

State Expert Appraisal Committee (SEAC)

Minutes of 387th meeting of the State Expert Appraisal Committee (SEAC) held on 28.06.2023 (Wednesday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No: 387-01

(File No: 9937/2023)

Proposed Gravel quarry lease area over an extent of 1.22.2 Ha at S.F.Nos. 758/11A2 & 11B of Ponnusangampatti Village and S.F.Nos. 523/1B, 1C, 2A3, 2A4, 4A, 4B, 4C1, 645/4B, 5B, 5C & 5A1 of Kannanoor Village, Thuraiyur Taluk, Tiruchirappalli District, Tamil Nadu by Thiru. P. Kalaiselvan - For Environmental Clearance.

(SIA/TN/MIN/422513/2023, Dated: 17.03.2023)


The proposal was placed for appraisal in this 387th meeting of SEAC held on 28.06.2023. 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. P. Kalaiselvan has applied for Environmental Clearance for the Proposed Gravel quarry lease area over an extent of 1.22.2 Ha at S.F.Nos. 758/11A2 & 11B of Ponnusangampatti Village and S.F.Nos. 523/1B, 1C, 2A3, 2A4, 4A, 4B, 4C1, 645/4B, 5B, 5C & 5A1 of Kannanoor Village, Thuraiyur Taluk, Tiruchirappalli District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.

File No	9937 / 2023	Category	B2
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. P. Kalaiselvan, S/o. Ponnusamy, No.54, Vinayagar Street, Thuraiyur Taluk, Tiruchirappalli District - 621 010.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Gravel


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3.	S.F Nos. of the quarry site with area break-up	:	S.F.Nos. 758/11A2 & 11B of Ponnusangampatti Village and S.F.Nos. 523/1B, 1C, 2A3, 2A4, 4A, 4B, 4C1, 645/4B, 5B, 5C & 5A1 of Kannanoor Village
4.	Village in which situated	:	Ponnusangampatti & Kannanoor
5.	Taluk in which situated	:	Thuraiyur
6.	District in which situated	:	Tiruchirappalli
7.	Extent of quarry (in ha.)	:	1.22.2 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	11°03'46.62"N to 11°03'50.13"N 78°31'25.97"E to 78°31'32.16"E
9.	Topo Sheet No.	:	58-I/12
10.	Type of mining	:	Opencast Mechanized Mining
11.	Life of Project	:	3 years
	Lease Period	:	3 years
	Mining Plan Period	:	3 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m ³ (RoM)	:	Gravel 40,686 m ³
	Minable Resources m ³ (RoM)	:	Gravel 22,434 m ³
	Annual Peak Production in m ³	:	Gravel 7950 m ³
	Maximum Depth in meters	:	4m (2m AGL + 2m BGL)
13.	Depth of water table	:	47m-42m bgl
14.	Man Power requirement per day:	:	8 Nos.
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	1.0 KLD 0.1 KLD - 0.5 KLD 0.4 KLD
16.	Power requirement	:	3740 Liters of HSD
17.	Precise area communication approved by Assistant Director, Department of G&M.	:	Na.Ka.No.1379/2022/Kanimam, Dated: 04.01.2023

18.	Mining Plan approved by Assistant Director, Department of G&M.	:	Rc.No.1379/2022/Mines, Dated: 20.02.2023	
19.	Department of G&M, Assistant Director 500m Cluster Letter	:	Rc.No.1379/2022/Mines, Dated: 21.02.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter furnished	
21.	Project Cost (excluding EMP cost)	:	Rs. 24,43,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m ³	22,434 m ³
		:	Annual Max RoM in m ³	7950 m ³
		:	Max Depth in mtrs	4m (2m AGL + 2m BGL)
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 7,76,840/- Recurring Cost – Rs. 5,11,954/-	
24.	CER cost (in Rs. Lakh).	:	Rs. 2,00,000/-	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production quantity of not exceeding 7950 m³ of Gravel by maintaining the depth of mining upto 2m AGL & 2m BGL and subject to the standard conditions & normal conditions stipulated by MOEF &CC and Annexure-I, 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 plantation as committed in the EMP without deviation.


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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 Panchayat union middle School, Kiliyanoorpatti, Thuriyur as committed, before obtaining CTO from TNPCB.

Agenda No: 387-02


(File No: 9958/2023)

Proposed Quartz and Feldspar quarry lease area over an extent of 2.32.0 Ha at S.F.Nos. 691/A2, 691/B1 & 691/B2 of Kodanthur South Village, Aravakurichi Taluk, Karur District, Tamil Nadu by Thiru. S. Balamurugan - For Environmental Clearance. (SIA/TN/MIN/424321/2023, Dated: 01.04.2023)

The proposal was placed for appraisal in this 387th meeting of SEAC held on 28.06.2023. 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. Balamurugan has applied for Environmental Clearance for the Proposed Quartz and Feldspar quarry lease area over an extent of 2.32.0 Ha at S.F.Nos. 691/A2, 691/B1 & 691/B2 of Kodanthur South Village, Aravakurichi Taluk, Karur 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.

File No	9958 / 2023	Category	B2
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. S. Balamurugan, S/o. Sundararajan, Door No.1, Sundara Bhavanam, K.K.Nagar, Mullai Garden Street, Kannankurichi Post, Salem District - 636 008.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Quartz and Feldspar
3.	S.F Nos. of the quarry site with area break-up	:	691/A2, 691/B1 & 691/B2
4.	Village in which situated	:	Kodanthur South


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5.	Taluk in which situated	:	Aravakurichi
6.	District in which situated	:	Karur
7.	Extent of quarry (in ha.)	:	2.32.0 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10°54'30.81328"N to 10°54'37.45872"N 77°46'37.58507"E to 77°46'44.30209"E
9.	Topo Sheet No.	:	58-F/13
10.	Type of mining	:	Opencast Semi Mechanized Mining
11.	Life of Project	:	10 years
	Lease Period	:	10 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan As modified by SEAC
	Geological Resources Ts (RoM)	:	Quartz and Feldspar 8,66,029 Ts ROM which includes 6,06,220 Ts of Quartz and Feldspar (70% recovery) and 2,59,809 Ts of Quartz and Feldspar rejects Quartz and Feldspar
		:	Quartz and Feldspar 6,35,898 Ts ROM which includes 4,45,128 Ts of Quartz and Feldspar (70% recovery) and 1,90,769 Ts of Quartz and Feldspar rejects Quartz and Feldspar
	Mina ble Resources Ts (RoM)	:	Quartz and Feldspar 107978 Ts of RoM Quartz and Feldspar
		:	Quartz and Feldspar 107978 Ts of RoM Quartz and Feldspar
Annual Peak Production in Ts	:	Quartz and Feldspar 107978 Ts of RoM Quartz and Feldspar	
	Maximum Depth in meters	:	25m BGL
13.	Depth of water table	:	45m-40m bgl
14.	Man Power requirement per day:	:	15 Nos.
15.	Water requirement:	:	3.5 KLD
	1. Drinking water	:	0.5 KLD
	2. Utilized water	:	1.0 KLD
	3. Dust suppression	:	1.0 KLD
	4. Green belt	:	1.0 KLD
16.	Power requirement	:	TNEB

17.	Precise area communication approved by Additional Chief Secretary to Government, Industries, Investment Promotion & Commerce (MMC.2) Department.	:	Letter No.3664452/MMC.2/2022-1, Dated: 06.02.2023	
18.	Mining Plan approved by Additional Director, Commissionerate of G&M.	:	Rc.No.4538/MM7/2022, Dated: 21.03.2023	
19.	Department of G&M, Deputy Director 500m Cluster Letter	:	Rc.No.87/Mines/2022, Dated: 27.03.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 31.03.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 58,50,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
				Quartz and Feldspar
			Max Total RoM in Ts	4,33,532 Ts ROM which includes 3,03,472 Ts of recovery (70% recovery) and 1,30,060 Ts of rejects (30% rejects) 70% of recovery consists 182083 T(60% quartz) & 121389T(40%) Feldspar
			Annual Max RoM in Ts	107978 T Rom which includes 75585 Ts of recovery (70% recovery) and 32393T of rejects (30% rejects) 70% of recovery consists 45351 T(60% quartz) & 30234 T(40%) Feldspar
		:	Max Depth in mtrs	25m BGL
23.	EMP cost (in Rs. Lakh).	:	Rs. 342.55 Lakhs for 10 years	

24.	CER cost (in Rs. Lakh).	:	Rs. 5,50,000/-
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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 1,07,978 tonnes of ROM which includes 75585 Ts of recovery (70% recovery) and 32393 T of rejects (30% rejects) 70% of recovery consists 45351 T (60% quartz) & 30234 T (40%) Feldspar with restricting an ultimate depth of mining upto 25m BGL and subject to the standard conditions & normal conditions stipulated by MOEF &CC and Annexure-I, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall ensure that only controlled mild blasting operation involving the muffle blasting is carried out in the quarry such that no fly rock (or) dust particles travel beyond 10 m from the blast site.
3. The PP shall adequately wet the working areas frequently with water sprinkling/spraying system such that the dust particles are not dispersed in the air.
4. The PP shall ensure that the medical examination including the health assessment for workers exposed to silica dust (or) group of persons working at places / the operations prone to generate airborne dust is conducted once in every six months in any of the DGMS approved Occupational Health Clinics/Hospitals.
5. As accepted by the Project proponent the CER cost is Rs. 5.5 lakhs and the amount shall be spent for the Government Higher Secondary School, Elavanur Village as committed, before obtaining CTO from TNPCB.

Agenda No: 387-3

(File No: 9465/2022)

Proposed rough stone & gravel Quarry over an extent of 4.74.0 Ha SF.No. 14(p), 28/2B(p), Irukkandurai Part II Village, Radhapuram Taluk, Thirunelveli District, Tamil Nadu by Thiru S Venkatesan - Environmental Clearance (SIA/TN/MIN/290409/2022, dt: 26.8.2022)


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Earlier, this proposal was placed in this 360th meeting of SEAC held on 03.03.2023. 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 S Venkatesan has applied for Environmental Clearance for the Proposed rough stone & gravel Quarry over an extent of 4.74.0 Ha SF.No. 14(p), 28/2B(p), Irukkandurai Part II Village, Radhapuram Taluk, Thirunelveli District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. The lease period is for 10 years and mining plan is for the period of 5 Year & production should not exceed 630329m³ of rough stone, 77830m³ of Gravel and 223458 m³ of weathered rock . The Annual peak production 135027m³ of rough stone, 77830m³ of Gravel and 223458 m³ of weathered rock. The ultimate depth is 38 m BGL.

Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the additional details and PP's reply is as follows

Sl No	Query raised in 360 th SEAC meeting	PP reply
1	Enumerate the details of various types of structures located in 100m, 200m & 300m from the project site.	3 Nos of wind mill and one agricultural shed around 100-200m (i.e., 143m from the lease boundary) One wind mill and one Agricultural shed 286m is located within 200-300m. There is no habitation within 300m Radius
2	From the KML files, it is seen that there are 11 windmills located within 700 m surrounding the lease boundary of the project site and it has been observed that there is no information about the presence of wind mills in the precise area communication letter. The PP shall submit the comments on	A letter obtained from Dept of Geology and mining is furnished.

	<p>'Existence of 11 windmills functioning within 600 m from the lease boundary before the commencement of quarrying operations' as per the provisions of Tamil Nadu Minor Mineral Concession Rules 1969, obtained from the AD. Mines & Geology after the field inspection.</p>	
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The PP's reply along with letter from Dept of Geology and mining are placed in 387th SEAC meeting held on 28.06.2023.

Based on the presentation and documents furnished by the project proponent, SEAC noted that the proposed site abuts coconut groves both on the Northern and Southern sides. Further, there is an industrial shed at a distance of about 143 m. there are also several windmills around the site. Therefore, SEAC decided not to recommend the proposal for the grant of Environmental Clearance.

Agenda No: 387-04


(File No: 9952/2023)


Proposed Gravel Quarry lease over an extent of 2.58.79Ha S.F.No.31/1A & 35/2, Pappapatti Village, Usilampatti Taluk, Madurai District by Thiru.C.Oorkalan - For Environmental Clearance. (SIA/TN/MIN/423870/2023, dt: 29.03.2023)

The proposal was placed in 387th SEAC Meeting held on 28.06.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.C.Oorkalan has applied for Environmental Clearance for the proposed Gravel Quarry lease over an extent of 2.58.79Ha S.F.No.31/1A & 35/2, Pappapatti Village, Usilampatti Taluk, Madurai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication has been issued to grant the lease for a period of 3 Years. The approved mining plan is prepared accordingly for the period of


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3 years with the production quantity of not to exceed 36440m³ of Gravel and the depth of mining is 2m BGL.

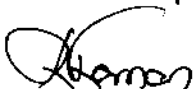
Salient features of the proposed project activity:


Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	: Thiru.C.Oorkalan, S/o.Chinnathambi, Mallapuram, Peraiyur Taluk, Madurai District – 625535.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Lime stone)	: Gravel
3.	S.F Nos. of the quarry site with area break-up	: 31/1A & 35/2
4.	Village in which situated	: Pappapatti
5.	Taluk in which situated	: Usilampatti
6.	District in which situated	: Madurai
7.	Extent of quarry (in ha.)	: 2.58.79Ha
8.	Latitude & Longitude of all corners of the quarry site	: 10°01'7.1229"N to 10°01'1.3616"N 77°51'48.4425"E to 77°51'42.1503"E
9.	Topo Sheet No.	: 58-F/16
10.	Type of mining	: Opencast mechanized method of shallow Mining
11.	Life of Project	: 3 Years
	Lease Period	: 3 Years
	Mining Plan Period	: 3 Years
12.	Mining Plan Details	: As per approved Mining Plan
	Geological Resources m ³ (RoM)	: Gravel in m ³ 58284
	Mineable Resources m ³ (RoM)	: Gravel in m ³ 36440
	Annual Peak Production in m ³	: Gravel in m ³ 14840
	Maximum Depth in meters	: 2 m
13.	Depth of water table	: 30-38m
14.	Man Power requirement per day:	: 9 Nos.
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	: 1.5 kLD 0.5 kLD 0.5 kLD 0.5 kLD

16.	Power requirement		6073Litres of HSD
17.	Precise area communication approved by the, Assistant Director (i/c), Department of Geology and Mining with date	:	Rc.No.58/Kanimam/2021, dated:10.03.2023
18.	Mining Plan approved by Assistant Director (i/c), Department of Geology and Mining with date	:	Rc.No.58/Mines/2021, dt: 15.03.2023
19.	500m cluster letter issued by Assistant Director (i/c), Department of Geology and Mining	:	Rc.No.58/Mines/2021-2, dt: 15.03.2023
20.	VAO Certificate Regarding Structures within 300m Radius		letter Furnished dt: Nil
21.	Soil Test Report	:	Lr. Dt:22.09.2021 from Anna University, Dindigul.
22.	Project Cost (excluding EMP cost)	:	Rs.33.58 Lakhs
23.	EC Recommendation	:	For the 3 Years as per approved mining plan
			Gravel in m ³
		:	Max Total RoM in m ³ 36440
		:	Annual Max RoM in m ³ 14840
		:	Max Depth in mtrs 2 m
24.	EMP cost (in Rs. Lakh).	:	Rs. 16 Lakhs / 3 Years
25.	CER cost (in Rs. Lakh).	:	Rs. 5 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 14840 Cu.m of Gravel by restricting the ultimate depth of mining upto 2m BGL for the period of 3 Years only and subject to the standard conditions & normal conditions stipulated by MOEF &CC and Annexure-I, in addition to the following specific conditions:

1. The proponent shall carryout plantation of 1300 Nos. of tall samplings of native species as committed before obtaining CTO from TNPCB.


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2. The proponent shall carryout the quarrying operations without disturbing the check dam and odai located closely.
3. The PP shall complete the quarrying operations following the special mitigation measures as stipulated for the protection of Reserve Forest (in Annexure) within a period of 3 years from the date of execution of the lease.
4. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
5. The PP shall not carry out drilling & blasting operations in the proposed quarry.
6. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Government Kallar Higher Secondary School, Paapapatti, Madurai as committed, before obtaining CTO from TNPCB.

Agenda No: 387 - 05

(File No: 9959/2023)

Proposed Rough stone & Gravel quarry lease over an extent of 1.46.00Ha in S.F.No:308/3 & 308/6, Surai Village, Sholinghar Taluk, Ranipet District ,Tamil Nadu by M/s. KCC Buildcon Private Limited - For Environmental Clearance. (SIA/TN/MIN/424716/2023, dt: 03.04.2023)

The proposal was placed in 387th SEAC Meeting held on 28.06.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, M/s. KCC Buildcon Private Limited has applied for Environmental Clearance for the Rough stone & Gravel quarry lease over an extent of 1.46.00 Ha in 308/3 & 308/6, Surai Village, Sholinghar Taluk, Ranipet District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 3 Years. The approved mining plan is for the period of 3 Years & production should not exceed 95110m³ of Rough Stone & 8880m³ of Gravel. The annual peak production is 32330m³ of Rough Stone (2nd Year) & 6900m³ of Gravel (1st Year). The depth of mining is 21m BGL.

Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	: M/s. KCC Buildcon Private Limited, Plot no.99 2 nd floor, Nethaji Garden, Amoor Koot Road, Ammoor, Walajha Taluk, Ranipet District, Tamil Nadu - 632501.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Lime stone)	: Rough Stone & Gravel	
3.	S.F Nos. of the quarry site with area break-up	: 308/3 and 308/6	
4.	Village in which situated	: Surai	
5.	Taluk in which situated	: Sholinghar	
6.	District in which situated	: Ranipet	
7.	Extent of quarry (in ha.)	: 1.46.00Ha	
8.	Latitude & Longitude of all corners of the quarry site	: 13°02'05.59"N to 13°02'10.92"N 79°26'29.29"E to 79°26'32.89"E	
9.	Topo Sheet No.	: 57-O/08	
10.	Type of mining	: Opencast Semi-Mechanized of Mining	
11.	Life of Project	: 3 Years	
	Lease Period	: 3 Years	
	Mining Plan Period	: 3 Years	
12.	Mining Plan Details	: As per approved Mining Plan	
	Geological Resources m ³ (RoM)	Rough Stone in m ³	Gravel in m ³
		291920m ³	14596m ³
	Mineable Resources m ³ (RoM)	Rough Stone	Gravel
		95110m ³	8880m ³
Annual Peak Production in m ³	Rough Stone	Gravel	
	32330 m ³	6900 m ³	
	Ultimate Depth in meters	: 21m BGL	
13.	Depth of water table	: 57m BGL	

14.	Man Power requirement per day:	:	22Nos												
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	3.0 KLD 1.0 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.151/2022(Mines), dated:27.01.2023												
18.	Mining Plan approved by Assistant Director (i/c) Department of G&M.	:	Rc.No.151/2022(Mines), dt: 28.02.2023												
19.	500m Cluster Letter issued by Assistant Director (i/c), Department of G&M,	:	Rc.No.151/2022(Mines), dt: 28.02.2023												
20.	VAO Certificate Regarding Structures within 300m Radius		letter Furnished dt:22.02.2023												
21.	Project Cost (excluding EMP cost)	:	Rs.57.86 Lakhs												
22.	EC Recommendation	:	For the period of 3 Years as per approved mining plan <table border="1"> <thead> <tr> <th></th> <th>Rough Stone</th> <th>Gravel</th> </tr> </thead> <tbody> <tr> <td>Max Total RoM in m³</td> <td>95110m³</td> <td>8880m³</td> </tr> <tr> <td>Annual Max RoM in m³</td> <td>32330 m³</td> <td>6900 m³</td> </tr> <tr> <td>Max Depth in mtrs</td> <td colspan="2">21 m</td> </tr> </tbody> </table>		Rough Stone	Gravel	Max Total RoM in m ³	95110m ³	8880m ³	Annual Max RoM in m ³	32330 m ³	6900 m ³	Max Depth in mtrs	21 m	
	Rough Stone	Gravel													
Max Total RoM in m ³	95110m ³	8880m ³													
Annual Max RoM in m ³	32330 m ³	6900 m ³													
Max Depth in mtrs	21 m														
23.	EMP cost (in Rs. Lakh).	:	Rs. 48.10 Lakhs												
24.	CER cost (in Rs. Lakh).	:	Rs.7 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 the annual peak production capacity of not exceeding 32330 m³ of Rough Stone &


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6900m³ of Gravel by restricting the ultimate depth of mining upto 21m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall 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) As accepted by the Project Proponent the CER cost of Rs. 7 Lakhs towards the construction of new building for Library and the amount shall be spent for the Panchayat Union primary School, Surai Village before obtaining CTO from TNPCB.

Agenda No: 387-06

(File No: 9925/2023)

Proposed Rough stone & gravel quarry over an extent of 4.42.0Ha at S.F.No. 392/2(p), 393/2(p), 394/1, 395, 396/1, 397 & 398/1A1(p) of Melkaraipatti Village, Palani Taluk, Dindigul District, Tamil Nadu by M/s. Shri Rajrudhra Minerals Private Limited-For Environmental Clearance. (SIA/TN/MIN/422628/2023, 20.03.2023).

The proposal was placed in this 387th Meeting of SEAC held on 28.06.2023. 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. Shri Rajrudhra Minerals Private Limited has applied for Environmental Clearance for the Proposed Rough stone & gravel quarry over an extent of 4.42.0Ha at S.F.No. 392/2(p), 393/2(p), 394/1, 395, 396/1, 397 & 398/1A1(p) of Melkaraipatti Village, Palani Taluk, Dindigul District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining


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

3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 7,87,185m³ of Rough Stone & 98,172 m³ of Gravel with an ultimate depth of mining 53 m Below Ground Level.
4. The salient features of the proposed project as follows.

