

State Expert Appraisal Committee (SEAC)

Minutes of 483rd meeting of the State Expert Appraisal Committee (SEAC) held on 18.07.2024 (Thursday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Mining Projects.

Confirmation of Earlier Minutes

The minutes of the 482nd SEAC meeting held on 12.07.2024 were circulated to the Members in advance and as there were no remarks, the Committee decided to confirm the minutes.

Agenda No: 483 - 01


File No: 10985/2024 (Old. F No. 9961)

Existing Grey Granite Quarry lease over an extent of 1.42.0 Ha of Patta land in S.F.Nos. 45/2E & 754/1A(Part), Alerahalli & Kadappasandampatti Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu by Thiru.M. Jayapal –For Environmental Clearance (3rd Scheme of mining). (SIA/TN/MIN/478149/2024, Dated: 05/06/2024)

The proposal was placed for appraisal in this 483rd meeting of SEAC held on 18.07.2024. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The project proponent made a detailed presentation.

The SEAC noted the following:

1. The Project Proponent, Thiru.M. Jayapal has applied for Environmental Clearance for the Existing Grey Granite Quarry lease over an extent of 1.42.0 Ha of Patta land in S.F.Nos. 45/2E & 754/1A(Part), Alerahalli & Kadappasandampatti Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category “B2” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006 as amended.
3. EC Lr.No.SEIAA-TN/F.No.9961/EC.No:5827/2023 dated 28.06.2023 for the grey granite production of 4446m³ @ 30% recovery of grey granite for 2 years. SEAC further noted that the PP has mined only one bench of depth upto 6m


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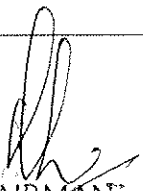

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BGL in the last 11 months. Hence, the Committee decided not to insist on requirement of CCR for the existing quarry.

File No.	10985 SIA/TN/MIN/478149/2024	Category	B2 1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	M. Jayapal
2.	Type of quarrying (Ordinary/ Rough Stone/ Sand/ Granite/ Limestone)	:	Grey Granite
3.	S.F Nos. of the quarry site	:	45/2E & 754/1A(Part)
4.	Village in which situated	:	Alerahalli & Kadappasandampatti
5.	Taluk in which situated	:	Pochampalli
6.	District in which situated	:	Krishnagiri
7.	Extent of quarry (in ha.)	:	1.42.0ha
8.	Latitude & Longitude of all corners of the quarry site	:	12°22'51.95063"N to 12°22'56.95274"N 78°23'4.83521"E to 78°23'9.75137"E
9.	Topo Sheet No.	:	57-L/07
10.	Type of mining	:	Opencast Mechanized Mining
11.	Details of Environmental Setting	:	Puligundu RF – 6.40km -NW/ Cauvery North Wildlife Sanctuary – 45.17km -West
12.	NBWL Clearance/ Conservation Measures	:	NA
13.	Details of Previous History	:	Previous Environmental Clearance was obtained from SEIAA vide Lr. No. SEIAA- TN/F.No.9961/ 1(a)/ EC. No: 5827/2023, dated: 28.06.2023 for the 2 nd scheme of Mining.
14.	CCR, If Applicable	:	-
15.	Life of Project	:	20 Years


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2


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	Lease Period	:	20 Years
	Mining Plan Period	:	5 Years
	Mining Plan / 3 rd Scheme of Mining Details	:	-
	Geological Resources m ³	:	330712m ³ -
	Mineable Resources m ³ (RoM)	:	128278m ³ -
16.	Proposed Production m ³ (Grey Granite)	:	127046m ³ -
	Annual Peak Production in m ³ (RoM)	:	25457m ³ -
	Maximum Depth in meters	:	26m BGL
17.	Depth of water table	:	50m-55m
18.	Man Power requirement per day:	:	20 Nos
	Water requirement:		2.9kLD
	1. Drinking & Domestic	:	0.9kLD
19.	2. Dust Suppression	:	1.0kLD
	3. Green belt	:	1.0kLD
20.	Power requirement	:	NA
21.	Precise area communication	:	G.O.3(D). No. 88 Industries (MME-2) Department dated 12.12.2007.
22.	Mining Plan approved by Dept. of Geology & Mining.	:	Rc.No.3050/MM4/2024, dated: 22.05.2024
23.	500m cluster letter issued by Dept. of Geology and Mining.	:	Rc.No.741/2012/Mines, dated: 31.05.2024
24.	VAO Certificate Regarding Structures within 300m Radius	:	VAO Letter dated 08.04.2024.



