proposal for grant of Environmental Clearance.

**Agenda No: 397-23**

**(File No: 9783/2022)**

**Proposed Rough stone quarry lease over an extent of 2.00.0 Ha (Govt. Poramboke land) at S.F. No.67 (Part) of Kunniyur Village, Kallakurichi Taluk, Viluppuram District, Tamil Nadu by Thiru. K.Sakthivel -For Environmental Clearance (SIA/TN/MIN/415853/2023,Dated: 25.01.2023).**

The proposal was placed in this 397<sup>th</sup> meeting of SEAC held on 03.08.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru.K.Sakthivel has applied for Environmental

  
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Clearance for the proposed rough stone quarry lease over an extent of 2.00.0 Ha at S.F. No.67 (Part) Kunniyur Village, Kallakurichi Taluk, Viluppuram 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. As per the mining plan, the lease period is for 5 years. The production as per mining plan for 5 years not to exceed – 322719 m<sup>3</sup> of rough stone. The Annual peak production as per mining plan is 64695 m<sup>3</sup> Rough stone with ultimate depth of 45m (5m AGL + 40mBGL).
4. Earlier appl No. SIA/TN/MIN/234044/2021 dt: 13.10.2021 (File No. 8850/2021) was appraised vide 272<sup>nd</sup> Meeting of SEAC held on 13.05.2022. Based on the presentation and documents furnished by the project proponent, SEAC noted that in G.O(MS) No. 295 dated 03.11.2021 the Government in Industries Department has notified the following Rules specifying certain conditions for permitting mining activities near ecologically sensitive areas.

*"... No quarrying or mining or crushing activities shall be carried out within one-kilometer radial distance or the protective distance as notified by the Ministry of Environment, Forest and Climate Change, Government of India from time to time, whichever is more, from the boundaries of ecologically sensitive areas, environmentally and ecologically sensitive protected areas such as the National parks, Wild life Sanctuaries, Tiger Reserves, Elephant corridors and Reserve Forests".*

The Committee noted that the Risivanthiyam RF is located within a distance of 1 km from this project site and the proposal is, therefore, hit by the above G.O. The Committee, therefore, decided not to recommend the proposal and same was accepted in 517<sup>th</sup> meeting of SEIAA held on 06.06.2022.

5. As per the G.O. (Ms.) No. 243 industries, Investment promotion and Commerce (MMC.1) Department dated 14.12.2022, Amendment to the Tamil Nadu Minor Mineral Concession Rules, 1959 as follows,

*"...In the said rules, in rule 36, in Sub-rule (1-A), in Clause(e) for the expression "the National Parks, Wild Life Sanctuaries, Tiger Reserves,*

*Elephant Corridors and Reserve Forests”, the expression “National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors” shall be substituted...”*

6. Now, the Proponent has resubmitted the same proposal vide online application No. SIA/TN/MIN/415853/2023 dt: 25.01.2023 (File No. 9783/2023) with all necessary supporting documents in order to obtain Environmental Clearance.

Description	Old File	New File
File No	8850	9783
Online Proposal No for EC	SIA/TN/MIN/234044/2021 dt: 13.10.2021	SIA/TN/MIN/415853/2023 dt: 25.01.2023

7. The salient features of the proposed project are as follows.

File No	9783	Category	1(a) - B2
	Online Proposal: SIA/TN/MIN/415853/2023, Dated: 25.01.2023		EC
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.K.Sakthivel, S/o.Kannan, No.2/69,SouthStreet, Pallagacherry village & post, Sankarapuram Taluk, Viluppuram district-606201.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone
3.	S.F Nos. of the quarry site with area break-up	:	67 (Part)
4.	Village in which situated	:	Kunniyur
5.	Taluk in which situated	:	Kallakurichi
6.	District in which situated	:	Viluppuram
7.	Extent of quarry (in ha.)	:	2.00.0 Ha (Govt. Poramboke land)
8.	Latitude & Longitude of all corners of the quarry site	:	11°45'35"N to 11°45'41"N 79°06'49"E to 79°06'55"E

