

State Expert Appraisal Committee (SEAC)

Minutes of 462nd meeting of the State Expert Appraisal Committee (SEAC) held on 26.04.2024 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Malligai, Saldapet, Chennai 600 015 for consideration of Mining projects & Building and Construction projects.

Confirmation of Earlier Minutes

The minutes of the 461st SEAC meeting held on 25.04.2024 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minutes.

Agenda No:462-01

(File No: 10744/2024)

Proposed Quartzite Quarry over an extent of 2.00.0 Ha at S.F.Nos. 663/2 of Ottapidaram Village, Ottapidaram Taluk, Thoothukudi District, Tamil Nadu by Thiru. K.Kasilingam- For Environmental Clearance. (SIA/TN/MIN/464798/2024, Dated:02.03.2024.

The proposal was placed in the 462nd Meeting of SEAC held on 26.04.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.K.Kasilingam has applied for Environmental Clearance for the Proposed Quartzite Quarry over an extent of 2.00.0 Ha at S.F.Nos. 663/2 of Ottapidaram Village, Ottapidaram Taluk, Thoothukudi District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the proposed project as follows

File No	10744		Category	"B2" 1(a)
	SIA/TN/MIN/464798/2024, Dated:02.03.2024			EC
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. K.Kasilingam,	


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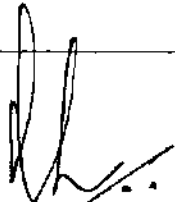

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		S/o. Narayana Morrthy, 450/1, Arcot Road, Porur, Chennai, Tamil Nadu – 600 116.			
2.	Type of quarrying (Ordinary stone/Sand/ Granite/Limestone)	:	Quartzite Quarry		
3.	S.F Nos. of the quarry site with area break-up	:	663/2		
4.	Village in which situated	:	Ottapidaram		
5.	Taluk in which situated	:	Ottapidaram		
6.	District in which situated	:	Thoothukudi		
7.	Extent of quarry (in ha.)	:	2.00.0 Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	08° 54' 17.5460" N to 08°54'23.2593"N 77° 59' 18.9629" E to 77° 59' 25.2030"E		
9.	Topo Sheet No.	:	58-H/13		
10.	Type of mining	:	Opencast Mechanized Mining		
11.	Life of Project	:	10 years		
	Lease Period	:	10 years		
	Mining Plan Period	:	10 years		
12.	Mining Plan Details	:	As per approved Mining Plan		
		:	ROM	Recoverable Quartzite @ 80% (Ts)	Minerals Rejects @20% (Ts)
	Geological Resources Ts (RoM)	:	25,26,160 Ts	20,20,928 Ts	5,05,232 Ts
	Minable Resources Ts (RoM)	:	8,60,548 Ts	6,88,438 Ts	1,72,110 Ts
	Annual Peak Production in Ts	:	88,400 Ts	70,720 Ts	17,680 Ts

	Ultimate Depth in meters	:	46m BGL
13.	Depth of water table	:	68m-63m BGL
14.	Man Power requirement per day:	:	28 Nos.
15.	Water requirement: 1. Drinking water & Domestic 2. Dust suppression 3. Green belt	:	2.0 KLD 0.4 KLD 1.0 KLD 0.6 KLD
16.	Power requirement		TNEB 150 Liters of HSD /day
17.	Precise area communication approved by the Joint Director / Assistant Director(i/c), Department of Geology and Mining	:	Rc.No. 197/Mines/2023 Dated: 20.10.2023
18.	Mining Plan approved by Joint Director / Assistant Director(i/c), Department of Geology and Mining	:	Rc. No. 2167/MM7/2022, Dated 15.12.2023
19.	Joint Director / Assistant Director(i/c), Department of Geology and Mining, 500m Cluster Letter		Rc. No. 447/G&M/2018, Dated 10.01.2024
20.	VAO Certificate Regarding Structures within 300m Radius		Letter Dated: 18.01.2023
21.	Project Cost (excluding EMP cost)	:	Rs. 222.70 Lakhs


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22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.		
		:	Max Total RoM in Ts	4,27,596 Ts	Recoverable Quartzite @ 80% (Ts)	Minerals Rejects @20% (Ts)
		:	Annual Max RoM in Ts	88,400 Ts	70,720 Ts	17,680 Ts
		:	Max Depth in mtrs	46m BGL		
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 29,01,000/- recurring cost – Rs.23,80,500/-			
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000 /- as accepted by the PP			

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 88,400 Ts of RoM by maintaining the ultimate depth of mining upto 46m BGL for the project life of 10 years (or) expiry date of mine lease but subject to a maximum of thirty years, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022 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:

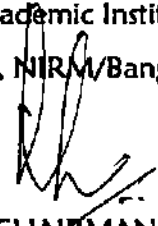
- 1) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
- 2) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.


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- 3) The PP shall register promptly through online in the Shram Suvidha Portal which is the official portal of Ministry of Labour & Employment, Govt of India to obtain Labour Identification Number (LIN) before obtaining the CTO from the TNPCB.
- 4) The PP shall install the tall wind sheets around the lease boundary directing the structures located nearby and water shall be sprayed frequently so as to arrest the dust pollution.
- 5) The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
- 6) The PP shall carry out the required number of plantations as committed in the EMP without deviation before obtaining the CTO from the TNPCB.
- 7) The PP shall not carry out drilling & blasting operations in the proposed quarry.
- 8) The PP shall install restroom & toilet for the convenience of the workmen under the provisions of the Mines Rules 1955, before obtaining the CTO from the TNPCB.
- 9) The PP shall appoint a statutory Mine Manager possessing the I / II Class Mines Manager Certificate of Competency (R/UR) under MMR 1961 before executing the lease and a copy of such appointment shall be sent to the DMS/Chennai Region atleast 30 days before the commencement of the mining operations without fail.
- 10) The PP shall carry out the Initial medical Examination (or) Periodical Medical Examination (PME) for the persons to be employed and already employed in the mines under the provisions of the Mines Act 1952 within a period of six months from the date of lease execution. A copy of such medical examination report shall be sent to the Director of Mines Safety, Chennai Region; the AD (Mines)/DMG; the DEE/TNPCB and the IRO, MoEF & CC-Chennai.
- 11) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore,


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

- 12) The PP shall annually carry out an Occupational Health Survey (OHS) includes free silica test, in accordance with the guidelines & period of examination laid in the DGMS (Tech.) (S&T) Circular No. 01 of 2011, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952 by actively involving State Government officials and Non-Government Organizations (NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual compliance certificate shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 13) As accepted by the Project Proponent the CER cost is Rs. 5 Lakhs and the amount shall be spent towards Panchayat Union Primary School, Kattabomman Sathiyar Kudiruppu, Panjalakurichi for the activities as committed before obtaining CTO from TNPCB.

Agenda No:462-02

(File No: 10769/2024)

Proposed Rough Stone and Gravel quarry over an extent of 0.66.5 Ha at S.F.Nos. 485/1C1 (P) of Vallakulam Village, Srivaikundam Taluk, Thoothukudi District, Tamil Nadu by Thiru. Job K.K-For Environmental Clearance. (SIA/TN/MIN/465535/2024, Dated:14.03.2024).

The proposal was placed in the 462nd Meeting of SEAC held on 26.04.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. Job K.K has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry over an extent of 0.66.5 Ha at S.F.Nos. 485/1C1 (P) of Vallakulam Village, Srivaikundam Taluk, Thoothukudi District, Tamil Nadu.


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2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

3. The salient features of the proposed project as follows

File No	10769		Category	"B2" 1(a)
	SIA/TN/MIN/465535/2024, Dated:14.03.2024			EC
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. Job K.K kaduppassery south, Trissur, kerala state-680 683.	
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	:	S.F.Nos. 485/IC1(P)	
4.	Village in which situated	:	Vallakulam	
5.	Taluk in which situated	:	Srivaikundam	
6.	District in which situated	:	Thoothukudi	
7.	Extent of quarry (in ha.)	:	0.66.5 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	08°33'15.80"N to 08°33'19.28"N 77°52'09.94"E to 77°52'12.94"E	
9.	Topo Sheet No.	:	58 H/14	
10.	Type of mining	:	Opencast Mechanized Mining	
11.	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	
	Geological Resources m ³ (RoM)	:	Rough Stone 1,65,375 m ³	Gravel 13,230 m ³


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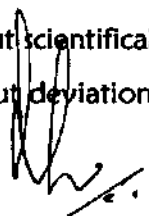
	Minable Resources m ³ (RoM)	:	43,490 m ³	8610 m ³
	Annual Peak Production in m ³	:	8,975m ³	4340 m ³
	Ultimate Depth in meters	:	27m BGL	
13.	Depth of water table	:	63m BGL	
14.	Man Power requirement per day:	:	22 Nos.	
15.	Water requirement: 1. Drinking water & Domestic 2. Dust suppression 3. Green belt	:	3.0 KLD 0.9 KLD 1.3 KLD 0.8 KLD	
16.	Power requirement		TNEB 36.23 KL	
17.	Precise area communication approved by the Joint Director / Assistant Director(i/c), Department of Geology and Mining	:	Rc.No.G.M.1/1063/2022 dated 20.10.2023	
18.	Mining Plan approved by Joint Director / Assistant Director(i/c), Department of Geology and Mining	:	Rc.No.G.M.1/1063/2022 dated 03.11.2023	
19.	Joint Director / Assistant Director(i/c), Department of Geology and Mining, 500m Cluster Letter		Rc.No.G.M.1/1063/2022 dated 03.11.2023	
20.	VAO Certificate Regarding Structures within 300m Radius		Letter Dated: 17.11.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 182.98 Lakhs	

22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
			Max Total RoM in m ³	43,490 m ³	8,610 m ³
			Annual Max RoM in m ³	8,975 m ³	4,340m ³
			Max Depth in mtrs	27m BGL	
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 26.44 Lakhs recurring cost – Rs.18.74 Lakhs		
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000 /- as accepted by the PP		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity shall not exceed 8,975 m³ of Rough stone & 4,340m³ of Gravel for the ultimate depth of mining up to 27m BGL for the project life of 5 years (or) expiry date of mine lease but subject to a maximum of thirty years, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022 and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 2) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
- 3) The AD (Mines) shall ensure the mining operation is carried out scientifically and systematically following the Regulations of MMR 1961 without deviation.


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- 4) The PP shall install the tall wind sheets on SW direction and water shall be sprayed frequently so as to arrest the dust pollution on the Coconut trees farm situated nearby before execution of the mine lease.
- 5) The PP shall **register promptly through online in the Shram Suvidha Portal** which is the official portal of Ministry of Labour & Employment, Govt of India to obtain **Labour Identification Number (LIN) before obtaining the CTO from the TNPCB.**
- 6) For ensuring the safe and systematic mining operations, the PP shall send the 'Notice of Opening' indicating the appointment of **First Class/Second Class Mine Manager** for managing the quarrying operations and the proposed usage of HEMM shall be sent to the Director of Mines Safety, Chennai Region of the Mine under the provisions of MMR 1961 atleast 30 days before the commencement of the mining operation immediately after the execution of lease with district authority.
- 7) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 8) **Since the structures are situated within a radial distance of 500 m,** the PP shall carry out only one blast per day with muffle technique, for not more than 30 to 40 holes in a round, with maximum charge of 375g/hole.
- 9) **However, after obtaining necessary permission from the DMS/Chennai Region,** the PP shall carry out the scientific studies **within a period of one year** from the commencement of quarrying operations with prior permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the 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.

- 10) **Since waterbodies are situated nearby**, the PP shall annually carry out the scientific studies to assess the hydrogeological condition of the quarry after the commencement of mining operations for ensuring the safety of the persons working in the mine and to determine impacts of the mining operation on the ground water conditions in the waterbodies, 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 Region as a part of Environmental Compliance without any deviation.
- 11) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 12) The PP shall annually carry out an Occupational Health Survey (OHS) in accordance with the guidelines & period of examination laid in the DGMS (Tech.) (S&T) Circular No. 01 of 2011, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952 by actively involving State Government officials and Non-Government Organizations (NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual compliance certificate shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.


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- 13) As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Middle School, Manal Vilai Village, before obtaining CTO from TNPCB.

Agenda No:462-03

(File No: 10345/2023)

Proposed Construction of Mall & Residential Building at Survey Nos.: 638/1, 2 & 3, 639/1, 639/2, 639/3, 644/1, T.S. No:1/10, Block No: 176 of Velachery Village, Guindy-Mambalam Taluk, Chennai District, Tamil Nadu by M/s. Esthell Homes - For Environmental Clearance. (SIA/TN/INFRA2/440434/2023, 16.08.2023).


The proposal was earlier placed in the 418th Meeting of SEAC held on 19.10.2023. 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. Esthell Homes has applied for Environmental Clearance for the Proposed Construction of Mall & Residential Building at Survey Nos.: 638/1, 2 & 3, 639/1, 639/2, 639/3, 644/1, T.S.No:1/10, Block No : 176 of Velachery Village, Guindy-Mambalam Taluk, Chennai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.

Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -

1. M/s. Esthell Hotel and Resorts have obtained environmental clearance from SEIAA vide reference cited below for the construction of Block A – Mall/Multiplex/Hotel Complex – 3rd B + 2nd B + 1st B + G + 7 floors and Block B – Apartment – 2nd B + 1st B + S + 13 floors at Survey Numbers: 638/1, 2&3, S.No: 639/1, 2&3, and S.No: 644/1, T.S. No : 1/10 , Block No : 176 in Velachery village, Guindy –Mambalam Taluk, Chennai District in the state of Tamil Nadu. (Reference: Letter No. SEIAA/TN/F.481/EC/8(a)/165/2012 dt: 04.06.2013.)
2. The existing environmental clearance comprises of 2 blocks - Block A – Mall & Hotel with three basements and seven upper floors and Block B – Residential


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- Apartment with two basements and thirteen upper floors having total built-up area of 41203 Sq.m.
3. **Request of Name change in Existing EC:** Further to develop the project as separate components from mother concern Esthell Hotel and Resorts, they have registered the new company name M/s. Esthell Homes in the Govt of Tamil Nadu, Commercial Taxes Department.
 4. **Request of change in floor 6 and 7 - Expansion of built-up area:** The plan has been revised for Block A – Floor 6 & 7. In this regard, we would like to obtain expansion in built-up area of 3291.07 Sqm in the existing Environmental Clearance from the SEIAA for the said project.
 5. M/s. Ecotech Labs Private Limited is the EIA Consultant for the project.
 6. The total built-up area after expansion is 44494.07 Sqm. The total land area is 8428.71 Sq.m respectively.
 7. Maximum number of floors will be 13 and maximum height of the building will be 43 m.
 8. Total Saleable DU's (dwelling units) is 91.
 9. Salient features of the project as submitted by the project proponent:

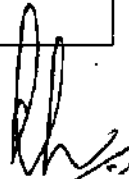
PROJECT SUMMARY					
Sl. No.	Description	Existing EC		Proposed Expansion	
		Total Quantity	Unit	Total Quantity	Unit
GENERAL					
1	Plot Area	8517	SQMT	8428.71	SQMT
2	Proposed Built Up Area	41203	SQMT	44494.07	SQMT
3	Total no of Saleable DU's/Villas	91	No.	91	No.


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4	Max Height - (Height of tallest block)	43	M	43	M
5	No of Building Blocks (Residential + Community facilities)	2		2	
6	Max No of Floors	13	No.	13	No.
7	Expected Population (XXX Residential + XXXX Floating)	7641 (7136 Commercial + 505 Residential)	No.	7038 (6569 Commercial + 469 Residential)	No.
8	Total Cost of Project	Rs. 130 Crores	CR	Rs. 149 Crores	CR
9	Project Activity:	Construction of Mall & Residential Building			
AREAS					
10	Permissible Ground Coverage Area (xx%)	50%	SQMT	50%	SQMT
11	Proposed Ground Coverage Area (xx%)	3323.11 (39 %)	SQMT	3323.11 (39 %)	SQMT
12	Permissible FSI Area (xxx)	29,500	SQMT	29,500	SQMT
13	Proposed FSI Area	24151.33	SQMT	27442.4	SQMT
14	Other Non FSI Areas - including basement area etc.	17,051.67	SQMT	17,051.67	SQMT


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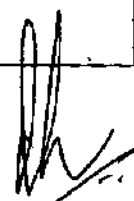
15	Proposed Total Built Up Area	41203	SQMT	44494.07	SQMT
WATER					
16	Total Water Requirement	280	KLD	257	KLD
17	Fresh water requirement	103	KLD	85	KLD
18	Treated Water Requirement	177	KLD	172	KLD
19	Wastewater Generation	185	KLD	181	KLD
20	Proposed Capacity of STP	131 & 65	KLD	131 & 65	KLD
21	Treated Water Available for Reuse	177	KLD	172	KLD
22	Treated Water Recycled	177	KLD	172	KLD
23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	0	KLD	0	KLD
RAINWATER HARVESTING					
24	Rainwater Harvesting - Recharge Pits	25	No.	25	No.