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25.	Project Cost (excluding EMP cost)	:	Rs. 54,00,000/-
26.	EMP cost (in Rs. Lakhs).	:	Rs. 148.3Lakh
27.	CER cost (in Rs. Lakhs).	:	Rs. 2 Lakh as committed by the PP
28.	SEAC Recommendation	:	Recommended
29.	Recommendation Quantities	:	Annual peak production of 25457m ³ of RoM upto the ultimate depth of 26m BGL
30.	Standard Conditions	:	Annexure- 1
31.	Is the proposed depth more than 40m.	:	NO
32.	If 31 above is YES	:	NA
33.	Is the proposed area located near Reserve Forest	:	NO
34.	If 33 above is YES	:	NA
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 of not exceeding 25457m³ of ROM by maintaining the ultimate working depth of mining upto 26m BGL and it shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022, subject to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC.
- 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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4


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- 3) 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.
- 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 project proponent shall maintain 7.5m greenbelt in safety zone and such plantation should not be disturbed.
- 6) The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
- 7) 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.
- 8) 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.
- 9) As a part of EMP, the PP shall annually carry out the Star Rating evaluation of the quarry by depositing Rs. Five lakhs with the Department of Mining Engineering, Anna University, Chennai before executing the lease, for the efforts and initiatives taken for implementation of the Sustainable Development Framework till the month of March of every year for a period of five years and necessarily obtain the Star Rating Certification accordingly. A copy of 'Star Rating Certification' shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM as a part of Environmental Compliance without any deviation.
- 10) The PP shall fulfil the requirements of the provisions of Mines Act 1952, the regulations of MMR 1961 and the DGMS Circulars, the Environment Act & Rules, 1986, Explosives Act 1884, Explosive rules 1983 and other laws, orders pertaining to the geometry of quarry and its operation without any deviation.


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5


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- 11) As accepted by the Project Proponent the CER cost of Rs. 2 Lakh shall be spent for the committed activities at the Government Primary School at Alerahalli/ Kadappasandampatti Village before obtaining CTO from TNPCB.

Agenda No. 483 - 02

File No.10986/2024

Proposed Rough Stone Quarry lease area over an extent of 2.83.5 Ha (Government land) at S.F.No. 67/2 of Mangalrevu village, Peraiyur Taluk, Madurai District, Tamil Nadu by Thiru. S. Rajapoornachandran - For Environmental Clearance.

(SIA/TN/MIN/476795/2024 Dt.29.05.2024)

The proposal was placed in the 483rd meeting of SEAC held on 18.07.2024. 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. Rajapoornachandran has applied for Environmental Clearance for the Proposed Rough Stone Quarry lease area over an extent of 2.83.5 Ha (Government land) at S.F.No. 67/2 of Mangalrevu village, Peraiyur Taluk, Madurai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the proposal are as follows:

File No	10986/2024	Category	B2
	476795/2024		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. S. Rajapoornachandran, S/o. Subbareddiyar, No. 19, Nellaiyappapuram, Thirunagar, Tirupparankundram, Madurai District – 625 006.
2.	Type of quarrying	:	Rough Stone Quarry
3.	S.F Nos. of the quarry site	:	67/2


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6


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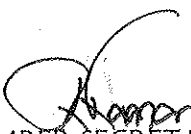
4.	Village in which situated	:	Mangalrevu
5.	Taluk in which situated	:	Peraiyur
6.	District in which situated	:	Madurai
7.	Extent of quarry (in ha.)	:	2.83.50 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	09°47'59.13"N to 09°48'06.26"N : 77°48'42.03"E to 77°48'49.72"E
9.	Topo Sheet No.	:	58-G/13
10.	Type of mining	:	Opencast Semi-Mechanized Mining
11.	Details of Environmental Setting.	:	<ul style="list-style-type: none"> • Nearest Village – Mangalveru Village – 0.6 km - SW • Two Ooranis adjoining the western and north eastern side • Odai – 150m - N
12.	NBWL Clearance/ Conservation Measures	:	Conservation measures - Rs. 5.67 Lakhs towards SMTR.
13.	Details of Previous History	:	This is an existing quarry area, the applied area was previously quarried by Thiru.D.Sakthivel during the lease period 20.08.2009 To 19.08.2019. Existing pit depth – 30m (10m AGL + 20m BGL)
14.	CCR If Applicable	:	Not Applicable.
15.	Life of Projects	:	5 years
	Lease Period	:	5 years
	Mining Plan Period	:	5 years
16.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m ³ (RoM)	:	Rough Stone – 10,86,050m ³
	Minable Resources m ³ (RoM)	:	Rough Stone – 3,57,020 m ³