  
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9.	Topo Sheet No.	:	58 M/01
10.	Type of mining	:	Opencast Mechanized method of Mining
11.	Life of Project	:	5 years
	Lease Period	:	5 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone-876120 m <sup>3</sup>
	Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone - 322719m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone - 64695 m <sup>3</sup>
	Ultimate Depth in meters	:	45m (5m AGL + 40m BGL)
13.	Depth of water table	:	55m BGL
14.	Man Power requirement per day:	:	18 Nos
15.	Water requirement: 1. Drinking water 2. Utilized Water 3. Dust suppression 4. Green belt	:	2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD
16.	Power requirement	:	TNEB 258175 liters of HSD
17.	Precise area communication approved by the District Collector with date	:	Na.Ka.No. B/G&M/688/2019, dated: 13.11.2019
18.	Mining Plan approved by Assistant Director, Geology and Mining with date	:	RC.No. B/G&M/688/2019, dated: 21.11.2019
19.	Assistant Director, Geology and Mining, 500m Cluster Letter	:	Rc.No. B/G&M/688/2019, dated: 21.11.2019
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dt: 28.08.2021
21.	Project Cost (excluding EMP cost)	:	Rs. 67,82,000/-

  
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22.	EC Recommendation	: Validity	30 years subject to the following upper limits. Rough Stone
		: Max Total RoM in m <sup>3</sup>	3,17,854 m <sup>3</sup>
		: Annual Max RoM in m <sup>3</sup>	64,695 m <sup>3</sup>
		: Max Depth in mtrs	45m (5m AGL + 40m BGL)
23.	EMP cost (in Rs. Lakh).	: Capital Cost: 12,27,000/- Recurring Cost: 26,68,095/-	
24.	CER cost (in Rs. Lakh).	: Rs.5,00,000/-as accepted by the PP	

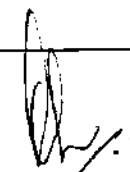
Earlier, this proposal was placed in the 373<sup>rd</sup> Meeting of SEAC held on 28.04.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following details.

1. The PP shall furnish revised EMP by including Slope stability action plan as the proposed depth is more than 40m.
2. As the Govt. Elementary school is located at a distance of 0.46 km from the proposed site, the implications of the proposed mining operations on the functioning of the school and the mitigation measures proposed.

On the receipt of the same, it was again been placed in the 397<sup>th</sup> meeting of SEAC held on 03.08.2023. During the meeting the PP has made the representation along the above said details.

S.No	SEAC Minutes	Reply
1	The PP shall furnish revised EMP by including Slope Stability Action plan as the proposed depth is more than 40m.	EMP has been revised by including Slope Stability Action plan cost as Rs. 2,00,000/-.
2	As the Govt. Elementary School is located at a distance of 0.46 km from the proposed site, the implications of the proposed mining operations on the functioning of the school and	As per the CER Letter provided by School Headmaster, Panchayat Union Primary School, Kunniyur, only 27 no's of students are studying in the school. <b>MITIGATION MEASURES FOR AIR &amp; DUST SUPPRESSION</b>

  
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	<p>the mitigation measures proposed.</p>	<ol style="list-style-type: none"> <li>1. Air or dust expected to be generated from drilling process, hauling roads, places of excavation, etc., will be suppressed by periodical wetting of land by water spraying.</li> <li>2. Wet drilling and dust extractor arrangements will be provided to drilling units so as to control raise of dust from the site of drilling.</li> <li>3. Water will be sprinkled in haul roads to avoid the flying of dust.</li> <li>4. Greenbelt development all around the school periphery will be planted to minimize the air and noise pollution</li> <li>5. Thick layers of green belt having 2 rows will be planted on the North Side of the project site to avoid the dust suppression and to control the noise level.</li> <li>6. Galvanized sheet at the height of 10 feet in the Northern side of the proposed project site will be provided following the two rows of thick greenbelt to avoid the dust flow in the proposed site.</li> </ol> <p><b>MITIGATION MEASURES FOR NOISE CONTROL AND VIBRATION:</b></p> <ol style="list-style-type: none"> <li>1. <b>Monitoring of Noise Level:</b> Quarrying of Rough Stone will be carried out by drilling and blasting by using low power explosives, and hence, noise will be very minimum. However, periodical noise level monitoring will be carried out to check the noise level in and around the quarry site. Nowhere, the noise level should exceed the permissible limit of 80 dB during the quarry working hours, which will not disturb the school surroundings and education purpose.</li> <li>2. <b>Blasting Time:</b> Blasting will be done at evening 5 P.M to 6 P.M only. At that time, there will be no person available</li> </ol>
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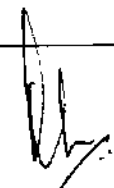
  