File No	9925		Category	“B2” 1(a)	
	SIA/TN/MIN/422628/2023, 20.03.2023			EC	
Sl. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm	:	M/s. Shri Rajrudhra Minerals Private Limited, No.99/2B1B, 1st Floor, Vellore Main Road, Arcot Taluk, Ranipet District-632503.		
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	:	392/2(p), 393/2(p), 394/1, 395, 396/1, 397 & 398/1A1(p)		
4.	Village in which situated	:	Melkaraipatti		
5.	Taluk in which situated	:	Plalani		
6.	District in which situated	:	Dindigul		
7.	Extent of quarry (in ha.)	:	4.42.0Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	10°36'46.81" N to 10°36' 55.02" N 77°27'45.05" E to 77°27' 55.60" E		
9.	Topo Sheet No.	:	58 F/06		
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 ³ (RoM)	:	Rough Stone- 22,01,300 m ³	Rough Stone- 22,01,300 m ³	
		:	Gravel -1,32,078 m ³	Gravel -1,32,078 m ³	

	Minable Resources m ³ (RoM)	:	Rough Stone- 7,87,185 m ³	Rough Stone- 7,87,185 m ³
			Gravel -98,172 m ³	Gravel -98,172 m ³
	Annual Peak Production in m ³	:	Rough Stone- 1,63,450 m ³	Rough Stone- 1,63,285 m ³
			Gravel - 86,028 m ³	Gravel - 86,028 m ³
Maximum Depth in meters	:	53m BGL	48m BGL	
13.	Depth of water table	:	62 m below ground level	
14.	Man Power requirement per day:	:	35 Nos.	
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	2.5 KLD 1.5 KLD 0.50 KLD 0.50 KLD	
16.	Power requirement	:	TNEB	
17.	Precise area communication approved by the Assistant Director, Dept. of Geology & Mining	:	Na.Ka.No.29/Kanimam/2023 Dated:20.02.2023	
18.	Mining Plan approved by Assistant Director(i/c), Dept. of Geology & Mining.	:	Rc.No.29/Mines/2023 dated:28.02.2023	
19.	Assistant Geologist, Assistant Director(i/c), Dept. of Geology & Mining 500m Cluster Letter	:	Rc.No.29/Mines/2023 dated:28.02.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 28.02.2023	
21.	Project Cost (excluding EMP cost)	:	Rs.1,02,02,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
				Rough Stone

		:	Max Total RoM in m ³	770025 m ³	98172 m ³
		:	Annual Max RoM in m ³	163285 m ³	86,028 m ³
		:	Max Depth in mtrs	48m BGL	
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 25,53,000/- recurring cost/annum – Rs. 10,37,240 /-		
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000 /- as accepted by the PP		

During the meeting, it was observed that the existing windmill structures are located at the distance of 152m (NE), 192m (SE) and 151m (SW) with reference to the quarry lease boundary.

The study report titled " Design of controlled blasting to reduce the ground vibrations and eliminate the fly rock from the proposed rough stone and gravel quarry M/s. Shri. Rajrudhra Minerals Private Limited for an extent of 4.42 Hectares in SF. No. 392/2 (P), 393/2 (P), 394/1, 395, 396/1, 397 & 398/1A1 (P) of Melkaraipatti Village, Palani Taluk, Dindigul District, Tamil Nadu" is the bonafide work of Department of Mining Engineering, Anna University. The study was completed in accordance with the statutory requirements of act, regulations made thereunder and other provisions as recommended by the regulatory body (DGMS).

Based on the presentation made and the 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 163285m³ of Rough stone & 86,028 m³ of Gravel as per the approved mining plan by restricting the ultimate pit depth of 48 m and subject to the standard conditions & normal conditions stipulated by MoEF&CC / Annexure-I, 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 meticulously adopt the mitigation measures as recommended in the scientific report furnished by the Department of Mining Engineering, Anna University, Chennai while carrying out the quarrying operations for safe guarding the wind mills existing around the lease.
- 3) The PP shall carry out the following precautionary measures while carrying out the blasting activities in the proposed quarry after the execution of the lease:
 - The controlled blasting techniques like muffled blasting and line-drilling technique should be strictly followed to control the fly rock generation and ground vibration towards the windmill.
 - It is suggested to implement the greenbelt development along the safety barrier of the proposed quarry (Figure 41)
 - It is recommended to install the sheet fencing to reduce the fly rock and noise pollution and trench (filled with gravel) to be formed along the safety barrier to reduce the ground vibrations propagate from the proposed quarry. In addition, fencing shall be installed along the western and southern side of the proposed quarry (42).
 - It is recommended to keep the haul road entry towards south direction of the proposed quarry to reduce the propagation of ground vibrations induced from blasting operations towards the windmill.
- 4) Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 5) As the ultimate depth in this proposal exceeds 40m, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when

the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving 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, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 6) As accepted by the Project Proponent the CER cost of Rs. 5.0lakhs and the amount shall be spent for the Government High School, Melkaraipatti village before obtaining CTO from TNPCB.

Agenda No: 387-07

(File No: 9946/2023)

Proposed Rough stone & gravel quarry over an extent of 4.95.60 Ha at S.F.No's : 4/1E2, 4/1E3, 4/1F (Part), 4/2A (Part) & 4/3 in Nallamur Village, Maduranthagam Taluk, Chengalpattu District, Tamil Nadu by Thiru. M.G.Surendranath Managing Partner of M/s.R.G.Minerals &Metals -For Environmental Clearance. (SIA/TN/MIN/423571/2023, 28.03.2023).

The proposal was placed in this 387th Meeting of SEAC held on 28.06.2023. 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. M.G.Surendranath Managing Partner of M/s.R.G.Minerals &Metals has applied for Environmental Clearance for the Proposed Rough stone & gravel quarry over an extent of 4.95.60 Ha at S.F.No's : 4/1E2, 4/1E3, 4/1F (Part), 4/2A (Part) & 4/3 in Nallamur Village, Maduranthagam Taluk, Chengalpattu 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 5 years. The mining plan is for the period of five years & production should not exceed 10,12,740m³ of Rough Stone & 20,361 m³ of Gravel with ultimate depth of mining 70 m Below Ground Level.
4. The salient features of the proposed project as follows


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File No	9946		Category	"B2" 1(a)
	SIA/TN/MIN/423571/2023, 28.03.2023			EC
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	M.G.Surendranath, Managing Partner, M/s. R.G. Minerals & Metals, No. A7,6th Cross Street, Indira Nagar, Adyar, Chennai-600020.	
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	:	4/1E2, 4/1E3, 4/1F (Part), 4/2A (Part) & 4/3	
4.	Village in which situated	:	Nallamur	
5.	Taluk in which situated	:	Maduranthagam	
6.	District in which situated	:	Chengalpattu	
7.	Extent of quarry (in ha.)	:	4.95.60 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°24'44.43"N to 12°24'54.25" N 79°54'13.45" E to 79°54'24.69" E	
9.	Topo Sheet No.	:	57 P/15	
10.	Type of mining	:	Opencast Semi mechanized mining	
11.	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Rough Stone-33,48,280 m ³	Rough Stone-33,48,280 m ³
			Gravel – 27,480 m ³	Gravel – 27,480 m ³
	Mirable Resources m ³ (RoM)	:	Rough Stone-10,12,740 m ³	Rough Stone-10,12,740 m ³
Gravel – 20,361 m ³			Gravel – 20,361 m ³	


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	Annual Peak Production in m ³	:	Rough Stone- 2,71,800 m ³	Rough Stone-199150 m ³
			Gravel – 20,361 m ³	Gravel – 1001 m ³
	Ultimate Depth in meters	:	70m BGL	50m BGL
13.	Depth of water table	:	55m Summer Season-50m Rainy Season	
14.	Man Power requirement per day:	:	23 Nos.	
15.	Water requirement: 1. Drinking water 2. Utilized Water 3. Dust suppression 4. Green belt	:	7.5 KLD 1.5 KLD 2.0 KLD 2.0 KLD 2.0 KLD	
16.	Power requirement	:	TNEB 813582 Litres of HSD	
17.	Precise area communication approved by the Assistant Director, Dept. of Geology & Mining	:	Rc.No.80/Q3/2018 dated:25.01.2023	
18.	Mining Plan approved by Assistant Director(i/c), Dept. of Geology & Mining.	:	Rc.No.80/Q3/2018 dated:14.03.2023	
19.	Assistant Director(i/c), Dept. of Geology & Mining 500m Cluster Letter	:	Rc.No.80/Q3/2018 dated:14.03.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 24.03.2023	
21.	Project Cost (excluding EMP cost)	:	Rs.1,28,48,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
				Rough Stone Gravel
		:	Max Total RoM in m ³	815250 m ³ 1001 m ³
		:	Annual Max RoM in m ³	199150 m ³ 1001 m ³
		:	Max Depth in mtrs	50m BGL

23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 88,15,667/- recurring cost – Rs. 45,00,900 /-
24.	CER cost (in Rs. Lakh).	:	Rs. 5,50,000 /- as accepted by the PP

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the the Annual peak production capacity of not exceeding 1,99,150 m³ of Rough stone & 1001 m³ of Gravel as per the approved mining plan by restricting the ultimate pit depth of 50 m BGL and subject to the standard conditions & 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 utilize the small ledge portion shown in the plan & section of the proposed lease towards the greenbelt development.
- 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 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) As the ultimate depth in this proposal exceeds 40m, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving 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, 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. 5.50lakhs and the amount shall be spent for the Panchayat Union Middle School, Nallamur village before obtaining CTO from TNPCB.

Agenda No: 387-08

(File No: 9953/2023)

Proposed Rough stone & gravel quarry over an extent of 1.45.00Ha at S.F.Nos. 662/1, 664/1 & 665 of Appayanaickenpatti Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu by Thiru.D.Siramji, Partner of M/s. R.K. Blue Metals - For Environmental Clearance. (SIA/TN/MIN/423115/2023 dated: 23.03.2023).

The proposal was placed in this 387th Meeting of SEAC held on 28.06.2023. 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.D.Siramji, Partner of M/s. R.K. Blue Metals has applied for Environmental Clearance for the Proposed Rough stone & gravel quarry over an extent of 1.45.00Ha at S.F.Nos. 662/1, 664/1 & 665 of Appayanaickenpatti Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
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 94,395m³ of Rough Stone & 34,176 m³ of Gravel with ultimate depth of mining 35 m Below Ground Level.

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

1. PP shall furnish registered lease consent document obtained from the pattadhars for mine lease area.
2. The carrying capacity of waterbody/lake existing at a distance of 150 m

- during the last five years obtained from the competent authority.
3. The impacts due to quarrying operations on the lake/waterbody and the temple situated nearby.
 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 occupants, places of worship, industries, factories, sheds, etc.
 5. Since the Residential High School is located at 310m, the PP shall furnish the following details.
 - i. Total number of students studying in this school for the period of last 5 years.
 - ii. Total number of the students staying in the hostel
 - iii. Timing/Duration of the school
 - iv. The road utilized by the students & their parents for the transportation purposes
 - v. Wind direction

On receipt of the above details, SEAC would further deliberate on this project and decide the further course of action.

Agenda No: 387-09

(File No: 9960/2023)

Proposed Gravel quarry over an extent of 2.07.0 Ha at S.F.Nos: 157/1, 157/2, 157/3 & 157/5 of Pallamparai Village, Senthamangalam Taluk, Namakkal District, Tamil Nadu by M/s. Shri Palanimurugan Enterprises -For Environmental Clearance. (SIA/TN/MIN/423458/2023, dated: 27.03.2023).

The proposal was placed in this 387th Meeting of SEAC held on 28.06.2023. 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. Shri Palanimurugan Enterprises has applied for Environmental Clearance for the Proposed Gravel quarry over an extent of 2.07.0 Ha at S.F.Nos: 157/1, 157/2, 157/3 & 157/5 of Pallamparai Village, Senthamangalam 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.


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3. As per the mining plan the lease period is 3 years. The mining plan is for the period of five years & production should not exceed 17,210 m³ of Gravel with ultimate depth of mining 2.0m.

4. The salient features of the proposed project as follows

File No	9960		Category	"B2" 1(a)	
	SIA/TN/MIN/423458/2023 , 27.03.2023			EC	
Sl. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm	:	M/s. Shri Palanimurugan Enterprises, Managing Partner: T.P.Selvaraj No.299, K.K.P. Compound, Salem Main Road, Namakkal Taluk & District – 637001.		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Gravel quarry		
3.	S.F Nos. of the quarry site with area break-up	:	157/1, 157/2, 157/3 & 157/5		
4.	Village in which situated	:	Pallamparai		
5.	Taluk in which situated	:	Senthamangalam		
6.	District in which situated	:	Namakkal		
7.	Extent of quarry (in ha.)	:	2.07.0 Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	11°16'45.72"N to 11°16'52.30"N 78°16'56.07"E to 78°17'1.98"E		
9.	Topo Sheet No.	:	58 I/7		
10.	Type of mining	:	Open cast mechanized mining		
11.	Life of Project	:	3 years		
	Lease Period	:	3 years		
	Mining Plan Period	:	3 years		
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC	
	Geological Resources m ³ (RoM)	:	Gravel – 41,400 m ³	Gravel – 41,400 m ³	
	Minable Resources m ³ (RoM)	:	Gravel – 17,210 m ³	Gravel – 17,210 m ³	
	Annual Peak Production in m ³	:	Gravel – 5,950 m ³	Gravel – 5,950 m ³	
	Maximum Depth in meters	:	2.0m BGL		
13.	Depth of water table	:	20m BGL		

14.	Man Power requirement per day:	:	10 Nos.	
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	3.0 KLD 1.0 KLD 1.0 KLD 1.0 KLD	
16.	Power requirement	:	TNEB -	
17.	Precise area communication approved by the Assistant Director.	:	Rc.No:151/kanimam/2022, dated: 19.01.2023	
18.	Mining Plan approved by Assistant Director, Dept. of Geology & Mining.	:	Rc.No.151/Mines/2022 dated 10.03.2023.	
19.	Assistant Director, Dept. of Geology & Mining 500m Cluster Letter	:	Rc.No.151/Mines/2022 dated 16.03.2023.	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 21.03.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 33.0 lakhs	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m ³	Gravel 17,210 m ³
		:	Annual Max RoM in m ³	Gravel – 5,950 m ³
		:	Max Depth in mtrs	2.0m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 10,43,800/- recurring cost – Rs. 6,71,500/-	
24.	CER cost (in Rs. Lakh).	:	Rs. 3,00,000 /- as accepted by the PP	

Based on the presentation made and the 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 5,950 m³ of Gravel as per the approved mining plan by restricting the ultimate pit depth of 2 m for a period of 3 years from the date of lease execution and subject to the standard conditions &


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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.
4. The PP shall not carry out drilling & blasting operations in the proposed quarry.
5. The PP shall follow the provisions provided in the Annexure-I for the protection of Reserved Forest/Reserve Land at a distance of less than 1km from the project site.
6. As accepted by the Project Proponent the CER cost of Rs. 3.0lakhs and the amount shall be spent for the Primary School, Pallamparai village before obtaining CTO from TNPCB.

Agenda No: 387-10

(File No: 9940/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.02.0 Ha at S.F.No. 98/1A2 & 98/1B, in Kulathur Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by Thiru V.Kannaiyan - For Environment Clearance (SIA/TN/MIN/422588/2023 dt 18.03.2023)

The proposal was placed in this 388th meeting of SEAC held on 30.06.2023. The Project Proponent made a detailed power point presentation about the proposed project. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, Thiru V.Kannaiyan has applied seeking Environment Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 1.02.0 Ha at S.F.No. 98/1A2 & 98/1B, in Kulathur Village, Kulathur Taluk, Pudukkottai 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.

File No	9940	Category	B2 / 1(A)
	422588		EC


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			Gravel- 448 m ³	
	Maximum Depth in meters	:	39m BGL	
13.	Depth of water table	:	57m BGL	
14.	Man Power requirement per day:	:	15 Nos.	
15.	Water requirement: 1. Drinking & domestic purposes (in kLD) 2. Dust suppression , Green Belt &Wet Drilling (in kLD)	:	1.75 kLD 0.75 kLD 1.50 kLD 1.50 kLD	
16.	Power requirement		TNEB 38,310 litres of HSD will be utilized	
17.	Precise area communication approved by the Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining	:	Rc.No.709/2020(G&M) Dated:09.01s.2023	
18.	Mining Plan approved by Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining	:	Rc.No.709/2020(G&M) Dated:02.02.2023	
19.	Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining 500m Cluster Letter		Rc.No.709/2020(G&M) Dated:02.02.2023	
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dated: 17.02.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 43,30,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
				Rough Stone
				Gravel
		:	Max Total RoM in m ³	44945
				448

		:	Annual Max RoM in m ³	9630	448
		:	Max Depth in m	35m	2m
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.3,24,000/- Recurring cost/Annum – Rs. 2,53,000 /- + 5% inflation cost		
24.	CER cost (in Rs. Lakh).	:	Rs. 8 Lakh		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 9630 m³ of Rough stone and 448 m³ of Gravel by maintaining the Ultimate depth of mining of 39 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) Since the highway and few habitations are situated nearby, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 3) For 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 to be constructed and existing quarry wall within a period of one year from the execution of the lease, by involving any one of the reputed Research and Academic

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

- 4) Since few waterbodies are situated within 300 m, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 5) As accepted by the Project Proponent the CER cost is Rs. 8.0 lakh and the amount shall be spent for the activities committed in the Village Government Schools before obtaining CTO from TNPCB.

Agenda No: 388-11

(File No: 9954/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 2.00.0 Ha at S.F.No. 115/1, 115/2, 115/3, 115/4 & 116(Part), in Palli Village, Cheyyar Taluk, Tiruvannamalai District, Tamil Nadu by Thiru.S.Nirmal,- For Environment Clearance (SIA/TN/MIN/422463/2023 dt 17.03.2023)

The proposal was placed in this 388th meeting of SEAC held on 30.06.2023. The Project Proponent made a detailed power point presentation about the proposed project. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following

1. The Project Proponent, Thiru.S.Nirmal has applied seeking Environment Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 2.00.0 Ha at S.F.No. 115/1, 115/2, 115/3, 115/4 & 116(Part), in Palli Village, Cheyyar


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Taluk, Tiruvannamalai 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.

File No	9954	Category	B2 / 1(a) EC
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.S.Nirmal, S/o.Saravananaraj, No.14, Kamaraj Street, Pammal, Chennai-600075
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 Nos. 115/1, 115/2, 115/3, 115/4 & 116(Part)
4.	Village in which situated	:	Palli
5.	Taluk in which situated	:	Cheyar
6.	District in which situated	:	Tiruvannamalai District
7.	Extent of quarry (in ha.)	:	2.00.0 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	12°42'55.23"N to 12°43'01.51"N 79°35'55.86"E to 79°36'01.63"E
9.	Topo Sheet No.	:	57 P/10
10.	Type of mining	:	Opencast semi 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 in m ³ (RoM)	:	Rough stone - 698880 m ³ Gravel- 39936 m ³
	Minable Resources in m ³ (RoM)	:	Rough stone - 218960 m ³ Gravel-

			30858 m ³	
	Annual Peak Production in m ³	:	Rough stone- 44220 m ³ Gravel- 19980 m ³	-
	Ultimate Depth in m	:	38m BGL	-
13.	Depth of water table	:	53m-56m	
14.	Man Power requirement per day:	:	25 Nos.	
15.	Water requirement: 1. Drinking & domestic purposes (in kLD) 2. Dust suppression, Green Belt & Wet Drilling (in kLD)	:	3.0 kLD 1.0 kLD 1.0 kLD 1.0 kLD	
16.	Power requirement		TNEB (domestic) DG set (Industrial activity)	
17.	Precise area communication approved by the Assistant Geologist, Assistant Director(i/c), Dept. of Geology & Mining	:	Rc.No.12/Kanimam/2018, Dated:04.01.2023	
18.	Mining Plan approved by Assistant Geologist, Assistant Director(i/c), Dept. of Geology & Mining	:	Rc.No.12/Kanimam/2018, Dated:08.02.2023	
19.	Assistant Geologist, Assistant Director(i/c), Dept. of Geology & Mining 500m Cluster Letter		Rc.No.12/Kanimam/2018, Dated:08.02.2023	
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dated: 22.02.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 71,30,000 /-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.


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			Rough Stone	Gravel	
		:	Max Total RoM in m ³	218960	30858
		:	Annual Max RoM in m ³	44220	19980
		:	Max Depth in m	35m	2m
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.18.80 Lakh Recurring cost/Annum – Rs.17.18 Lakh 5% inflation cost		
24.	CER cost (in Rs. Lakh).	:	Rs. 5 Lakh		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 44220 m³ of Rough stone and 19980 m³ of Gravel by maintaining the Ultimate depth of mining of 38 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) Since few habitations are situated within 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 3) For 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 3rd year or when the depth exceeds 30 m 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.
- 4) The PP shall furnish the Standard Operating Procedures (SoP) for carrying out the blasting operations in the proposed quarry to the AD (Mines) at the time of lease execution.
- 5) As accepted by the Project Proponent the CER cost is Rs. 5.0 lakh and the amount shall be spent for the committed activities in Village Government School before obtaining CTO from TNPCB.

Agenda No: 387-12

(File No: 9934/2023)


Proposed Rough Stone & gravel Quarry lease over an extent of 2.02.34 Ha at S.F.Nos. 1853/1D2 & 1853/1D3 of Gangaikondan Part - 1 Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by Thiru. R.P. Dass - For Environmental Clearance. (SIA/TN/MIN/420387/2023, Dated: 10.03.2023)

The proposal was placed in 387th SEAC meeting held on 28.06.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, Thiru. R.P. Dass has applied for Environmental Clearance for the proposed Rough Stone & gravel Quarry lease over an extent of 2.02.34 Ha at S.F.Nos. 1853/1D2 & 1853/1D3 of Gangaikondan Part - 1 Village, Tirunelveli Taluk, Tirunelveli 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.