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7


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	Annual Peak Production in m ³	: Rough Stone – 72,660m ³	-
	Maximum Depth in meters	: 55m (10m AGL + 45m BGL)	-
17.	Depth of water table	: 65m BGL	
18.	Man Power requirement per day:	: 35 Nos.	
19.	Water requirement: 1. Drinking & Domestic Purpose 2. Dust suppression 3. Green Belt	: 3.0 KLD 1.0 KLD 1.0 KLD 1.0 KLD	
20.	Power requirement	: 285.616 KL of HSD (Entire Project Life)	
21.	Precise area communication approved by the Deputy Director, Dept. of Geology and Mining.	: Rc.No.140/Kanimam/2024, dated:06.03.2024	
22.	Mining Plan approved by the Deputy Director, Dept. of Geology and Mining.	: Roc.No.140/Mines/2024, dated:16.05.2024.	
23.	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining.	: Roc.No.140/Mines/2024-2, dated:16.05.2024.	
24.	VAO Certificate Regarding Structures within 300m Radius	: Letter dated:03.05.2024.	
25.	Project Cost (excluding EMP cost)	: Rs. 1,85,15,000/-	
26.	EMP cost (in Rs. Lakhs).	Capital Cost – Rs. 78.96 Lakhs Recurring Cost – Rs. 32.41 Lakhs	


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27.	CER cost (in Rs. Lakhs).	Rs. 8,00,000/-	
28.	EC Recommendation	: Validity	30 years subject to the following upper limits.
		: Annual Max RoM	Rough Stone 72,660m ³
		: Max Depth in mtrs	55m (10m AGL + 45m BGL)
29.	Standard Conditions	: Annexure I	
30.	Is the depth recommended more than 40m.	: YES	NO
31.	If 30 above is YES	: Special Conditions II	
32.	Is the proposed area located near Reserve Forest	: YES	NO
33.	If 32 above is YES	: Special Conditions III	
34.	Other Special Conditions	: As stipulated below	

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 72,660m³ of rough stone by maintaining the ultimate depth of mining up to 55m (10m above ground level + 45m below ground level) subject to the following specific conditions and it shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022:

- 1) The prior Environmental Clearance granted for this mining project shall be valid subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC.
- 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.



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- 3) The PP shall carry out the quarrying operations from the top to downwards in the hillock by maintaining adequate benches incorporating a dedicated, proper haul road of possessing gradient of not more than 1 in14 with safety bunds.
- 4) The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
- 5) The PP shall 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) The PP shall abide by the mitigation and restoration measures provided in the final Environment Impact Assessment and Environment Management plan prepared for the project life.
- 7) The project proponent shall maintain 7.5m greenbelt in safety zone and such plantation should not be disturbed.
- 8) The PP shall abide by all the conditions as stipulated in accordance with the provisions of MMR 1961 and DGMS Circular No.7 of 1997 while carrying out the controlled blasting operations through a statutorily competent persons appointed by him.
- 9) The PP shall strictly satisfy the requirements of the provisions of Mines Act 1952, the regulations of MMR 1961 and the DGMS Circulars, the Environment Act & Rules, 1986, Explosives Act 1884, Explosive rules 1983 and other laws, orders pertaining to the quarry operation without any deviation.
- 10) The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
- 11) As accepted by the Project Proponent the CER cost is Rs. 8 Lakhs and the amount shall be spent towards Municipal Elementary School, Vilampatti for the activities as committed before obtaining CTO from TNPCB.
- 12) As accepted by the project proponent, Rs.5.67 Lakhs shall be spent for the conservation measures towards SMTR in consultation with the concerned DFO through Wildlife Warden, Chennai.


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10


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Agenda No: 483-03

(File No: 10945/2024)

Proposed Rough stone & Gravel quarry lease over an extent of 2.99.6Ha at SF.Nos. 29/1(P) & 29/2(P) of Ulakudi Village, Srivaikundam Taluk, Thoothukudi District, Tamil Nadu by Thiru .J .Dhanapaul - For Environmental Clearance.

(SIA/TN/MIN/474598/2024, Dated:24.05.2024).

The proposal was placed in the 483rd meeting of SEAC held on 18.07.2024. 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.J.Dhanapaul has applied for Environmental Clearance for the Proposed Rough stone & Gravel quarry lease over an extent of 2.99.6Ha at SF.Nos. 29/1(P) & 29/2(P) of Ulakudi Village, Srivaikundam 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.