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		<p>in school and its surroundings, will be ensured. It will be safe to do.</p> <p>3. <b>Blasting Management:</b> Controlled blasting techniques will be adopted for minimizing the vibration levels. It can involve pre-splitting the rock, using less explosive materials, or staggering blasts to reduce their cumulative impact.</p> <p>4. <b>Equipment Selection and Maintenance:</b> Shallow depths jackhammer drilling and blasting is proposed to be carried out with minimum use of explosive mainly to give the shattering effect in rough stone for easy excavation and to control fly rock. to minimize the blasting effects and vibration effect.</p> <p>5. <b>Community Engagement:</b> Engage with local community to understand their concerns and address any issue related to noise and vibration. It will helps to lead a better collaboration and the implementation of more effective measures.</p> <p>6. <b>Greenbelt development:</b> Planting trees and vegetation around the quarry will act as a natural barrier, helps to absorb noise and reduce the visual impact of the quarry. The proponent agreed to plant 1000 Trees around the quarry and 50 trees around the school campus periphery.</p> <p>7. <b>Traffic Management:</b> Traffic management strategies will be implemented to reduce noise and vibration from trucks and vehicles transporting materials to and from the quarry. It will include the designated haul road routes and speed limits to be operated.</p>
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		<p><b>8. Noise Barriers and Absorptive Surfaces:</b> Installing and using absorptive materials on machinery and surfaces will help to reduce noise reflection and propagation.</p>
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The SEAC carefully examined the replies and 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 64,695 m<sup>3</sup> of rough stone by maintaining the ultimate depth of mining upto 45m (5m AGL + 40m BGL) and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. Since the Govt. Elementary School is located at a distance of 500 m from the proposed site, the Project Proponent shall also install necessary dust and noise extraction system around the Northern side of the proposed quarry site using long wind sheets with proper enclosures before obtaining the CTO from TNPCB.
3. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations by having monitoring stations placed at Govt Elementary School and eliminating the fly rock beyond 10 m from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

  
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4. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations to the concerned AD (Mines) at the time of execution of lease and it shall distinctly indicate the hours of blasting, posting of guards at the school premises/sensitive structures and appointment of qualified statutory person for execution of blasting operation under MMR 1961.
5. The PP shall furnish a SoP for the traffic management of all the vehicles plying out of the quarry and prohibition of vehicle movement during the school opening & closing hours to the concerned AD (Mines) at the time of lease execution.
6. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 3<sup>rd</sup> year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
7. The PP shall strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site.
8. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Primary School, Kunniyur Village before obtaining CTO from TNPCB.


**Agenda No: 397-24**

**(File No: 9609/2022)**

**Proposed Rough Stone & Gravel lease over an extent of 2.27.0 Ha at S.F.No's: 11/1B, 11/2A, 11/2B & 12/2F3 of Vellalapatty Village, Omalur Taluk, Salem District, Tamil Nadu by Thiru C.Nallayan -For Environmental Clearance (SIA/TN/MIN/404490/2022 dt 28.10.2022).**

The proposal was placed in this 397<sup>th</sup> meeting of SEAC held on 03.08.2023. The details of the project furnished by the proponent are available in the website ([parivesh.nic.in](http://parivesh.nic.in)).


The SEAC noted the following:

  
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1. The Project Proponent, C.Nallayan has applied for Environmental Clearance for the Proposed Rough Stone & Gravel lease over an extent of 2.27.0 Ha at S.F.No's: 11/1B, 11/2A, 11/2B & 12/2F3 of Vellalapatty Village, Omalur 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.
3. Environmental clearance for the lease area was obtained earlier from SEIAA-TN, vide Lr.No. SEIAA-TN/F.No.7237/EC/1(a)/4561/2020, dated 24.02.2021 in the name of Thiru. C.Nallaiyan for Rough stone & Gravel quarrying at S.F.No's: 11/1B, 11/2A, 11/2B & 12/2F3, Vellalapatti Village, Omalur Taluk, Salem District, Tamil Nadu for the quantity of 24381 m<sup>3</sup> of Rough Stone & 6,758 m<sup>3</sup> of gravel upto a depth of 17m BGL.
4. As per the approved modified mining plan the lease period is 5 years. The mining plan is for the period of 05.05.2022 to 04.05.2026 & production should not exceed 43,282 m<sup>3</sup> of Rough Stone & 6,758 m<sup>3</sup> of gravel. The annual peak production is 10922 m<sup>3</sup> of Rough Stone & 3386 m<sup>3</sup> of Gravel. The ultimate depth is 17mBGL.
5. No change in lease area & Extent, production load increased to 82%.
6. Earlier, this proposal was placed in this 363<sup>rd</sup> meeting of SEAC held on 14.03.2023. Based on the presentation made by the proponent, the SEAC called for the following details from the PP.
  - i. The PP shall submit Certified Compliance Report obtained from the office of IRO, MoEF & CC, Chennai on the existing EC issued and appropriate mitigating measures for the non-compliance items, if any.
  - ii. The PP shall furnish a letter obtained from AD/DD Mine & Geology with respect to exact depth of existing Pit, period of the operation and stoppage of the earlier mines & quantity of minerals mined out.
  - iii. The proponent shall erect the 'S3 (or) G2' type of Barbed wire fencing all around the boundary of the existing working quarry with gates for entry/exit.