SEAC noted that the same proposal was dealt with in application No. SIA/TN/MIN/216202/2021, dated: 02/07/2021 and was appraised (File No.


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8607/2021) vide 243rd SEAC meeting held on 04.02.2022. Based on the presentation and documents furnished by the project proponent, SEAC noted that Gangaikondan Spotted Deer Sanctuary is located at 1.8 Km (NE) from the lease area and 0.91km from the Eco Sensitive Zone as per Notification S.O. 2773(E)dated 31.07.2019 of MOEF & CC and Talaiyattu RF is located 0.4km in SW direction. The Committee felt that the proposed mining activity is close to the Eco Sensitive Zone and mining activity will affect the endangered species, wildlife and flora & fauna. The Committee, therefore, decided not to recommend the project proposal. Subsequently, this subject was placed in the 486th Authority meeting held on 16.02.2022. In view of the above, the Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes of 04.02.2022 to the project proponent.

Now the PP has sought to revive the same proposal by filing a new application vide online application No. SIA/TN/MIN/420387/2023, Dated: 10.03.2023 as below.

Description	Old File	New File
File No	8607	9934
Online Proposal No for EC	SIA/TN/MIN/216202/2021, dated: 02/07/2021	SIA/TN/MIN/420387/2023, Dated: 10.03.2023

SEAC, therefore, decided that the proposal may be placed before Authority for taking necessary action to avoid such proposals, where decision has already been taken, in the guise of new proposal.

Agenda No: 387-13


(File No: 9955/2023)

Proposed Rough Stone Quarry lease over an extent of 0.97.0 Ha at S.F. Nos. 51 (PART-3) of Allappanur Village, Thandrampattu Taluk, Tiruvannamalai District, Tamil Nadu by Thiru. J. Gunasekaran - For Environmental Clearance. (SIA/TN/MIN/422547/2023, Dated: 18.03.2023)

The proposal was placed in 387th SEAC meeting held on 28.06.2023. 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. J. Gunasekaran has applied for Environmental


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Clearance for the proposed Rough Stone Quarry lease over an extent of 0.97.0 Ha at S.F. Nos. 51 (PART-3) of Allappanur Village, Thandrampattu Taluk, Tiruvannamalai 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. As per mining plan, the lease period is for 5 years. The mining plan is for 5 years & production should not exceed 97,770m³ of Rough Stone. The annual peak production 19,840m³ of Rough Stone. The ultimate depth of mining is 35m (15m – AGL & 20m – BGL).

File No	9955/2023		Category	B2	
	422547/2023			1(a)	
Sl. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm	:	Thiru. J. Gunasekaran, S/o. Jagadeesan, No.1/10, Anumantha Ubasakarpettai, Tirupathur District-635601		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Lime stone)	:	Rough stone Quarry		
3.	S.F Nos. of the quarry site with area break-up	:	51 (PART-3)		
4.	Village in which situated	:	Allappanur		
5.	Taluk in which situated	:	Thandrampattu		
6.	District in which situated	:	Tiruvannamalai		
7.	Extent of quarry (in ha.)	:	0.97.0 Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	12°05'59.55"N to 12°06'03.55"N 78°56'52.96"E to 78°56'57.09"E		
9.	Topo Sheet No.	:	57- L/16		
10.	Type of mining	:	Opencast Semi-Mechanized Mining		
11.	Life of Project	:	5 years		
	Lease Period	:	5 years		
	Mining Plan Period	:	5 years		
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC	
	Geological Resources m ³ (RoM)	:	Rough stone 3,08,465m ³	Rough stone -	

	Minable Resources m ³ (RoM)	:	Rough stone 97,770m ³	Rough stone -
	Annual Peak Production in m ³	:	Rough stone 19,840m ³	Rough stone -
	Maximum Depth in meters	:	35m (15m AGL + 20m BGL)	
13.	Depth of water table	:	49m in rainy & 52m in summer	
14.	Man Power requirement per day:	:	22 Nos	
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	2.5 KLD 1.0 KLD 1.0 KLD 0.5 KLD	
16.	Power requirement	:	TNEB	
17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Na.Ka.No. 06/ Kanimam/2023, Dated:09.01.2023	
18.	Mining Plan approved by Deputy Director, Department of G&M.	:	Rc.No.06/ Kanimam/2023, Dated: 22.02.2023	
19.	Department of G&M, Deputy Director, 500m Cluster Letter	:	Rc.No.06/ Kanimam/2023, Dated: 22.02.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 28.02.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 1,03,00,000	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits. Rough Stone
		:	Max Total RoM in m ³	97,770m ³
		:	Annual Max RoM in m ³	19,840m ³
		:	Max Depth in mtrs	35m (15m AGL + 20m BGL)
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 14.48 Lakhs Recurring Cost – Rs. 13.61 Lakhs	
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000	

Based on the presentation & documents furnished, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 19,840 m³ of Rough Stone by maintaining an ultimate depth of 35m (15m – AGL & 20m – BGL only) 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 few habitations are situated within 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 3) For 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 to be constructed and proposed quarry wall within one year from the commencement of mining operations, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 4) The PP shall furnish the Standard Operating Procedures (SoP) for carrying out the blasting operations in the proposed quarry to the AD (Mines) at the time of lease execution.
- 5) The PP shall carry out the mitigation measures as stipulated in Annexure-I for the protection of Reserve Forest during the quarrying operations.
- 6) As accepted by the Project proponent the CER cost is Rs.5 lakhs and the same shall be spent for the Panchayat Union primary School, Allapanur Village as committed, before obtaining CTO from TNPCB.

Agenda No: 387-14

(File No: 9928/2023)

Proposed rough stone & gravel quarry lease over an extent of 2.00 Ha at S.F.No. 1422/1 & 1422/2B of Bodinaickkanur Village, Bodinaickkanur Taluk, Theni District, Tamil Nadu by Thiru.S.Velusamy – For Environmental Clearance (SIA/TN/MIN/422010/2023 dated 17.03.2023)

The proposal was placed in the 387th meeting of SEAC held on 28.06.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.S.Velusamy has applied for Environmental Clearance for the Proposed rough stone & gravel quarry lease over an extent of 2.00 Ha at S.F.No. 1422/1 & 1422/2B of Bodinaickkanur Village, Bodinaickkanur Taluk, Theni District, Tamil Nadu.
2. The project/activity is covered under Category “B2” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.
3. Earlier appl No. SIA/TN/MIN/178554/2020 dt: 31.10.2020 (File No. 7987/2020) was appraised vide 260th meeting of SEAC held on 01.04.2022. 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


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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 Agamalai Reserve Forest 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 504th meeting of SEIAA held on 06.05.2022.

4. Subsequently, the above rule has been amended vide GO No. 243 Industries, Investment Promotion and Commerce (MMC.1) Department, dated 14.12.2022, as below.

“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”.

5. Consequently, the proponent has re-presented/reapplied the proposal to reconsider the earlier decision based on the above G.O.
6. Now, the Proponent has resubmitted the same proposal vide online application No. SIA/TN/MIN/422010/2023 dated 17.03.2023 (File No. 9928/2023) with all necessary supporting documents in order to obtain Environmental Clearance.

Description	Old File	New File
File No	7987	9928
Online Proposal No for EC	SIA/TN/MIN/178554/2020 dated: 31.10.2020	SIA/TN/MIN/422010/2023 dated 17.03.2023

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

File No	9928	Category	1(a)
	SIA/TN/MIN/422010/2023		B2
Sl. No	Salient Features of the Proposal		

1	Name of the Owner/Firm	:	Thiru. S. Velusamy, S/o. Sengappa Naickkar, Pappammalpuram, Andipatti Taluk, Theni District – 625 512.	
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel Quarry	
3	S.F Nos. of the quarry site with area break-up	:	1422/1 and 1422/2B	
4	Village in which situated	:	Bodinaickkanur	
5	Taluk in which situated	:	Bodinaickkanur	
6	District in which situated	:	Theni	
7	Extent of quarry (in ha.)	:	2.00.0 Ha	
8	Latitude & Longitude of all corners of the quarry site	:	10°02'15"N to 10°02'21"N 77°21'59"E to 77°22'05"E	
9	Topo Sheet No.	:	58F/8	
10	Type of mining	:	Opencast semi mechanized mining	
11	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
12	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Rough Stone - 7,00,805 m ³	Rough Stone - 7,00,805 m ³
			Gravel - 40,046 m ³	Gravel - 40,046 m ³
	Minaible Resources m ³ (RoM)	:	Rough Stone - 2,86,580m ³	Rough Stone - 2,86,580m ³
			Gravel - 30,648m ³	Gravel - 30,648m ³
	Annual Peak Production in m ³	:	Rough stone – 57,445m ³	Rough stone – 57,445m ³
Gravel – 23,644m ³			Gravel – 23,644m ³	
Maximum Depth in meters	:	37m below ground level	37m below ground level	
13	Depth of water table	:	53m BGL	

14	Man Power requirement per day:	:	20 Nos.	
15	Water requirement: 1. Drinking and Domestic Purpose 2. Dust suppression 3. Green belt	:	2.5 KLD 1.5 KLD 0.5 KLD 0.5 KLD	
16	Power requirement		No electricity is required.	
17	Precise area communication approved by the District Collector with date	:	Roc.No.307/Kanimam/2018, dated:10.02.2020.	
18	Mining Plan approved by the Assistant Geologist/ Assistant Director (i/c), Dept. of Geology and Mining with date	:	Roc.No.307/Mines/2018, dated:09.03.2020.	
19	500m cluster letter issued by the Assistant Geologist/ Assistant Director(i/c), Dept.of Geology and Mining with date		Roc.No.307/Mines/2018, dated:23.03.2020.	
20	Tahsildar Certificate Regarding Structures/ habitations within 300m Radius		Letter dated: 03.02.2019	
21	Project Cost (excluding EMP cost)	:	Rs. 72,50,000/-	
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.
				Rough Stone Gravel
		:	Max Total RoM in m ³	2,86,580 30,648
		:	Annual Max RoM in m ³	57,445 23,644
		:	Max Depth in mtrs	37m below ground level
23	EMP cost (in Rs. Lakh).	:	Capital Cost – 18.95 Lakhs Recurring Cost – 18.86 Lakhs	

24	CER cost (in Rs. Lakh).	:	Rs.5,00,000/-
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Based on the presentations & detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 57,445m³ of rough stone & 23,644m³ of gravel by maintaining the ultimate pit depth of 37 m and subject to the standard 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 few habitations and Reserve Forest are situated within 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 3) For 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 3rd year or when the depth exceeds 30 m 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.

- 4) The PP shall furnish the Standard Operating Procedures (SoP) for carrying out the blasting operations in the proposed quarry to the AD (Mines) at the time of lease execution.
- 5) The PP shall carry out the mitigation measures as stipulated in Annexure-I for the protection of Reserve Forest during the quarrying operations.
- 6) As accepted by the Project Proponent the CER cost is Rs. 5.0 lakh and the amount shall be spent for the committed activities in Village Government School before obtaining CTO from TNPCB.

Agenda No: 387-15

(File No: 9935/2023)

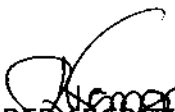
Proposed Rough Stone quarry lease over an extent of 1.20.0 Ha at S.F.No. 113/1 (Part-1) of Kondepalli Village, Krishnagiri Taluk, Krishnagiri District, Tamilnadu by Thiru. M.R.Venkatesan – For Environmental Clearance (SIA/TN/MIN/422870/2023 dated 21.03.2023)

The proposal was placed in the 387th meeting of SEAC held on 28.06.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **M.R.Venkatesan** has applied for Environmental Clearance for the Proposed Rough Stone quarry lease over an extent of 1.20.0 Ha at S.F.No. 113/1 (Part-1) of Kondepalli Village, Krishnagiri Taluk, Krishnagiri 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.
3. Earlier, EC was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.5368/1(a)/ EC.No.3430/2016, dated. 29.07.2016.
4. Now, the proponent has submitted an application seeking EC for the scheme of mining for the period 2021 – 2026.

Based on the presentation and documents furnished by the project proponent, the Committee noted that the proponent has carried out mining operations in the safety zones and also outside the lease area during the earlier EC period. The Committee, after deliberations decided to defer the proposal and take it up for discussion in the ensuing meeting.


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Agenda No: 387-16

(File No: 9942/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.25.5 Ha at S.F.No. 43/1A of Kunnathupatti Village, Thirumayam Taluk, Pudukottai District, Tamil Nadu by Thiru.K.Subbu – For Environmental Clearance.(SIA/TN/MIN/422627/2023 dated.21.03.2023)

The proposal was placed in the 387th meeting of SEAC held on 28.06.2023. The details of the project are available in the website (Parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.K.Subbu has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 1.25.5 Ha at S.F.No. 43/1A of Kunnathupatti Village, Thirumayam Taluk, Pudukottai 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.
3. The salient features of the proposal are as follows:

File No	9942		Category	1(a)
	SIA/TN/MIN/422627/2023			B2
Sl. N o	Salient Features of the Proposal			
1	Name of the Owner/Firm	:	Thiru.S.Subbu, S/o. Kumarappan, No. 2-21a, Valaiyanvayal, Melur Post, Thulaiyanur, Thirumayam Talluk, Pudukkottai – 622 507.	
2	Type of quarrying (Ordinary Stone/Sand/Granite/Lime stone)	:	Rough Stone and Gravel Quarry	
3	S.F Nos. of the quarry site with area break-up	:	43/1A	


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4	Village in which situated	:	Kunnathupatti	
5	Taluk in which situated	:	Thirumayam	
6	District in which situated	:	Pudukkottai	
7	Extent of quarry (in ha.)	:	1.25.50 Ha	
8	Latitude & Longitude of all corners of the quarry site	:	10°13'15.99"N to 10°13'19.82"N 78°42'49.85"E to 78°42'59.06"E	
9	Topo Sheet No.	:	58 -J/12	
10	Type of mining	:	Opencast Semi-Mechanized Method	
11	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
12	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Rough Stone - 6,88,740 m ³	Rough Stone -6,88,740 m ³
		:	Gravel – 448m ³	Gravel – 448m ³
	Minable Resources m ³ (RoM)	:	Rough Stone - 1,17,170m ³	Rough Stone - 1,17,170m ³
	Annual Peak Production in m ³	:	Rough Stone - 29,700m ³	Rough Stone - 29,700m ³
	Ultimate Depth in meters	:	42m	42m
13	Depth of water table	:	70m to 75m	
14	Man Power requirement per day:	:	32 Nos.	
15	Water requirement:	:	2.4 KLD	
	1. Drinking and Domestic Purpose	:	1.4 KLD	
	2. Dust suppression	:	0.5 KLD	

	3. Green belt		0.5 KLD	
16	Power requirement		93,728 liters of HSD for the entire project life	
17	Precise area communication approved by the Assistant Director, Dept. of Geology and Mining with date	:	Rc.No.292/2022(G&M) dated:09.11.2022.	
18	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	:	Rc.No.292/2022(G&M) dated:29.12.2022.	
19	500m cluster letter issued by the Assistant Director, Dept.of Geology and Mining with date		Rc.No.292/2022(G&M) dated:29.12.2022.	
20	VAO Certificate Regarding Structures within 300m Radius		Letter dated: 04.01.2023.	
21	Project Cost (excluding EMP cost)	:	Rs.39,24,000/-	
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.
				Rough Stone
		:	Max Total RoM in m ³	1,17,170
		:	Annual Max RoM in m ³	29,700
		:	Max Depth in mtrs	42m
23	EMP cost (in Rs. Lakh).	:	Capital Cost – 9,67,650/- Recurring Cost – 8,85,410/-	

24	CER cost (in Rs. Lakh).	:	Rs.8,00,000/-
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Based on the presentations & detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 29,700 m³ of rough stone by restricting the ultimate pit depth to 42 m as per the approved mining plan and subject to the standard conditions stipulated by MOEF &CC and Annexure-I, 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 few habitations and structures are situated within 300 m from the existing quarry, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT- Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 3) For 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 3rd year or when the depth exceeds 30 m 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


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

- 4) Since a water tank /waterbodies are situated within 200 m, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 5) As accepted by the Project Proponent the CER cost of Rs. 8 lakhs and the amount shall be spent towards the following schools for the committed activities before obtaining CTO from TNPCB.
- Panchayat Union middle School, Valaiyavayal, Thirumayam Panchayat Union, Pudukkottai District – Rs.4 Lakhs/-
 - Govt Middle School, Vepangudi_Village - Rs.4 Lakhs/-

Agenda No: 387-17

(File No: 9949/2023)

Proposed rough stone quarry lease over an extent of 1.64.0 Ha at S.F.No. 1254/7, 1276/1, 1276/2A, 1276/2B, 1276/3A, 1276/3B & 1277/2 of Katchaikatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu by Thiru.N.Viswanathan – For Environmental Clearance(SIA/TN/MIN/420414/2023 dated 29.03.2023)

The proposal was placed in the 387th meeting of SEAC held on 28.06.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

- The project proponent, Thiru.N.Viswanathan has applied for Environmental Clearance for the Proposed rough stone quarry lease over an extent of 1.64.0 Ha at S.F.No. 1254/7, 1276/1, 1276/2A, 1276/2B, 1276/3A, 1276/3B & 1277/2 of Katchaikatti Village, Vadipatti Taluk, Madurai District, Tamilnadu.
- The project/activity is covered under Category “B2” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.


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Based on the presentation, documents & KML details furnished by the project proponent, the Committee observed that the quarry of K.Ramesh (SEIAA Proposal number.8461) lies within a distance of 400m from the current proposed quarry. Further, in the 500m cluster letter dated.08.02.2021 issued by Joint Director/Assistant Director (i/c), Dept.of G&M in the case of K.Ramesh (SEIAA Proposal No.8461), it was mentioned that there were 2 existing quarries and 2 proposed quarries are located within the vicinity of the lease under appraisal. Besides, the area of the total cluster covering the above quarries exceeds 5Ha. However the Assistant Director, Dept. of G&M has not furnished the details of any existing or proposed quarries located within a radius of 500m radius from the quarry of Thiru.N.Vishwanathan (current proposal) in his cluster letter dated.21.01.2023.

Hence, the Committee decided that SEIAA may obtain clarification from AD Mines in this regard and hence decided to defer this proposal in this meeting.

Agenda No: 387-18

(File No: 9956/2023)

Proposed rough stone & gravel quarry lease over an extent of 1.82.50 Ha at S.F.No. 281/2, 282/1, 283/1A, 283/1B, 283/1C, 283/2A, 283/2B, 283/2C, 283/4A & 283/4B of Velambur Bit-I Village, Peraiyur Taluk, Madurai District, Tamilnadu by Tmt.J.Selvi- For Environmental Clearance.(SIA/TN/MIN/423685/2023 dated.28.03.2023)

The proposal was placed in the 387th meeting of SEAC held on 28.06.2023. The details of the project are available in the website (Parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Tmt.J.Selvi has applied for Environmental Clearance for the Proposed rough stone & gravel quarry lease over an extent of 1.82.50 Ha at S.F.No. 281/2, 282/1, 283/1A, 283/1B, 283/1C, 283/2A, 283/2B, 283/2C, 283/4A & 283/4B of Velambur Bit-I Village, Peraiyur Taluk, Madurai 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.
3. The salient features of the proposal are as follows:

File No	9956		Category	1(a)
	SIA/TN/MIN/423685/2023			B2
Sl. No	Salient Features of the Proposal			
1	Name of the Owner/Firm	:	Tmt.J.Selvi, W/o. P. Jayaraj, 1/81, East Street, Pannikundu, Tirumangalam Taluk, Madurai District – 625 706.	
2	Type of quarrying (Ordinary Stone/Sand/Granite/Lime stone)	:	Rough Stone and Gravel Quarry	
3	S.F Nos. of the quarry site with area break-up	:	281/2, 282/1, 283/1A, 283/1B, 283/1C, 283/2A, 283/2B, 283/2C, 283/4A, 283/4B	
4	Village in which situated	:	Velambur Bit-I	
5	Taluk in which situated	:	Peraiyur	
6	District in which situated	:	Madurai	
7	Extent of quarry (in ha.)	:	1.82.50 Ha	
8	Latitude & Longitude of all corners of the quarry site	:	09°39'54.09"N to 09°40'00.12"N 77°51'26.79"E to 77°51'34.34"E	
9	Topo Sheet No.	:	58 G/14	
10	Type of mining	:	Opencast semi-mechanized mining	
11	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
12	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Rough Stone – 9,33,350 m ³	Rough Stone – 9,33,350 m ³
			Gravel – 37,334m ³	Gravel – 37,334m ³
	Mina ble Resources m ³ (RoM)	:	Rough Stone – 1,13,426m ³	Rough Stone – 1,13,426m ³
Gravel – 16,388m ³			Gravel – 16,388m ³	

	Annual Peak Production in m ³	:	Rough Stone – 25,015m ³	Rough Stone – 25,015m ³
			Gravel – 8026m ³	Gravel – 8026m ³
	Ultimate Depth in meters	:	32m BGL	32m BGL
13	Depth of water table	:	55m to 60m below ground level	
14	Man Power requirement per day:	:	16 Nos.	
15	Water requirement: 1. Drinking and Domestic Purpose 2. Dust suppression 3. Green belt	:	2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD	
16	Power requirement	:	93,466 liters of HSD for the entire project life.	
17	Precise area communication approved by the Assistant Director, Dept. of Geology and Mining with date	:	Roc.No.1595/Mines/2021, dated:06.02.2023.	
18	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	:	Roc.No.1595/Mines/2021-1, dated:10.02.2023.	
19	500m cluster letter issued by the Assistant Director, Dept.of Geology and Mining with date	:	Roc.No.831/Mines/2022-2, dated:10.02.2023.	
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated: 28.02.2023.	
21	Project Cost (excluding EMP cost)	:	Rs.36,27,500/-	
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.
				Rough Stone Gravel
		:	Max Total RoM in m ³	1,10,906 16,388

		:	Annual Max RoM in m ³	25,015	8026
		:	Max Depth in mtrs	32m	
23	EMP cost (in Rs. Lakh).	:	Capital Cost – 13,48,750/- Recurring Cost – 9,97,800/-		
24	CER cost (in Rs. Lakh).	:	Rs.5,00,000/-		

Based on the presentations & detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the revised quantity of 1,10,906m³ of rough stone & 16,388m³ of gravel by maintaining an ultimate depth of 32m and however the annual peak production shall not exceed 25,015m³ of rough stone & 8026m³ of gravel, and subject to the standard conditions stipulated by MOEF &CC & Annexure-I, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The proponent shall erect high metal sheet fencing around the project site such that there will be no disturbance to the people/habitations situated in the vicinity of the project area.
- 3) The PP shall obtain prior permission from the Director of Mines Safety, DGMS-Chennai Region for carrying the blasting operations in the proposed quarry.
- 4) Further, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations as few habitations and structures are situated within 300 m from the existing quarry, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB,


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

- 5) For 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 3rd year or when the depth exceeds 30 m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 6) As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent towards the Panchayat Union Elementary School, V. Rettrapatti for the committed activities before obtaining CTO from TNPCB.