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25	Rainwater Harvesting Sump Capacity	80	M ³	80	M ³
PARKING					
25	Total Parking Required as / Building Bye Laws	356 cars, 341 two wheelers	ECS	340 cars, 820 two wheelers	ECS
26	Proposed Total Parking	356 cars, 341 two wheelers	ECS	359 cars, 858 two wheelers	ECS
27	Parking in Basements	213 cars, 168 two wheelers	ECS	359 cars, 858 two wheelers	ECS
GREEN AREA					
28	Proposed Green Area (Minimum 15.0% of plot area)	2812 (33%)	SQMT	1265 (15%)	SQMT
	Total area	8517	SQMT	8428.71	SQMT
	Existing trees on plot	0	Nos.	100	Nos.
	Number of trees to be planted	300	Nos.	200	Nos.
	Number of trees to be transplanted/cut	0	Nos.	0	Nos.
SOLID WASTE MANAGEMENT					
29	Total Solid Waste Generation	1.084 T/day	TPD	1.1004	TPD


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30	Organic waste	0.651	TPD	0.661	TPD
31	Mode of Treatment & Disposal	Will be treated in Organic Waste Converter and used as manure for gardening.	TPD	Will be treated in Organic Waste Converter and used as manure for gardening.	TPD
32	Quantity of Sludge Generated from STP & Disposal	20	KG/DAY	20	KG/DAY
33	Quantity of E-Waste Generation & Disposal	0	KG/DAY	0	KG/DAY
34	Quantity of Hazardous waste Generation & Disposal	0	LPD	0	LPD
POWER / GREEN POWER					
34	Total Power Requirement	2761	KVA	2939	KVA
35	DG set backup	2 Nos. of 1500 KVA 1 No. of 380 KVA	KVA	2 Nos. of 1500 KVA 2 Nos. of 380 KVA	KVA
36	No of DG Sets	3	No.	4	No.
37	Solar Panels – Roof Coverage	50	%	50	%


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38	Hot Water Requirement Of which met by Solar Panels	17.5		17.5	Litres
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Details of POPULATION		
	TOTAL POPULATION (Existing EC) (Nos.)	TOTAL POPULATION (Proposed Expansion Activity) (Nos.)
Residential		
Total Saleable Du's	91	91
POP/DU	1 BHK - 4, 2 BHK - 5, 3 BHK - 6, 4 BHK - 7	1 BHK - 4, 2 BHK - 5, 3 BHK - 6, 4 BHK - 7
TOTAL Residential POPULATION	505	423
Non-Residential		
CLUB house (Employees etc.)	-	-
Club	-	-
Commercial	-	-
Facility Management Staff	-	-
Total Non-Residential		
Visitors		
Residential	-	-


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Club/Community Hall	-	-						
Commercial	7136	6569						
Total Visitors	-	46(Visitor & maintenance)						
Total Population (Residential + Non-Residential + Visitor)	7641	7038						
EMP Cost	EXISTING - Construction Phase: Capital Cost - Rs. 11.6 Lakhs Recurring cost- Rs. 41 Lakhs Operation Phase: Capital Cost - Rs. 176 Lakhs Recurring cost- Rs. 34 Lakhs Proposed - Construction Phase: Capital Cost - Rs. 11.6 Lakhs Recurring cost- Rs. 41 Lakhs Operation Phase: Capital Cost - Rs. 230.3 Lakhs Recurring cost- Rs. 39.82 Lakhs							
CER Cost	Rs. 100 Lakhs							
Details of CER Activities	<table border="1"> <thead> <tr> <th>S. N O</th> <th>CER Activity</th> <th>Action Plan</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Panchayat Union Primary school, Nagamathy – 50 Lakhs</td> <td></td> </tr> </tbody> </table>		S. N O	CER Activity	Action Plan	1.	Panchayat Union Primary school, Nagamathy – 50 Lakhs	
	S. N O	CER Activity	Action Plan					
1.	Panchayat Union Primary school, Nagamathy – 50 Lakhs							


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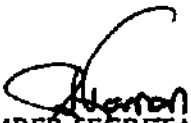
	a)	Improvement of school infrastructure, ✓ Sanitation facility, ✓ library, Drinking water treatment plant, ✓ Solar lighting & smart class (LED Projector with computer),	6 month from the commencement of construction
	b)	✓ Furniture, development of sports facilities, ✓ Greenbelt development with in school campus, Additional classrooms for schools and Maintenance of toilet for the schools mentioned upto construction phase of the Proposed Project.	6 month from the commencement of construction
	2. Corporation Primary School - Velachery – 50 Lakhs		
	a)	Improvement of school infrastructure, ✓ Sanitation facility, ✓ library, Drinking water treatment plant, ✓ Solar lighting & smart class (LED Projector with computer),	9 month from the commencement of construction
	b)	✓ Furniture, development of sports facilities, ✓ Greenbelt development with in school campus, Additional classrooms for schools and Maintenance of toilet for the schools mentioned upto construction phase of the Proposed Project.	9 month from the commencement of construction
	Total Cost Allocation- 100 Lakhs		

Based on the documents furnished and the presentation made by the proponent, the SEAC, after detailed deliberations, decided to obtain the following details,

1. The project proponent shall submit a Certified Compliance Report for the existing EC and appropriate mitigating measures for the non-compliance items, if any.
2. The PP shall submit fresh water supply commitment letter and disposal of excess treated water from the Competent Authority.
3. The PP shall furnish revised CER details.

On receipt of the above, the proposal was again placed in the 462nd SEAC meeting held on 26.04.2024. During the meeting, the PP made the presentation as follows,

S.No	SEAC Query	The reply submitted by the PP
1.	The project proponent shall submit a Certified Compliance Report for the existing EC and appropriate mitigating measures for the non-compliance items, if any.	CCR obtained vide F.No: EP/12.1/2019-20/SEIAA/13/TN/367 Dated:19.03.2024 and non-complied activities along with action plan is submitted as affidavit.
2.	The PP shall submit fresh water supply commitment letter and disposal of excess treated water from the Competent Authority.	We have obtained fresh water supply line from CMWSSB for the exiting residential tower and the CMWSSB Water Card and Tax receipt has been attached in next slide. The corporation of Chennai has already established water supply and underground sewer for the proposed project.


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3.	The PP shall furnish Revised CER details	S. No	CER Activity	Action Plan
		1.	Panchayat Union Primary school, Nagamathy – 50 Lakhs	
		a)	Improvement of school infrastructure, ✓ Sanitation facility, ✓ library, Drinking water treatment plant, ✓ Solar lighting & smart class (LED Projector with computer),	6 month from the commencement of construction
		b)	✓ Furniture, development of sports facilities, ✓ Greenbelt development with in school campus, Additional classrooms for schools and Maintenance of toilet for the schools mentioned upto construction phase of the Proposed Project.	6 month from the commencement of construction
		2.	Corporation Primary School - Velachery – 50 Lakhs	
		a)	Improvement of school infrastructure, ✓ Sanitation facility, ✓ library, Drinking water treatment plant, ✓ Solar lighting & smart class (LED Projector with computer),	9 month from the commencement of construction


		b) ✓ Furniture, development of sports facilities, ✓ Greenbelt development with in school campus, Additional classrooms for schools and Maintenance of toilet for the schools mentioned upto construction phase of the Proposed Project.	9 month from the commencement of construction
		Total Cost Allocation- 100 Lakhs	

RECOMMENDATION OF THE COMMITTEE

The Committee discussed the matter and recommended a grant of environmental clearance for the project proposal as above and subject to the standard conditions as per the **Annexure II** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

Additional Conditions:

1. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
2. 50% of the roof area should be covered with Solar panels. Provision of hot water shall be met through solar water heaters.
3. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.

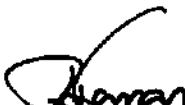

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4. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
5. Project proponent is advised to explore the possibility and getting the cement in a closed container rather through the plastic bag to prevent dust emissions at the time of loading/unloading.
6. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
7. The proponent should provide the sufficient electric vehicle charging points as per the requirements at ground level and allocate the safe and suitable place in the premises for the same.
8. The project proponent should develop green belt in the township as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms.
9. Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
10. Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF Lko/Director of Environment and other concerning authority regularly.
11. Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned authority.
12. The project proponent shall provide a measuring device for monitoring the various sources of water supply namely fresh water, treated waste water and harvested rain water.
13. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.

Agenda No:462-04

(File No: 10275/2023)


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Proposed Rough Stone & Gravel Quarry lease over an extent of 3.66.45 Ha at S.F.No.19/7A, 19/7B, 19/12, 19/13, 19/14A, 19/14B & 119/1A of Thollamur & Nemili Village, Vanur Taluk, Villupuram District, Tamil Nadu by Thiru.A.Shanmugam - For Environmental Clearance (SIA/TN/MIN/461972/2024 dt 07.02.2024).

The proposal was earlier placed for appraisal in the 453rd meeting of SEAC held on 20.03.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.A. Shanmugam has applied for Environmental Clearance for the Proposed Rough Stone & Gravel Quarry lease over an extent of 3.66.45 Ha at S.F.No.19/7A, 19/7B, 19/12, 19/13, 19/14A, 19/14B & 119/1A of Thollamur & Nemili Village, Vanur Taluk, Villupuram District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. The salient features of the proposal are as follows:

File No	10275/ 2022 (SIA/TN/MIN/461972/2024 dt 07.02.2024)	Category	B1 / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Thiru.A.Shanmugam, S/o.Arumugam, No.176/2, Main Road, Thalavanur Village and Post, Viluppuram Taluk, Viluppuram District-605103.
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel
3	S.F Nos. of the quarry site with area break-up	:	19/7A, 19/7B, 19/12, 19/13, 19/14A, 19/14B & 119/1A
4	Village in which situated	:	Thalamus & Nemili


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5	Taluk in which situated	:	Vanur
6	District in which situated	:	Villupuram
7	Extent of quarry (in ha.)	:	3.66.45Ha
8	Latitude & Longitude of all corners of the quarry site	:	12°3'10.41"N to 12°3'19.07"N 79°39'55.90"E to 79°40'4.16"E
9	Topo Sheet No.	:	57 P/12
10	Type of mining	:	Opencast Mechanized Mining
11	Life of Project	:	10 years
	Lease Period	:	10 years
	Mining Plan Period	:	10 years (However, the production schedule is placed only for the first five years)
12	Mining Plan Details	:	As per approved Mining Plan
			Rough Stone Gravel
	Geological Resources m ³ (RoM)	:	17,15,895 m ³ 1,09,947 m ³
	Minable Resources m ³ (RoM)	:	5,62,088 m ³ 84,114 m ³
	Annual Peak Production in m ³	:	1,32,416 m ³ 33,156 m ³
	Ultimate Depth in meters	:	40m BGL
13	Depth of water table	:	60mBGL
14	Man Power requirement per day:	:	23 Nos.
15	Water requirement:		3.0 KLD
	1. Drinking water & Utilized water	:	1.3 KLD
	2. Dust suppression	:	1.0 KLD
	3. Green belt	:	0.7 KLD
16	Power requirement	:	392Liters of HSD / day
17	Precise area communication approved by District Collector	:	Rc.No.A/G&M 389/2022 dt:18.07.2023

18	Mining Plan approved by Deputy Director Department of G&M	:	Rc.No.A/G&M 389/2022 dt:20.07.2023		
19	Department of G&M, Joint Director / Assistant Director (i/c) 500m Cluster Letter	:	Rc.No.A/G&M 389/2022 dt:20.07.2023		
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dt:25.03.2022		
21	Project Cost (excluding EMP cost)	:	Rs. 6,58,76,704/-		
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
			Max Total RoM in m ³	5,21,848 m ³	84,114 m ³
			Annual Max RoM in m ³	1,32,416 m ³	33,156 m ³
	Max Depth in mtrs		40m BGL		
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 76.53 Lakhs Recurring Cost – Rs.4.70 Lakhs		
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-as accepted by pp		
25.	Tor Issued		Lr.No.SEIAA- TN/F.No.10275/SEAC/TOR-1587/2023 Dated:06.10.2023		
26.	Public Hearing		27.12.2023		
27.	EIA Report Submitted		13.02.2024		

During the meeting, the Proponent has requested for additional time to submit the other field related documents. Therefore, SEAC decided to defer the proposal.


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On receipt of the reply, the proposal was again placed for reappraisal in the 462nd meeting of SEAC held on 26.04.2024. During the meeting, the PP had submitted the photography/Drone video of fencing and Greenbelt development carried out in the proposed lease area.


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 shall not exceed 1,32,416 m³ of Rough stone & 33,156 m³ of Gravel for the ultimate depth of mining up to 40m BGL for the project life of 10 years (or) expiry date of mine lease but subject to a maximum of thirty years, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022 and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 2) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
- 3) The PP shall register promptly through online in the Shram Suvidha Portal which is the official portal of Ministry of Labour & Employment, Govt of India to obtain Labour Identification Number (LIN) before obtaining the CTO from the TNPCB.
- 4) For ensuring the safe and systematic mining operations, the PP shall send the 'Notice of Opening' indicating the appointment of **First Class/Second Class Mine Manager** for managing the quarrying operations and the proposed usage of HEMM shall be sent to the Director of Mines Safety, Chennai Region of the Mine under the provisions of MMR 1961 atleast 30 days before the commencement of the mining operation immediately after the execution of lease with district authority.


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- 5) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storage & transportation of the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 6) Since the structures are situated within a radial distance of 500 m, the PP shall carry out only one blast per day with muffle technique, for not more than 30 to 40 holes in a round, with maximum charge of 375g/hole.
- 7) However, after obtaining necessary permission from the DMS/Chennai Region, the PP shall carry out the scientific studies within a period of one year from the commencement of quarrying operations with prior permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the 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.
- 8) Since waterbodies are situated nearby, the PP shall annually carry out the scientific studies to assess the hydrogeological condition of the quarry after the commencement of mining operations for ensuring the safety of the persons working in the mine and to determine impacts of the mining operation on the ground water conditions in the waterbodies, 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


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

- 9) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 10) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to **assess the slope stability of the working benches** and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 11) The PP shall **annually** carry out an Occupational Health Survey (OHS) in **accordance with the guidelines & period of examination laid in the DGMS (Tech.) (S&T) Circular No. 01 of 2011**, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952 by actively involving State Government officials and Non-Government Organizations (NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual compliance certificate shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 12) As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the Aadhi Dhraavidar Welfare School, Nemili Village, before obtaining CTO from TNPCB.

Agenda No: 462 - 05

(File No: 10738/2024)


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Proposed Rough stone and Quarry lease over an extent of 1.39.0 Ha at S.F.No's: 136/3 & 136/4, Moolakkadu Village, Mettur Taluk, Salem District, Tamil Nadu by Mr. T.Jayakumar – Environment Clearance. (SIA/TN/MIN/464381/2024 dt: 29/02/2024)

The proposal was placed in this 462nd meeting of SEAC held on 26.04.2024. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Rough stone and Quarry lease over an extent of 1.39.0 Ha at S.F.No's: 136/3 & 136/4, Moolakkadu Village, Mettur Taluk, Salem District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification 2006, as amended.
3. The DFO, Salem District vide letter dated 24.04.2024 has reported that this project site is situated at a distance of 5.5 km from Thanthai Periyar Wild Life Sanctuary and located within its Eco sensitive zone.
4. Mettur Dam is located at a distance of 4.1 km from the project site.

During the deliberations, the SEAC have taken a note of the report "Stanley Reservoir in Mettur reaches full capacity, flood alert sounded" published by the District administration during the month of October 2022.

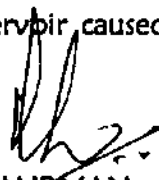
".....with copious rains being experienced in catchment areas of Karnataka, the inflow into Stanley reservoir in Mettur Dam has increased resulting in water level touching 120 feet, the second time in a month, has resulted in administration to sound a flood alert to the people living in the low-lying areas around the Dam and the banks of the Cauvery river. It was due to the discharge of surplus water from 16 sluice gates increased to 28,000 cusecs, as against the inflow of 33,400 cusecs. It was also informed that it was for the 43rd time in the last 85 years the dam is reaching its full capacity level and water availability stands at a higher level of 93.47 TMC...."

During the deliberations, the SEAC have observed the following key points:

1. The Stanley Reservoir is one of the largest of its kind in India with a total capacity of (93.47Tmcft) (2,146,071 acre ft). The creation of the reservoir caused the


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- submersion of two villages, all of whose inhabitants were relocated to Mettur.
2. Activities interfacing with water bodies – river/reservoir will have risk of spillage of chemicals, construction material, and debris leading to water pollution and impacts on fishes.
 3. Activities involving mining machinery and equipments will have impacts on physical environment. Transportation of material, debris disposal and labour movement are likely to generate pollution and impact on physical environment. Pollution of freshwater resources and resulting water scarcity increased by the existence of stone quarries involving blasting operations.
 4. The proposed quarrying operation causing a landslide threat as it is operating on a hillside. Geologically the quarry is planned at the foot hill of a big hill of which a major portion is rock. Already a large quantity of rock has been removed from the bottom of this hill structure in this area through quarrying operations carried out in this village with countless uncontrollable & indiscriminate blasts have made the hill vulnerable to the landslides by weakening its foundation competency.
 5. As per the studies carried out about landslides in similar environmental settings, the rainwater will saturate the soil and later the readily weakened hill structure to make it slide down easily.
 6. The loud noise of heavy machineries such as jack hammer drilling equipments, excavators and trucks along with sudden shocking blasts has spoiled the peaceful atmosphere at this reputed eco-tourism Mettur dam.

7. ACTUAL QUANTUM OF DAMAGE TO ENVIRONMENT:

The SEAC have clearly underlined the following significant points in consonance with the environmental aspects:

“...Whenever polluted air is released in air or polluted water is discharged in water or land, it is bound to cause damage to ecological balance of respective air, water or land. When a drop of ink is mixed in a bucketful of water or a drum, the entire water gets contaminated, degree may differ. Similarly, a small amount of poison, if enters in a bucketful of water or bigger drum, the entire water would get infected. Release of pollutant in environment would cause damage to environment in all


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cases, though degree of impact may differ....”