  
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- iv. the proponent shall complete the plantation as a part of Greenbelt development by considering the native species on all sides of the lease area.
- v. The PP shall submit photographical evidences indicating Garland drain all around the boundary of the project area.
- vi. The PP shall enumerate the permanent structures - which may belongs to the PP or not - situated within 100m, 200m & 300m radius of the proposed mining area.

On the receipt of the same it was again been placed in the 397<sup>th</sup> meeting of SEAC held on 03.08.2023. During the meeting the PP has made the representation along the above said details.

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

- i. There are considerable number of structures/habitations located within 300m radius may be disturbed due to the proposed quarrying activities in terms of dust, noise and water pollutions.
- ii. The proponent has not maintained any safety zone/barrier and proper benches during the mining operations carried out in the earlier EC period.
- iii. The PP had carried out the mining operation in an unsystematic and highly unscientific manner during the previous EC period.
- iv. From the letter issued by the Deputy Director, Dept. of Geology and Mining vide Roc.No.371/2022/Mines-B dated:30.05.2023, it is learnt that the PP exceeded the permitted quantity and depth approved in the earlier EC period. Hence, the SEAC decided to refer SEIAA office to address letter to the Director, Dept. of Geology and Mining, Chennai for taking necessary action and assessment of penalty in accordance with the mineral laws.

From the presentation made and documents submitted by the PP, the SEAC after having the detailed discussions and in view of the additional information now made available it is ascertained that the PP is unfit for carrying out further mining operations under the provisions of MMDR Act, 1957 and TNMMC Rules, 1959. Hence the SEAC decided strongly not to recommend the proposal for grant of Environmental Clearance.

  
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Agenda No: 397-25


(File No.4947/2021)

Existing grey granite quarry lease over an extent of 2.85.5 Ha in S.F.Nos. 377/1B, 378/2, 377/2A, 378/1, 377/2B, 377/1A1B & 377/1A2 of Chendarapalli Village, Bargur Taluk (Formerly Krishnagiri), Krishnagiri District, Tamilnadu by Thiru. A. Aameed – For Extension of validity in Environmental Clearance issued. (SIA/TN/MIN/194253/2021 dated: 21.01.2021.)

The proposal was placed in the 397<sup>th</sup> meeting of SEAC held on 03.08.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. A. Aameed has applied for Extension of validity in Environmental Clearance issued for the Existing grey granite quarry lease over an extent of 2.85.5 Ha in S.F.Nos. 377/1B, 378/2, 377/2A, 378/1, 377/2B, 377/1A1B & 377/1A2 of Chendarapalli Village, Bargur Taluk (Formerly Krishnagiri), Krishnagiri District, Tamilnadu.
2. Environmental Clearance was issued to the proponent vide Lr.No. SEIAA-TN/F.No.4947/1(a)/EC.No.2808/2015 dated. 08.02.2016 which will be co-terminus with the lease period or limited to a maximum period of 5 years from the date of EC of issue. The lease is valid upto 02.03.2036. Hence, EC issued earlier was valid up to 07.02.2022 including COVID extension.
3. However, the proponent has applied seeking an extension of validity for the above-mentioned EC on 21.01.2021 along with a scheme of mining for a period of 5 years from 2021-2016 for the quantity of 19,150m<sup>3</sup> of RoM including 4787m<sup>3</sup> of grey granite (@25% recovery) & 14,363m<sup>3</sup> of granite waste (@ 75%) & also 684m<sup>3</sup> of weathered rock & 483m<sup>3</sup> of topsoil when the subsisting EC & lease are available.
4. MoEF&CC Notification, S.O.1807(E) dated.12.04.2022 regarding extension of validity of Environmental Clearance.
5. MoEF&CC O.M dated 13.12.2022 regarding clarification on S.O.1807(E) dated 12.04.2022.