Agenda No: 387-19

(File No: 9427/2022)

Proposed rough stone quarry lease over an extent of 2.25.0 Ha in S.F.no 279/1 (Part-2), Kondappanayanapalli Village, Bargur Taluk, Krishnagiri District, Tamilnadu by Thiru.R.Shanmugam – For Environmental Clearance (SIA/TN/MIN/285784/2022 dated 28.07.2022)

The proposal was placed in the 387th meeting of SEAC held on 28.06.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.R.Shanmugam has applied for Environmental Clearance for the proposed rough stone quarry lease over an extent of 2.25.0 Ha in S.F.no 279/1 (Part-2), Kondappanayanapalli Village, Bargur Taluk, Krishnagiri 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.
3. Earlier, the proponent was issued with Environmental Clearance vide Lr.No.SEIAA-TN/F.No.5627/1(a)/EC.No.3783/2016 dated 13.10.2016 for a validity of 5 years for quarrying in the project area.


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4. Now, the proponent has applied for EC for the scheme of mining for the period 2022-2027.
5. Earlier, the proposal was placed in 332nd meeting of SEAC held on 25.11.2022. 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 adequate responses from the PP for the points mentioned in the minutes.
6. The proponent vide letter dated.25.04.2023 furnished a reply to the queries raised by SEAC.
7. In view of the above, the proposal was again placed in this 387th meeting of SEAC held on 28.06.2023.
8. The salient features of the proposal are as follows:

File No	9427	Category	1(a)
	SIA/TN/MIN/285784/2022		B2
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.R. Shanmugam, S/o. Shri Ranganathan, Gengavaram Village, M.G.Halli Post, Pochampalli Taluk, Krishnagiri District – 635 206.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone Quarry
3.	S.F Nos. of the quarry site with area break-up	:	279/1 (Part-2)
4.	Village in which situated	:	Kondappanayanapalli
5.	Taluk in which situated	:	Bargur
6.	District in which situated	:	Krishnagiri
7.	Extent of quarry (in ha.)	:	2.25.0 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	12°30'55.49"N to 12°31'00.89"N 78°21'16.18"E to 78°21'21.95"E
9.	Topo Sheet No.	:	57L/06

10.	Type of mining	:	Open-cast semi-mechanized mining
11.	Life of Project	:	5 years
	Lease Period	:	10 years (22.03.2017 – 21.03.2027)
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan As modified by SEAC
	Geological Resources m ³ (RoM)	:	Rough stone - 9,56,775m ³ Rough stone - 9,56,775m ³
		:	Topsoil – 13,340m ³ Topsoil – 13,340m ³
	Mirable Resources m ³ (RoM)	:	Rough stone - 1,84,850m ³ Rough stone - 1,84,850m ³
		:	Topsoil – 7082m ³ Topsoil – 7082m ³
	Annual Peak Production in m ³	:	Rough stone - 38,330 m ³ Rough stone - 38,530 m ³
:		Topsoil - 6882 m ³ Topsoil - 6882 m ³	
Maximum Depth in meters	:	56m (36m Above Ground Level + 20m Below Ground level) 56m (36m Above Ground Level + 20m Below Ground level)	
13.	Depth of water table	:	45m – 40m below ground level
14.	Man Power requirement per day	:	21 Nos.
15.	Water requirement:	:	3.0 KLD
	4. Drinking and Domestic Purpose	:	1.0 KLD
	5. Dust suppression	:	1.0 KLD
	6. Green belt	:	1.0 KLD
16.	Power requirement	:	-
17.	Precise area communication approved by the District Collector with date	:	Roc.No.65/2016/Mines, dated:29.02.2016.
18.	Mining Plan approved by the Deputy Director, Dept. of Geology and Mining with date	:	Roc.No.943/2021/Mines, dated:07.03.2022.
19.	500m cluster letter issued by the Deputy Director, Dept.of	:	Roc.No.943/2021/Mines, dated:07.03.2022.

	Geology and Mining with date			
20	VAO Certificate Regarding Structures within 300m Radius		Letter dated: 29.09.2022.	
21.	Project Cost (excluding EMP cost)	:	Rs. 81,25,000/-	
22	EC Recommendation	:	Validity	
			30 years subject to the following upper limits.	
			Rough Stone	Topsoil
		:	Max Total RoM in m ³	1,84,850
:	Annual Max RoM in m ³	38,330	6882	
:	Max Depth in mtrs	56m (36m above ground level + 20m below ground level)		
23	EMP cost (in Rs. Lakh).	:	Capital Cost – 13,79,000/- Recurring Cost – 9,72,062/-	
24	CER cost (in Rs. Lakh).	:	Rs.5,00,000/-	

Based on the presentations & detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 1,84,850m³ of rough stone & 7082m³ of topsoil by maintaining an ultimate depth of 56m (36m above ground level + 20m below ground level) and the annual peak production not exceeding 38,330m³ of rough stone, subject to the standard conditions stipulated by MOEF &CC. in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall obtain prior permission from the Director of Mines Safety, DGMS-Chennai Region for carrying the blasting operations in the proposed quarry.
- 3) Further, the PP shall carry out the scientific studies within a period of one year from the commencement of quarrying operations, to optimize the blast design

parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 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 3rd year or when the depth of working exceeds 30 m 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 towards the Government High school, Kondappanayanapalli Village for the committed activities before obtaining CTO from TNPCB.

Agenda No: 387-20

(File No: 9929/2023)

Proposed Rough stone & Gravel quarry lease area over an extent of 0.63.5Ha at S.F.Nos.1670/1A1 (Part) of Gangaikondan Part II Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by Thiru.P.Velu - For Environmental Clearance.(Online.No: SIA/TN/MIN/422340/2023, Dated:21.03.2023)

Earlier, the proposal was placed for appraisal in 231st meeting of SEAC held on 03.09.2021. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, Thiru. P. Velu has applied for Environmental Clearance for


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the proposed Rough Stone & Gravel quarry lease over an extent of 0.63.5Ha at SF.No. 1670/1A1 (Part) of Gangaikondan Part II Village, Tirunelveli Taluk, Tirunelveli 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.

Based on the presentation and documents furnished by the project proponent, SEAC noted that Gangaikondan Deer Sanctuary is located exactly about 1km, hence the committee decided that the project proponent shall obtain no objection certificate from concerned Authority/department.

The project proponent has furnished the reply vide letter dated 29.10.2021.

Now the proposal was placed for appraisal in this 261st meeting of SEAC held on 07.04.2022. The Project proponent a presentation along with clarification for the above shortcomings observed by the SEAC.

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 Gangaikonan Reserve Forest is located at a distance of 1.0km from this project site and the proposal is, therefore, hit by the above G.O. The Committee, therefore, decided not to recommend the proposal.

Now the proposal was placed in 387th meeting of SEAC held on 28.06.2023. 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”.

The proposal is near to Gangaikonan Reserve Forest based on the above said G.O. The Proponent has resubmitted the same proposal on 06.01.2023 with all necessary supporting documents in order to obtain Environmental Clearance.

Description	Old File	New File
File No	8517	9929
Online Proposal No for EC	SIA/TN/MIN/208239/2021, Dated 08.04.2021	SIA/TN/MIN/422340/2023 Dated 21.03.2023

Based on the presentation and documents furnished by the project proponent, SEAC noted that Gangaikondan Spotted Deer Sanctuary is located at 1.03 Km from the lease area and 0.91km is the Eco Sensitive Zone as per Notification S.O. 2773(E)dated 31.07.2019 of MOEF & CC. The Committee also noted that there are two check dams located one at 79m and other at 170m. The Committee felt that the proposed mining activity is close to the ecologically sensitive area and mining activity will affect the endangered species, wildlife and flora & fauna. The Committee, therefore, decided not to recommend the project proposal.

Agenda No: 387-21

(File No: 9936/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 0.76.5Ha at SF.No. 474/1B & 474/2 of Mylampad Village, Bhavani Taluk, Erode District, Tamil Nadu by Tmt. T.M. Vijayalakshmi - for Environmental Clearance.(SIA/TN/MIN/ 422742/2023, Dated:20.03.2023)

The proposal was placed in 387th meeting of SEAC held on 28.06.2023. 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. T.M. Vijayalakshmi has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 0.76.5Ha at SF.No. 474/1B & 474/2 of Mylampad Village, Bhavani Taluk, Erode District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category “B2” of Item 1(a) “Mining


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

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

- (i) The PP shall furnish certified compliance report.
- (ii) The PP shall revise action plan for high wall.
- (iii) The PP shall furnish slope stability action plan for the existing pit with benches as the existing pit appears to be devoid of benches.

On receipt of the reply, the Committee will deliberate further and decide future course of action.

Agenda No: 387-22

(File No: 9950/2023)

Proposed Gravel quarry lease over an extent of 0.73.5Ha at SF.No. 285/1 of Balajangamanahalli Village, Nallampalli Taluk, Dharmapuri District, Tamil Nadu by Thiru. S. Perumal - for Environmental Clearance.(SIA/TN/MIN/ 423898/2023, Dated:29.03.2023)

The proposal was placed in 387th meeting of SEAC held on 28.06.2023. 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. S. Perumal has applied for Environmental Clearance for the proposed Gravel quarry lease over an extent of 0.73.5Ha at SF.No. 285/1 of Balajangamanahalli Village, Nallampalli Taluk, Dharmapuri 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.

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

1. The project proponent shall furnish soil analysis report indicating the composition/component of the minerals proposed to be quarried and also the PP shall analyse for organic content obtained from anyone of the following test laboratories authorized by the Director of Geology and Mining as directed in the Judgment.

1.	Department of Civil Engineering, National Institute of Technology, Trichy – 620015.
2.	Department of Civil Engineering, Govt College of Engineering, Karuppur, Salem – 636011.
3.	Division of Soil Mechanics and Foundation Engineering, Dept of Civil Engineering, Anna University, CEG Campus, Guindy, Chennai – 600025.

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 fall under any notified/declared protected zones in terms of Judgement issued by the Hon'ble Madurai Bench of Madras High Court in W.P.(MD) Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019 dated 12.02.2021.
3. The PP revise 500m radius cluster certificate.

On receipt of the reply, the Committee will deliberate further and decide future course of action.

Agenda No: 387-23

(File No: 9957/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.00.0Ha at SF.No. 116/1 (part) of Pachudayampatty Village, Sendamangalam Taluk, Namakkal District, Tamil Nadu by Thiru. N.Tirupathiswamy - for Environmental Clearance.

(SIA/TN/MIN/ 424136/2023, Dated:01.04.2023).

The proposal was placed in 387th meeting of SEAC held on 28.06.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. N.Tirupathiswamy has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 1.00.0Ha at SF.No. 116/1 (part) of Pachudayampatty Village, Sendamangalam 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.


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

1. The PP shall furnish revised VAO letter.
2. The PP shall furnish registered consent.
3. Details of existing pit.
4. The PP shall revise CER.
5. The proponent shall enumerate on the details of the structures located within 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.

On receipt of the reply, the Committee will deliberate further and decide future course of action.

Agenda No: 387-24

(File No: 9964/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 4.83.50 at SF.No. 270/13, 270/14A, 270/14B, 270/3, 271/1B(P), 271/1C, 271/1D, 271/1E, 271/2(P), 271/3(P), 271/4(P), 271/5, 271/6, 271/7, 272/1, 276/1A, 276/1B and 276/2 of Kattankulam Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu by M/s. Sri Thaiyalnayagi Earth Movers Private Limited - for Environmental Clearance.

(SIA/TN/MIN/424245/2023, Dated:03.04.2023)

The proposal was placed in 387th meeting of SEAC held on 28.06.2023. 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 Thaiyalnayagi Earth Movers Private Limited has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 4.83.50Ha at SF.No. 270/13, 270/14A, 270/14B, 270/3, 271/1B(P), 271/1C, 271/1D, 271/1E, 271/2(P), 271/3(P), 271/4(P), 271/5, 271/6, 271/7, 272/1, 276/1A, 276/1B and 276/2 of Kattankulam Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining


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

The PP stated that the proposal is located at 4.35km north of Karikili Bird Sanctuary. It is located outside the Eco sensitive zone vide letter Ref. No. WL5/3767/2023 dated 15.02.2023 issued by PCCF and CWLW & Ref.No. WL5/17723/2022 dated 26.10.22 and as such NBWL is not applicable.

File No	9964/2023	Category	B2
	SIA/TN/MIN/424245/2023, Dated:03.04.2023		
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	M/s. Sri Thaiyalnayagi Earth Movers Private Limited, Arumugam Kumar (Managing Director), No.2, Bharathiyar street, M.G.R.Nagar, Thambaram West, Chennai-600045
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	:	270/13, 270/14A, 270/14B, 270/3, 271/1B(P), 271/1C, 271/1D, 271/1E, 271/2(P), 271/3(P), 271/4(P), 271/5, 271/6, 271/7, 272/1, 276/1A, 276/1B and 276/2
4.	Village in which situated	:	Kattankulam
5.	Taluk in which situated	:	Uthiramerur
6.	District in which situated	:	Kancheepuram
7.	Extent of quarry (in ha.)	:	4.83.50Ha
8.	Latitude & Longitude of all corners of the quarry site	:	12°41'12.46"N to 12°41'21.33"N 79°49'18.19"E to 79°49'29.42"E
9.	Topo Sheet No.	:	57 P/14
10.	Type of mining	:	Opencast Semi-Mechanized Mining
11.	Life of Project	:	10 years
	Lease Period	:	10 years
	Mining Plan Period	:	5 years


	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
12.	Geological Resources m ³ (RoM)	:	Rough stone	Gravel
			2172960m ³	96576m ³
	Mina ble Resources m ³ (RoM)	:	Rough stone	Gravel
			81594m ³	872975m ³
	Annual Peak Production in m ³	:	Rough stone	Gravel
			141495m ³	57638m ³
Maximum Depth in meters	:	27m BGL		
13.	Depth of water table	:	58m	
14.	Man Power requirement per day:	:	32 Employees	
15.	Water requirement:	:	3.5 KLD	
	1. Drinking water		1.0 KLD	
	2. Dust suppression		2.0 KLD	
	3. Green belt		0.5 KLD	
16.	Power requirement	:	TNEB	
17.	Precise area communication approved by the Assistant Director(i/c), Department of G&M.	:	Rc.No.280/Q3/2022, Dated: 07.02.2023	
18.	Mining Plan approved by Assistant Director(i/c), Department of G&M.	:	Rc.No.280/Q3/2022, Dated: 14.02.2023	
19.	Department of G&M, Assistant Director(i/c), 500m Cluster Letter	:	Rc.No.280/Q3/2022, Dated: 14.02.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:10.02.2022	
21.	Project Cost (excluding EMP cost)	:	Rs. 1,10,41,000	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
				Rough Stone

		:	Max Total RoM in m ³	699200m ³	81594m ³
		:	Annual Max RoM in m ³	141495m ³	57638m ³
		:	Max Depth in mtrs	27m BGL	
23.	EMP cost (in Rs. Lakh).	:	Rs.363.03 Lakhs		
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000		

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity not exceeding 6,99,200m³ of Rough stone and 81,594m³ of Gravel with an ultimate depth of 27m BGL. The Annual peak production shall not exceed 1,41,495m³ of Rough stone and 57,638m³ of Gravel as per the approved mining plan subject to the standard conditions & normal conditions stipulated by MoEF&CC and Annexure-I, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall obtain prior permission from the Director of Mines Safety, DGMS-Chennai Region for carrying the blasting operations in the proposed quarry.
- 3) Further, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations as few habitations and structures are situated within 300 m from the existing quarry, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be


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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 3rd year or when the depth exceeds 30 m 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 Karikili Birds Sanctuary before obtaining CTO from TNPCB.

Agenda No: 387- TA 1

(File No: 6732/2022)

Existing Limestone Mine lease (G.O.7947) over an extent of 7.92.0 Ha in S.F.No. 2/2, 2/3, 3/2A, 4/1, 4/2A, 14/1A, 15 (Part) in Veerachipalayam Village & 235/6B in Alathur Village, Sankari Taluk, Salem District, Tamil Nadu by M/s. The India Cements Limited - For Environmental Clearance under Violation category. (SIA/TN/MIN/401961/2022 Dt.30.09.2022). The SEAC noted the following:

1. The project proponent, M/s. The India Cements Limited has applied for Environmental Clearance for the Existing Limestone Mine lease (G.O.7947) over an extent of 7.92.0 Ha in S.F.No. 2/2, 2/3, 3/2A, 4/1, 4/2A, 14/1A, 15 (Part) in Veerachipalayam Village & 235/6B in Alathur Village, Sankari Taluk, Salem District, Tamil Nadu.
2. **Category:** The proposed project falls under Category 'B' [Sl. No 1(a) of Schedule: Mining of Minerals] of the list of project or activities requiring prior Environmental Clearance from MoEF&CC Notification dated 14th September, 2006 in connection with Environment (Protection) Rules 1986.


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3. ToR under violation was granted by SEIAA, Tamil Nadu vide Lr No. SEIAA-TN/F.No.6732/ToR-631/2019 Dated:12.07.2019.
4. The Project is not situated within the one kilometre or extended buffer zone (ESZ), as the case may be, of any wildlife sanctuary or national park or elephant corridor (or) tiger reserve as per the DFO letter, dated.18.11.2022.
5. Chronology of events of the project details:
 - Mining Lease in G.O.7947 over an extent of 7.92.0 Ha in S.F.No. 2/2, 2/3, 3/2A, 4/1, 4/2A, 14/1A, 15 (Part) in Veerachipalayam Village & 235/6B in Alathur Village, Sankari Taluk, Salem District, Tamil Nadu granted by Department of Geology & Mining, Govt of Tamil Nadu to M/s. The India Cements Limited, Chennai. The mining operation in GO 7947 lease area is carried out from 1991. Originally the lease was granted on 27.05.1991 and was valid up to 24.7.1999.
 - Total lease area is a non-forest land, patta land.
 - Keeping in view of expiry of the lease period the lessee applied for 1st Renewal of Mining Lease (RML) over the same lease area of 7.92.0 Ha and it was issued on 25-07-1999 for a period of 20 years and was valid up to 24-07-2019.
 - The scheme of mining was prepared for the period 2014-2019 and approved by Indian Bureau of Mines vide letter No – TN/SLM/LST/MS-1064.MDS dt. 24.06.2014.
 - The Limestone reserves of the mining lease area estimated based on the detailed exploration carried out as per UNFC guidelines. The optimum exploitation can be done up to 90m from the ground level even though the deposits are extended below the ultimate pit depth. The reserve was re-estimated and re-classified as per UNFC norms based on the exploration data. The reserve as on 01.04.2014 is arrived to 0.43 million tonnes.
 - Hence, the balance mineable limestone reserve as on 01.04.2014 is 0.43 million Tonnes. The limestone production for the ensuing scheme period is 0.1 million Tonnes. The remaining reserve will be 0.33 million Tonnes. At the rate of production of 0.030 million Tonnes per year and after the scheme period, the reserves will last for 16 years. The total anticipated life of the mine will be 16 years ie. up to 2030.

- The lessee had submitted Review of Mining Plan (including Progressive Mine Closure Plan) for Veerachipalayam Limestone Mine over an area of 7.92 Ha duly approved by Indian Bureau of Mines vide letter No. TN/SLM/LST/ROPMP-1532 MDS dated 22.11.2018 under Rule 16 of MCDR, 2016.
- After satisfactorily complied the terms and conditions imposed in the approval letter, the officials from Indian Bureau of Mines was inspected the mine and certificate of PMCP for the approved area over 7.92.0 Ha under Rule 16 of MCR, 1960 has been issued by the Regional Controller, Indian Bureau of Mines, Chennai.
- During the pendency of the 1st RML application, the Government of India on 12.01.2015 announced promulgation of the ordinance for amendment in the Mines and Minerals (Development and Regulation) (MMDR) Act, 1957 and introduced new MMDR Amendment Act, 2015. As per the new amendment any lease granted before the commencement MMDR Act, 2015, shall be extended: (i) up to March 31, 2030 for minerals used for captive purpose (specific end-use) and up to March 31, 2020 for the minerals used for other than captive purpose, or (ii) till the completion of renewal period, or (iii) for a period of 50 years from the date of grant of such lease, whichever is later. Accordingly, the lease of limestone Mine governed by G.O.7947 over an extent of 7.92.0 Ha is eligible for extension upto 50 years w.e.f. 27.05.1991 to 01.12.2041 under section 8A(3) of the MMDR Amendment Act, 2015.