“...Thus, when we talk of assessment of damage to environment, it does not mean a sheer mathematical computation of such damage. Here assessment includes several aspects as also various principles recognized as part of environmental laws. This aspect can more suitably be demonstrated by referring to law laid by Apex Court in a catena of authorities....”

The SEAC have observed from the case entitled “In Rural Litigation and Entitlement (supra) – Judgement on 30/08/1988” in which the unauthorised and illegal mining in the Mussoorie-Dehradun belt, affecting adversely the ecology and environmental order of the area, were directed to be registered as writ petitions under public interest litigation where Court commented that

“...over thousands of years, man had been successful in exploiting ecological system for his sustenance but with the growth of population, demand for land has increased and forest growth is being cut down. Man has started encroaching upon nature and its assets. Scientific developments have made it possible and convenient for man to approach the places which were hitherto beyond his ken. Consequences of such interference with ecology and environment had now come to be realised. It is necessary that the Himalayas, and Forest growth on mountain range should be left uninterfered with so that there may be sufficient quantity of rain.....”

Further, it is noted that ***“The High Court of Karnataka has banned all types of mining and quarrying activities within a 20-km radius of the historic Krishnarajasagar (KRS) dam in Mandya district.”*** vide an interim order of Case number W.P. No. 19835/2023 dated 08.01.2024 which inter alia that

“(i) All mining licences/leases comprising any area (whether in private land, government land or otherwise) that lies within a radius of 20 Kms from the periphery of KRS Dam are hereby kept under suspended animation, and as a consequence, no mining or allied activities shall be carried on or continued by any person or agency till after a decision is taken by the statutory committee constituted under the provisions of Dam Safety Act, 2021 on the basis of report of study & research, as discussed above.


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(ii) The prohibition of mining or allied activity as directed in the preceding paragraph shall apply to all cases of mining notwithstanding that such activity is being carried on under the orders of this court or of the jurisdictional authority, that were made prior to the date on which the Dam Safety Act, 2021 came into force i.e., 30.12.2021.

(iii) The Authorities such as, the Officials of Dept. of Mines & Geology, Police Dept., Revenue Dept., etc shall enforce the above directions in letter & spirit and criminal cases be filed against the violators. The violation of the said directions shall also be liable to be treated as the contempt of this court.

(iv) The Secretary, Department of Mines & Geology, shall give wide publicity to this order through Print & Electronic Media periodically he shall circulate this order amongst all persons/agencies who hold leases/licences comprising the areas that lie within a radius of 20 kms from the KRS Dam."


Therefore, considering the location of the Mettur Dam structure and the water spread area of reservoir at 4.0 km and 1.7 km from the proposed quarry respectively, by applying principle of 'sustainable development' and 'precautionary principle', the SEAC have refuted the quarrying activities involving the blasting operation within the radius of 5 km from the Mettur reservoir dam. Further, the SEAC have strongly felt that it is not advisable to permit large scale quarrying activities in close vicinity of highly sensitive and greatly significant 'Mettur Dam' which would have an adverse impact on local ecology besides affecting water level below ground and disturbing the hydrology of the area.

Hence, the SEAC dedded not to recommend Environmental Clearance to the proposed quarrying project as mining operation near dams imposes dam safety risks apart from other hazards including the landslide in the hilly terrains, blast-induced ground vibration from the proposed quarrying operations, obstruction of waterflows and loss of stored waters, environmental consequences due to mining, and the structural stability of the Dam.

Agenda No: 462 - 06

(File No: 10745/2024)


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Proposed Rough stone and Gravel Quarry lease over an extent of 4.50.0 Ha at S.F.Nos: 687/1(P) & 695/3(P), Vadakku Ariyanayagipuram Part-I Village, Cheranmahadevi Taluk, Tirunelveli District, Tamil Nadu by M/s.Nellai Stones Private Limited – Environment Clearance. (SIA/TN/MIN/463992/2024 dt:26/02/2024)

The proposal was placed in this 462nd meeting of SEAC held on 26.04.2024. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, **M/s. Nellai Stones Private Limited** has applied seeking **Environment Clearance** for the proposed Rough stone and Gravel Quarry lease over an extent of 4.50.0 Ha at S.F.No's: 687/1(P)&695/3(P), Vadakku Ariyanayagipuram Part-I Village, Cheranmahadevi 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, as amended.

File No	10745		Category	B2
	SIA/TN/MIN/463992/2024 dt:26/02/2024			1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	M/s. Nellai Stones Private Limited No.10/197E, Kamarajar Salai, Pavoorchatram, Kulasekarapatti, Tirunelveli – 627806.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone and Gravel	
3.	S.F Nos. of the quarry site with area break-up	:	S.F.Nos: 687/1(P)&695/3(P)	
4.	Village in which situated	:	Vadakku Ariyanayagipuram Part-I Village	


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5.	Taluk in which situated	:	Cheranmahadevi Taluk
6.	District in which situated	:	Tirunelveli
7.	Extent of quarry (in ha.)	:	4.50.0 ha
8.	Latitude & Longitude of all corners of the quarry site	:	8°44'6.18"N to 8°44'15.56"N 77°33'22.71" E to 77°33'30.51" E
9.	Topo Sheet No.	:	58H/5, 6, 9, 10.
10.	Type of mining	:	Open cast 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 in m ³ (RoM)	:	Rough Stone – 20,24,055 m ³ Gravel – 89,958 m ³
	Minable Resources in m ³ (RoM)	:	Rough Stone – 10,75,170 m ³ Gravel – 77,164 m ³
	Annual Peak Production in m ³	:	Rough Stone – 252970 m ³ Gravel – 77164 m ³
	Maximum Depth in meters	:	47m BGL
13.	Depth of water table	:	60m BGL
14.	Man Power requirement per day:	:	18 Nos
15.	Water requirement: 1. Drinking & domestic purposes (in kLD)	:	5.0 kLD


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	2. Dust suppression, Green Belt & Wet Drilling (in kLD)			
16.	Power requirement		TNEB & DG set	
17.	Precise area communication issued by Dept. of Geology & Mining	:	Rc No. M2/66/2022 Dated 14.11.2023	
18.	Mining Plan approved by Dept. of Geology & Mining	:	Rc No. M2/66/2022 Dated 17.11.2023	
19.	500m Cluster Letter issued by Dept. of Geology & Mining		Rc No. M2/66/2022 Dated 23.11.2023	
20.	VAO Certificate regarding Structures within 300m Radius		Letter dated: 04.01.2024.	
21.	Project Cost (excluding EMP cost)	:	Rs. 90,78,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m ³	Rough Stone – 10,75,170 m ³ Gravel – 77,164 m ³
		:	Annual Max RoM in m ³	Rough Stone – 252970 m ³ Gravel – 77164 m ³
		:	Max Depth in m	47m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital Cost- Rs. 29.22 Lakh Recurring Cost (Total) – Rs.214.33 Lakh (5years)	


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24.	CER cost (in Rs. Lakh).	:	Rs 7.0 Lakh as accepted by the PP
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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 252970 m³ of Rough stone and 77164 m³ of Gravel by maintaining the ultimate depth of mining of 47m BGL for the project life of 5 years (or) expiry date of mine lease but subject to a maximum of thirty years, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022, 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 proponent shall provide the particulars for carrying out the plantation of **2250 Nos.** of tall saplings of native species within and outside the proposed mining area as committed before obtaining CTO from TNPCB.
2. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds.
3. The PP shall develop Green belt of 3 tier plantation all along the mining lease boundary in a safety barrier before obtaining the CTO from the DEE/TNPCB.
4. The PP shall register promptly through online in the **Shram Suvidha Portal** which is the official portal of Ministry of Labour & Employment, Govt of India to obtain Labour Identification Number (LIN) before obtaining the CTO from the TNPCB.
5. The PP shall not employ any external agency for carrying out the blasting operation in the proposed quarry and he shall also install the temporary (or) permanent magazine approved by the concerned licensing authority **before the execution of the lease**, for storage & transportation of the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
6. The PP shall appoint a First Class/Second Class Mine Manager for managing the quarrying operations before the execution of lease and a copy of the appointment shall be sent to the Director of Mines Safety, Chennai Region along with Notice of Opening of the Mine under the provisions of MMR/1961.

7. The proponent shall construct the trench of 1.5 m width and 3 m deep along the lease boundary facing the site where the solar panel is existing before obtaining the CTO from the concerned DEE/TNPCB for controlling the passage of shock waves induced due to blasting operation.
8. Considering the Solar Panel is located within 500m from the lease boundary, the PP shall carry out the blasting operations involving the small hole dia holes of 32-34 mm & 1.5 m depth involving maximum of 30 to 40 holes only in a round at a time with keeping the total aggregate explosive charge/hole is limited to 375g by adopting the Muffle Blasting Technique in accordance with the provisions of MMR 1961.
9. However, keeping aforesaid sensitive structures are located within 500 m, the PP shall carry out the scientific studies **within a period of six months** from the commencement of quarrying operations, to design the controlled blast parameters for different rock formations being encountered to reduce the blast-induced ground & air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines- DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
10. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
11. As a part of monitoring the implementation of eco-friendly blasting operation, the PP shall regularly monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m (near the Solar Panel) and 500m, through a statutory person

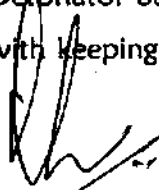

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appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.

12. 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 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
13. To ensure the conditions of occupational safety, health & welfare status of persons working in the mine, the PP shall annually conduct occupational health survey to determine prevalence of Noise Induced Hearing Loss (NIHL) due to the operation of Diamond Wire Saw cutting & other HEMMs deployed in the mine and to prepare a plan for hearing conservation programme by involving anyone of the reputed institutes - Regional Occupational Health Centre (Southern) of ICMR-National Institute of Occupational Health, Bengaluru, National Institute of Miners' Health, Nagpur and Anna University, Chennai.
14. The PP shall properly provide all the required welfare amenities near quarry such as Drinking water, Rest Shelter, Canteen, Toilets, etc for the persons to be employed in the proposed quarry before the execution of lease, in accordance with the provisions of the Mines Rules, 1955.
15. The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
16. The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the


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

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

As accepted by the Project Proponent the CER cost of Rs.7.0 lakh to be spent for the committed activities at Panchayat Union Primary School, Nerinjikorai Village, Ariyalur Taluk before obtaining CTO from TNPCB.

Agenda No: 462 - 07

(File No: 10752/2024)

Proposed Ordinary Earth Quarry lease over an extent of 3.13.0 Ha at S.F.Nos: 564/1(P) and 565/2A, Erwadi Village, Keelakkarai Taluk, Ramanathapuram District, Tamil Nadu by Thiru.V. Manikandan – Environment Clearance. (SIA/TN/MIN/464896/2024 dt: 04.03.2024)

The proposal was placed in this 462nd meeting of SEAC held on 26.04.2024. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.V. Manikandan has applied seeking Environment Clearance for the proposed Ordinary Earth Quarry lease over an extent of 3.13.0Ha at S.F.Nos:564/1(P) and 565/2A, Erwadi Village, Keelakkarai Taluk, Ramanathapuram District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification 2006, as amended.
3. Soil test report dated 06.03.2024
4. AD/Mines Lr. No. Rc No. 17/G&M/2024, dated 01.03.2024 regarding proximity of water bodies.

File No	10752 SIA/TN/MIN/464896/2023	Category	B2 1(a)
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Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. V. MANIKANDAN S/o.Vadivelu, No.2/1199, 5th Street, Om Shakthi Nagar, Pattinamkathan Post, Ramanathapuram Taluk & District-623503
2.	Type of quarrying (Ordinary Stone/Sand/Granite/ Limestone)	:	Ordinary Earth
3.	S.F Nos. of the quarry site with area break-up	:	S.F.Nos. 564/1(P) and 565/2A
4.	Village in which situated	:	Erwadi Village
5.	Taluk in which situated	:	Keelakkarai Taluk
6.	District in which situated	:	Ramanathapuram
7.	Extent of quarry (in ha.)	:	3.13.0 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	9°13'30.23"N to 9°13'19.97"N 78°43'23.37" E to 78°43'17.49" E
9.	Topo Sheet No.	:	58K/12
10.	Type of mining	:	Open cast mechanized mining
11.	Life of Project	:	1 year
	Lease Period	:	1 year
	Mining Plan Period	:	1 year
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources in m ³ (RoM)	:	Ordinary Earth – 62,534 m ³
	Minable Resources in m ³ (RoM)	:	Ordinary Earth – 50,242 m ³
	Annual Peak Production in m ³	:	Ordinary Earth – 50,242 m ³
			As modified by SEAC

	Maximum Depth in meters	:	2m BGL	
13.	Depth of water table	:	15m BGL	
14.	Man Power requirement per day:	:	11 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 0.2 kLD	
16.	Power requirement	:	TNEB & DG Set	
17.	Precise area communication issued by Dept. of Geology & Mining	:	Rc No. 17/G&M /2024 Dated 23.02.2024	
18.	Mining Plan approved by Dept. of Geology & Mining	:	Rc No. 17/G&M/2024, dated 01.03.2024	
19.	500m Cluster Letter issued by Dept. of Geology & Mining	:	Rc No. 17/G&M/2024, dated 01.03.2024	
20.	VAO Certificate regarding Structures within 300m Radius	:	Letter dated: 03.03.2024	
21.	Project Cost (excluding EMP cost)	:	Rs. 27 Lakh	
22.	EC Recommendation	:	Validity	1 year subject to the following upper limits. Ordinary Earth
		:	Max Total RoM in m ³	50242
		:	Annual Max RoM in m ³	50242


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		: Max Depth in m	2m BGL
23.	EMP cost (in Rs. Lakh).	: Rs. 13,91,500 /-	
24.	CER cost (in Rs. Lakh).	: Rs 3 Lakh as accepted by the PP	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 50242m³ of Ordinary Earth by maintaining the ultimate depth of mining upto 2 m below ground level for the project life of one year from the date of lease execution and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

1. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
2. The PP shall install the tall wind sheets around the lease boundary directing the structures located nearby and water shall be sprayed frequently to arrest the dust pollution.
3. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
4. The PP shall carry out the required number of plantations as committed in the EMP without deviation before obtaining the CTO from the TNPCB.
5. The PP shall not carry out drilling & blasting operations in the proposed quarry.
6. The PP shall install a bio-toilet for the convenience of the workmen before obtaining the CTO from the TNPCB.
7. The PP shall carry out the backfilling of the mined out void area with the waste excavated from the quarrying operation simultaneously for developing suitable plantation as indicated in the EMP.
8. As accepted by the Project Proponent the CER cost of Rs. 3 Lakh and the amount shall be spent for the committed activities at Government Higher Secondary School, Erwadi Village before obtaining CTO from TNPCB.

Agenda No: 462 - 08


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(File No: 10758/2024)

Propose Rough stone and Quarry lease over an extent of 2.42.9 Ha at S.F.No's: 56/1A, 56/1B, 56/2, 56/3A, 56/3B, 57/7, 57/8, 57/9(P), 57/10, 57/11, 57/12, 57/13, 57/14, 57/15, 57/16, 57/17, 57/18, 57/19, 57/20, 57/21 & 57/22, Vadakku Palayaseevaram – B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu by Thiru J. Janakiraman Jagadeesan – Environment Clearance. (SIA/TN/MIN/465095/2024 dt: 06/03/2024)

The proposal was placed in this 462nd meeting of SEAC held on 26.04.2024. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Rough stone and Quarry lease over an extent of 2.42.9Ha at S.F.No's: 56/1A, 56/1B, 56/2, 56/3A, 56/3B, 57/7, 57/8, 57/9(P), 57/10, 57/11, 57/12, 57/13, 57/14, 57/15, 57/16, 57/17, 57/18, 57/19, 57/20, 57/21 & 57/22, Vadakku Palayaseevaram – B Village, Walajabad Taluk, Kancheepuram 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.

Based on the presentation and documents furnished by the PP, the SEAC decided to seek the following additional particulars:

Based on the presentation and documents furnished by the project proponent, SEAC decided to defer seeking following additional particulars:

1. The PP shall submit the **Certified Compliance Report (CCR)** obtained from IRO (SZ), MoEF&CC for the current EC dated. 21.10.2020 and also to furnish mitigation measures/remedial action plan with the budget allocation for the non-compliance stated in the CCR.
2. The PP shall furnish the details of buffer zone recommended in the existing EC and that provided by the PP.
3. Photographs & Drone Video showing the details of pits proposed for merger and also fencing and green belt plantation with native tree saplings with highest carbon sequestration potential (like Peepal Tree (or) Ficus Religiosa) in the


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mining area.

4. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) to stipulate the following information:
- i. Original pit dimension of the existing quarry
 - ii. Quantity achieved Vs EC Approved Quantity
 - iii. Balance Quantity as per Mineable Reserve calculated.
 - iv. Month wise Production details
 - v. Mined out Depth as on date Vs EC Permitted depth
 - vi. Details of illegal/illicit mining carried out, if any
 - vii. Non-compliance/Violation in the quarry during the past working.
 - viii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
 - ix. Existing condition of Safety zone/benches
 - x. Details of any penalties levied on the PP for any violation in the quarry operation by the Department of Geology and Mining.