  
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6. Earlier, the proposal was placed for appraisal in the 379<sup>th</sup> meeting of SEAC held on 12.05.2023. During the meeting, the proponent stated that he is eligible for an automatic extension as per the MoEF&CC notification dated 12.04.2022 and O.M dated 13.12.2022 and hence requested for the same.

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


- i) The proponent shall furnish the work carried out to comply with the non-compliance conditions as mentioned in the Certified Compliance report dated.21.01.2022 obtained from IRO, MoEF&CC, Chennai for the EC obtained earlier.
7. The proponent vide letter dated.06.07.2023, furnished a reply to the queries raised by SEAC.
8. In view of this, the proposal is again placed in this 397<sup>th</sup> SEAC meeting.

The SEAC noted that as per OM Dated 13.12.2022, Clarification on the amendment to EIA Notification 2006 issued vide S.O. No. 1807(E) dated 12.04.2022 with regard to validity of Environment Clearance, para 2 (ii) states that...

*"The Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the EIA Notification 2006 as on the date of publication of Notification i.e., 12.04.2022 shall stand automatically extended to respective increased validity as mentioned at Para no. 1 column (C) above."*

Based on the presentation made by the proponent, the SEAC confirmed that the proposal qualifies for 'automatic extension' as per the above OM issued by the MoEF&CC.

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## ANNEXURE-I

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

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

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

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

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

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

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

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

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

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

  
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### ROUGH STONE/JELLY/BLUE METAL QUARRY

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

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

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

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



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

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

32) To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.

33) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.

34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.

35) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.

36) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.

37) All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.

38) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole

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


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

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

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


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

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

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

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

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

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

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



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


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

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

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

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

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

  
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## Annexure II

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

#### 1. Statutory Compliance:

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

  
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9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
  10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- 2. Air quality monitoring and preservation:**
1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
  2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
  3. The project proponent shall install a system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM25) covering upwind and downwind directions during the construction period.
  4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
  5. Sand, murrum, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.
  6. Wet jet shall be provided for grinding and stone cutting.
  7. Unpaved surfaces and loose soil should be adequately sprinkled with water to suppress dust.
  8. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly

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

9. The diesel generator sets to be used during construction phase shall be low Sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.

10. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.

11. For indoor air quality the ventilation provisions as per National Building Code of India.

### 3. Water Quality Monitoring and Preservation:

1. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.

2. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.

3. Total freshwater use shall not exceed the proposed requirement as provided in the project details.

4. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).

5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be

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



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

4. Noise Monitoring and Prevention:

1. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
  2. Noise level survey shall be carried out as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of Half Yearly Compliance Report (HYCR).
  3. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.
- 5. Energy Conservation Measures:**
1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
  2. Outdoor and common area lighting shall be LED.
  3. The proponent shall provide solar panels covering a minimum of 50% of terrace area as committed.
  4. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
  5. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
  6. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building byelaws requirement, whichever is higher.

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

**6. Waste Management:**

1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
2. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people. only in approved sites with the approval of competent authority.
3. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
6. Any hazardous waste generated during construction phase shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
7. Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.

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

**7. Green Cover:**

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

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

**8. Transport:**

1. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.

- a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
- b. Traffic calming measures.
- c. Proper design of entry and exit points.
- d. Parking norms as per local regulation.

2. Vehicles hired to bring construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.

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

**9. Human Health Issues:**

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

**10. Corporate Environment Responsibility:**

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

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

**11. Miscellaneous:**

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

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

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

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	வில்லம்
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சள், ஆனைக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாளை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Punnai	புனை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரசமரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கோங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூலி
18	<i>Creteva adansonii</i>	Mavalingum	மாவலிங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sebenum</i>	Karungali	கருங்காணி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகனை
23	<i>Ficus amplissima</i>	Kallichi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பூவை
25	<i>Hartwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம், ஆயில்
27	<i>Lannea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விளா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பின்பட்டை, பிளின்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பழை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழமரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனா
38	<i>Phoenix sylvestre</i>	Eachai	நச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

40	<i>Premna mollissima</i>	Munnai	முள்ளை
41	<i>Premna serratifolia</i>	Narumunnai	50 முள்ளை
42	<i>Premna tomentosa</i>	Malaiipoovarasu	மலை பூங்கா
43	<i>Prosopis cinerea</i>	Vanni maram	வானி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்டாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	பூவு
47	<i>Puthranjioa roxburghii</i>	Karipala	கரிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புகள் சோபுகை
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Strobilus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxdomic</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாங் கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்டி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேன் மருது
57	<i>Toona ciliate</i>	Sandhana vembu	சந்தாண வேம்பு
58	<i>Thespesia populnea</i>	Pirvarasu	பூங்கா
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecollobium dulce</i>	Kodukkapuli	கோடுக்காபுளி

Appendix –III

Display Board


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

கார்ப்பீட்டம்

கார்ப்பீட்டத்தில் குவாரி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEAW, தேதி 19.12.20, சுற்றுச்சூழல் அனுமதி தேதி வரை செயல்படுத்தக்கூடாது உள்ளது.