6. Details of violation

- This project falls under category "B" since the mining lease area is less than 50 Ha. First lease renewal was valid up to 24-07-2019. Since this is a working mine from year 1991, presuming EC is to be obtained at the stage of lease renewal only, application for obtaining EC was not submitted to SEIAA Tamil Nadu. Hence this is a violation project. Accordingly, the mining operations were suspended w.e.f. 16.06.2016 vide DD (Geology & Mines) letter dated. 31.05.2017.
- Further, in pursuant to order/judgement dated 02.08.2017 in W.P.(C). No.114/2014 (Common Cause Vs Union of India & Others), in page no. 97 states that

(9) In the event of any overlap that is illegal or unlawful mining without FC or without an EC or without both would attract only 100% compensation and not 200% compensation”

Hence the District Collector, Salem had issued demand notice to the lessee for payment of Rs.69,74,948/- as the India Cements Limited, Sankari has been instructed to pay 100% compensation on price of mineral quantity of 44,385 tonnes treated as excess quantity lifted with exceeding the base year 1993-94 for having operated the mine without prior environmental clearance from the SEIAA, Tamil Nadu vide Proceedings No: Roc.45/2018-LST-1/Mines-A, dated. 11.12.2018.

- Accordingly, the PP had remitted Rs.69,74,948/- on 07.01.2019 to the DMG and hence NOC is granted by the Commissioner of Geology and Mining vide Proceedings No. RC. No. 7790/MM9/2018, dated. 04.02.2023 to obtain Environmental Clearance from SEIAA.
 - The PP has submitted an affidavit, in compliance of the MoEF&CC, Government of India, O.M. No. F: 3-50/2017-IA.III (Pt.), dated 30.05.2018 on the judgment of Hon'ble Supreme Court, dated the 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India along with TOR application.
7. The PP has applied for EC (under Violation Category) to MOEF & CC on 04.07.2017. However, the file was transferred to the SEIAA, Tamil nadu on 02.06.2018.
8. Accordingly, the SEIAA-TN have granted the ToR under Violation on 12.07.2019 and the Public Hearing was conducted 30.07.2022 and ToR extension was granted vide SEIAA-TN/F.No.6732/SEAC/ToR-631/Extn dt. 26.09.2022.

Based on the presentation and documents furnished by the project proponent during the 370th SEAC meeting held on 25.04.2023, the SEAC constituted a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings besides assessing the ecological damage assessment in accordance with CPCB Guidelines, and the remediation plan, natural resource augmentation and community resource augmentation submitted by the PP. After hearing from the Sub-Committee, the SEAC will decide the future course of action on granting the EC.


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Accordingly, the Sub-committee comprises of Dr. G. ANNE JOSEPHINE SELVAM, and Dr. P. BALAMADESWARAN, Members, SEAC-TN for the evaluation of the site and to assess the ecological damage have inspected the quarry & other existing environmental settings on 03.06.2023.

About the Mine

The proponent is having 2 contiguous mining leases namely G.O.No.7947 with an extent of 7.92 Ha and G.O.87 with an extent of 61.885 Ha collectively called Veerachipalayam Limestone Mines.

1. G.O.No.7947 dated 25.01.2055 over an extent of 7.92 Ha of Patta land is in operation since year 1991. Production from this lease area is stopped from June 2016.
2. G.O.(Ms) No.87 (New) dated 20.08.2018 over an area of 61.885Ha is in operation since year 1968.

Both the above mining leases are contiguous and adjacent to each other. The mining operations are planned on a contiguous working basis.

The proponent has initiated action towards obtaining environmental clearance for its Veerachipalayam Limestone Mine (GO.7947) over an extent of 7.92 Ha in Alathur & Veerachipalayam Villages, Sankari Taluk, Salem District, Tamil Nadu.

The commencement of mining in this Lease was in the Year 1991 and the mining operations temporarily stopped from June2016 as per the direction from MOEF & CC for want of EC.

The balance Mineable Limestone Reserves as on 01.04.2023 is 0.41 Million Tonnes of usable Limestone. Opencast Mechanized Method of Controlled Blasting operation is adopted. The proposed maximum production from this Lease is 0.31 Lakh Tonnes of usable Limestone. Waste Dump is proposed within the mining lease area. Ultimate Pit Depth will be 90 meters. No ground water-table intersection is involved. Balance Life of the Mine as per the proved reserves and peak production quantity is 13 years but the life of the mine is considered up to the lease period of year 01.12.2041.

The Salient Features of the Mine indicating the sequence of activities carried out before EIA appraisal and the details on the Mining Plans/Schemes approved by the competent authority are enlisted as below:


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Sl. No	Sequence of events	Date
1	Mining operations stopped	06.06.2016
2	Online application submitted to MoEF & CC, New Delhi	04.07.2017
3	File transferred from MOEF & CC, New Delhi to SEIAA-TN	02.06.2018
4	Violation Penalty Demand raised by District Collector, Salem for an amount of Rs.69.74 Lakhs	11.12.2018
5	Penalty amount Rs.16.53 Lakhs remitted	17.01.2019
6	ToR granted by SEIAA	12.07.2019
7	Public Hearing Conducted	30.07.2022
8	ToR Extension granted	26.09.2022
9	Final EIA/EMP submitted	29.09.2022
10	NOC from Commissioner of Geology & Mining obtained	04.02.2023
11	Final EC Meeting by SEAC & Recommended for Site Visit by Sub Committee	25.04.2023
12	Sub-Committee Inspection	03.06.2023

Particulars	Details
Name of Project	Veerachipalayam Limestone Mine (G.O.No7947)
Project Proponent	M/s. The India Cements Limited
Location of mine	Alathur&Veerachipalayam Villages SF Nos.2/2(P), etc
Category of Project	B1
Proposed Capacity per Annum	0.31 LTPA of usable Limestone
Mine Lease Area	7.92 Ha
Lease Period	up to 01.12.2041
Total Working Day/Year	300 days
Total Number of workers employed	20
Total Water Requirement & Source	2 KLD & Source – Rain water collected in Mine pit
Latitude & Longitude	Latitude : 11°28'28.2"N to 11°28'09.3"N

Particulars	Details
	Longitude: 77°47'14.7"E to 77°47'26.1"E
TopoSheet number	58 E/15
Eco Sensitivity	Suriyamalai Reserved Forest is located 2.70 Km, Arasiramani Reserved Forest is located 3.18Km,ChinnagoundanurReserved Forest is located 4.94 Km,PerumalmalaiReserved Forest is located 8.72 Km, ManjukalpattiReserved Forest is located 8.84 Km.There are no other Eco Sensitive Areas like National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Sites, Tiger/Elephant Reserves, Reserved Forests, etc. (existing as well as proposed) within 10 km from the Lease.
Type of Land	Own Patta Land (7.92 Ha)
Method of Mining	Opencast Mechanized Conventional Drilling with Controlled Blasting is adopted
Bench parameters	Final bench Height of 10 meters & Width of more than 10 meters is maintained. However, the working benches of 4 to 5 m are being kept to facilitate the controlled blasting operations and to ensure quality & safety through stable slopes during the time of winning the mineral.
Present Depth of Mining	53 m BGL (maximum depth)
Ultimate Dimension of the Pit	380 (L) x 110 (W) x90 m (Depth)
Nearest railway station	Sankari Durg - 8.2Kms (Aerial)
Nearest Highway	Salem to Coimbatore Highway (NH-47) -1.8 km - E
Nearest air port	Coimbatore International Airport - 94 km
Seismic zone	Zone-II
Cost of the project	Rs.261 Lakhs

Sl. No.	Mining Plan/Scheme	Year	Approval vide IBM Letter Reference
1	Mining Plan	1989	TN/SLM/MP/LST/254-MDS dt 25.07.1989
2	Mining Scheme	1995	TN/SLM/MS/LST-17 MDS dt 19.12.1995
3	Mining Plan	1999	TN/SLM/MP/LST/1106-A-SZ dt 22.03.1999
4	Mining Scheme	2006	TN/SLM/MS/LST-401 dt 02.11.2006
5	Mining Scheme	2012	TN/SLM/MS/LST-684 dt 17.08.2012
6	Mining Scheme	2014	TN/SLM/LST/MS-1064-MDS dt 24.06.2014
7	Review of Mining Plan	2018	TN/SLM/LST/ROMP-1532.MDS dt 20.11.2018

As per the Review of Mining Plan approved by Indian Bureau of Mines vide letter no. TN/SLM/LST/ROMP-1532.MDS dt 20.11.2018, the proposed production is as follows.

Year	Limestone			Waste (T)	Total Waste (T)	Ore: Waste
	ROM (T)	Limestone Recovery (60%)	Waste Recovery (40%)			
2019-20	Nil					
2020-21	51350	30810	20540	26083	46623	01:01.5
2021-22	51600	30960	20640	26312	46952	01:01.5
2022-23	51575	30945	20630	34320	54950	01:01.8
2023-24	51525	30915	20610	34892	55502	01:01.8
Total	206050	123630	82420	121607	204027	

Projected Limestone Production Details up to the Lease Period

Year	Peak Annual Production Capacity of ROM (Tons)	Maximum Annual Production quantity of Limestone (Tons)
2024-25	51600	31000
2025-26	51600	31000
2026-27	51600	31000
2027-28	51600	31000
2028-29	51600	31000
2029-30	51600	31000

2030-31	51600	31000
2031-32	51600	31000
2032-33	51600	31000
2033-34	51600	31000
2034-35	51600	31000
2035-36	51600	31000
2036-37	51600	31000
2037-38	0	0
2038-39	0	0
2039-40	0	0
2040-41	0	0

The mine was working since the year 1991 which is prior to EIA Notification 1994. The mining operations were stopped from 06.06.2016 and the PP have submitted application for EC (under violation) applied to MoEF & CC on 04.07.2017. The File Transferred to SEIAA on 02.06.2018. The mining operations temporarily stopped from June 2016, this is a case of violation of Environment (Protection) Act, 1986 since mining was done without prior EC.

Sl. No.	Statute Requirement	Yes / No	Violation Status	Remarks
1	Valid EC	X	Mine was working since the year 1991 which is prior to EIA Notification 1994.	Prior EC not obtained
2	Valid CTO	√	Common CTO were obtained vide Order No.9128 (Water Act) and 6450 (Air Act) dated 18.06.1992. Also CTO was obtained for this lease from TNPCB upto 30.06.2017	There is No Violation in this regard.
3	Valid Mining Plans/Schemes	√	IBM has accorded the periodic Approvals for Mining Plans/Schemes of the Mine. Latest Review of Mining Plan was approved by IBM vide letter no. TN/SLM/LST/ROMP-	There is No Violation in this regard.

Sl. No.	Statute Requirement	Yes / No	Violation Status	Remarks
			1532.MDS dt 20.11.2018. Present ROMP is valid till 31.03.2024.	
4	Forest Clearance	-	No Forest Land involved.	Not Applicable
5	Transport Permits	√	ICL has obtained the required Transport Permits.	There is No Violation in this regard.
6	Any other Violation	-	Nil	Nil

As per the Review of Mining Plan approved, the excavated area shall be around 4.20 Ha at the end of mining operation. The mined-out pit area will be converted rain water harvesting pit. About 1.00 Ha will be under Green Belt, pertaining to this particular Lease.

EMP cost proposed by the proponent is given below

S.No	Activity	Capital cost (Rs. in lakhs)	Recurring Cost / Annum (Rs. in lakhs)
1	Mobile Water Sprinkling	40	1
2	Fixed Water Sprinkler	1	0.25
3	Sprinkling in the Mineral Dispatch area	0.5	-
4	Monitoring of Environmental quality		1
5	Installation of Piezometer	1	-
6	Green belt and afforestation	-	0.5
7	Occupational Health & Safety	-	3
8	Construction and Maintenance of Surface runoff management structures	-	0.25
9	Slope Stability Study	10	-
10	Provision of tyre washing facility	0.3	-

11	Provision of EC condition display board in mine entrance	0.3	-
12	Provision of CCTV cameras	0.5	-
13	Controlled blasting/Blast-induced Ground Vibration studies	-	7.75
14	Remuneration for statutory persons	-	40
	Total	53.6	53.75

The recurring cost of the EMP measures will be continued till the lease period is given below:.

Yearly recurring cost throughout the lease period											
Recurring cost @ 5% yearly escalation	Year	23-24	24-25	25-26	26-27	27-28	28-29	29-30	30-31	31-32	32-33
	(Rs in lakhs)		53.75	56.44	59.26	62.22	65.33	68.60	72.03	75.63	79.41
Yearly escalation	Year	33-34	34-35	35-36	36-37	37-38	38-39	39-40	40-41	41-42	Total
	(Rs in lakhs)	87.55	91.93	96.53	101.35	106.42	111.74	117.33	123.20	129.36	1641.47

Ecological damage assessment during the violation period was done by PP considering the following factors:

- Systematic mining operation in accordance with the approved Mining Plan & Scheme of Mining with maintaining the benches of appropriate geometry as stipulated by the regulatory agency (DGMS) is being carried out since the inception.
- DGMS permission under rule 106 (2)(b) of MMR 1961 for using heavy earth moving machinery and bench geometry was obtained.
- Adequate statutory manpower like qualified Mines Managers, Mines Foremen, Blasters, Mine Mate, Engineer, Supervisors were employed.
- The mitigate measures like effective water sprinkling, wet drilling, proper drainage arrangements, plantation, OHS measures were in place & no adverse impact on environment was caused during the violation period. The production drilling was carried out by deploying advanced drilling machine which has a Water Mist System with 120-liter tank capacity, hole stability with water injection system 15 degrees for sustainable environment. Photos Enclosure-h

- Under the guidance of the scientific institution – National Institute of Rock Mechanics (NIRM)/Bengaluru, the controlled blasting operation using millisecond delay detonators of NONEL shock tube & electric detonators was carried out for minimizing the blast-induced ground vibrations within the permissible limits for the structures located within the core area as stipulated by the Regional Inspector of Mines (DMS), Chennai Region following the DGMS Circular No. 7 of 1997 besides controlling the fly rock.
- No waste dumping outside lease area was carried out obeying the IBM circular dated 10.01.2013.
- The transportation of ROM was carried out through the dedicated transport road constructed & maintained by the PP with dust-free bitumen road surface. Even though there were no habitation were not existing along the road since beginning of mine, few habitations were developed close to the road in recent past.
- Presence of ground water in the adjacent observation well of ICL and bore well throughout the year indicate no hydraulic connectivity in between and it can be concluded no intersection of ground water table.
- Only the rain water collected in the mine sump was used for the dust suppression and plantation activities.
- Mining activity in these leases were stopped much before enactment of violation procedure of MoEF& CC laid in the Notification S.O. 804(E), dated. 14.03.2017.
- The lime stone requirement of the ICL Sankari cement plant was met from different captive mines of ICL. Though there is variation in production from a lease in different year, the overall annual production achievement was to meet the same need and as such no adverse increase in pollution load during violation period in the region envisaged.
- LULC study derived from the remote sensing satellite data spatial estimation of various land use and land cover categories of the buffer area indicate nearly than 58% of the area is covered under agriculture and large percentage of them is carried out under challenging environment in a rugged terrain. A 2 km radial buffer around the ML is also studied in further to understand the spatial pattern of LULC.
- The NDVI analysis shows that in the Mine lease area, there is no major change with respect to vegetation cover. However, in the 2Km buffer zone, there seems to be an improvement with regards to vegetation as the values show an increase of the NDVI indicating the positive change with regards to vegetation cover.

Apart from the above, scientific studies were periodically carried out in the mining area during the violation period for ensuing the scientific & systematic operation and the same is given below:

Scientific Studies Carried out in the Past & Observations

Sl. No.	Nature of Study	Outcomes
1	Systematic mineral exploration carried out in the mine during 1983-84, 1996-97 & 2015-16 for proving the Limestone occurrence, geometry & grade of the deposit.	Entire mining lease area has been explored and proved as per the guidelines of Ministry of Mines, Govt. of India and Geological resources and mineable reserves has been estimated. The exploration details incorporated in the mining plan / Review of Mining Plan were approved by IBM and carried out the work in accordance with the same during mining.
2	Hydrogeology study carried out by the Department of Applied Geology, University of Madras, Chennai during 2021.	The study observed that, the existing hydro geological condition in the mines area indicates that there is no hostile environmental impact on the groundwater / surface water regime.
3.	Blast induced ground vibration & Fly rock Control study by National Institute of Rock Mechanics (NIRM) during 2007.	They have recommended maximum charge/delay & the Controlled Blasting Design parameters and Techniques for the keeping the blast-induced ground vibration & air-overpressure (noise) within the permissible limits and controlling the fly rock production.

Besides, the competent authorities/officials of regulatory agencies – Director/Dy. Director of Mines Safety, DGMS & Regional Controller of Mines, IBM and the Dy. Director / Asst. Director of Mines belonging to the State Geology & Mining, District Forest Officials, the DEE/TNPCB have regularly inspecting our mines and pointing out the contraventions if any and gave suggestions to improve the operation, we have implemented and follows the direction, operating our mines as per the DGMS, IBM guidelines.

The proponent also mentioned that, the mine was awarded with various prizes in systematic mining, mineral conservation and safety measures taken in Mine Environment and Mineral Conservation Week celebrations conducted under the guidance of IBM and Mines Safety Week Celebrations conducted under the guidance of DGMS.


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Besides, the mine was awarded with 4-Star rating by the Indian bureau of Mines, Ministry of Mines, Govt of India for Environmental Sustainability in the mines.

During the interaction with the Sub-Committee members, the PP also informed the following:

- Geologically the area in and around the lease area contains metamorphosed crystalline limestone, associated with calc gneiss and quartzite of Archaean. As such there no major vegetation or agricultural activities are observed.
- Due to poor soil condition and non-availability of perineal water source, no major agricultural activity is carried out in and around the lease area. Only patches of plantation are observed in few places in the monsoon season based on water availability.
- It will be ensured that mining will be carried out adhering to all the statutory rules and regulations, appointing statutory personnel's like qualified mines manager, blaster, informing DGMS before commencement of mining operations and maintaining the environmental quality within the prescribed standards by effective implementation of various mitigate measures.
- As such release of Greenhouse gases (GHG), rise in temperature, affecting livelihood of the local people, loss of Agriculture, Forestry and Traditional Practices is not envisaged. Such a limited scope will not induce any climatic change leading to droughts, floods etc.
- No adverse impact on the surrounding environment is envisaged from this project since the number of equipment's to be used to achieve this production is less and the magnitude of operation is of low level.
- Certified vehicles with low carbon emissions will only be used. These equipments will be properly and regularly maintained. Besides, regular vehicular emission tests will be done for the transport vehicles to ensure minimal impact due to carbon emissions. To further mediate the carbon emissions, a good greenbelt and plantation plan has been planned & will be carried out in and around the lease area.
- Deployment of one number of Electric Vehicle (EV) after the commencement of mining operations for the transportation of ROM from the mine to the Plant

shall be explored for evaluating its environmental feasibility and it shall be implemented accordingly.

- Progressive Mine closure plan is prepared for the lease period and already included in the approved mine plan report.
- At the end of mines life, the mines will be closed as per the IBM approved Mine Closure Plan, the dumps will be stabilized by plantation, the pit will be covered by fencing & left as a Water reservoir.
- Due to absence of perennial water bodies nearby where in any marine ecosystem is observed, no effect on this front is also expected.
- Hydrological investigation shows that the all-time ground water table in this area is much below the mining level. Hence, ground water intersection is not envisaged for the entire life of the mine and ground water will not be affected due to the quarrying operation. As such there will not be any adverse impact on the ground water regime.
- The mechanical means of hydraulic assisted top covering of metallic sheets will be used for covering of ROM loaded transport vehicles in a phase manner.

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

1. Sub Committee has inspected Veerachipalayam Limestone Mine covering mining lease vide G.O.No.7947 over an extent of 7.92 Hectares in Alathur & Veerachipalayam Villages, Sankari Taluk, Salem District to comprehend the over all mining scenario.
2. G.O.No.7947 over an extent of 7.92 Hectares is one of the 2 Leases being operated in combined manner.
3. As per Amended MMDR Act 2015, validity of the Lease is upto 01.12.2041. Since the validity of lease has been extended under deemed extension as it was informed by the competent authority and it has been noted that
 - i. The District Collector has granted 'No Mining Dues Certificate' for the above lease vide Lr No. ROC.645/2022/ (Mines-B), dated. 10.06.2022.
 - ii. Latest Review of Mining Plan was approved by IBM vide letter no. TN/SLM/LST/ROMP-1532.MDS dt 20.11.2018 as the lease is fit for extension of validity.

- iii. the Commissioner of Geology and Mining has issued the 'No Objection Certificate' to obtain the Environmental Clearance from the MoEF & CC for carrying out the mining operation during the extended lease period vide Rc. No. 7791/MM9/2018, dated. 17.02.2023.
4. There were no mining activities carried out in the Pit.
 5. Fencing and security guard was available
 6. There are few habitations within 300-meter radius area from the mining lease boundary and however, the PP have obtained the approval for carrying out the controlled blasting activities within 100 m from the DGMS.
 7. Permission under regulation 164(1-B) of the Metalliferous Mines Regulation, 1961 for carrying out the Controlled Blasting Operation within the Danger Zone up to and beyond 100m of structure not belonging to the owner at Veerachipalayam Limestone Mine is already obtained by PP.
 8. Based on the condition as stipulated by the DMS, DGMS/Chennai Region while obtaining the permission for carrying out the controlled blasting operations the PP have conducted the field investigation through the trial blasts (copy of the report submitted to the Sub-Committee) for establishing the controlled blasting with suggested blast design parameter & recommended maximum charge per delay and accordingly it was implemented for keeping the effect of ground vibration well within the stipulated limits. Besides, the PP have procured a seismograph for monitoring the blasts which are being conducted within 100 m from the nearest surface structure/buildings to ensure compliance of ground vibration and air overpressure. Accordingly, the blasts beyond 100 m are also being periodically recorded and checked for compliance.
 9. Permission for adopting a system of Deep-hole blasting and/or/ working with the help of heavy machinery under Regulation 106(2)(b) of Metalliferous Mines Regulations, 1961 at Veerachipalayam Limestone Mine is already obtained by PP.
 10. The PP have got Approved Mining Plan from IBM for the Project from time to time without any break with sending the draft copy of the Mining Plan well in advance to the competent authority.
 11. Rain water accumulated in part of bottom bench of Pit noticed.