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

Agenda No: 462 - 09

(File No.10753/2024)

Proposed Rough Stone & Gravel quarry Lease over an extent of 1.72.10 Ha at S.F.Nos. 24/1B(P), 24/2(P), 24/3A(P) and 24/4(P) of Madavanthangal Village, Marakkanam Taluk, Viluppuram District, Tamil Nadu by Tvl. Sri Balaji Blue Metals and M-Sand – For Environmental Clearance. (SIA/TN/MIN/464910/2024 dated: 04.03.2024)

The proposal was placed in the 462nd meeting of SEAC held on 26.04.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Tvl. Sri Balaji Blue Metals and M-Sand has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry Lease over an extent of 1.72.10 Ha at S.F.Nos. 24/1B(P), 24/2(P), 24/3A(P) and 24/4(P) of Madavanthangal Village, Marakkanam Taluk, Viluppuram District, Tamil Nadu.


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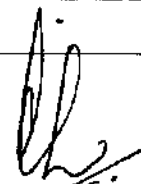
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2. The project/activity is covered under Category "B2" of item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The distance of nearest habitation is at 320m from the proposed project site.
4. The salient features of the proposal are as follows:

File No	10753/2024		Category	B2	
	464910/2024			1(a)	
Sl. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm	:	Tvl. Sri Balaji Blue Metals and M-Sand. No. 33/8, Mailam Road, Indira Nagar, Tindivanam, Viluppuram District – 604 001.		
2.	Type of quarrying	:	Rough Stone & Gravel quarry		
3.	S.F Nos. of the quarry site	:	24/1B(P), 24/2(P), 24/3A(P) and 24/4(P)		
4.	Village in which situated	:	Madavanthangal		
5.	Taluk in which situated	:	Marakkanam		
6.	District in which situated	:	Viluppuram		
7.	Extent of quarry (in ha.)	:	1.72.10Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	12°13'07.92"N to 12°13'14.33"N 79°46'59.34"E to 79°47'05.76"E		
9.	Topo Sheet No.	:	57 P/16		
10.	Type of mining	:	Open Cast Mechanized Mining		
11.	Life of Projects	:	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 m ³ (RoM)	:	Rough Stone – 6,05,325m ³	-	
		:	Gravel – 34,590m ³	-	


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	Minable Resources m ³ (RoM)	Rough Stone –	-
		1,89,590m ³	
	Annual Peak Production in m ³	Gravel 25,368m ³	-
		Rough Stone –	-
Maximum Depth in meters	22,640m ³		
	Gravel – 10,920m ³	-	
	37m Below Ground	-	
	Level		
13.	Depth of water table	: 50m BGL	
14.	Man Power requirement per day:	: 21 Nos.	
15.	Water requirement:	2.5 KLD	
	1. Sanitation & Drinking	0.5 KLD	
	2. Dust suppression	1.0 KLD	
	3. Green Belt	1.0 KLD	
16.	Power requirement	: 81,014 Litres of HSD	
17.	Precise area communication approved by the Assistant Director, Dept. of G&M	: Rc.No.A/G&M/78/2023, dated:20.12.2023.	
18.	Mining Plan approved by the Deputy Director, Dept. of Geology & Mining.	: Rc.No.A/G&M/78/2023, dated:09.02.2024.	
19.	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	: Rc.No.B/G&M/78/2023, dated:09.02.2024.	
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Dated: 02.02.2024.	


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21.	Project Cost (excluding EMP cost)	:	Rs. 72,09,000/-			
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.		
				Rough Stone	Gravel	
		:	Max Total RoM	95,090m ³	25,368m ³	
		:	Annual Max RoM	22,640m ³	10,920m ³	
		:	Max Depth in mtrs	37m Below Ground Level		
23.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 23,24,670/- Recurring Cost – Rs. 13,62,446/-			
24.	CER cost (in Rs. Lakhs).	:	Rs. 5,00,000 /-			

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity shall not exceed 22,640m³ of Rough stone & 10,920m³ of Gravel for the ultimate depth of mining up to 37m BGL for the project life of 10 years (or) expiry date of mine lease but subject to a maximum of thirty years, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022 and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 2) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
- 3) The PP shall register promptly through online in the Shram Suvidha Portal which is the official portal of Ministry of Labour & Employment, Govt of India to


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obtain **Labour Identification Number (LIN)** before obtaining the CTO from the TNPCB.

- 4) For ensuring the safe and systematic mining operations, the PP shall send the 'Notice of Opening' indicating the appointment of **First Class/Second Class Mine Manager** for managing the quarrying operations and the proposed usage of HEMM shall be sent to the Director of Mines Safety, Chennai Region of the Mine under the provisions of MMR 1961 atleast 30 days before the commencement of the mining operation immediately after the execution of lease with district authority.
- 5) The PP shall install the highwall sheets along the boundary of mine lease before obtaining the CTO from the TNPCB for reducing the air-borne dust produced from the mine.
- 6) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 7) Since the structures are situated within a radial distance of 500 m, the PP shall carry out only one blast per day with muffle technique, for not more than 30 to 40 holes in a round, with maximum charge of 375g/hole.
- 8) However, after obtaining necessary permission from the DMS/Chennai Region, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations with prior permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the 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.

- 9) Since the villages & sensitive structures are located within 500 m, as a part of monitoring the implementation of eco-friendly blasting operation, the PP shall monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 200m, 300m, and 500 m and the fly rock level produced through capturing a video image **once in six months**, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT (ISM) - Dhanbad, and Anna University Chennai-CEG Campus, etc. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 10) **Since more waterbodies are situated nearby**, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry during the second year of mining operations for ensuring the safety of the persons working in the mine and to determine impacts of the mining operation on the ground water conditions in the waterbodies, 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 Region as a part of Environmental Compliance without any deviation.
- 11) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.


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- 12) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 13) The PP shall annually carry out an Occupational Health Survey (OHS) in accordance with the guidelines & period of examination laid in the DGMS (Tech.) (S&T) Circular No. 01 of 2011, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952 by actively involving State Government officials and Non-Government Organizations (NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual compliance certificate shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 14) The PP shall develop Green belt/plantation all along the mining lease boundary in a safety barrier & fencing around the mine lease area before obtaining the CTO from the DEE, TNPCB.
- 15) As accepted by the Project Proponent the CER cost of Rs.5 Lakhs and the amount shall be spent for the Panchayat Union Middle School, Endur Village, Viluppuram District before obtaining CTO from TNPCB.

Agenda No: 462 - 10

(File No.10759/2024)

Proposed Rough Stone and Gravel Quarry Lease over an extent of 2.88.50 Ha at S.F.Nos. 974, 975/1 & 976 of Thamaraikulam Bit-1 Village, Periyakulam Taluk, Theni District, Tamil Nadu by Thiru. K. Bose – For Environmental Clearance.

(SIA/TN/MIN/465139/2024 dated: 06.03.2024)


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The proposal was placed in the 462nd meeting of SEAC held on 26.04.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, **Thiru. K. Bose** has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry Lease over an extent of 2.88.50 Ha at S.F.Nos. 974, 975/1 & 976 of Thamaraikulam Bit-1 Village, Periyakulam 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.

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

- 1) The PP shall complete tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area and shall furnish evidences for the same.
- 2) The proponent shall revise the EMP by incorporating provisions for mine closure plan.
- 3) The proponent shall furnish revised CER details.

On receipt of the same, further deliberations shall be done.

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

Agenda No: 462 - 11

(File No.10765/2024)

Existing Grey Granite Quarry Lease over an extent of 2.02.50 Ha at S.F.Nos. 1022(P), 1023/2(P), 1024/2(P) & 1028(P) of Puligunda Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Mr. T. R. Duraiselvam – For Environmental Clearance.

(SIA/TN/MIN/465888/2024 dated: 14.03.2024)

The proposal was placed in the 462nd meeting of SEAC held on 26.04.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:


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1. The Project Proponent, **Mr. T. R. Duraiselvam** has applied for Environmental Clearance for the Existing Grey Granite Quarry Lease over an extent of 2.02.50 Ha at S.F.Nos. 1022(P), 1023/2(P), 1024/2(P) & 1028(P) of Puligunda Village, Bargur Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Previously, the proponent has obtained Environmental Clearance vide Lr.No.SEIAA-TN/F.No.9722/1(a)/EC.No: 5778/2023 dated: 16.05.2023 for the Existing Grey Granite quarry for a quantity of ROM – 3,000m³, Grey Granite 1,200 m³ @ 40% recovery & Granite Waste – 1,800 m³ @ 60% waste up to a depth of 28m BGL.
4. Subsequently, the proponent applied in Form-4 for the following amendment in EC dated.16.05.2023 vide Proposal No. SIA/TN/MIN/306829/2023, Dated: 30.11.2023:

S. no	Reference of Approved EC	Description as per Approved EC	Description as per Proposal.	Remarks
1	Lr.No.SEIAA-TN/F.No.9722/1(a)/EC.No:5778/2023, Dated: 16.05.2023	ROM - 3000cubic metre	ROM - 80718Cubic metre	In TNPCB Hosur THE CTO issued for one year

5. The amendment request of the proponent was placed in the 451st SEAC meeting held on 13.03.2024. During the presentation, PP requested for amending the earlier Environmental Clearance issued vide Lr.No.SEIAA-TN/F.No.9722/1(a)/EC.No: 5778/2023 dated: 16.05.2023 for the planned total excavation quantity of RoM - 80,718 Cbm with an annual peak production capacity of RoM - 16,626 Cbm as approved by the competent authority, against the earlier EC approved quantity of ROM – 3,000m³, with Grey Granite 1,200 m³ @ 40% recovery & Granite Waste – 1,800 m³ @ 60% waste.

SEAC after examination, concluded that the proponent's request to grant


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amendment for the earlier issued Environmental Clearance cannot be considered since there is an increase in the production capacity of RoM and therefore, the proposal falls under expansion category under para 7(ii) of EIA Notification, 2006 which clearly states that

"...while enumerating the process for prior EC process for expansion or modernization or change of mix in existing projects states that all applications seeking prior environmental clearance for expansion with increase in the production capacity beyond the capacity for which prior EC has been granted under this notification or with increase in either lease area or production capacity in case of mining projects or for the modernization of an existing unit with increase in the total production capacity beyond threshold limit prescribed in the Schedule of the notification shall be made in Form I..."

It is submitted that MoEF & CC has been continuously making efforts to streamline the procedure for projects seeking Environmental Clearance (EC) under the different provisions of para 7(ii) of the EIA Notification 2006 without compromising on the environmental rigors. In pursuance of the same to streamline the procedure for seeking prior EC under the different of para 7(ii) of the EIA Notification, 2006, the Ministry had issued guidelines for expansion of coal mining projects up to 40% capacity in two - three phases vide OM dated 15/09/2017 subject to certain conditions and for expansion of Iron, Manganese, Bauxite and Limestone mining projects up to 20% subject to certain conditions vide OM dated 20/10/2021.

Thereafter, the Ministry further examined the OM dated 15/09/2017 and 20/10/2021 with the objective of bringing about uniformity and consistency in consideration of projects under para 7 (ii)(a) by concerned EAC/ SEACs across all states. Para 7(ii)(a) of the EIA Notification provides:

"7(ii)(a) All applications seeking prior environmental clearance for expansion with increase in the production capacity beyond the capacity for which prior environmental clearance has been granted under this notification or with increase in either lease area or production capacity in the case of mining projects or for the


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modernisation of an existing unit with increase in the total production capacity beyond the threshold limit prescribed in the Schedule to this notification through change in process and or technology or involving a change in the product -mix be made in Form I and they shall be considered by the concerned Expert Appraisal Committee or State Level Expert Appraisal Committee within sixty days, who will decide on the due diligence necessary including preparation of Environment Impact Assessment and public consultations and the application shall be appraised accordingly for grant of environmental clearance...”

“...with the objective of bringing about uniformity and consistency in consideration of projects under para 7 (ii)(a) by concerned EAC/ SEACs across all states, the Ministry vide OM dated 11/04/2022 issued guidelines to deal with expansion proposals which are received under para 7(ii)(a) of EIA Notification, 2006 in respect of the developmental projects listed in the Schedule to the said notification seeking prior-EC involving expansion with increase in production capacity within the existing premises/ mine lease area, subject to the fulfillment of certain conditions which inter-alia include:

- (i) The project should have gone through the public hearing process, at least once, for its existing EC capacity on which expansion is being sought, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments...”*

In the view of the above, the proponent was requested to apply afresh under expansion category in PARIVESH portal with necessary relevant documents including a copy of letter obtained from the concerned AD (Mines) stating the reasons for relatively higher enhancement of ROM quantity from 3000 m³ to 80718 m³ without changing the extent of the area and the pit geometry / dimension, as indicated in the approved Mining Plan and shall withdraw this application (SIA/TN/MIN/306829/2023, Dated: 30.11.2023).

6. Subsequently, the proponent submitted a fresh application in Form – 2 vide Proposal No. SIA/TN/MIN/465888/2024 dated: 14.03.2024 which is placed in this 462nd SEAC meeting for appraisal.


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

File No	10765/2024	Category	B2
	465888/2024		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Mr. T. R. Duraiselvam, S/o. T. D. Ramamurthy. Thogarapalli Village & Post, Bargur Taluk, Krishnagiri District – 635 203.
2.	Type of quarrying	:	Grey Granite Quarry
3.	S.F Nos. of the quarry site	:	1022(P), 1023/2(P), 1024/2(P) & 1028(P)
4.	Village in which situated	:	Puligunda
5.	Taluk in which situated	:	Bargur
6.	District in which situated	:	Krishnagiri
7.	Extent of quarry (in ha.)	:	2.02.50 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	12°25'59.71"N to 12°26'04.93"N 78°21'32.08"E to 78°21'38.70"E
9.	Topo Sheet No.	:	57 L/07
10.	Type of mining	:	Opencast Semi-Mechanized Mining
11.	Life of Projects	:	10 years
	Lease Period	:	20 years
	Mining Plan Period	:	20 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Updated Geological Resources m ³ (RoM)	:	As modified by SEAC RoM- 5,22,450m ³ which includes Recovery of 2,08,980m ³ (@40%) & 3,13,470m ³ of rejects (@60%)


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	Updated Minable Resources m ³ (RoM)	RoM- 2,05,319m ³ which includes Recovery of 82,128m ³ (@40%) & 1,23,191m ³ of rejects (@60%)	-
	Annual Peak Production in m ³	RoM- 16,626m ³ which includes Recovery of 6650m ³ (@40%) & 9976m ³ of rejects (@60%)	-
	Maximum Depth in meters	: 33m Below Ground Level	-
13.	Depth of water table	: 50m - 55m	
14.	Man Power requirement per day:	: 21 Nos.	
15.	Water requirement: 1. Drinking & Domestic Purpose 2. Dust suppression 3. Green Belt	: 2.9 KLD 0.9 KLD 1.0 KLD 1.0 KLD	
16.	Power requirement	: 1,29,152 Litres of HSD	
17.	Lease sanctioned by the Principal Secretary to Govt., Industries department	: G.O(3D) No.16 Industries (MME.2) Department dated.26.05.2014.	
18.	Mining Plan approved by the Commissioner, Dept. of Geology & Mining.	: Rc.No.6566/MM4/2023, dated:03.11.2023.	
19.	500m cluster letter issued by the Deputy Director, Dept. of	: Roc.No.1061/2018/Mines, dated:05.01.2023.	

	Geology and Mining with date		
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 28.12.2022.
21.	Project Cost (excluding EMP cost)	:	Rs. 46,89,000/-
22.	EC Recommendation	:	Validity
			30 years subject to the following upper limits. Grey Granite
		:	Max Total RoM in m ³
			RoM- 80,718m ³ which includes Recovery of 32,287m ³ (@40%) & 48,431m ³ of rejects (@60%)
:	Annual Max RoM in m ³		RoM- 16,626m ³ which includes Recovery of 6650m ³ (@40%) & 9976m ³ of rejects (@60%)
:	Max Depth in mtrs		33m Below Ground Level
23.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 124.41 Lakhs Recurring Cost – Rs. 3.69 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 not exceeding 16,626 m³ ROM by maintaining the ultimate depth of mining up to 33m below ground level for the project life of 10 years (or) expiry date of mine lease but subject to a maximum of thirty years, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022 and subject to the standard conditions as per the Annexure I of this

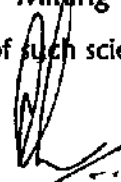

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minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

- 1) The PP shall register promptly through online in the Shram Suvidha Portal which is the official portal of Ministry of Labour & Employment, Govt of India to obtain Labour Identification Number (LIN) before obtaining the CTO from the TNPCB.
- 2) The PP shall ensure the safety provisions as stipulated in the DGMS Circular No:02, dated. 29.11.2019 while using the Diamond Wire Saw machines in the proposed quarry operation.
- 3) The PP shall adopt only non-explosive technique (Rock Breaking Compounds) for the fracturing of granite blocks ensuring the eco-friendly mining operation in the proposed quarry.
- 4) To ensure the conditions of occupational safety, health & welfare status of persons working in the mine, the PP shall annually conduct occupational health survey to determine prevalence of Noise Induced Hearing Loss (NIHL) due to the operation of Diamond Wire Saw cutting & other HEMMs deployed in the mine and to prepare a plan for hearing conservation programme by involving anyone of the reputed institutes - Regional Occupational Health Centre (Southern) of ICMR-National Institute of Occupational Health, Bengaluru, National Institute of Miners' Health, Nagpur and Anna University, Chennai.
- 5) The PP shall properly provide all the required welfare amenities near quarry such as Drinking water, Rest Shelter, Canteen, Toilets, etc for the persons to be employed in the proposed quarry before the execution of lease, in accordance with the provisions of the Mines Rules, 1955.
- 6) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific


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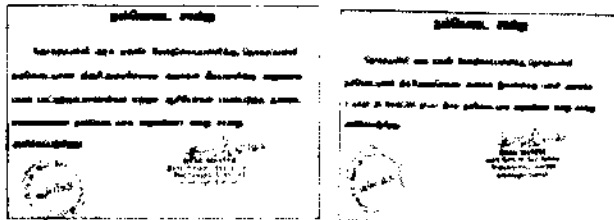

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study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 7) The PP shall annually carry out the Anna University-Star Rating process for the sustainable mining which will be awarded by the Department of Mining Engineering Anna University Chennai and Rs. 1 lakhs shall be paid for carrying out the process for the year of 2024-2025 to the Dept. of Mining Engg., Anna University Chennai before the execution of the lease.
- 8) The PP shall submit the Progressive Mine Closure & Final Mine Closure Conceptual Plans to the AD (Mines) at the time of lease execution for carrying out the implementations as stipulated in the prescribed EMP without deviation.