பயணம் பகுதி வார்ப்சி வெளியீட்டுக்கான அடிக்கட்டு	குவாரியின் எல்லைவரை சுற்றி வேலி அமைக்க வேண்டும் அடிக்கட்டுகளின் ஆழம் தரமுடிபடுத்திவிட்டு மீட்டர்க்கு மிசாமல் இருக்க வேண்டும் காற்றில் பரவ ஏற்படாதவாறு அடிக்கட்டுகளை பராமரிக்க வேண்டும்.
நடவடிக்கை புறவழிப்பாதை வேலைகளை முடிக்க எண்ணிக்கை:	வாசல்களைச் செல்லும் பாதையில் பரவ ஏற்படாத அளவிற்கு தண்ணீர் முழுவதும் குவிக்க வேண்டும். இயற்கை அமைதியை தாக்காதவாறு குவாரியின் எல்லைவரை சுற்றி அடக்குதலை பயணம் பகுதியை ஏற்படுத்த வேண்டும்.
அடிக்கட்டுகள் வெறு எவற்றையும் செய்யும் நிலைநிறுவுகல் ஏற்படாதவாறு மண்ணை சுத்தம் செய்து பராமரிக்க வேண்டும்	
அடிக்கட்டுகளை இடைவிடாமல் இயற்கை அமைதி 25 செ.மீ.வரை (25A) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.	
அடிக்கட்டு விதிக்க 1988ல் கீழ் அடிக்கட்டுகள் உள் பராமரிக்கவேண்டும் தகுந்த பராமரிப்பு கருவிகள் வழங்குவதோடு கடைசியாகும் வரையில் வாரியத்தை அறிவிக்க வேண்டும்.	
கிராமம் அல்லது பஞ்சாயத்து வாரியக வாரியர்கள் செல்லும் சாலைகளை தெரிந்து தங்கு பராமரிக்க வேண்டும்.	
அடிக்கட்டுப்பராமரிக்க அடிக்கட்டு உள் விவசாயம் பராமரிக்க மண்ணை தீர்ந்திடுவதை பாதிக்கக்கூடாது.	
நீர்நிலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் திறந்த நீர் தரத்திலை தெரிந்து கண்ணீர்க்க வேண்டும்.	
அடிக்கட்டுகளைக் கவனிப்பதை உறுதி செய்து செல்லும் கிராம மக்களுக்கு எந்தக் கிராமத்திலை ஏற்படுத்தாதவாறு பாதுகாப்புகள் மற்றும் சுற்றுச்சூழல் பாதிக்காத வகையில் வாரியத்தை இயக்க வேண்டும்.	
அடிக்கட்டுப்பராமரிக்க முடிக்கப்பட்டவுடன் அடிக்கட்டு நிலத்தில் உள்வாங்கு அடிக்கட்டுகளை முடி வேண்டும்.	
அடிக்கட்டுகளைக் கவனிப்பதை முடிந்தபின்னர் அடிக்கட்டு மற்றும் அடிக்கட்டுகளைக் கவனிப்பதை இடைவிடாமல் ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் பாதுகாப்புகளை செய்து தரவேண்டி விவசாயிகள் ஆலோசனைகள் வாரியத்தில் ஏற்ற வகையில் பராமரிப்பதை உறுதி செய்ய வேண்டும்.	
முழுமையான நிபந்தனைகளை அறிய பாதிக்க (http://parwah.nc.in) என்பது இணையதளத்தை பார்க்கப்படும் மேலும் சுற்றுச்சூழல் சுற்றுச்சூழல் பாதுகாக்க செல்லையில் உள் சுற்றுச்சூழல் மற்றும் வரை அமைக்கத்தில் குடிக்கின்றன வட்டிய அனுமதி: 044 - 2822325 (அல்லது) தமிழ்நாடு மாநில கட்டுப்பாடு வாரியத்தின் மாநில சுற்றுச்சூழல் செயலாளரை அனுமதி.	

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