12. During Violation Period, mechanised systematic mining activities, wet-drilling and controlled blasting were carried out in the Lease.
13. The waste rocks generated during mining was dumped partially within and outside mining lease area. The proponent informed that, the waste dumps outside mining lease was dumped prior to 2013 as per the proposals in the approved mining plans/ schemes. The abandoned part of waste dumps outside mining lease area was found with adequate natural vegetation.
14. No Ground Water-table intersection or seepage was noticed in the existing benches.
15. Dedicated road from Mine Pit to Cement Plant exists for transport of mineral and no transportation through village road (even during the Violation Period). PP informed there were no habitation then along the road since beginning of mine. However habitations developed near to road in few areas in recent past was observed.
16. Green Belt was developed on combined basis along the periphery of Mine Pits including in Safety Barriers, waste dumps, Mineral transport road. PP is also having their own nursery in their Mines office. Its details are given accordingly during the inspection.
17. Garland Drains are provided along the periphery but its maintenance has to be enhanced after the commencement of mining operations.
18. Additional plantation as per the proposals given in EIA shall be developed.
19. Mineral exploration was done by the proponent and existence of Limestone is proved up to 112.50meters BGL.
20. Hydrogeology study done by the Department of Applied Geology, University of Madras, Chennai during 2021 and it was recommended that there will not be any environmental adverse effects on groundwater due to the mining operation of The India Cements Limited in the Veerachipalayam Limestone Mine. The limestone mining in this part does not have any impact on the aquifer present in and around mining areas there will not be any impact on ground water even mining in future. It is strongly recommended from detailed hydrogeological investigations carried out at Veerachipalayam Limestone Mines situated in Veerachipalayam & Alathur village of Sankari Taluk, Salem District, Tamil Nadu

has no Environmental impacts even though the mining of limestone is allowed to continue.

21. As per the direction given in EC consideration meeting held on 25.04.2023, ICL has conducted a need based analysis in the nearby Government schools and the detailed report with cost estimate of requirements identified was presented to the subcommittee during inspection and the same is included in CER budget.
22. Various CSR activities done by ICL in previous years as per CSR Policy of the Company, was reported.
23. An Occupational Health Centre in ICL colony for Employee's as well as for their dependent's medical emergency.
24. The PP have shown the location for the provision of 5 Nos of Recharge pit in the surface of the mines periphery as suggested by the SEAC during the appraisal.
25. The PP have shown the avenue plantation activities are being currently carried out outside the mine lease along the haul roads leading to the villages.
26. Periodical Environment monitoring is conducted through NABL accredited Laboratory and recent copy of the report was reviewed by the Sub Committee (Copy of the report was shown). The Sub-Committee has also noted that the PP has sent the Self-Compliance Reports to the Competent Authority periodically.
27. The PP have prepared the SOP for Drilling, Blasting and other activities carried out in the mines & ensuring the operation based on the SOP (shown to the Sub-Committee). The PP has conducting Pit safety committee meeting once every 15 days among the workers to brief the significance safe environment in the mine.
28. PP have developed a Safety Management System and Environment Management Cell which is headed by the Plant Head. One Environment managed, HOD and other mining managers & Engineers. (Shown to the Sub-Committee)
29. The Valid Occupational Health & Safety Management System (OHSMS) Certificate, Quality Management System (QMS) Certificate, Environmental Management System(EMS) certificates are obtained by the PP.
30. PP have done/practicing Kaizen to develop the systematic, safe, environment friendly mines operation.

31. PP also informed that, so far 51 numbers of wind mills totalling 18.65 megawatts is already installed in various parts of Tamil Nadu (Report shown to the Sub-Committee).
32. As suggested by the Sub-Committee, the PP has also committed for usage/ replacement of electric vehicles as against diesel light vehicles and its implementation in phased manner within the premises for reducing the plant power consumption. Further, the local hired vehicles used for the transportation of ROM to the plant by providing employment opportunities to the local villagers.
33. The PP have informed that the pit / mine water is basically an accumulation of seasonal rain water and it is being used exclusively for the mine related activities such dust control, etc and mine water is being pumped currently outside the lease area are stored temporarily in the nearby small abandoned pits available for surrounding agricultural activities as they are being treated accordingly before usage.
34. The PP have shown the Sub-Committee in surrounding the mine lease on the agricultural activities being carried out in the surrounding villages through well-water irrigation which justifies that the ground water table is not being affected by the mining activities.
35. The PP have also shown the Sub-Committee regarding the greenbelt development activities implemented in the past in inactive dumps and exposed the proposed plantation activities in the berm of existing quarry.
36. Further, the PP have informed that the possible strategies will be explored for converting the existing dynamic dumps into an 'Eco-Park' depends upon the existence of economic worthiness of the waste material (to convert it into a secondary resource) and subject to the legal permission from the competent authorities.

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

VIOLATION

The mine was working since the year 1991 which is prior to EIA Notification 1994. M/s. The India Cements submitted application for EC (under violation) applied to MoEF &


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CC on 04.07.2017. The File Transferred to SEIAA on 02.06.2018. However, the mining operations temporarily stopped from 06.06.2016, this is a case of violation of Environment (Protection) Act, 1986 since mining was done without prior EC.

ICL has operated the mine under G.O.7947 and as per the Supreme Court Judgment dated 02.08.2017, an excess quantity of 44385 Tonnes of Limestone has been produced during the period from 2000-01 to 2016-17, the PP have paid the penalty amount (Rs.69,74,948/-) to the Department of Geology and Mining for operating without EC. ICL has paid Rs.69,74,948/- as penalty for the excess production quantity of 44385 tonnes for the period from 2000-01 to 2016-17 & operating without Environmental Clearance and obtained NOC from the Commissioner of Geology and Mining, Chennai vide Letter RC.No.7790/MM9/2018 dated 04.02.2023.

DAMAGE COST – FINAL EVALUATION

SEAC Sub-committee inspected the project site and the documents of project cost details were verified which are as follows:

The level of damages is assessed by the following criteria:

1. **Low level Ecological damage: Only procedural violation – work/operation at site without obtaining EC.**
2. **Medium level Ecological damage:**
 - a. Procedural violation started the construction at site or operation without obtaining EC.
 - b. infrastructural violation such as deviation from awarded EC, CTO & Mining Plan approvals.
 - c. Non operation of the project.
3. **High level Ecological damage:**
 - a. Procedural violation (started the construction or operation at site without obtaining EC).
 - b. infrastructural violation such as deviation from awarded EC, CTO & Mining Plan approvals.
 - c. Under Operation (occupied) without Statutory Approvals.

Thus, the Proposal falls in **Low Level Ecological Damage**.

The damage assessment quantification was carried out and the proponent has earmarked the remediation plan, natural and community resource augmentation plan

using EIA Model which was validated by the SEAC Sub-Committee by applying both the SEAC-TN Model and CPCB Guidelines.

CONCLUSIONS:

As the Proposal falls in Low Level Ecological Damage and EMP measures were in place during the Violation Period, the Sub-Committee is of the opinion that the higher Environmental Compensation value has been arrived based on the CPCB Guidelines is Rs.20,10,000/- which is higher than the other Environmental Compensation estimated values of Rs.5,20,000/- based on the revised EIA Model (as proposed by the Proponent) and Rs. 7,50,400/- arrived on SEAC-TN model. Therefore, the value of Rs. 20,10,000/- shall be compensated for Ecological Remediation, Natural Resource Augmentation and Community Resource Augmentation Plans in accordance with the MoEF & CC Guidelines accordingly.

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	10,05,000
2	Natural Resource Augmentation Plan	4,02,000
3	Community Resource Augmentation Plan	6,03,000
Grand Total		20,10,000

A) Environment Remediation Plan, Cost and Time Schedule

Sl.No.	Environmental Component	Remediation Plan / Activity Description	Budgetary Provision Rs. Lakhs		
			I Year	II Year	Total
1	Air Quality & Ecology	Plantation & Avenue Plantation	2.00	2.00	4.00
2	Air Quality & Ecology	Plantation on old abandoned dumps and dump slope stabilization	2.50	2.50	5.00
3	Water & Land Environment	Construction of surface runoff management structures along old dumps	0.50	0.55	1.05
Total			5.00	5.05	10.05

B) Natural and Community Resource Augmentation Plan (as Proposed)

Sl.No.	Remediation Plan / Activity Description	Budgetary Provision Rs. Lakhs		
		I Year	II Year	Total
1	Solar energy lights in Mines office	0.75	0.75	1.50
2	Desilting and cleaning of odai in Alathur Village & Roof top rainwater harvesting in nearby Temple	0.75	0.77	1.52
3	Provision of 5 Nos of Recharge pit in the surface of the mines periphery	1.00	1.00	2.00
Total		1.60	1.60	5.02

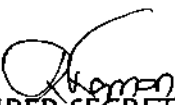
C) Community Resource Augmentation Plan

Sl.No.	Remediation Plan / Activity Description	Budgetary Provision Rs. Lakhs		
		I Year	II Year	Total
1	Maintenance of toilets for nearby village temple under Swacch Bharath Mission	0.50	0.53	1.03
2	Providing books for school library	1.00	1.00	2.00
3.	Solar lighting in the school.	1.00	1.00	2.00
Total		0.50	0.30	5.03

As suggested by the SEAC in the EC meeting held on 25.04.2023, proponent has conducted a need survey in the nearby Government schools located in core zone of the mine lease. From the study it is observed that in all the schools, toilets are available with water provision and permanent cleaning staff. Based on the requirements and existing conditions, the Sub-Committee had insisted on the revised CER budget as given below:

Revised CER activities for the Past Mining Operation

S.No	Activities	Beneficiaries	Cost (Rs.)
1	Providing school uniforms and books to school children	Govt School, Veerachipalayam	20,000
2	Sponsoring education of poor students through scholarships	Govt School, Veerachipalayam	25,000


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3	Providing colour coded dustbins to school to promote recycling for sustainable environment	Govt School, Veerachipalayam	10,000
4	Providing computers to the nearby school	Govt School, Veerachipalayam	50,000
6	Conducting free medical health camps and providing medical aid by means of distributing glasses, hearing aids to senior citizens, etc.	Sankari, Chinnagoundanur, Morur, Veerachipalayam, Alathur & Padaiveedu	75,000
7	Drinking water provision at ICL bus stop during summer for the children & public.	--	20,000
Total			2,00,000

Revised CER activities for the Proposed Mining Operation

The Project cost is Rs. 261 lakhs. CER Budget is arrived as 2% of the Project Cost i.e. Rs. 5,22,000/- and hence the CER of Rs. 5,00,000/-. However, as suggested by the SEAC in the EC meeting held on 25.04.2023, proponent has revised the budget for Rs. 10,00,000/= as CER to cater the needs in the nearby Government schools for the proposed mining operation.

S.No	Activities	Beneficiaries	Cost (Rs.in Lakhs)
1	Tree Plantation	Govt Primary School, Alathur	0.50
2	Toilet Renovation & Maintenance		2.50
3	10 mtr height metal water tank stand for RO system		2.00
4	Class rooms repairing, tiles work		3.50
5	Provision of computer, desk, chair, fan etc		1.50
Total			10.00

STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 20,10,000/- must be given to TNPCB for successful implementation of the Schemes in a period of two years. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. CER fund of Rs.2,00,000/- has to be spent by M/s. India Cements Limited directly and receipt has to be produced to SEAC/SEIAA-TN.


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3. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

RECOMMENDATIONS

1. The SEAC Sub-Committee observed that the Mining of Limestone in an extent of 7.92 Ha for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the subcommittee opines the grant of Environmental Clearance for Mining of Limestone in an extent of 7.92 Ha (G.O. No. 7947) of M/s. India Cements Limited may be recommended for the Annual Peak Production Capacity of not exceeding 51600 tonnes of ROM and 34892 tonnes of Waste for the life of the project subject to the following conditions in addition to the normal conditions:
2. The amount prescribed for Ecological remediation (Rs. 10.05 Lakhs), natural resource augmentation (Rs. 4.02 lakhs) & community resource augmentation (Rs. 6.03 Lakhs), totaling Rs. 20.10 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 20.10 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
3. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
4. The amount committed by the Project proponent for CER activities for the violation period (Rs. 2.00 lakhs) shall be remitted in the form of DD to the beneficiary for the activities as committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN before grant of the EC.
5. Further, the PP shall allocate the budget of Rs. 10,00,000/= as CER activities to cater the needs in the nearby Government schools for the proposed mining operations and it shall be spent within a period of one year after the execution of lease deed. A copy of receipt from the beneficiary shall be submitted to the concerned DEE/TNPCB and the SEIAA.

6. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
7. The company shall produce the 'No Dues Certificate' obtained from the State Government i.e. Department of Geology & Mining to the SEIAA before grant of EC.
8. The PP shall send the 'Notice of Opening' to the Director of Mines Safety/Regional Inspector of Mines, DGMS/Chennai Region within 30 days after the execution of the lease deed.
9. The proposed action plan for green belt development shall be maintained in the dumps and haul roads of the overall project area.
10. As discussed with the Sub-Committee during the inspection, Bio remediation using microorganisms shall be carried out at the end of the mining to restore the soil environment to enable carbon sequestration.
11. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
12. The PP shall carry out the scientific studies to assess the slope stability of the quarry wall benches and the stability of the waste dumps with prescribing the necessary stabilization measures within one year of the commencement of the mining operations, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Nagpur, NIRM-Bangaluru, IIT Madras – Division of Geotechnical Engineering, 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.
13. Within one year from the commencement of mining operations, the PP shall carry out the scientific studies comprising all the operating leases located in a

cluster situation, on 'Optimisation of Controlled Blast Techniques for reducing the cumulative impact of blast-induced ground & air vibrations and flyrock caused due to the blasting operations' using of both NONEL and Electronic initiation systems to evaluate its performance for the implementation, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining and Fuel Research / Nagpur, NIRM-Bangaluru, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.

14. The PP shall carry out the comprehensive hydrogeological studies within a period of two years from the commencement of the mining operations to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving anyone of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM-Bangaluru, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras - Centre for Environmental Sciences (CES), Chennai. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
17. 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 for the life of the project.


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18. 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.

The Committee carefully examined the recommendations of the Sub-Committee and decided to accept them and recommend grant of EC subject to the conditions prescribed by the Sub-Committee under violation category.

Agenda No: 387- TA 2

(File No: 6734/2019)

Existing Karumapurathanur Limestone Mine (G.O.101) with an extent of 38.73 Ha, production capacity of 0.20 MTPA at S.F.No. 112/2A(P), 138(P), 205(P), 208/2, 209/1, 209/2, 210/2, 210/3, 210/4, 211/1, 211/2, 211/3, 211/4, 213/1, 213/2, 213/3, 214/1, 214/2, 214/3, 225/2, 227/2, 234(P), 236, 241/1, 241/2, 241/3 & 242/3, Chinnagoundanur Village, Sankari Taluk, Salem District, Tamil Nadu by M/s. The India Cements Limited – for Environmental Clearance under violation category.

(SIA/TN/MIN/401944/2022, Dt. 30/09/2022)

The proposal was earlier placed in this 370th SEAC meeting held on 25.04.2023. The details of the project furnished by the proponent are available on the web portal (parivesh.nic.in). The project proponent gave a detailed presentation.

The SEAC noted the following:

1. The Project Proponent, M/s. The India Cements Limited has applied for Environmental Clearance under violation category for the Existing Karumapurathanur Limestone Mine (G.O.101) with an extent of 38.73 Ha, production capacity of 0.20 MTPA at S.F.No. 112/2A(P), 138(P), 205(P), 208/2, 209/1, 209/2, 210/2, 210/3, 210/4, 211/1, 211/2, 211/3, 211/4, 213/1, 213/2, 213/3, 214/1, 214/2, 214/3, 225/2, 227/2, 234(P), 236, 241/1, 241/2, 241/3 & 242/3, Chinnagoundanur Village, Sankari Taluk, Salem District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category “B1” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006.
3. Category: The proposed project falls under Category ‘B’ [Sl. No 1(a) of Schedule: Mining of Minerals] of the list of project or activities requiring prior Environmental


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Clearance from MoEF&CC Notification dated 14th September, 2006 in connection with Environment (Protection) Rules 1986.

3. ToR issued under violation category by SEIAA, Tamil Nadu vide Lr No.SEIAA-TN/F.No.6734/SEAC/ TOR- 633/2019 Dated: 12.07.2019.
4. The Project is not situated within the one kilometre or extended buffer zone (ESZ), as the case may be, of any wildlife sanctuary or national park or elephant corridor (or) tiger reserve as per the DFO letter, dated.18.11.2022.
5. Chronology of events of the project details:
 - Mining Lease indicating G.O.593 over an extent of 38.73.0 Ha in S.F.No. 112/2A,2B, 138 (PT), 205 (PT), 208/2, 209/1,2, 210/2,3,4, 211/1,2,3,4, 213/1,2,3, 214/1,2,3, 225/2, 227/2, 234/1 (PT), 236, 241/1,2,3, 242/3 located in Chinnagoundanur village, Sankari Taluk of Salem District, Tamil Nadu, situated at a distance of 40 km South West from Salem granted by Department of Geology & Mining, Govt of Tamil Nadu to M/s. The India Cements Limited, Chennai on 06.12.1996. The mining operation in GO 101 lease area is carried out from 1996. Originally the lease was granted on 27.05.1976 in the name of G.O. No.593.
 - Total lease area is a non-forest land, patta land.
 - Keeping in view of expiry of the lease period the lessee was applied for 1st Renewal of Mining Lease (RML) over the same lease area of 38.73.0 Ha with G.O. No. 101 and it was issued on 05.12.1996 for a period of 20 years and was valid up to 04.12.2016.
 - The Modified Mining plan for the period from 2017-18 to 2020-21 is submitted and approved by Indian Bureau of Mines vide letter No – TN/SLM/LST/MS-1620.MDS dt. 17.12.2020.
 - The Limestone reserves of the mining lease area estimated based on the detailed exploration carried out as per UNFC guidelines. The deposit has been proved up to 144 RL. The reserves and resources of the area was estimated based on geological cross section method and classified based on the UNFC guidelines considering the various factors covered under Geological, Feasibility and Economic axes. The reserve was re-estimated and re-classified as per UNFC norms based on the exploration data. The reserve was re-estimated and re-

classified as per UNFC norms based on the exploration data collected in the year 1983-84, 1996-97 and 2015-16. The proved limestone reserves (111 category) in the 4 blocks as on 01.04.2017 is arrived at 1.85 Million Tonnes.

- About 5.97 million tonnes of waste comprising 2.77 million tonnes of interstitial waste and 3.20 million tonnes of developmental / SB waste is to be generated for extracting balance 1.85 million tonnes of limestone from this lease area. At the rate of production of 0.030 million Tonnes per year and after the scheme period, the reserves will last for 10 years. The total anticipated life of the mine will be 10 years ie. up to 2030.
- Mining plan prepared for lease period upto year 2030. The Scheme of Mining is 2021-22 to 2025-26 approved by Regional Controller of Mines, IBM on 17.12.2020 under Rule 16 of MCDR, 2016.
- After satisfactorily complied the terms and conditions imposed in the approval letter, the officials from Indian Bureau of Mines was inspected the mine and certificate of PMCP for the approved area over 38.73.0 Ha under Rule 16 of MCR, 1960 has been issued by the Regional Controller, Indian Bureau of Mines, Chennai.
- During the pendency of the 1st RML application, the Government of India on 12.01.2015 announced promulgation of the ordinance for amendment in the Mines and Minerals (Development and Regulation) (MMDR) Act, 1957 and introduced new MMDR Amendment Act, 2015. As per the new amendment any lease granted before the commencement MMDR Act, 2015, shall be extended: (i) up to March 31, 2030 for minerals used for captive purpose (specific end-use) and up to March 31, 2020 for the minerals used for other than captive purpose, or (ii) till the completion of renewal period, or (iii) for a period of 50 years from the date of grant of such lease, whichever is later. Accordingly, the lease of limestone Mine governed by G.O.101 over an extent of 38.73.0 Ha is eligible for extension upto 50 years w.e.f. 05.12.1996 to 31.03.2030 under section 8A(3) of the MMDR Amendment Act, 2015.

6. Details of violation

- This project falls under category „B” since the mining lease area is less than 50 Ha. First lease renewal was valid up to 04.12.2016. Since

this is a working mine since year 1968, presuming EC is to be obtained at the stage of lease renewal only, application for obtaining EC was initially submitted to SEIAA Tamil Nadu in 03.12.2014 but got returned on 15.05.2017 since this is a violation project. Now, as per MoEF & CC notification dated 14.03.2017, all violation cases will be considered at MoEF & CC , New Delhi and Form – I, TOR (standard & specific) and feasibility report has to be submitted to MoEF & CC, Delhi for prescribing TOR and according EC after submission of final EIA/EMP report to them.