CORPORATE ENVIRONMENT RESPONSIBILITY

- The Project Proponent **Mr.T.R. DURAISELVAM**, spent Rs. 7.5 Lakhs CER for Government Girls Higher Secondary School – ~~Thozhupalli~~ Village last year and obtained CTO.



Agenda No: 462- 12

(File No: 10741/2023)


Proposed Rough stone & Gravel quarry lease over an extent of 3.79.00Ha at SF.Nos. 1081/1, 1081/2, 1082/1 & 1082/2 of Aniyaparanallur Village, Srivaikundam Taluk, Thoothukkudi District, Tamil Nadu by Thiru. G. Devakanagaraj- For Environmental Clearance. (SIA/TN/MIN/463625/2024, Dated:21.02.2024)

The proposal was placed in the 462nd meeting of SEAC held on 26.04.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. G. Devakanagaraj has applied for Environmental Clearance for the Proposed Rough stone & Gravel quarry lease over an extent of 3.79.00Ha at SF.Nos. 1081/1, 1081/2, 1082/1 & 1082/2 of Aniyaparanallur


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Village, Srivaikundam Taluk, Thoothukkudi 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.

File No	10741/2024		Category	B2
	SIA/TN/MIN/463625/2024, Dated:21.02.2024			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	Thiru. G. Devakanagaraj S/o. Ganapathisamy : No.3/27, Savarimangalam, Ottapidaram Taluk, Thoothukkudi District- 628 301.		
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	: 1081/1, 1081/2, 1082/1 & 1082/2		
4.	Village in which situated	: Aniyaparanallur		
5.	Taluk in which situated	: Srivaikundam		
6.	District in which situated	: Thoothukkudi		
7.	Extent of quarry (in ha.)	: 3.79.00Ha		
8.	Latitude & Longitude of all corners of the quarry site	: 8°42'01.5625"N to 8°42'11.1099"N 77°57'06.5010"E to 77°57'16.4912"E		
9.	Topo Sheet No.	: 58- H/14		
10.	Type of mining	: Opencast mechanized Mining		
11.	Life of Project	: 5 Years		
	Lease Period	: 5 Years		
	Mining Plan Period	: 5 Years		
12.	Mining Plan Details	: As per approved Mining Plan		

		Rough stone	Gravel
	Geological Resources m ³	: 17,05,500m ³	75,800m ³
	Minable Resources m ³	: 2,74,865m ³	34,340m ³
	Annual Peak Production in m ³	: 56,800m ³	13,988m ³
	Maximum Depth in meters	: 47m BGL	
13.	Depth of water table	: 51-56m BGL	
14.	Man Power requirement per day:	: 39 Employees	
15.	Water requirement:	2.4 KLD	
	1. Drinking water & Utilized water	: 0.7 KLD	
	2. Dust suppression	: 0.9 KLD	
	3. Green belt	: 0.8 KLD	
16.	Power requirement	: TNEB 2.25,608 Liters of HSD for the entire life.	
17.	Precise area communication approved by the Assistant Director, Department of G&M.	: Roc.No.G.M.1/487/2023, Dated:23.01.2024.	
18.	Mining Plan approved by the Assistant Director, Department of G&M.	: Roc.No.G.M.1/487/2023, Dated:09.02.2024.	
19.	500m Cluster Letter approved by the Assistant Director, Department of G&M.	: Roc.No.G.M.1/487/2023, Dated:09.02.2024.	
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Furnished Dated: Nil.	


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21.	Project Cost (excluding EMP cost)	:	Rs.95,71,000/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough stone	Gravel
		:	Max Total in m ³	2,74,865m ³	34,340m ³
		:	Annual Max in m ³	56,800m ³	13,988m ³
		:	Max Depth in mtrs	47m BGL	
23.	EMP cost (in Rs. Lakh).	:	Rs.124 Lakhs		
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak RoM production capacity not exceeding 56,800 m³ of Rough stone and 13,988 m³ of Gravel by maintaining the restricted ultimate depth of mining of 47m BGL for the project life of 5 years (or) expiry date of mine lease but subject to a maximum of thirty years, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022 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) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
- 2) The PP shall register promptly through online in the Shram Suvidha Portal which is the official portal of Ministry of Labour & Employment, Govt of India to obtain Labour Identification Number (LIN) before obtaining the CTO from the TNPCB.
- 3) For ensuring the safe and systematic mining operations, the PP shall send the 'Notice of Opening' indicating the appointment of First Class/Second Class Mine

Manager for managing the quarrying operations and the proposed usage of HEMM shall be sent to the Director of Mines Safety, Chennai Region of the Mine under the provisions of MMR 1961 atleast 30 days before the commencement of the mining operation immediately after the execution of lease with district authority.

- 4) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storage & transportation of the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008..
- 5) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 6) Considering the habitations are located at a distance of 800 m from the lease boundary, the PP shall carry out the blasting operations involving the small hole dia holes of 32-34 mm & 1.5 m depth involving maximum of 30 to 40 holes only in a round at a time with keeping the total aggregate explosive charge/hole is limited to 375g by adopting the Muffle Blasting Technique in accordance with the provisions of MMR 1961.
- 7) Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA,


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

- 8) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 9) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry walls in a hilly terrain within a period of six months from the commencement of mining operations for **evaluating the slope stabilization & protective measures while designing the proposed benches**, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 10) As a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – 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.


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- 11) As accepted by the Project Proponent the CER cost is **Rs. 5 Lakhs** and it shall be spent for Renovation /Restoration of water bodies within the Vallanadu Black Buck Sanctuary before obtaining CTO from TNPCB.

Agenda No: 462- 13

(File No: 10746/2024)

Proposed Multi colour Granite quarry lease over an extent of 2.93.5Ha at SF.Nos. 164/3A & 170/3 of S.Mampatti Village, Singampunari Taluk, Sivagangal District, Tamil Nadu by Thiru. H. Ghouse Mohideen - For Environmental Clearance.

(SIA/TN/MIN/464508/2024, Dated:01.03.2024)

The proposal was placed in the 462nd meeting of SEAC held on 26.04.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.H.Ghouse Mohideen has applied for Environmental Clearance for the Proposed Multi colour Granite quarry lease over an extent of 2.93.5Ha at SF.Nos. 164/3A & 170/3 of S.Mampatti Village, Singampunari Taluk, Sivagangai 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.

File No	10746/2023	Category	B2
No	SIA/TN/MIN/464508/2024, Dated:01.03.2024		
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	Thiru. H. Ghouse Mohideen S/o. M.A. Hamid, : No. A9/2, Meenakshi Apartments, 80 Feet Road, Anna Nagar, Madurai District – 625 020.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	: Multi Colour Granite	
3.	S.F Nos. of the quarry site with area break-up	: 164/3A & 170/3	


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4.	Village in which situated	: S.Mampatti
5.	Taluk in which situated	: Singampunari
6.	District in which situated	: Sivagangai
7.	Extent of quarry (in ha.)	: 2.93.5Ha
8.	Latitude & Longitude of all corners of the quarry site	: 10°02'07.7170"N to 10°02'15.7714"N 78°29'27.8884"E to 78°29'35.8099"E
9.	Topo Sheet No.	: 58-J/08
10.	Type of mining	: Opencast mechanized Mining
11.	Life of Project	: 20 Years
	Lease Period	: 20 Years
	Mining Plan Period	: 20 Years
12.	Mining Plan Details	: As per approved Mining Plan
	Geological Resources m ³	: 13,20,750m ³ of ROM, 4,62,263m ³ of Recovery@35%, 8,58,488m ³ of Granite waste@65% & 29,350m ³ of Topsoil.
	Minalable Resources m ³	: 2,80,825m ³ of ROM, 98,289m ³ of Recovery@35%, 1,82,536m ³ of Granite waste@65% & 14,932m ³ of Topsoil.
	Annual Peak Production in m ³	: 14,640m ³ of ROM, 5,124m ³ of Recovery@35%, 9,516m ³ of Granite waste@65% & 4,161m ³ of Topsoil.
	Maximum Depth in meters	: 31m BGL
13.	Depth of water table	: 64m BGL
14.	Man Power requirement per day	: 37 Employees
15.	Water requirement:	2.2 KLD
	1. Drinking water & Utilized water	: 0.6 KLD

	2. Dust suppression 3. Green belt	0.9 KLD 0.7 KLD						
16.	Power requirement	TNEB : 1,12,240 Litres of HSD for the entire life.						
17.	Precise area communication approved by the Additional Chief Secretary to Government (FAC), Natural Resources (MME.2) Department.	: Letter. No. 7282 / MME.2 / 2022-1, Dated: 07.09.2023.						
18.	Mining Plan approved by the Commissioner, Department of G&M.	: Rc.No.8725/MM2/2021, Dated:26.01.2024.						
19.	500m Cluster Letter approved by the Deputy Director, Department of G&M.	: Rc. No.M2/277/2017, Dated:14.02.2024.						
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Dated:30.04.2023.						
21.	Project Cost (excluding EMP cost)	: Rs.3,42,95,000/-						
22.	EC Recommendation	<table border="1"> <tr> <td>Validity</td> <td>30 years subject to the following upper limits.</td> </tr> <tr> <td>Max Total in m³</td> <td>70,150m³ of ROM, 24,553m³ of Recovery@35%, 45,597m³ of Granite waste@65% & 7,446m³ of Topsoil.</td> </tr> <tr> <td>Annual Max in m³</td> <td>14,640m³ of ROM, 5,124m³ of Recovery@35%.</td> </tr> </table>	Validity	30 years subject to the following upper limits.	Max Total in m ³	70,150m ³ of ROM, 24,553m ³ of Recovery@35%, 45,597m ³ of Granite waste@65% & 7,446m ³ of Topsoil.	Annual Max in m ³	14,640m ³ of ROM, 5,124m ³ of Recovery@35%.
Validity	30 years subject to the following upper limits.							
Max Total in m ³	70,150m ³ of ROM, 24,553m ³ of Recovery@35%, 45,597m ³ of Granite waste@65% & 7,446m ³ of Topsoil.							
Annual Max in m ³	14,640m ³ of ROM, 5,124m ³ of Recovery@35%.							


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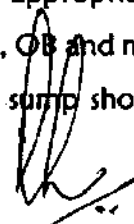

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			9,516m ³ of Granite waste@65% & 4,161m ³ of Topsoil.
		Max Depth : in mtrs	31m BGL
23.	EMP cost (in Rs. Lakh).	:	Rs.514 Lakhs
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for Annual Peak excavation quantity of not exceeding 14,640 m³ of RoM with maintaining an ultimate pit depth of 31m BGL for the project life of 20 years (or) expiry date of mine lease but subject to a maximum of thirty years, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022 and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


1. The PP shall ensure that the plantation shall be carried out in a phase manner as a part of mine closure activities spelt out in the progressive mine closure plan.
2. The PP shall register promptly through online in the Shram Suvidha Portal which is the official portal of Ministry of Labour & Employment, Govt of India to obtain Labour Identification Number (LIN) before obtaining the CTO from the TNPCB.
3. Further, the PP shall send the 'Notice of Opening' indicating the appointment of First Class/Second Class Mine Manager for managing the quarrying operations and the proposed usage of HEMM shall be sent to the Director of Mines Safety, Chennai Region of the Mine under the provisions of MMR 1961 atleast 30 days before the commencement of the mining operation immediately after the execution of lease with district authority.
4. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be

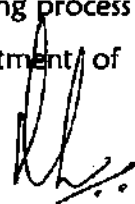

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utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained properly.

5. The PP shall ensure the safety provisions as stipulated in the DGMS Circular No:02, dated. 29.11.2019 while using the Diamond Wire Saw machines in the proposed quarry operation.
6. The PP shall adopt only non-explosive technique (Rock Breaking Compounds) for the fracturing of granite blocks ensuring the eco-friendly mining operation in the proposed quarry.
7. To ensure the conditions of occupational safety, health & welfare status of persons working in the mine, the PP shall annually conduct occupational health survey to determine prevalence of Noise Induced Hearing Loss (NIHL) due to the operation of Diamond Wire Saw cutting & other HEMMs deployed in the mine and to prepare a plan for hearing conservation programme by involving anyone of the reputed institutes - Regional Occupational Health Centre (Southern) of ICMR-National Institute of Occupational Health, Bengaluru, National Institute of Miners' Health, Nagpur and Anna University, Chennai.
8. The PP shall properly provide all the required welfare amenities near quarry such as Drinking water, Rest Shelter, Canteen, Toilets, etc for the persons to be employed in the proposed quarry before the execution of lease, in accordance with the provisions of the Mines Rules, 1955.
9. 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.
10. 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.
11. The PP shall annually carry out the Anna University-Star Rating process for the sustainable mining which will be awarded by the Department of Mining


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Engineering Anna University Chennai and Rs. 1 lakhs shall be paid for carrying out the process for the year of 2024-2025 to the Dept. of Mining Engg., Anna University Chennai before the execution of the lease.

12. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for mitigation /Conservation work in the vettangudi Birds Sanctuary before obtaining CTO from TNPCB.

Agenda No: 462-14

(File No: 10760/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 2.84.50Ha at SF.Nos. 636/1C1, 636/2B, 636/2C, 636/2D, 636/2E, 641/1, 646/1B1 and 646/1B2 of Magaral - B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu by Thiru. R.Sankar - For Amendment in Environmental Clearance. (SIA/TN/MIN/465092/2024, Dated:06.03.2024)

The proposal was placed in the 462nd meeting of SEAC held on 26.04.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.R.Sankar has applied for Amendment in Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 2.84.50Ha at SF.Nos. 636/1C1, 636/2B, 636/2C, 636/2D, 636/2E, 641/1, 646/1B1 and 646/1B2 of Magaral -B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier EC issued Vide - Lr.No.SEIAA- TN/F.No.8353/Ec.No:5357/2022, Dated: 18.10.2022.

Now the proposal was placed in the 462th meeting of SEAC held on 26.04.2024.

The SEAC decided to accept the request made by the project proponent to defer the presentation and the proposal.