- Further, in pursuant to order/judgement dated 02.08.2017 in W.P.(C). No.114/2014 (Common Cause Vs Union of India & Others), in page no. 97 states that
 - In the event of any overlap that is illegal or unlawful mining without FC or without an EC or without both would attract only 100% compensation and not 200% compensation”
 - Hence the District Collector, Salem had issued demand notice to the lessee for payment of Rs.16,53,786/- as the India Cements Limited Sankari has been instructed to pay 100% compensation on price of mineral quantity of 44,385 tonnes treated as excess quantity lifted with exceeding the base year 1993-94 for having operated the mine without prior environmental clearance from the SEIAA, Tamil Nadu vide Proceedings No: Roc.45/2018-LST-1/Mines-A, dated. 10.12.2018.
 - Accordingly, the PP have remitted Rs.69,74,948/- on 07.01.2019 to the DMG and hence NOC is granted by the Commissioner of Geology and Mining vide Proceedings No. RC. No. 7791/MM9/2018, dated. 17.02.2023 to obtain Environmental Clearance from SEIAA.
 - The PP has submitted an affidavit, in compliance of the MoEF&CC, Government of India, O.M. No. F: 3-50/2017-IA.III (Pt.), dated 30.05.2018 on the judgment of Hon'ble Supreme Court, dated the 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in the

matter of Common Cause versus Union of India along with TOR application.

7. The PP have applied for EC (under Violation Category) to MOEF & CC on 04.07.2017. However, the file was transferred to the SEIAA, Tamil nadu on 02.06.2018.
8. Accordingly, the SEIAA-TN have granted the ToR under Violation on 12.07.2019 and the Public Hearing was conducted 30.07.2022 and the ToR extension was granted vide SEIAA-TN/F.No.6734/SEAC/ToR-633/Extn dt. 26.09.2022.

Based on the presentation and documents furnished by the project proponent during the 370th SEAC meeting held on 25.04.2023, the SEAC constituted a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings besides assessing the ecological damage assessment in accordance with CPCB Guidelines, and the remediation plan, natural resource augmentation and community resource augmentation submitted by the PP. After hearing from the Sub-Committee, the SEAC will decide the future course of action on granting the EC.

Accordingly, the Sub-committee comprises of Dr. G. ANNE JOSEPHINE SELVAM, and Dr. P. BALAMADESWARAN, Members, SEAC-TN for the evaluation of the site and to assess the ecological damage have inspected the quarry & other existing environmental settings on 02.06.2023.

Background of the Mine

The proponent is having 2 mining leases namely G.O.No.101 with an extent of 38.73Ha and G.O.88 with an extent of 54.18Ha collectively called Karumapurathanur Limestone Mines.

1. GO.No.101 dated 09.10.2003 over an extent of 38.73 Ha of Patta & Government Poromboke land is in operation since year 1976. Production from this lease area is stopped from December 2016.
2. G.O.(Ms) No.88 (New) dated 20.08.2018 (Formerly G.O.Ms.No.77) over an area of 54.18 Ha is in operation since year 1963.

Both the above mining leases are contiguous and adjacent to each other. The mining operations are planned on a contiguous working basis.


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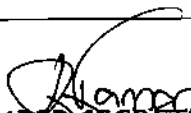

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The proponent has initiated action towards obtaining environmental clearance for its Karumapurathanur Limestone Mine (GO.101) over an extent of 38.73 Ha in Chinnagoundanur Village, Sankari Taluk, Salem District, Tamil Nadu.

The commencement of mining in this Lease was in the Year 1976 and the mining operations temporarily stopped from December 2016 as per the direction from MOEF&CC for want of EC.

The balance Mineable Limestone Reserves as on 01.04.2023 is 18.5LakhTonnes of usable Limestone. Opencast Mechanized Conventional Method of Drilling & Blasting is adopted. The proposed maximum production from this Lease is 2.0 Lakh Tonnes per annum of usable Limestone. Waste Dump is proposed within the mining lease area.

Sl. No	Sequence of events	Date
1	EC application filed at SEIAA, Chennai	03.12.2014
2	Mining operations temporarily stopped as per MOEF&CC direction during	Dec' 2016
3	The application is returned as it is a violation project	15.05.2017
4	Online application submitted to MoEF&CC	20.06.2017
5	File transferred from MoEF&CC to SEIAA-TN	02.06.2018
Sl. No	Sequence of events	Date
6	Violation Penalty Demand raised by District Collector, Salem for an amount of Rs.16.53 Lakhs	10.12.2018
7	Penalty amount Rs.16.53 Lakhs remitted	07.01.2019
8	ToR granted by SEIAA	12.07.2019
9	Public Hearing Conducted	30.07.2022
10	ToR Extension granted	26.09.2022
11	Final EIA/EMP submitted	30.09.2022
12	Revised Demand Raised by District Collector, Salem for additional EC penalty amount of Rs.33.46 Lakhs	06.02.2023
13	Penalty amount Rs. 33.46 Lakhs remitted	14.02.2023
14	NOC from Commissioner of Geology & Mining obtained	17.02.2023
15	Show cause notice from TNPCB under Section 19 EPA, 1986	31.03.2023


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16	Reply to Show cause notice	13.04.2023
17	Final EC Meeting by SEAC	25.04.2023
18	Recommended for Site Visit by Sub Committee	25.04.2023

Particulars	Details
Name of Project	Karumapurathanur Limestone Mine (G.O.Ms.No101)
Project Proponent	M/s. The India Cements Limited
Location of mine	Chinnagoundanur Village SF Nos.112/2A(P), etc
Category of Project	B1
Proposed Capacity per Annum	2.0 LTPA of usable Limestone
Mine Lease Area	38.73 Ha
Lease Period	7 years (up to 31.03.2030)
Total Working Day/Year	300 days
Total Number of workers employed	28
Total Water Requirement & Source	50 KLD & Source – Rain water collected in Mine pit
Latitude & Longitude	Latitude : 11°29'16.40"N to 11°28'22.04"N Longitude: 77°48'27.50"E to 77°49'5.12"E
TopoSheet number	58 E/15
Eco Sensitivity	Suriyamalai Reserve Forest is located 0.94 Km, Chinnagoundanur Reserve Forest is located 2.06 Km, Arasiramani Reserved Forest is located 3.94 Km, Perumalmalai Reserved Forest is located 5.44 Km, Manjukalpatti Reserved Forest is located 5.56 Km, Vettukattupatti Reserved Forest is located 8.10 Km, .There are no other Eco Sensitive Areas like National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Sites, Tiger/Elephant

Particulars	Details
	Reserves, Reserved Forests, etc. (existing as well as proposed) within 10 km from the Lease.
Type of Land	Own Patta Land (38.345 Ha) and Government Poromboke Land (0.385 Ha)
Method of Mining	Opencast Mechanized Conventional Method with Drilling & Blasting is adopted
Bench parameters	Height 10 meters & Width more than 10 meters
Present Depth of Mining	53 m BGL (maximum depth)
Ultimate Dimension of the Pit	270 (L) x 250 (W) x 100 m (Depth) for Main block, 298 (L) x 55 (W) x 20 m (Depth) for block-I, 400 (L) x 65 (W) x 30 m (Depth) for block-II & 261 (L) x 109 (W) x 30 m (Depth) for block-III.
Nearest railway station	Sankaridurg - 6.5Kms (Aerial)
Nearest Highway	Salem to Coimbatore Highway (NH-47) - 830m - SE
Nearest air port	Coimbatore International Airport - 95 km
Seismic zone	Zone-II (Least Active)
Cost of the project	Rs.95 Lakhs

Sl. No.	Mining Plan/Scheme	Year	Approval vide IBM Letter Reference
1	Mining Plan	1990	TN/SLM/MP/LST317/MDS Dt: 09.08.1990
2	Mining Plan	1996	TN/SLM/MP/LST/827/MDS Dt: 03.01.1996
3	Mining Plan	2002	TN/SLM/MP/LST/1378-SZ Dt: 08.05.2002
4	Scheme of Mining	2007	TN/SLM/LST/MS-437-SZ Dt: 16.03.2007
5	Scheme of Mining	2013	TN/SLM/LST/MS-703-SZ -029Dt: 03/01/2013
6	Mining Plan	2016	TN/SLM/MP/LST/1967.MDS Dt: 18/06/2016
7	Modified Mining Plan	2017	TN/SLM/MP/LST-2029-MDS Dt: 04/07/2017
8	Review of Mining Plan	2020	TN/SLM/LST/ROMP-1620.MDS dated 17.12.2020

Sl. No.	Particulars	Details
1	Method of mining	Opencast mechanized mining with drilling blasting, hydraulic shovel, Tipper etc.
2	Geological reserve	4.07 Million Tonnes
3	Mineable reserve available- As on 01.04.2022	1.85 Million Tonnes
4	Proposed production per Annum	2,00,000 TPA
5	Elevation range of the mine site	Surface RL level in blocks vary from 256RL in Block I to 266RL in Blocks II & III. Main block is already mines upto 206RL.
6	Bench height	10 m
7	Bench width	More than or equal bench height; as per the permissions granted from Directorate of Mines Safety
8	Bench slope	10 – 15° to vertical
9	Proposed Depth of mining	100 m BGL (ultimate depth)
10	Lease Period	up to 31.03.2030

As per the Review of Mining Plan approved by Indian Bureau of Mines vide letter no. TN/SLM/LST/ROMP-1620.MDS dated 17.12.2020, the proposed production is as follows.

Year	Total Tentative Excavation (T)	Total Tentative Excavation (cum)	Top Soil (cum)	OB/SB/IB (T)	ROM (T)		Total Waste (T)	Total Waste (cum)	ROM/Waste Ratio
					Ore	Interstitial Reject			
(1)	(2)	(3)	(4)	(5)	(6)	(7 = 4+6))	(8)		

2021-22	193975	77590	-	61750	52890	79335	141085	56434	01:02. 7
2022-23	730159	292064	-	231010	199660	299489	53049 9	21220 0	01:02. 6
2023-24	747250	298900	-	247750	199800	299700	54745 0	21898 0	01:02. 7
2024-25	732285	292914	-	233035	199700	299550	53258 5	21303 4	01:02. 7
2025-26	847225	338890	-	347750	199790	299685	64743 5	25897 4	01:03. 2
Total	325089 4	1300358		1121295	851840	1277759	23990 54	95962 2	

Projected Limestone Production Details up to the Lease Period

Year	Limestone Production As per Maximum Annual quantity (Tons)
2026-27	200000
2027-28	200000
2028-29	200000
2029-30	200000

The mine was working since the year 1976 which is prior to EIA Notification 1994. M/s. The India Cements initiated action for obtaining Environmental Clearance from SEIAA on 03.12.2014. Initially Form – 1, TOR and feasibility report was submitted to SEIAA, Chennai. The application is returned as it is a violation project & instructed to apply to MoEF&CC for Environmental Clearance stating the violations as per SEIAA letter dt 15.05.2017. The mining operations temporarily stopped from December 2016, this is a case of violation of Environment (Protection) Act, 1986 since mining was done without prior EC.

Sl. No.	Statute Requirement	Yes / No	Violation Status	Remarks
1	Valid EC	X	Mine was working since the year 1976 which is prior to EIA Notification 1994.	Prior EC not obtained

Sl. No.	Statute Requirement	Yes / No	Violation Status	Remarks
2	Valid CTO	√	Common CTO were obtained vide Order No.9128 (Water Act) and 6450 (Air Act) dated 18.06.1992. Also CTO was obtained for this lease from TNPCB upto 30.06.2017	There is No Violation in this regard.
3	Valid Mining Plans/Schemes	√	IBM has accorded the periodic Approvals for Mining Plans/Schemes of the Mine. Latest Review of Mining Plan was approved by IBM vide letter no. TN/SLM/LST/ROMP-1620.MDS dated 17.12.2020. Present ROMP is valid till 31.03.2026.	There is No Violation in this regard.
4	Forest Clearance	-	No Forest Land involved.	Not Applicable
5	Transport Permits	√	ICL has obtained the required Transport Permits.	There is No Violation in this regard.
6	Any other Violation	-	Nil	Nil

As per the Review of Mining Plan approved, the excavated area shall be around 18.83 Ha at the end of mining operation. The mined out pit area will be converted rain water harvesting pit. About 8.53Ha will be under Green Belt, pertaining to this particular Lease.

EMP cost proposed by the proponent is given below

Sl. No	Activity	Capital cost (Rs. in lakhs)	Recurring Cost / Annum (Rs. in lakhs)
1	Mobile Water Sprinkling	40	3
2	Monitoring of Environmental quality	--	1
3	Installation of Piezometer	2	--
4	Green belt and afforestation	--	0.75
5	Occupational Health & Hygiene	--	3
6	Construction and Maintenance of surface runoff management structures	--	0.5
7	Provision of Tyre Washing facility	0.3	-

8	Provision of EC condition display board in the mine entrance	0.3	-
9	Provision of CCTV cameras	0.5	-
10	Controlled Blasting	-	50
11	Remuneration for statutory persons	-	72
12	Slope stability study	10	-
	Total	53.1	130.25

The recurring cost of the EMP measures will be continued till the lease period is given below:.

Yearly recurring cost throughout the lease period								
Year	23-24	24-25	25-26	26-27	27-28	28-29	29-30	Total
Recurring cost @ 5% yearly escalation (Rs in lakhs)	130.25	136.76	143.6	150.78	158.32	166.24	174.55	1060.5

Ecological damage assessment during the violation period was done by PP considering the following factors:

- Systematic mining with proper benching is in place.
- DGMS permission under rule 106 (2)(b) for using heavy earth moving machinery and bench pattern was obtained.
- Adequate statutory manpower like qualified Mines managers, blasters, mine mate were engaged.
- Mitigative measures like effective watersprinkling, wet drilling, proper drainage arrangements, plantation, OHS measures were in place & no adverse impact on environment was caused during violation period. Drilling was carried out by using advanced drilling machine which has a Water Mist System with 120 liter tank capacity, stability details with water injection system 15 degrees. Photos Enclosure-1
- Controlled blasting with proven bench parameters using millisecond delay detonators was carried out.
- No waste dumping outside lease area after IBM circular dated 10.01.2013 was made.
- Material transportation was through dedicated transport road of ICL only. There were no habitation then along the road since beginning of mine. However habitations developed near to road in few areas in recent past.


- Presence of ground water in the adjacent observation well of ICL and bore well throughout the year indicate no hydraulic connectivity in between and it can be concluded no intersection of ground water table.
- Only Rain water collected in the mine sump was used for dust suppression and plantation.
- Mining activity in these leases were stopped much before enactment of Year December 2016 violation procedure of MoEF& CC.
- The lime stone requirement of the ICL Sankari cement plant was met from different captive mines of ICL. Though there is variation in production from a lease in different year, the overall annual production achievement was to meet the same need and as such no adverse increase in pollution load during violation period in the region envisaged.
- LULC study derived from the remote sensing satellite data for the year 2000, showed that 57.36% of the buffer zone was fallow and crop land. Land use map derived from the remote sensing satellite data for the year 2021, showed that there was no major change in land use categories as fallow and crop land covered 54.24% of the buffer zone. This variation observed may also be attributed to the increase in scrub land from 14.94% during year 2000 to 18.62% in the year 2021. Hence, no major adverse impact on the land use due to mining operations during the violation period is observed
- NDVI Analysis to identify any changes in vegetation cover prior to the violation period and presently, to see if the mining activities impacted the ecology of the area show that that in the Mine lease area, there is no major change with respect to vegetation cover. However, in the 2Km buffer zone, there seems to be an improve with regards to vegetation as the values show an increase of the NDVI Index maximum value from 0.283 in year 2000 to 0.433 in the year 2021 respectively, indicating the positive change with regards to vegetation cover.

Apart from the above, scientific studies carried out in the mining area is given below

Scientific Studies Carried out & Observation

Sl. No.	Nature of Study	Outcomes
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1	Systematic mineral exploration carried out in the mine during 1983-84, 1996-97 & 2015-16 for proving the Limestone occurrence, geometry & grade of the deposit.	Entire mining lease area has been explored and proved as per the guidelines of Ministry of Mines, Govt. of India and Geological resources and mineable reserves has been estimated. The exploration details incorporated in the mining plan / Review of Mining Plan were approved by IBM and carried out the work in accordance with the same during mining.
2	Hydrogeology study carried out by the Department of Applied Geology, University of Madras, Chennai during 2021.	The study observed that, the existing hydro geological condition in the mines area indicates that there is no hostile environmental impact on the groundwater / surface water regime.
3.	Blast induced ground vibration & Fly rock Control study by National Institute of Rock Mechanics (NIRM) during 2007.	They have recommended maximum charge/delay & the Controlled Blasting Design parameters and Techniques for the keeping the blast-induced ground vibration & air-overpressure (noise) within the permissible limits and controlling the fly rock production.

Besides, the competent authorities/officials of regulatory agencies – Director/Dy. Director of Mines Safety, DGMS & Regional Controller of Mines, IBM and the Dy. Director / Asst. Director of Mines belonging to the State Geology & Mining, District Forest Officials, the DEE/TNPCB have regularly inspecting our mines and pointing out the contraventions if any and gave suggestions to improve the operation, we have implemented and follows the direction, operating our mines as per the DGMS, IBM guidelines.

The proponent also mentioned that, the mine was awarded with various prizes in systematic mining, mineral conservation and safety measures taken in Mine Environment and Mineral Conservation Week celebrations conducted under the guidance of IBM and Mines Safety Week Celebrations conducted under the guidance of DGMS.


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Besides, the mine was awarded with 4-Star rating by the Indian bureau of Mines, Ministry of Mines, Govt of India for Environmental Sustainability in the mines.

Further, the PP also informed the following details during the interaction with the sub-committee:

- Geologically the area in and around the lease area contains metamorphosed crystalline limestone, associated with calc gneiss and quartzite of Archaean. As such there no major vegetation or agricultural activities are observed.
- Due to poor soil condition and non-availability of perineal water source, no major agricultural activity is carried out in and around the lease area. Only patches of plantation are observed in few places in the monsoon season based on water availability.
- It will be ensured that mining will be carried out adhering to all the statutory rules and regulations, appointing statutory personnel's like qualified mines manager, blaster, informing DGMS before commencement of mining operations and maintaining the environmental quality within the prescribed standards by effective implementation of various mitigative measures.
- As such release of Greenhouse gases (GHG), rise in temperature, affecting livelihood of the local people , loss of Agriculture, Forestry and Traditional Practices is not envisaged. Such a limited scope will not induce any climatic change leading to droughts, floods etc.
- No adverse impact on the surrounding environment is envisaged from this project since the number of equipment's to be used to achieve this production is less and the magnitude of operation is of low level.
- Certified vehicles with low carbon emissions will only be used. These equipment's will be properly and regularly maintained. Besides, regular vehicular emission tests will be done for the transport vehicles to ensure minimal impact due to carbon emissions. To further mediate the carbon emissions, a good greenbelt and plantation plan has been planned & will be carried out in and around the lease area.
- Progressive Mine closure plan plan is prepared for the lease period and already included in the approved mine plan report.


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- At the end of mines life, the mines will be closed as per the IBM approved Mine Closure Plan, the dumps will be stabilized by plantation, the pit will be covered by fencing & left as a Water reservoir.
- Due to absence of perennial water bodies nearby where in any marine ecosystem is observed, no effect on this front is also expected.
- Hydrological investigation shows that the all time ground water table in this area is much below the mining level. Hence, ground water intersection in not envisaged for the entire life of the mine and ground water will not be affected due to the quarrying operation. As such there will not be any adverse impact on the ground water regime.
- The mechanical means of hydraulic assisted top covering of metallic sheets will be used for covering of ROM loaded transport vehicles in a phase manner.

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

1. Sub Committee has inspected Karumapurathanur Limestone Mine covering mining lease vide G.O.Ms.No.101 over an extent of 38.73 Hectares in Chinnagoundanur Village, SankariTaluk, Salem District to understand the over all mining scenario in the Region.
2. G.O.Ms.No.101 over an extent of 38.73 Hectares is one of the two Leases being operated in combined manner.
3. As per Amended MMDR Act 2015, validity of the Lease is upto 31.03.2030. Since the validity of lease has been extended under deemed extension as it was informed by the competent authority.
4. There were no mining activities carried out in the Pit.
5. Fencing and security guard was available.
6. There are habitation within 300 meter radius area from the mining lease boundary, the PP have approval for Drilling & Blasting with 100m.
7. Permission under regulation 164(1-B) of the Metalliferous Mines Regulation, 1961 for carrying out Controlled Blasting with in the Danger Zone up to and beyond 100m of structure not belonging to the owner at Karumapurathanur Limestone Mine is already obtained by PP.



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8. Based on the condition as stipulated by the DMS, DGMS/Chennai Region while obtaining the permission for carrying out the controlled blasting operations the PP have conducted the field investigation through the trial blasts (report submitted to the Sub-Committee) for establishing the controlled blasting with suggested blast design parameter & recommended maximum charge per delay and accordingly it was implemented for keeping the effect of ground vibration well within the stipulated limits. Besides, the PP have procured a seismograph for monitoring the blasts which are being conducted within 100 m from the nearest surface structure/buildings to ensure compliance of ground vibration and air overpressure. Accordingly, the blasts beyond 100 m are also being periodically recorded and checked for compliance. (Copy of the Vibration Monitoring report –submitted)
9. Permission for adopting a system of Deep-hole blasting and/or/ working with the help of heavy machinery under Regulation 106(2)(b) of Metalliferrous Mines Regulations, 1961 at Karumapurathanur Limestone Mine is already obtained by PP.
10. The PP have continuously got Approved Mining Plan from IBM for the Project.
11. Rain water accumulated in part of bottom bench of Main Block noticed.
12. During Violation Period, mechanised systematic mining activities with drilling and controlled blasting were carried out in the Lease.
13. The waste rocks generated during mining was dumped partially within and outside mining lease area. The proponent informed that, the waste dumps outside mining lease was dumped prior to 2013 as per the proposals in the approved mining plans/ schemes. The abandoned part of waste dumps outside mining lease area was found with natural vegetation.
14. No Ground Water-table intersection or seepage was noticed in the existing benches.
15. Dedicated road from Mine Pit to Cement Plant exists for transport of mineral. PP informed there were no habitation then along the road since beginning of mine. However habitations developed near to road in few areas in recent past was observed.

16. Green Belt was developed on combined basis along the periphery of Mine Pits including in Safety Barriers, waste dumps, Mineral transport road. PP is also having their own nursery in their Mines office.
17. Garland Drains are provided along the periphery but its maintenance has to be enhanced after the commencement of mining operations.
18. Additional plantation as per the proposals given in EIA shall be developed.
19. Mineral exploration was done by the proponent and existence of Limestone is proved up to 100 meters BGL.
20. Hydrogeology study carried out by the Department of Applied Geology, University of Madras, Chennai during 2021 and it was recommended that there will not be any environmental adverse effects on groundwater due to the mining operation of The India Cements Limited in the Karumapurathanur Limestone Mine. The limestone mining in this part does not have any impact on the aquifer present in and around mining areas there will not be any impact on ground water even mining in future. It is strongly recommended from detailed hydrogeological investigations carried out at Karumapurathanur Limestone Mines situated in Chinnagoundanur village of Sankari Taluk, Salem District, Tamil Nadu has no Environmental impacts even though the mining of limestone is allowed to continue.
21. As per the direction given in EC consideration meeting held on 25.04.2023, ICL has conducted a need based analysis in the nearby Government schools and the detailed report with cost estimate of requirements identified was presented to the subcommittee during inspection and the same is included in CER budget.
22. Various CSR activities done by ICL in previous years as per CSR Policy of the Company, was reported.
23. An Occupational Health Centre in ICL colony for Employee's as well as for their dependent's medical emergency.
24. Periodical Environment monitoring is conducted through NABL accredited Laboratory and recent copy of the report was reviewed by the Sub Committee (Copy of the report was shown). The Sub-Committee has also noted that the PP has sent the Self-Compliance Reports to the Competent Authority periodically.


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25. The PP have prepared the SOP for Drilling, Blasting and other activities carried out in the mines & ensuring the operation based on the SOP (shown to the Sub-Committee). The PP has conducting Pit safety committee meeting once every 15 days among the workers to brief the significance safe environment in the mine.
26. PP have developed a Safety Management System & Environment Management Cell which is headed by plant head. One Environment manager, HOD and other mining managers & Engineers. (shown to the Sub-Committee)
27. The Valid Occupational Health & Safety Management System (OHSMS) Certificate, Quality Management System (QMS) Certificate, Environmental Management System(EMS) certificates are obtained by the PP.
28. PP have done/practicing Kaizen to develop the systematic, safe, environment friendly mines operation.
29. PP also informed that, so far 51 numbers of wind mills totalling 18.65 megawatts is already installed in various parts of Tamil Nadu (Report shown to the Sub-Committee).
30. As suggested by the Sub-Committee, the PP has also committed for usage/ replacement of electric vehicles as against diesel light vehicles and its implementation in phased manner within the premises for reducing the plant power consumption. Further, the local hired vehicles used for the transportation of ROM to the plant by providing employment opportunities to the local villagers.
31. The PP have informed that the pit / mine water is basically an accumulation of seasonal rain water and it is being used exclusively for the mine related activities such dust control, etc and mine water is being pumped currently outside the lease area are stored temporarily in the nearby small abandoned pits available for surrounding agricultural activities as they are being treated accordingly before usage.
32. The PP have shown the Sub-Committee in surrounding the mine lease on the agricultural activities being carried out in the surrounding villages through well-water irrigation which justifies that the ground water table is not being affected by the mining activities.

33.The PP have also shown the Sub-Committee regarding the greenbelt development activities implemented in the past in inactive dumps and exposed the proposed plantation activities in the berm of existing quarry.

34.Further, the PP have informed that the possible strategies will be explored for converting the existing dynamic dumps into an 'Eco-Park' depends upon the existence of economic worthiness of the waste material (to convert it into a secondary resource) and subject to the legal permission from the competent authorities.

The Regional Controller of Mines, Indian Bureau of Mines (IBM), Chennai has accorded its Approval periodically for Mining Plans/Schemes. For present Review of Mining Plan (ROMP) for the Period 2021-22 to 2025-26 has been given approval vide Letter No. TN/SLM/LST/ROMP-1620.MDS dated 17.12.2020.

Common CTO were obtained vide Order No.9128 (Water Act) and 6450 (Air Act) dated 18.06.1992. Also CTO was obtained for G.O 101 from TNPCB upto 30.06.2017.

The proponent has developed plantation within and outside mining lease areas and the details of existing plantation in Karumapurathanur Limestone Mines and other mines are given

Name of the Lease	Afforestation within the lease area		Afforestation outside the lease area	
	Cumulative area covered for plantation (Ha)	Cumulative No. of plantation	Cumulative area covered for plantation(Ha)	Cumulative No. of plantation
GO 88	3.25	4256	1.1	1470
GO 101	3	3281	0.9	1300
Other Leases	16.9	24035	7.6	10330
Total	23.1	31572	9.6	13100

The proposed plantation details up to the end of life of mine provided by ICL is given below

Mine	Location	Within Mining Lease Area		Outside Mining Lease Area	Total
		Green Belt	On Waste Dump		


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		Area (Ha)	Number of Trees Proposed	Area (Ha)	Number of Trees Proposed	Area (Ha)	Number of Trees Proposed	Area (Ha)	Number of Trees Proposed
Karumapurathalur Limestone Mine	(ML G.O. No 101)	8.53	8530	8.62	4310	10	10000	27.15	22840
Total		8.53	8530	8.62	4310	10	10000	27.15	22840

VIOLATION

The mine was working since the year 1976 which is prior to EIA Notification 1994. M/s. The India Cements initiated action for obtaining Environmental Clearance from SEIAA on 03.12.2014. Initially Form – 1, TOR and feasibility report was submitted to SEIAA, Chennai. The application is returned as it is a violation project & instructed to apply to MoEF&CC for Environmental Clearance stating the violations as per SEIAA letter dt 15.05.2017. The mining operations temporarily stopped from December 2016, this is a case of violation of Environment (Protection) Act, 1986 since mining was done without prior EC.

ICL has operated the mine under G.O.101 and as per the Supreme Court Judgment dated 02.08.2017, an excess quantity of 44313.06 Tonnes of Limestone has been produced during the period from 2000-01 to 2016-17, the PP have paid the penalty amount (Rs.50,00,586/-) to the Department of Geology and Mining for operating without EC.

Hence, ICL has paid Rs.50,00,586/- as penalty for the excess production quantity of 44,313.06tonnes for the period from 2000-01 to 2016-17 and obtained NOC from the Commissioner of Geology and Mining, Chennai vide Letter RC.No.7791/MM9/2018 dated 17.02.2023 (Enclosed)

Credible action plan by way of show cause notice was initiated by TNPCB, Salem vide Proceedings No. F.No.NA/DEE/TNPCB/SLM/EIA/2022 dt 31.03.2023.


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DAMAGE COST – FINAL EVALUATION

SEAC Sub-committee inspected the project site and the documents of project cost details were verified which are as follows:

The level of damages is assessed by the following criteria:

1. **Low level Ecological damage: Only procedural violation – work/operation at site without obtaining EC.**
2. **Medium level Ecological damage:**
 - a. Procedural violation started the construction at site or operation without obtaining EC.
 - b. infrastructural violation such as deviation from awarded EC, CTO & Mining Plan approvals.
 - c. Non operation of the project.
3. **High level Ecological damage:**
 - a. Procedural violation (started the construction or operation at site without obtaining EC).
 - b. infrastructural violation such as deviation from awarded EC, CTO & Mining Plan approvals.
 - c. Under Operation (occupied) without Statutory Approvals.

Thus, the Proposal falls in **Low Level Ecological Damage**.

The damage assessment quantification was carried out and the proponent has earmarked the remediation plan, natural and community resource augmentation plan using EIA Model which was validated by the SEAC Sub-Committee by applying both the SEAC-TN Model and CPCB Guidelines. The breakup of the same is detailed as below:

CONCLUSIONS:

As the Proposal falls in **Low Level Ecological Damage** and EMP measures were in place during the Violation Period, the Sub-Committee is of the opinion that the higher Environmental Compensation value has been arrived based on the **CPCB Guidelines** is **Rs. 46,00,000/-** which is higher than the other Environmental Compensation estimated values of **Rs. 37,75,000/-** based on the **EIA Model** (as proposed by the Proponent) and **Rs. 36,79,350/-** arrived by the **SEAC-TN model**. Therefore, the value of **Rs. 46,00,000/-** shall be compensated for Ecological Remediation, Natural Resource Augmentation and

Community Resource Augmentation Plans in accordance with the MoEF & CC Guidelines accordingly.

Sl. No.	Activity Proposed	Budgetary Provision, Rs. Lakhs			Total, Rs. Lakhs
		I Year	II Year	III Year	
A	Cost of Ecological Damage Remediation Plan	5.50	7.00	7.50	20.00
B	Natural Resource Augmentation Plan	4.00	4.50	4.50	12.00
C	Community Resource Augmentation Plan	2.00	6.00	5.00	14.00
Grand Total (A+B+C)		11.50	17.50	17.00	46.00

As suggested by the SEAC in the EC meeting held on 25.04.2023, proponent has conducted a need survey in the nearby Government schools located in core zone of the mine lease. From the study it is observed that in all the schools, toilets are available with water provision and permanent cleaning staff. Based on the requirements and existing conditions, the Sub-Committee had insisted on the revised CER budget as given below:

Revised CER activities for the Past Mining Operation (Violation Period)

S.No	Activities	Beneficiaries	Cost (Rs.)
1	Plantation in nearby schools	Govt School, Chinnagoundanur and Veerachipalayam	1,50,000
2	Providing school uniforms and books to school children	Govt School, Chinnagoundanur and Veerachipalayam	1,50,000
3	Providing colour coded dustbins to school to promote recycling & sustainable environment.	Govt School, Chinnagoundanur, Govt Primary School Alathur, Nallampalayam.	50,000
4	Providing Environmental books & computers to the nearby school	Govt School, Chinnagoundanur, Govt Primary School Alathur, Nallampalayam.	2,00,000
5	Providing benches and desks to school	Govt School, Chinnagoundanur, Govt Primary School Alathur, Nallampalayam.	2,50,000
6	Roof leakage sealing (water proofing) with false ceiling installation	Panchayat Union Primary School, Kozhinjipalayam, Morur West, Sankari.	2,00,000
	Total		10,00,000

Revised CER activities for the Proposed Mining Operation

The Project Cost is Rs.95 lakhs. CER Budget is arrived as 2% of the Project Cost i.e. Rs. 1,90,000/-. However, as suggested by the SEAC in the EC meeting held on 25.04.2023, proponent has revised the budget for Rs. 25,00,000/= as CER to cater the needs in the nearby Government schools for the proposed mining operation.

S.No	Activities	Beneficiaries	Cost (Rs in Lakhs)
1	Plantation in nearby schools		0.50
2	Toilet repair & Renovation, Maintenance	1.Govt Primary School, Chinnagoundanur	8.00
3	New Class room/office room/Library	2.Govt Primary School, Veerachipalayam.	6.00
4	Provision of sports kit, books, school Uniform etc	3.Govt Panchyat Union Middle School Mothaiyanur,	2.00
5	Class rooms repairing, tiles work	Chinnagoundanur Village	6.50
6	Prayer ground flooring		2.00
	Total		25.00

STATUTORY PROCEDURES TO BE FOLLOWED:

4. The Bank Guarantee for Rs. 46,00,000/- must be given to TNPCB for successful implementation of the Schemes in a period of two years. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
5. CER fund of Rs.10,00,000/- has to be spent by M/s. India Cements Limited directly and receipt has to be produced to the SEIAA-TN.
6. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

RECOMMENDATIONS

1. The SEAC Sub-Committee observed that the Mining of Limestone in an extent of 38.73 Ha for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the subcommittee opines the grant of Environmental Clearance for Mining of Limestone in an extent of 38.73 Ha (G.O. No. 101) of M/s. India Cements Limited may be recommended for the Annual Peak Production

Capacity of not exceeding 4,99,500 tonnes of ROM and 3,47,750 tonnes of Waste (OB/IB/SB) for the life of the project subject to the following conditions in addition to the normal conditions:

2. The amount prescribed for Ecological remediation (Rs. 20 Lakhs), natural resource augmentation (Rs. 12 lakhs) & community resource augmentation (Rs. 14 Lakhs), totaling Rs. 46 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 46 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
3. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
4. The amount committed by the Project proponent for CER activities for the violation period (Rs. 10.00 lakhs) shall be remitted in the form of DD to the beneficiary for the activities as committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN before grant of the EC.
5. Further, the PP shall allocate the budget of Rs. 25,00,000/= as CER activities to cater the needs in the nearby Government schools for the proposed mining operations and it shall be spent within a period of two years after the execution of lease deed. A copy of receipt from the beneficiary shall be submitted to the concerned DEE/TNPCB and the SEIAA.
6. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
7. The company shall produce the 'No Dues Certificate' obtained from the State Government i.e. Department of Geology & Mining to the SEIAA before grant of EC.

8. The PP shall send the 'Notice of Opening' to the Director of Mines Safety/Regional Inspector of Mines, DGMS/Chennai Region within 30 days after the execution of the lease deed.
9. The proposed action plan for green belt development shall be maintained in the dumps and haul roads of the overall project area.
10. As discussed with the Sub-Committee during the inspection, Bio remediation using microorganisms shall be carried out at the end of the mining to restore the soil environment to enable carbon sequestration.
11. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
12. The PP shall carry out the scientific studies to assess the slope stability of the quarry wall benches and the stability of the waste dumps with prescribing the necessary stabilization measures within one year of the commencement of the mining operations, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Nagpur, NIRM-Bangaluru, IIT Madras – Division of Geotechnical Engineering, 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.
13. Within one year from the commencement of mining operations, the PP shall carry out the scientific studies comprising all the operating leases located in a cluster situation, on 'Optimisation of Controlled Blast Techniques for reducing the cumulative impact of blast-induced ground & air vibrations and flyrock caused due to the blasting operations' using of both NONEL and Electronic initiation systems to evaluate its performance for the implementation, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining and Fuel Research / Nagpur, NIRM-Bangaluru, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus

shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.

14. The PP shall carry out the comprehensive hydrogeological studies within a period of two years from the commencement of the mining operations to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving anyone of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM-Bangaluru, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras - Centre for Environmental Sciences (CES), Chennai. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
17. 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 for the life of the project.
18. 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.
19. The Project Proponent shall carry out the following special mitigation measures in view of existence of Suriyamalai Reserve Forest at a distance of 940 m from the lease.

- i. Since the R.F is located within 1 km to the lease boundary of the existing quarry site, the PP shall develop Green Belt (Thick Tree plantation in two to three rows) along the boundary of the mine lease area.
- ii. 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 with maintaining adequate vegetation.
- iii. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
- iv. 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.
- v. 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.
- vi. 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.
- vii. 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.
- viii. 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.
- ix. The PP shall not use plastic carry bags within the quarry area.
- x. 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.

The Committee carefully examined the recommendations of the Sub-Committee and decided to accept them and recommend grant of EC subject to the conditions prescribed by the Sub-Committee under violation category.


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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.

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

1. GRAVEL QUARRY – GENERAL CONDITIONS

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

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

15. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.

22. 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.
23. 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.
24. 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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II. QUARTZ & FELDSPAR – GENERAL CONDITIONS

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 particularly free silica test 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 grass greenbelt comprising of three rows of plantations adopting an incremental layer of plants with canopy 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, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
22. 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.

23. 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.
24. 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.
25. 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.
26. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
27. 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.
28. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
29. 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.

30. 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.
31. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
32. 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.
33. 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.
34. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCCB) by the proponent without fail.
35. 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.

36. 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.
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. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under.
39. 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.
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 EMP furnished.

III. 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 (TNPCCB) 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 WIND MILLS**

Sl. No	Existing (or) Virgin Quarry	
	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m upto 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 shouldn't 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.
7.	Submission of monthly report on blast design pattern and detailed	Submission of monthly report on blast design pattern and detailed explosive

	explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, PESO or SPCB.	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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Appendix -I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	வில்வம்
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சளர், 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 tomentos</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காடுமா
9	<i>Borassus flabellifer</i>	Parai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Sarakondrai	சர்க்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	பூசாமரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கொங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவளி
18	<i>Creteva adansoni</i>	Mavalingum	மாவினங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro seberum</i>	Karungali	கருங்காலை
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகனை
23	<i>Ficus amplissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பூங்கா
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயி மரம், ஆயிலி
27	<i>Lannea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	வில்லா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பின்பட்டை, பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பானை
34	<i>Mimusops elengi</i>	Magizhamaram	மாகிழமரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	காடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனை
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனை
38	<i>Phoenix sylvestre</i>	Eachai	நச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunnai	நறு முன்னை
42	<i>Premna tomentosa</i>	Malaipoovarasu	மலை பூங்க
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேணாங்காங்க
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கரிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மாணிப்புங்க சோபுகாய்
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	தேத்தாள் கோட்டை
54	<i>Syzygium cumini</i>	Navai	நாவை
55	<i>Terminalia belleric</i>	Thandri	தாண்டி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேன் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தாள் வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூங்க
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கோடுக்காபுளி


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Appendix -III
Display Board
(Size 6' x5' with Blue Background and White Letters)

-----சுரங்கம்

சுரங்கங்களில் சுவாமி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்படும். SEIAA-----, தேதி: _____, சுற்றுச்சூழல் அனுமதி _____ தேதி வரை செல்லத்தக்கதாக உள்ளது.

பண்பாடு பகுதி வளர்ச்சி செயல்பாடுகளை சுரங்கத் திட்டம்	சுவாமியின் எல்லைவைச் சுற்றி வேலி அமைக்க வேண்டும்.
	சுரங்கப்பகுதியின் ஆழம் தளமட்டத்திலிருந்து _____ மீட்டர்க்கு மிகாமல் இருக்க வேண்டும்.
	காந்தில் மாசு ஏற்படாதவாறு சுரங்க பணிகளை மேற்கொள்ள வேண்டும்.
நட்டம்	வாகனங்கள் செல்லும் பாதையில் மாசு ஏற்படாத அளவிற்கு தண்ணீரை முறைப்பாக தண்ணீர் வாய்க்காலின் மூலமாக அளவளவேறு தெளிக்க வேண்டும்.
புறநகர்ப்பகுதி வேளாறு மரங்கள் எண்ணிக்கை:	இசுரக்கல் அமைப்பதில் தூசி மாசுபட்டிடமும் சுவாமிப்பகுதிகளை சுவாமியின் எல்லைவைச் சுற்றி அடர்த்தியான பண்பாடு பகுதியை ஏற்படுத்த வேண்டும்.
	சுரங்கத்தில் வெளியே வரும் கழிவுநீர் தடுக்கிகள் ஏற்படாதவாறு மற்றும் சுரங்கப் பறக்காதவாறு பழுதாக்கப் பட்டிருக்கக்கூடிய உபகரணங்களை மாற்றியமைக்க வேண்டும்.
	சுரங்கத்தில் இருந்து ஏற்படும் இசுரக்கல் அமைப்பு 85 டி.பி.எஸ் (DBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.
	சுரங்க சட்ட விதிகள் 1988 கீழ் சுரங்கத்தில் உள்ள பணியாளர்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு கைதளமுள்ள கட்டுப்பாடு வாரியகளை செய்ந்து தர வேண்டும்.
	கிராமம் அல்லது பஞ்சாயத்து வாரியக வாகனங்கள் செல்லும் சாலைவை தெளத்து தங்கு பண்பாடு வேண்டும்.
	சுரங்கப்பணிகளை அருகில் உள்ள விவசாயப் பணிகள் மற்றும் தீர்மானங்கள் பாதிக்கப்படக் கூடாது.
	நீர்நிலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் நிலத்தடி நீர் தரத்திறனை தெளத்து கண்காணிக்க வேண்டும்.
	சுரங்கத்திலிருந்து கனிம வெளியேறும் எடுத்துச் செல்லும் கிராம மக்களுக்கு எந்தத் தீர்மானமும் ஏற்படுத்தாதவாறு பாதுகாப்பும் மற்றும் சுற்றுச்சூழல் பாதிக்காத வகையில் வாகனங்களை இயக்க வேண்டும்.
	சுரங்கப்பணிகள் முடிக்கப்பட்டவுடன் சுரங்க மூடல் திட்டத்தில் உள்ளவாறு சுரங்கத்தினை மூட வேண்டும்.
	சுரங்க நடவடிக்கைகளை முடித்தபின்னர் சுரங்கப் பகுதி மற்றும் சுரங்க நடவடிக்கைகளை இடைபூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமை செய்ய தரவார்ப்புகள் கிடைக்கும் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பண்பாடு பகுதியை உருவாக்க வேண்டும்.
	முழுமையான நிபந்தனைகளை அறிய பாதிவேறு (http://parivesh.nic.in) என்கிற இணையதளத்தைப் பார்க்கவும். மேலும் எந்தவித சுற்றுச்சூழல் சார்ந்த புகார்களுக்கு சென்சைசியில் உள்ள சுற்றுச்சூழல் மற்றும் வன அமைச்சகத்தின் ஒருங்கிணைந்த கட்டாய அலுவலகம்: 044 - 28222325 (அல்லது) தமிழ்நாடு மாசு கட்டுப்பாடு வாரியத்தின் மாசுட்ட சுற்றுச்சூழல் பொறுப்பாளர் அலுவலகம்.


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