Agenda No: 462-15

(File No: 10742/2024)


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Proposed Ordinary Earth Quarry over an extent of 1.63.0 Ha at S.F.Nos. 307/1A1, 307/1A2, 307/1F, 307/1G1, 307/1G2, 307/1I & 308/5 of Pottipuram Village, Uthamapalayam Taluk, Theni District, Tamil Nadu by Thiru. A. Rajesh Kumar – For Environmental Clearance. (SIA/TN/MIN/464254/2024, Dated: 04.03.2024)

The proposal was placed for appraisal in this 462nd meeting of SEAC held on 26.04.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. A. Rajesh Kumar has applied for Environmental Clearance for the Proposed Ordinary Earth Quarry over an extent of 1.63.0 Ha at S.F.Nos. 307/1A1, 307/1A2, 307/1F, 307/1G1, 307/1G2, 307/1I & 308/5 of Pottipuram Village, Uthamapalayam Taluk, Theni District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 3 years. The approved mining plan is for 3 Years. As per the approved mine plan, the annual peak production shall not exceed 6585 m³ of Ordinary Earth for an ultimate depth of 2m below ground level.
4. The salient features of the proposal are as follows:

File No.		10742 / 2024	Category	B2
		464254 / 2024		1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. A. Rajesh Kumar, S/o. Ashokan, No: 139, Karuppasamy Kovil Street, Bodinayakanur, Bodinayakanur Taluk, Theni District - 625 513.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Ordinary Earth	

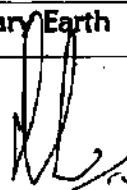

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3.	S.F Nos. of the quarry site	:	307/1A1, 307/1A2, 307/1F, 307/1G1, 307/1G2, 307/1I & 308/5
4.	Village in which situated	:	Pottipuram
5.	Taluk in which situated	:	Uthamapalayam
6.	District in which situated	:	Theni
7.	Extent of quarry (in ha.)	:	1.63.0 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	09°55'57.11"N to 09°56'02.14"N 77°19'34.41"E to 77°19'43.14"E
9.	Topo Sheet No.	:	58 - G/05
10.	Type of mining	:	Opencast Semi Mechanized Mining
11.	Details of Environmental Setting.	:	Village: Tamminayakkanpatti - 0.31Km (W) Water body: Eri - 430m (S) Forest: Bodi West Hill RF - 4.7km (W) Sanctuary: SMTR Wildlife Sanctuary - 18.0Km (SE)
12.	NBWL Clearance/Conservation Measures	:	Nil
13.	Details of Previous History	:	The applied lease area is fresh.
14.	CCR If Applicable	:	Nil
15.	Life of Project	:	3 years
	Lease Period	:	3 years
	Mining Plan Period	:	3 years
16.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m ³ (RoM)	:	As modified by SEAC Ordinary Earth
		:	Ordinary Earth
	Minaible Resources m ³ (RoM)	:	81,500 m ³
		:	-
Annual Peak Production in m ³	:	Ordinary Earth	
		:	Ordinary Earth


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		6585 m ³	-
	Maximum Depth in meters	: 2m below ground level	-
17.	Depth of water table	: 26m-28m below ground level	
18.	Man Power requirement per day:	: 16 Nos.	
19.	Water requirement: 1. Drinking & Domestic 2. Dust Suppression 3. Green belt	: 1.0 KLD 0.3 KLD 0.4 KLD 0.3 KLD	
20.	Power requirement	: TNEB 3948 Liters of HSD	
21.	Precise area communication approved by the Assistant Director, Dept. of G&M	: Na.Ka.No.273/Kanimam/2022, dated:24.01.2024	
22.	Mining Plan approved by Assistant Director, Dept. of Geology & Mining.	: Roc.No.273/Mines/2023, dated: 29.01.2024	
23.	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining.	: Roc.No.273/2023/Mines, dated: 02.02.2024	
24.	VAO Certificate Regarding Structures within 300m Radius	: Letter dated 09.02.2024	
25.	Project Cost (excluding EMP cost)	: Rs. 12,94,008/-	
26.	EMP cost (in Rs. Lakhs).	: Capital Cost – Rs. 7.65 Lakhs Recurring Cost – Rs. 2.96 Lakhs	
27.	CER cost (in Rs. Lakhs).	: Rs. 1,00,000/-	


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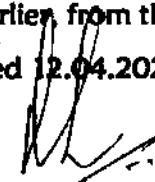
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28.	SEAC Recommendation.	:	SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 6585 m ³ of Ordinary Earth by maintaining the ultimate depth of mining up to 2m below ground level for the project life of 3 years (or) expiry date of mine lease, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022
29.	Recommended Quantities	:	Ordinary Earth
		:	Max Total RoM in m ³ 19,754 m ³
		:	Annual Max RoM in m ³ 6585 m ³
		:	Ultimate Depth in mtrs 2m below ground level
30.	Standard Conditions	:	Annexure I
31.	Is the depth recommended more than 40m.	:	NO
32.	If 30 above is YES	:	Special Conditions II
33.	Is the proposed area located near Reserve Forest	:	YES Bodi West Hill RF – 4.7km (W)
34.	If 32 above is YES	:	Special Conditions III
35.	Other Special Conditions	:	

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 6585 m³ of Ordinary Earth by maintaining the ultimate depth of mining up to 2m below ground level for the project life of 3 years (or) expiry date of mine lease, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022 and


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subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

- 1) The PP shall complete the quarrying operations within a period of 3 years from the date of issue of EC.
- 2) The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
- 3) The PP shall carry out the required number of plantations as committed in the EMP without deviation before obtaining the CTO from the TNPCB.
- 4) The PP shall not carry out drilling & blasting operations in the proposed quarry.
- 5) The PP shall install a 'Bio-toilet' and Rest shelter facility for the persons employed in the mine before obtaining the CTO from the TNPCB.
- 6) As accepted by the Project Proponent the CER cost of **Rs. 1 Lakh** and the amount shall be spent for the activities as committed towards Government Middle School, T.Pudukkottai Village, Theni District, before obtaining CTO from TNPCB.

Agenda No: 462-16

(File No: 10755/2024)

Proposed Ordinary Earth Quarry over an extent of 2.90.5 Ha at S.F.No. 114/2B of Rasingapuram Village, Bodinayakkanur Taluk, Theni District, Tamil Nadu by Thiru. S. Mathiyalagan – For Environmental Clearance. (SIA/TN/MIN/465505/2024, Dated: 11.03.2024)

The proposal was placed for appraisal in this 462nd meeting of SEAC held on 26.04.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. S. Mathiyalagan has applied for Environmental Clearance for the Proposed Ordinary Earth Quarry over an extent of 2.90.5 Ha at S.F.No. 114/2B of Rasingapuram Village, Bodinayakkanur 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.


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3. The precise area communication was issued for the period of 3 years. The approved mining plan is for 3 Years. As per the approved mine plan, the annual peak production shall not exceed 11,479 m³ of Ordinary Earth for an ultimate depth of 2m below ground level.

4. DFO letter vide Proc.No: 13346/2021/D, Dated: 26.02.2024

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

File No.		10755 / 2024	Category	B2
		465505 / 2024		1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. S. Mathiyalagan, S/o. P. Sivaji, No.7W4, West Street, Chinnaovalapuram, Uthamapalayam Taluk, Theni District – 625 515.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Ordinary Earth	
3.	S.F Nos. of the quarry site	:	114/2B	
4.	Village in which situated	:	Rasingapuram	
5.	Taluk in which situated	:	Bodinayakkanur	
6.	District in which situated	:	Theni	
7.	Extent of quarry (in ha.)	:	2.90.5 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	09°57'06.63"N to 09°57'13.74"N 77°19'00.11"E to 77°19'09.12"E	
9.	Topo Sheet No.	:	58 – G/05	
10.	Type of mining	:	Opencast Semi Mechanized Mining	
11.	Details of Environmental Setting.	:	Jambalmedu RF - 0.95Km Kodaikanal Sanctuary - 25.45km Srivilliputhur Megamalai Tiger Reserve - 12.79km	


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		ESZ Boundary of Kodaikanal WLS - 38.48Km ESZ Boundary of Megamalai Tiger Reserve - 22.93Km	
12.	NBWL Clearance/Conservation Measures	Nil	
13.	Details of Previous History	: The applied lease area is fresh.	
14.	CCR If Applicable	: Nil	
15.	Life of Project	: 3 years	
	Lease Period	: 3 years	
	Mining Plan Period	: 3 years	
16.	Mining Plan Details	: As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	: Ordinary Earth	Ordinary Earth
		: 1,45,250 m ³	-
	Movable Resources m ³ (RoM)	: Ordinary Earth	Ordinary Earth
		: 34,438 m ³	-
	Annual Peak Production in m ³	: Ordinary Earth	Ordinary Earth
: 11,479 m ³		-	
Maximum Depth in meters	: 2m below ground level	-	
17.	Depth of water table	: 26m-28m below ground level	
18.	Man Power requirement per day:	: 16 Nos.	
19.	Water requirement:	2.0 KLD	
	1. Drinking & Domestic	0.5 KLD	
	2. Dust Suppression	0.5 KLD	
	3. Green belt	1.0 KLD	
20.	Power requirement	: TNEB 6888 Liters of HSD	


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21.	Precise area communication approved by the Assistant Director, Dept. of G&M	:	Na.Ka.No.350/Kanimam/2018, dated:09.02.2024				
22.	Mining Plan approved by Assistant Director, Dept. of Geology & Mining.	:	Roc.No.350/Mines/2018, dated: 19.02.2024				
23.	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining.	:	Roc.No.350/2018/Mines, dated: 19.02.2024				
24.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 23.02.2024				
25.	Project Cost (excluding EMP cost)	:	Rs. 22,13,748/-				
26.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 16,78,000/- Recurring Cost – Rs. 3,87,000/-				
27.	CER cost (in Rs. Lakhs).	:	Rs. 2,00,000/-				
28.	SEAC Recommendation.	:	SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 11,479 m ³ of Ordinary Earth by maintaining the ultimate depth of mining up to 2m below ground level for the project life of 3 years (or) expiry date of mine lease, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022				
29.	Recommended Quantities	:	<table border="1"> <tr> <td></td> <td>Ordinary Earth</td> </tr> <tr> <td>Max Total RoM in m³</td> <td>34,438 m³</td> </tr> </table>		Ordinary Earth	Max Total RoM in m ³	34,438 m ³
	Ordinary Earth						
Max Total RoM in m ³	34,438 m ³						

		: Annual Max RoM in m ³	11,479 m ³
		: Ultimate Depth in mtrs	2m below ground level
30.	Standard Conditions	: Annexure I	
31.	Is the depth recommended more than 40m.	: NO	
32.	If 30 above is YES	: Special Conditions II	
33.	Is the proposed area located near Reserve Forest	: YES Jambalmedu RF - 0.95Km	
34.	If 32 above is YES	: Special Conditions III	
35.	Other Special Conditions	:	

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 11,479 m³ of Ordinary Earth by maintaining the ultimate depth of mining up to 2m below ground level for the project life of 3 years (or) expiry date of mine lease, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022 and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

- 1) The PP shall complete the quarrying operations within a period of 3 years from the date of issue of EC.
- 2) The PP shall strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site.
- 3) The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
- 4) The PP shall carry out the required number of plantations as committed in the EMP without deviation before obtaining the CTO from the TNPCB.
- 5) The PP shall not carry out drilling & blasting operations in the proposed quarry.


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- 6) The PP shall install a 'Bio-toilet' and Rest shelter facility for the persons employed in the mine before obtaining the CTO from the TNPCB.
- 7) As accepted by the Project Proponent the CER cost of **Rs. 2 Lakhs** and the amount shall be spent for the activities as committed towards Government High School, Rasingapuram Village, Theni District, before obtaining CTO from TNPCB.

Agenda No: 462-17

(File No: 10761/2024)

Proposed Rough Stone Quarry over an extent of 1.10.5 Ha at S.F.Nos. 712/1B, 712/1C & 712/1D of Kulasekarapuram Village, Agastheeswaram Taluk, Kanniyakumari District, Tamil Nadu by Thiru. S. Iyyappan – For Environmental Clearance.

(SIA/TN/MIN/464192/2024, Dated: 02.03.2024)

The proposal was placed for appraisal in this 462nd meeting of SEAC held on 26.04.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

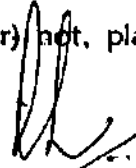
The SEAC noted the following:

1. The project proponent, Thiru. S. Iyyappan has applied for Environmental Clearance for the Proposed Rough Stone Quarry over an extent of 1.10.5 Ha at S.F.Nos. 712/1B, 712/1C & 712/1D of Kulasekarapuram Village, Agastheeswaram Taluk, Kanniyakumari 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.

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

1. The PP shall enumerate the water bodies located around the quarry site at a distance within 500m and mention its name and distance from the boundary of the quarry site.
2. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of


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worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.

3. The PP shall furnish the details of brick chamber located in the eastern side of the quarry site (no. of workers, no. of workers staying inside the brick chamber premises, working hours, total no. of working days in a year, distance from the boundary of the quarry site).

4. The PP shall furnish the contour map.

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

Agenda No: 462-18

(File No: 10767/2024)

Proposed Rough Stone and Gravel Quarry over an extent of 1.35.0 Ha at S.F.Nos. 136/2(P), 136/3A(P), 136/4A(P) & 136/5(P) of V.Muthulingapuram Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Thiru. R. Aromal Manoj (Managing Partner), M/s. Tirupati Blue Metals & M Sand – For Environmental Clearance. (SIA/TN/MIN/465763/2024, Dated: 13.03.2024)

The proposal was placed for appraisal in this 462nd meeting of SEAC held on 26.04.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. R. Aromal Manoj (Managing Partner), M/s. Tirupati Blue Metals & M Sand has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry over an extent of 1.35.0 Ha at S.F.Nos. 136/2(P), 136/3A(P), 136/4A(P) & 136/5(P) of V.Muthulingapuram Village, Virudhunagar Taluk, Virudhunagar 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.

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


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SEAC decided to call for the following details from the project proponent:

1. It is seen from the kml file that there is a stone crusher unit located on the proposed lease area and the PP stated that he proposed to remove the structure. The PP shall remove all the structures located on the mine leasehold area and furnish the photographs and drone videos to show that the proposed area is free of any structures by obtaining a letter from the DD/AD (Mines) concerned.

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

Agenda No: 462-19

(File No: 10623/2024)

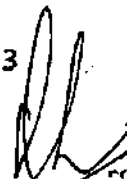
Proposed Ordinary Earth quarry over an extent of 1.86.0 Ha at S.F.Nos. 199/3Q & 196/3 of Silamalai Village, Bodinaickanur Taluk, Theni District, Tamil Nadu by Tmt. P. Latha Eswari – For Environmental Clearance. (SIA/TN/MIN/456589/2023, Dated: 29.12.2023)

The proposal was placed for appraisal in this 462nd meeting of SEAC held on 26.04.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Tmt. P. Latha Eswari has applied for Environmental Clearance for the Proposed Ordinary Earth quarry over an extent of 1.86.0 Ha at S.F.Nos. 199/3Q & 196/3 of Silamalai Village, Bodinaickanur Taluk, Theni District, Tamil Nadu.
2. The project/activity is covered under Category “B2” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 2 years. The approved mining plan is for 2 Years. As per the approved mine plan, the annual peak production shall not exceed 13,616 m³ of Ordinary Earth for an ultimate depth of 2m below ground level.
4. DFO letter vide Proc.No: 10120/2022/D, Dated: 19.04.2023


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5. Earlier, the proposal was placed for appraisal in the 448th meeting of SEAC held on 23.02.2024. The consultant vide letter dated 23.02.2024 has requested the Committee to defer the proposal and place the same in forthcoming meeting, since, the EIA Coordinator was not able to attend the meeting due to his personal issues. Hence, the SEAC decided to defer and take up this proposal for appraisal in any one of the forthcoming meetings.

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

File No.	10623 / 2024	Category	B2
	456589 / 2023		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Tmt. P. Latha Eswari, W/o. Ponram, No.11/3J, Ashok Complex, Central Theater, Natham, Dindigul District - 624 401.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Ordinary Earth
3.	S.F Nos. of the quarry site	:	199/3Q & 196/3
4.	Village in which situated	:	Silamalai
5.	Taluk in which situated	:	Bodinaickanur
6.	District in which situated	:	Theni
7.	Extent of quarry (in ha.)	:	1.86.0 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	09°59'16.34"N to 09°59'21.88"N 77°19'00.27"E to 77°19'09.36"E
9.	Topo Sheet No.	:	58 – G/05
10.	Type of mining	:	Opencast Semi Mechanized Mining
11.	Details of Environmental Setting.	:	Soolapuram Village – 2.0km (SE) Odai – 60m (S), 315m (SW), 305m (N), 450m (NW)


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		Kottagudi AR - 5.1Km (NE) Bodi West Hill RF – 1.2 km (NW)	
12.	NBWL Clearance/Conservation Measures	Nil	
13.	Details of Previous History	: The applied lease area is fresh.	
14.	CCR If Applicable	: Nil	
15.	Life of Project	: 2 years	
	Lease Period	: 2 years	
	Mining Plan Period	: 2 years	
16.	Mining Plan Details	: As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	: Ordinary Earth	Ordinary Earth
		: 37,200 m ³	-
	Minable Resources m ³ (RoM)	: Ordinary Earth	Ordinary Earth
		: 27,232 m ³	-
	Annual Peak Production in m ³	: Ordinary Earth	Ordinary Earth
: 13,616 m ³		-	
Maximum Depth in meters	: 2m below ground level	-	
17.	Depth of water table	: 33m below ground level	
18.	Man Power requirement per day:	: 7 Nos.	
19.	Water requirement:	1.0 KLD	
	1. Drinking & Domestic	: 0.3 KLD	
	2. Dust Suppression	: 0.4 KLD	
	3. Green belt	: 0.3 KLD	
20.	Power requirement	: TNEB 4540 Liters of HSD	

21.	Precise area communication approved by the Assistant Director, Dept. of G&M	:	Na.Ka.No.987/Kanimam/2022, dated:09.10.2023
22.	Mining Plan approved by Assistant Director, Dept. of Geology & Mining.	:	Roc No. 987/2022/Mines, dated: 03.11.2023
23.	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining.	:	Roc No. 987/2022/Mines, dated: 03.11.2023
24.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 16.11.2023
25.	Project Cost (excluding EMP cost)	:	Rs. 12,22,000/-
26.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 21.51 Lakhs Recurring Cost – Rs. 11.11 Lakhs
27.	CER cost (in Rs. Lakhs).	:	Rs. 5,00,000/-
28.	SEAC Recommendation.	:	SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 13,616 m ³ of Ordinary Earth by maintaining the ultimate depth of mining up to 2m below ground level for the project life of 2 years (or) expiry date of mine lease, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022
29.	Recommended Quantities	:	Ordinary Earth
		:	Max Total RoM in m ³ 27,232 m ³


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		: Annual Max RoM in m ³	13,616 m ³
		: Ultimate Depth in mtrs	2m below ground level
30	Standard Conditions	: Annexure I	
31.	Is the depth recommended more than 40m.	: NO	
32	If 30 above is YES	: Special Conditions II	
33.	Is the proposed area located near Reserve Forest	: YES Bodi West Hill RF – 1.2 km (NW)	
34.	If 32 above is YES	: Special Conditions III	
35.	Other Special Conditions	:	

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 13,616 m³ of Ordinary Earth by maintaining the ultimate depth of mining up to 2m below ground level for the project life of 2 years (or) expiry date of mine lease, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022 and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

- 1) The PP shall complete the quarrying operations within a period of 2 years from the date of issue of EC.
- 2) The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
- 3) The PP shall carry out the required number of plantations as committed in the EMP without deviation before obtaining the CTO from the TNPCB.
- 4) The PP shall not carry out drilling & blasting operations in the proposed quarry.
- 5) The PP shall install a 'Bio-toilet' and Rest shelter facility for the persons employed in the mine before obtaining the CTO from the TNPCB.
- 6) As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Government


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Higher Secondary School, Silamalai Village, Theni District, before obtaining CTO from TNPCB.

Agenda No: 462-20

File No: 10743/2024

Proposed Limekankar quarry lease over an extent of 2.01.50Ha at S.F.Nos.161/1, 162/3, 164/4 & 165 of Pullankulam Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Thiru.K.Palaniappan – For Environmental clearance. (SIA/TN/MIN/464757/2024, Dated:04/03/2024)

The proposal was placed for appraisal in 462nd Meeting of SEAC held on 26.04.2024. The details of the proposed project are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.K.Palaniappan has applied for Environmental Clearance for the Limekankar quarry lease over an extent of 2.01.50Ha at S.F.Nos.161/1, 162/3, 164/4 & 165 of Pullankulam Village, Virudhunagar Taluk, Virudhunagar 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 Mining Lease was issued for the period of 10 Years. The approved current scheme mining plan for the period of 5 Years & production should not exceed 8627.6 m³ of Limekankar and the Ultimate depth shall not exceed 1.5m. The annual peak production shall not exceed 1156.28 m³ (All years) of Limekankar.

Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.K.Palaniappan, S/o. Krishnasamy, No.2/63, Middle Street, EnamkasiReddiapatti Village, Soolakkarai Post, Virudhunagar

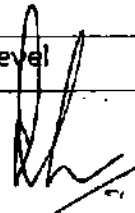

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2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Limekankar		
3.	S.F Nos. of the quarry site with area break-up	:	161/1, 162/3, 164/4 & 165		
4.	Village in which situated	:	Puliankulam		
5.	Taluk in which situated	:	Virudhunagar		
6.	District in which situated	:	Virudhunagar		
7.	Extent of quarry (in ha.)	:	2.01.50Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	09°31'04.3389"N to 09°31'09.3939"N 77°55'42.5058"E to 77°55'48.0939"E		
9.	Topo Sheet No.	:	58 G/14		
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 scheme of mining plan		
	Geological Resources (RoM)	RoM	Limekankar	Waste	
		16337.0 m ³	80%	Soil 20 %	
	Mineable Resources (RoM)	RoM	Limekankar	Waste	
		10784.5 m ³	80%	Soil 20 %	
	Annual Peak Production	RoM	Limekankar	Waste	
		1445.35 m ³	80%	Soil 20 %	
	Maximum Depth in meters	:	1.5m		
13.	Depth of water table	:	60m Below Ground Level		

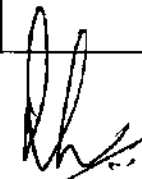

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14.	Man Power requirement per day:	:	6 Nos			
15.	Water requirement:	:	2.0.KLD			
	1. Drinking water	:	0.5 KLD			
	2. Dust suppression	:	1.0 KLD			
	3. Green belt	:	0.5 KLD			
16.	Power requirement	:	TNEB			
17.	Precise area communication approved by the Additional Chief Secretary to Government (FAC), Natural Resources (MMC.2) Department with date	:	Letter No. 4713465/MMC.2/2023-1 dated: 17.08.2023			
	Mining Plan approved by the Additional Director, Commissionerate of Geology & Mining with date	:	Rc.No.5537/MM7/2022, dt: 30.01.2024			
19.	Deputy Director, Department of Geology and Mining 500m cluster letter	:	Rc.No.KV1/268/2022, dated: 14.11.2023			
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated:02.02.2024			
21.	Project Cost (excluding EMP cost)	:	Rs. 21,68,000/-			
22.	EC Recommendation	:	1st Five Years as per approved mining plan			
		:		RoM	Limekan kar 80%	Waste Soil 20 %
		:	Max Total RoM in m ³	7226.75 m ³	5781.40 m ³	1445.35m ³


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		Annual Max RoM in m ³	1445.35 m ³	1156.28 m ³	289.0 7m ³
		Max Depth in mtrs	1.5m		
23.	EMP cost (in Rs. Lakh).	Capital –Rs. 11.48 Lakhs Recurring-Rs.2.75 Lakhs			
24.	CER cost (in Rs. Lakh).	Rs. 2.0 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 1445.35m³ of Limekankar by maintaining the ultimate depth of mining upto 1.5m BGL, for the project life 10 years (or) expiry date of mine lease period as stipulated by the competent authority but subject to a maximum of thirty years, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022 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) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
- 2) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 3) The PP shall register promptly through online in the Shram Suvidha Portal which is the official portal of Ministry of Labour & Employment, Govt of India to obtain Labour Identification Number (LIN) before obtaining the CTO from the TNPCB.


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- 4) For ensuring the safe and systematic mining operations, the PP shall send the 'Notice of Opening' indicating the appointment of First Class/Second Class Mine Manager for managing the mining operations and the proposed usage of HEMM shall be sent to the Director of Mines Safety, Chennai Region of the Mine under the provisions of MMR 1961 at least 30 days before the commencement of the mining operation immediately after the execution of lease with district authority.
- 5) The PP shall not carry out the drilling and blasting operations as committed in the Mining Plan and however, the PP shall adopt the blast-free technologies including rock breakers, ripper-dozers, etc., for carrying out the rock breakage such that the eco-friendly mining operation is ensured during the life period of the mining.
- 6) The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution during the transportation through the village roads.
- 7) 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.
- 8) The PP shall make necessary arrangements for rain water harvesting plan in the proposed quarry site.
- 9) 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 i.e. quantum of ROM ore, and top soil if any etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, mineral transportation mode, ultimate depth of mining etc.) shall not 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


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State Govt. in the form of Short Term Permit (STP), Quarry license or any other name.

- 10) The purpose of the 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 in consultation with the DFO, State Agriculture University and local school/college authorities. 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.
- 11) Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper escapement 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.
- 12) The proponent shall undertake the activities of restoration, reclamation and rehabilitation of lands affected by the quarrying operations in a phased manner and shall complete this work before the conclusion of such operations and the relinquishment of the quarrying activities as assured in the Environmental Management Plan & the Mine Closure Plan approved by the Regional Controller of Mines, Indian Bureau of Mines, Chennai.
- 13) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to the Integrated Regional Office (IRO), MoEF & CC, Chennai / Regional office of CPCB, Chennai. The same shall be intimated to the local habitants through village panchayat.
- 14) The PP shall annually carry out an Occupational Health Survey (OHS) in accordance with the guidelines & period of examination laid in the DGMS (Tech.) (S&T) Circular No. 01 of 2011, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952 by actively involving State Government officials and Non-Government

Organizations (NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual compliance certificate shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 15) The project proponent shall ensure that the provisions of the MMDR Act, 1957, and the MCDR 2017 are complied by carrying out the mining 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.
- 16) The quarrying activity shall be stopped if the entire quantity of ROM ore indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining), District Environmental Engineer (TNPCB), and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 17) 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.
- 18) All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter as well as in the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 19) 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.
- 20) 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


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to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

21) 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.

22) As proposed by the Project Proponent the CER shall be **Rs. 2 Lakhs** and the amount shall be spent for the activities as committed below and the amount shall be spent before the end of one year from the date of issue of EC.

S.No	CER Activity	CER value (Rs.)
1.	<ul style="list-style-type: none">• Tree plantation (50nos)• Providing SINTEX TANK• Setting up New Cycle Stand Floor• Cleaning & maintenance of toilet during the lease period.• Library track and book facility	2,00,000/-
Total		2,00,000/-

Agenda No:462 - 21


File No: 10750/2024

Proposed Rough stone & Gravel quarry lease over an extent of 1.96.0Ha at S.F.Nos.205/1A, 205/1B, 205/2A, 205/2B, 205/2C, 205/2D & 205/3, Valasiramani Village, Musiri Taluk, Tiruchirapalli District by M/s. S Cube Mines - For Environmental Clearance. (SIA/TN/MIN/464657/2024, Dated:04/03/2024)

The proposal was placed in 462nd SEAC Meeting held on 26.04.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. S Cube Mines has applied for **Environmental Clearance** for the Proposed Rough stone & Gravel quarry lease over an extent of 1.96.0Ha at S.F.Nos.205/1A, 205/1B, 205/2A, 205/2B, 205/2C, 205/2D & 205/3, Valasiramani Village, Musiri Taluk, Tiruchirapalli District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.


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3. The precise area communication was issued for the period of 10 Years. The approved mining plan is for the period of five years & production should not exceed 285300m³ of Rough Stone, 30496m³ of Gravel. The annual peak production is 40250m³ of Rough Stone, 11760m³ of Gravel. The depth of mining is 22m BGL in five years.

File No	10750/2023		Category	B2
	SIA/TN/MIN/464657/2024, Dated:04/03/2024			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	M/s. S Cube Mines, No.2-C, Karuppannan Street, S.P.Pudur, Namakkal District -637 001	
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	:	205/1A, 205/1B, 205/2A, 205/2B, 205/2C, 205/2D & 205/3	
4.	Village in which situated	:	Valasiramani	
5.	Taluk in which situated	:	Musiri	
6.	District in which situated	:	Tiruchirapalli	
7.	Extent of quarry (in ha.)	:	1.96.0Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	11°08'06.05"N to 11°08'09.91"N 78°20'50.76"E to 78°20'56.94"E	
9.	Topo Sheet No.	:	58-1/08	
10.	Type of mining	:	Opencast Semi Mechanized of mining	
11.	Life of Project	:	10 Years	
	Lease Period	:	10 Years	
	Mining Plan Period	:	5 Years	
12.	Mining Plan Details	:	As per approved Mining Plan	


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		Rough stone	Gravel
	Geological Resources m ³	: 784320m ³	39216m ³
	Minable Resources m ³	: 200410m ³	30496m ³
	Annual Peak Production in m ³	: 40250m ³	11760m ³
	Ultimate Depth in meters	: 22m BGL	
13.	Depth of water table	: 65m BGL	
14.	Man Power requirement per day:	: 25 Nos	
15.	Water requirement: 1. Drinking water & Utilized water 2. Dust suppression 3. Green belt	4 KLD 1.0 KLD 2.0 KLD 1.0 KLD	
16.	Power requirement	: TNEB	
17.	Precise area communication approved by the Assistant Director, Department of G&M, Tiruchirapalli District	: Na.Ka.No.1704/2023/Kanimam, dt: 23.01.2024	
18.	Mining Plan approved by Assistant Director, Department of G&M, Tiruchirapalli District	: Rc.No.1704/2023/Mines, dt: 13.02.2024	
19.	500m Cluster Letter approved by the Assistant Director, Department of G&M, Tiruchirapalli District	: Rc.No.1704/2023/Mines, dt: 14.02.2024	
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Dt:21.02.2024	
21.	Project Cost (excluding EMP cost)	: Rs. 71,16,000/-	
22.	EC Recommendation	: Validity	As per approved mining plan



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			Rough stone	Gravel
		: Max Total in m ³	200410m ³	30496m ³
		: Annual Max in m ³	11760m ³	40250m ³
		: Max Depth in mtrs	22m BGL	
23.	EMP cost (in Rs. Lakh).	:	Rs. 59.82 Lakhs of Capital Cost + Rs. 336.84 Lakhs of Recurring cost (For 10 Years)	
24.	CER cost (in Rs. Lakh).	:	Rs. 8,00,000 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 shall not exceed 11760m³ of Rough stone & 40250m³ of Gravel for the ultimate depth of mining up to 22m BGL for the project life of 10 years (or) expiry date of mine lease but subject to a maximum of thirty years, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022 and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 2) The PP shall register promptly through online in the Shram Suvidha Portal which is the official portal of Ministry of Labour & Employment, Govt of India to obtain Labour Identification Number (LIN) before obtaining the CTO from the TNPCB.
- 3) For ensuring the safe and systematic mining operations, the PP shall send the 'Notice of Opening' indicating the appointment of First Class/Second Class Mine


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Manager for managing the quarrying operations and the proposed usage of HEMM shall be sent to the Director of Mines Safety, Chennai Region of the Mine under the provisions of MMR 1961 atleast 30 days before the commencement of the mining operation immediately after the execution of lease with district authority.

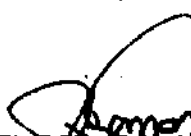
- 4) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storage & transportation of the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 5) Considering the Solar Panel is located within 500m from the lease boundary, the PP shall carry out the blasting operations involving the small hole dia holes of 32-34 mm & 1.5 m depth involving maximum of 30 to 40 holes only in a round at a time with keeping the total aggregate explosive charge/hole is limited to 375g by adopting the Muffle Blasting Technique in accordance with the provisions of MMR 1961.
- 6) **Since the structures are situated within a radial distance of 500 m**, the PP shall carry out the scientific studies **within a period of six months** from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 7) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of


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

- 8) As a part of monitoring the implementation of eco-friendly blasting operation, the PP shall **daily** monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 200m, 300m, 500m, through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 9) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 10) The PP shall **annually** carry out an Occupational Health Survey (OHS) In accordance with the guidelines & period of examination laid in the DGMS (Tech.) (S&T) Circular No. 01 of 2011, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952 by actively involving State Government officials and Non-Government Organizations (NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual compliance certificate shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 11) For the safety of the persons employed in the quarry, the PP shall carry out the Traffic studies to assess the carrying capacity of the road & traffic volume within one year from the date of lease execution, by involving any one of the reputed


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Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT Madras, Division of Transportation Engineering, 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

As proposed by the Project Proponent the CER cost of Rs. 8 lakhs and the amount shall be spent for the Government High School, Pavithiram Village, Namakkal District before obtaining CTO from TNPCB.

Agenda No:462 - 22

File No: 10756/2024

Proposed Rough stone & Gravel quarry lease over an extent of 4.84.25Ha at S.F.No: 270/1, 270/2, 270/3, 270/4, 271/1, 271/2A1, 271/2B1, 271/2B2, 272/1A, 272/1B, 272/1C2, 272/2A & 272/3, Cholavaram Village, Vembakkam Taluk, Tiruvannamalai District by Thiru.M.K.Arumugam - For Environmental Clearance.

(SIA/TN/MIN/465103/2024, Dated:05/03/2024)

The proposal was placed in 462nd SEAC Meeting held on 26.04.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **Thiru.M.K.Arumugam** has applied for **Environmental Clearance for the Rough stone & Gravel quarry lease over an extent of 4.84.25Ha at S.F.No: 270/1, 270/2, 270/3, 270/4, 271/1, 271/2A1, 271/2B1, 271/2B2, 272/1A, 272/1B, 272/1C2, 272/2A & 272/3, Cholavaram Village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu.**
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 5 Years. The approved mining plan is for the period of 5 years & production should not exceed **6,97,785m³** of Rough Stone, **69,872m³** of Gravel. The annual peak production is **1,41,035m³** of Rough Stone and **60,104m³** of Gravel. The depth of mining is 47m BGL in five years.


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Based on the presentation and documents furnished by the project proponent, SEAC decided to defer seeking following additional particulars:

1. The PP shall submit the **Registered Consent Patta** for the proposed mining area.
2. The PP shall submit the **Certified Compliance Report (CCR)** obtained from IRO(SZ), MoEF&CC and also to furnish mitigation measures/remedial action plan with the budget allocation for the non-compliance stated in the CCR.
3. The PP shall complete the **Tree plantation & fencing** and installation of garland drainage with siltation tank.
4. The PP shall furnish the **Photographs & Drone Video** showing the fencing and green belt plantation with native tree saplings with highest carbon sequestration potential (like Peepal Tree (or) Ficus Religiosa) in the proposed mining area.

Hence, SEAC has decided to defer the proposal and directed the PP to provide the additional details called for. On receipt of the above, further deliberations will be carried out. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.

Agenda No:462 - 23

File No: 10762/2024

Proposed Rough stone & Gravel quarry lease over an extent of 2.43.0Ha at S.F.No:53/12B (Part), 53/13, 53/14, 53/15, 53/16, 53/17, 53/23 (Part), 53/24, 53/25A, 53/25B, 53/25C, 53/27, 57/1, 57/2, 57/3, 57/4A, 57/4B, 57/5 & 57/9 (Part), Palayaseevaram.B Village, Walajabad Taluk, Kancheepuram District by Mr. V. Janakiraman - For Environmental Clearance. (SIA/TN/MIN/465128/2024, Dated:06/03/2024)

The proposal was placed in 462nd SEAC Meeting held on 26.04.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **Mr. V. Janakiraman** has applied for **Environmental Clearance for the Rough stone & Gravel quarry lease over an extent of 2.43.0Ha at S.F.No:53/12B (Part), 53/13, 53/14, 53/15, 53/16, 53/17, 53/23 (Part), 53/24, 53/25A, 53/25B, 53/25C, 53/27, 57/1, 57/2, 57/3, 57/4A, 57/4B, 57/5 & 57/9**


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(Part), Palayaseevaram.B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu.

2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 10 Years. The approved mining plan is for the period of 10 years & production should not exceed **226253m³** of Rough Stone, **19023m³** of Gravel. The annual peak production is **55325m³** of Rough Stone. The depth of mining is 40m BGL in five years.

Based on the presentation and documents furnished by the project proponent, SEAC decided to **defer seeking following additional particulars:**

1. The PP shall enumerate the method of carrying out the extraction of common boundary pillar co-existing with the adjacent mine without affecting the slope stability of highwall.
2. The PP shall submit the **Compliance Report on the CER as stipulated in the EC granted on 22.05.2023.**
3. The PP shall complete the Tree plantation & fencing and installation of garland drainage with siltation tank.
4. Photographs & **Drone Video** showing the fencing and green belt plantation with native tree saplings with highest carbon sequestration potential (like Peepal Tree (or) Ficus Religiosa) in the proposed mining area.
5. The PP shall furnish the **compliance status of maintaining** the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory **Safety Zone of 7.5m / 10m** as imposed in the Conditions of earlier EC dated 22.05.2023.

Hence, SEAC has decided to defer the proposal and directed the PP to provide the additional details called for. On receipt of the above, further deliberations will be carried out. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.


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Agenda No:462 - 24

File No: 10768/2024

Proposed Rough stone & Gravel quarry lease over an extent of 1.00.2Ha at S.F.No.855/1(Part-V) of Sampalli Village, Mettur Taluk, Salem District by Thiru. R. Ramakrishnan - For Environmental Clearance. (SIA/TN/MIN/465390/2024, Dated:08/03/2024)

The proposal was placed in 462nd SEAC Meeting held on 26.04.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. R. Ramakrishnan has applied for Environmental Clearance for the Proposed Rough stone & Gravel quarry lease over an extent of 1.00.2Ha at S.F.No.855/1(Part-V) of Sampalli Village, Mettur Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 10 Years. The approved mining plan is for the period of 10 years & production should not exceed 3,58,120m³ of Rough Stone, 6,270m³ of Gravel. The annual peak production is 39,915m³ of Rough Stone, 6,270m³ of Gravel. The depth of mining is 66m AGL in five years.

Based on the presentation and documents furnished by the project proponent, SEAC had noted the following:

- Sampalli Government School is located at a distance of 480m East Side from the proposed mining area.
- Further, proposed mining area is found to be in an elevated terrain, which is a part of Palamalai Mount reign.
- The proposed mining area is located at the radial distance of 1.5km (East) from the water spread area of Mettur Dam & 3.7km from structure of Mettur Dam. Due to mining activities, the 90 years old dam may get affected and also the inflow from Palamalai Reserve Forest to water spread area may get deviated. Besides, carrying out mining operation near to Mettur Dam body wall, the


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integrity and stability of Mettur Dam may not be ensured. Also, blasting in nearby quarry sites will affect the readings recorded in seismograph and accelerograph fixed in the Dam body wall to study the seismic activity in the surroundings of Mettur Dam. Hence, the mining operation and other related activities nearest to Mettur Dam is not advisable.

During the deliberations, the SEAC have observed the following key points:

4. The Stanley Reservoir is one of the largest of its kind in India with a total capacity of (93.47Tmcf) (2,146,071 acre ft). The creation of the reservoir caused the submersion of two villages, all of whose inhabitants were relocated to Mettur.
5. Activities interfacing with water bodies – river/reservoir will have risk of spillage of chemicals, construction material, and debris leading to water pollution and impacts on fishes.
6. Activities involving mining machinery and equipment will have impacts on physical environment. Transportation of material, debris disposal and labour movement are likely to generate pollution and impact on physical environment. Pollution of freshwater resources and resulting water scarcity increased by the existence of stone quarries involving blasting operations.
7. The proposed quarrying operation causing a landslide threat as it is operating on a hillside. Geologically the quarry is planned at the foot hill of a big hill of which a major portion is rock. Already a large quantity of rock has been removed from the bottom of this hill structure in this area through quarrying operations carried out in this village with countless uncontrollable & indiscriminate blasts have made the hill vulnerable to the landslides by weakening its foundation competency.
8. As per the studies carried out about landslides in similar environmental settings, the rainwater will saturate the soil and later the readily weakened hill structure to make it slide down easily.
9. The loud noise of heavy machineries such as jack hammer drilling equipments, excavators and trucks along with sudden shocking blasts has spoiled the peaceful atmosphere at this reputed eco-tourism Mettur dam.

10. ACTUAL QUANTUM OF DAMAGE TO ENVIRONMENT:


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The SEAC have clearly underlined the following significant points in consonance with the environmental aspects:

"...Whenever polluted air is released in air or polluted water is discharged in water or land, it is bound to cause damage to ecological balance of respective air, water or land. When a drop of ink is mixed in a bucketful of water or a drum, the entire water gets contaminated, degree may differ. Similarly, a small amount of poison, if enters in a bucketful of water or bigger drum, the entire water would get infected. Release of pollutant in environment would cause damage to environment in all cases, though degree of impact may differ...."

"...Thus, when we talk of assessment of damage to environment, it does not mean a sheer mathematical computation of such damage. Here assessment includes several aspects as also various principles recognized as part of environmental laws. This aspect can more suitably be demonstrated by referring to law laid by Apex Court in a catena of authorities...."

The SEAC have observed from the case entitled "In Rural Litigation and Entitlement (supra) – Judgement on 30/08/1988" in which the unauthorised and illegal mining in the Mussoorie-Dehradun belt, affecting adversely the ecology and environmental order of the area, were directed to be registered as writ petitions under public interest litigation where Court commented that

"....over thousands of years, man had been successful in exploiting ecological system for his sustenance but with the growth of population, demand for land has increased and forest growth is being cut down. Man has started encroaching upon nature and its assets. Scientific developments have made it possible and convenient for man to approach the places which were hitherto beyond his ken. Consequences of such interference with ecology and environment had now come to be realised. It is necessary that the Himalayas, and Forest growth on mountain range should be left uninterfered with so that there may be sufficient quantity of rain....."

Further, it is noted that ***"The High Court of Karnataka has banned all types of mining and quarrying activities within a 20-km radius of the historic Krishnarajasagar (KRS) dam in Mandya district."*** vide an interim order of Case number W.P. No. 19835/2023 dated 08.01.2024 which inter alia that


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"(i) All mining licences/leases comprising any area (whether in private land, government land or otherwise) that lies within a radius of 20 Kms from the periphery of KRS Dam are hereby kept under suspended animation, and as a consequence, no mining or allied activities shall be carried on or continued by any person or agency till after a decision is taken by the statutory committee constituted under the provisions of Dam Safety Act, 2021 on the basis of report of study & research, as discussed above.

(ii) The prohibition of mining or allied activity as directed in the preceding paragraph shall apply to all cases of mining notwithstanding that such activity is being carried on under the orders of this court or of the jurisdictional authority, that were made prior to the date on which the Dam Safety Act, 2021 came into force i.e., 30.12.2021.

(iii) The Authorities such as, the Officials of Dept. of Mines & Geology, Police Dept., Revenue Dept., etc shall enforce the above directions in letter & spirit and criminal cases be filed against the violators. The violation of the said directions shall also be liable to be treated as the contempt of this court.

(iv) The Secretary, Department of Mines & Geology, shall give wide publicity to this order through Print & Electronic Media periodically he shall circulate this order amongst all persons/agencies who hold leases/licences comprising the areas that lie within a radius of 20 kms from the KRS Dam."

Therefore, considering the location of the Mettur Dam structure and the water spread area of reservoir at 3.7 km and 1.5 km from the proposed quarry respectively, by applying principle of 'sustainable development' and 'precautionary principle', the SEAC have refuted the quarrying activities involving the blasting operation within the radius of 5 km from the Mettur reservoir dam. Further, the SEAC have strongly felt that it is not advisable to permit large scale quarrying activities in close vicinity of highly sensitive and greatly significant 'Mettur Dam' which would have an adverse impact on local ecology besides affecting water level below ground and disturbing the hydrology of the area.

Hence, the SEAC decided not to recommend Environmental Clearance to the proposed quarrying project as mining operation near dams imposes dam safety risks apart from


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other hazards including the landslide in the hilly terrains, blast-induced ground vibration from the proposed quarrying operations, presence of downstream, and loss of stored waters, environmental consequences due to mining, and the structural stability of the Dam.

Agenda No: 462 - 25.


(File No: 7855/2020)

Existing Rough stone & Gravel quarry lease over an extent of 1.57.5ha at S.F.No.232/2 in Kokkalai Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu by Tmt. P. Ramayee - For Environmental Clearance. (SIA/TN/MIN/437716/2023 Dt. 22.07.2023)

The proposal was placed for appraisal in this 462nd meeting of SEAC held on 26.04.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Tmt.P.Ramayee has applied for Environmental Clearance for the existing Rough stone & Gravel quarry lease over an extent of 1.57.5ha at S.F.No.232/2 in Kokkalai Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. Earlier, the PP has obtained EC from SEIAA vide Ec. No: Lr.No. SEIAA-TN/F.No.2792/EC/1(a)/1734/2015, Dated:13.03.2015 for the existing rough stone & Gravel quarry lease over an extent of 1.57.5ha at S.F.No.232/2 in Kokkalai Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu for depth of 32m.
4. ToR vide. Lr No. SEIAA-TN/F.No.7855/SEAC/ToR- 859/2020 Dated:12.03.2021 for the production of 1,12,043 m³ of Rough Stone & 10836m³ of Gravel and for the depth of 32m.
5. Public Hearing Conducted on 09.02.2023.
6. EIA Received on 25.07.2023.
7. The precise area communication was issued for the period of 5 years. The approved mining plan is for the period of 1st five years & production should not


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exceed 1,12,043m³ of Rough Stone & 10836m³ of Gravel. The annual peak production is 29023m³ of Rough Stone (4th Year) & 5504m³ of Gravel (1st Year). The depth of mining is 32m BGL.

8. Earlier the proposal was placed in 408th SEAC meeting held on 08.09.2023. After presentation, SEAC decided to call for additional particulars as follows:

- The PP shall furnish Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and with mitigation measures for the non-compliance Stated therein.

9. The proposal was again placed in 410th SEAC meeting held on 22.09.2023. During the presentation, EIA coordinator informed that they needed additional time to submit the additional details sought in the earlier meeting of SEAC. During the meeting the Committee noted that the project proponent was absent for the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

10. Subsequently, the proposal was placed in 662nd authority Meeting held on Date:16.10.2023. The project Proponent furnished reply on 20.02.2024. Hence, the proposal was placed in 462nd meeting of SEAC held on 26.04.2024.

Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	Tmt.P.Ramayee No.1/60, Mallasamuthiram Main Road Vaiyappamalai Post Tiruchengode Taluk Namakkal District - 637 410
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	232/2
4.	Village in which situated	Kokkalai
5.	Taluk in which situated	Tiruchengode


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6.	District in which situated	:	Namakkal	
7.	Extent of quarry (in ha.)	:	1.57.5ha	
8.	Latitude & Longitude of all corners of the quarry site	:	11°21'42.37"N to 11°21'49.05"N 78°03'14.02"E to 78°03'18.48"E	
9.	Topo Sheet No.	:	58 I/03	
10.	Type of mining	:	Opencast Mechanized Mining Method	
11.	Life of Project	:	5 Year	
	Lease Period	:	5 Year	
	Mining Plan Period	:	5 year	
12.	Mining Plan Details	:	As per approved Mining Plan	
	Geological Resources m ³ (RoM)	:	Rough Stone in m ³	Gravel in m ³
		:	4,35,963m ³	14,836m ³
	Mineable Resources m ³ (RoM)	:	Rough Stone	Gravel
		:	1,27,278 m ³	10,836 m ³
	Annual Peak Production in m ³	:	Rough Stone	Gravel
:		29,023 m ³	5,504 m ³	
	Maximum Depth in meters	:	42m BGL	
13.	Depth of water table	:	68-63m	
14.	Man Power requirement per day:	:	20 Nos	
15.	Water requirement:	:	3.1 KLD	
	1. Domestic Use	:	0.9 KLD	
	2. Dust suppression	:	1.6 KLD	
	3. Green belt	:	0.6 KLD	
16.	Power requirement	:	TNEB	
		:	1,03,634 Liters of HSD	
17.	Precise area communication approved by the District Collector with date	:	Rc.No.1490/Kanimam/2019 dt: 09.03.2020.	


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18.	Mining Plan approved by the Assistant Director of Geology and Mining with date	:	Rc.No.1490/Mines/2019 dt: 25.05.2020.
19.	Department of G&M, Assistant Director 500m Cluster Letter	:	Rc.No.1490/Mines/2019 dt: 29.05.2020.
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 21.05.2020
21.	Project Cost (excluding EMP cost)	:	Rs.44,75,000 Lakhs
22.	EC Recommendation	:	1st Five Years as per approved mining plan
		:	
		:	
		:	
		:	
23.	EMP cost (in Rs. Lakh).	:	Rs 101.17 Lakhs
24.	CER cost (in Rs. Lakh).	:	Rs. 5.0 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 shall not exceed 29,023m³ of Rough stone & 5,504m³ of Gravel for the ultimate depth of mining up to 42m BGL for the project life of 5 years (or) expiry date of mine lease but subject to a maximum of thirty years, whichever is earlier, from the date of lease execution, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022 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:


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1. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
2. Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
3. The PP shall register promptly through online in the Shram Suvidha Portal which is the official portal of Ministry of Labour & Employment, Govt of India to obtain Labour Identification Number (LIN) before obtaining the CTO from the TNPCB.
4. For ensuring the safe and systematic mining operations, the PP shall send the 'Notice of Opening' indicating the appointment of **First Class/Second Class Mine Manager** for managing the quarrying operations and the proposed usage of HEMM shall be sent to the Director of Mines Safety, Chennai Region of the Mine under the provisions of MMR 1961 atleast 30 days before the commencement of the mining operation immediately after the execution of lease with district authority.
5. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storage & transportation of the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
6. Considering the Solar Panel is located within 500m from the lease boundary, the PP shall carry out the blasting operations involving the small hole dia holes of 32-34 mm & 1.5 m depth involving maximum of 30 to 40 holes only in a round at a time with keeping the total aggregate explosive charge/hole is limited to 375g by adopting the Muffle Blasting Technique in accordance with the provisions of MMR 1961.
7. 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


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

8. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
9. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
10. The PP shall **annually** carry out an Occupational Health Survey (OHS) in accordance with the guidelines & period of examination laid in the DGMS (Tech.) (S&T) Circular No. 01 of 2011, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952 by actively involving State Government officials and Non-Government Organizations (NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual compliance certificate shall be submitted

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

11. The PP shall develop Green belt/plantation all along the mining lease boundary in a safety barrier & fencing around the mine lease area before obtaining the CTO from the DEE, TNPCB.
12. As proposed by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Middle School, Kokkai Village, Namakkal District before obtaining CTO from TNPCB.


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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.


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GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS

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


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

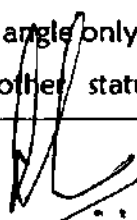

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14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
15. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring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


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

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

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


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ROUGH STONE/JELLY/BLUE METAL QUARRY

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

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

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


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

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


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

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

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

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

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

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

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

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

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


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

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

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


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


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


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

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

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


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14. Quantity of minerals mined out.

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

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

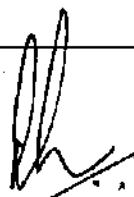
16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc.,

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

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

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


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


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- and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
 28. Impact on local transport infrastructure due to the Project should be indicated.
 29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc..) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
 30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
 31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
 32. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
 33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner


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


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

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


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Annexure II

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

1. Statutory Compliance:

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

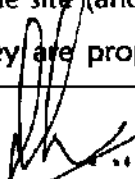

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9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
 10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy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


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

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

3. Water Quality Monitoring and Preservation:

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


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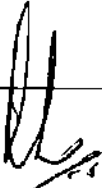

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specified separately for ground water and surface water sources, ensuring that there is no impact on other users.

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

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


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4. Noise Monitoring and Prevention:

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

5. Energy Conservation Measures:

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

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

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

6. Waste Management:

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

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

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

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

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

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

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


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

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

7. Green Cover:

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

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

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

8. Transport:

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


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

9. Human Health Issues:

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

10. Corporate Environment Responsibility:

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

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

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

11. Miscellaneous:

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


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

Appendix -I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விவம்
2	<i>Adenanthera pavonina</i>	Manjadi	மஞ்சள், ஆமைக்குழந்தை
3	<i>Albizia lebbek</i>	Vaagai	வாளை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆதி
7	<i>Bauhinia tomentos</i>	Iruvattu	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமர
9	<i>Borassus flabellifer</i>	Parai	பாளை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Punnai	புனை
13	<i>Cassia fistula</i>	Sarakondrai	சர்க்காண்டரை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்காண்டரை
15	<i>Chloroxylon swietenia</i>	Purasamaram	புரசமரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கொங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvuli	நாறுவி
18	<i>Cretea adansoni</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சீரு உவா
21	<i>Diospyro sebenum</i>	Karungali	கரங்காலை
22	<i>Diospyro schloroxylon</i>	Vapanai	வாபளை
23	<i>Ficus amplissima</i>	Kallchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பாசா
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம், ஆயில்
27	<i>Lansea coromandelica</i>	Odhiam	ஒடியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் நெட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விலை மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பின்பட்டை, பிச்சிப்பட்டை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மாழைமரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	காடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனா
38	<i>Phoenix sylvestre</i>	Eachai	ஈசைமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்


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40	<i>Premna mollissima</i>	Munnai	முள்ளை
41	<i>Premna serratifolia</i>	Narumunnai	தது முள்ளை
42	<i>Premna tomentosa</i>	Malaipoovarasu	மலை பூவரசு
43	<i>Prosopis cinerea</i>	Vanni maram	வள்ளி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேளிசாமிந்த
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கறிபாலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊதா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புக்கள் சோப்புக்காய்
50	<i>Saraca asoca</i>	Asoca	அசிசாசா
51	<i>Strobilus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxtomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாள் கேட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாந்தி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேளி மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தா வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecolobium dulce</i>	Kodukkapuli	கொடுக்காப்புளி