File No.	10945/2024 SIA/TN/MIN/474598/2024, Dated:24.05.2024	Category	B2 1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. J.Dhanapaul S/o. Jebadurai No. 16D/8, Jeyalai Street, Palai Road west, Thoothukudi District.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone & Gravel quarry
3.	S.F Nos. of the quarry site	:	29/1(P) & 29/2(P)
4.	Village in which situated	:	Ulakudi
5.	Taluk in which situated	:	Srivaikundam
6.	District in which situated	:	Thoothukudi


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11

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7.	Extent of quarry (in ha.)	:	2.99.6Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	8° 47' 23.979" N to 8° 47' 29.395" N 77° 51' 9.660" E to 77° 51' 19.019" E	
9.	Topo Sheet No	:	58- H/13	
10.	Type of mining	:	Opencast Semi mechanized Mining	
11.	Details of Environmental Setting.	:	Sivalaperi R.F – 650m – W Vallanadu Black Buck Sanctuary – 6.5km – S	
12.	NBWL Clearance/Conservation Measures	:	-	
13.	Details of Previous History	:		
14.	CCR If Applicable	:	-	
15.	Life of Project	:	10 Years	
	Lease Period	:	5 Years	
	Mining Plan Period	:	5 Years	
16.	Mining Plan Details	:	As per approved Mining Plan	
			Rough stone	Gravel
	Geological Resources m ³ (RoM)	:	8,27,366m ³ (95% Recovery)	-
	Minable Resources m ³ (RoM)	:	5,12,657m ³ (95% Recovery)	48,384m ³
	Annual Peak Production in m ³	:	63,270m ³ (95% Recovery)	22,784m ³
	Maximum Depth in meters	:	38m BGL	
	Depth of water table	:	60m	
17.	Man Power requirement per day	:	21 Employees	
18.	Water requirement:	:	5.0 KLD	
	1. Drinking water & utilized water	:	1.5 KLD	


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12


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	2. Dust suppression & Green belt		3.0 KLD											
	3. Wet drilling		0.5 KLD											
19.	Power requirement	:	TNEB											
20.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Na. No.G.M.1/6/2021, Dated:07.05.2024.											
21.	Mining Plan approved by Assistant Director, Department of G&M.	:	Roc. No.G.M.1/6/2021, Dated:17.05.2024.											
22.	500m Cluster Letter approved by the Assistant Director, Department of G&M.	:	Roc. No.G.M.1/6/2021, Dated:20.05.2024.											
23.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:18.05.2024.											
24.	Project Cost (excluding EMP cost)	:	Rs 90,00,000/-											
25.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs.17,28,000/- Recurring Cost – Rs.15,23,800/-											
26.	CER cost (in Rs. Lakhs).	:	Rs.5,00,000											
27.	SEAC Recommendation.	:	Recommended											
28.	Recommended Quantities	:	<table border="1"> <tr> <td rowspan="2">Validity</td> <td colspan="2">30 years subject to the following upper limits.</td> </tr> <tr> <td>Rough stone</td> <td>Gravel</td> </tr> <tr> <td>Annual Max in m³</td> <td>63,270m³</td> <td>22,784m³</td> </tr> <tr> <td>Max Depth in mtrs</td> <td colspan="2">38m BGL</td> </tr> </table>	Validity	30 years subject to the following upper limits.		Rough stone	Gravel	Annual Max in m ³	63,270m ³	22,784m ³	Max Depth in mtrs	38m BGL	
Validity	30 years subject to the following upper limits.													
	Rough stone	Gravel												
Annual Max in m ³	63,270m ³	22,784m ³												
Max Depth in mtrs	38m BGL													
29.	Standard Conditions	:	Annexure I											
30.	Is the depth recommended	:	NO											

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13

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	more than 40m.		
31.	If 30 above is YES	:	Special Conditions II
32.	Is the proposed area located near Reserve Forest	:	NO
33.	If 32 above is YES	:	Special Conditions III
34.	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 of not exceeding 63,270 m³ (95% Recovery) of Rough stone and 22,784m³ of gravel by maintaining the ultimate working depth of mining upto 38m BGL subject to the following specific conditions and it shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022:

- 1) The prior Environmental Clearance granted for this mining project shall be valid subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC.
- 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 ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
- 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 abide by the mitigation and restoration measures provided in the final Environment Impact Assessment and Environment Management plan prepared for the project life.


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- 6) The project proponent shall maintain 7.5m greenbelt in safety zone and such plantation should not be disturbed.
- 7) The PP shall abide by all the conditions as stipulated in accordance with the provisions of MMR 1961 and DGMS Circular No.7 of 1997 while carrying out the controlled blasting operations through a statutorily competent persons appointed by him.
- 8) The proponent shall carryout suppression of dust generated due to transport vehicles by continuous water spraying using tankers.
- 9) The project proponent shall not use village road for mineral transportation purpose.
- 10) The PP shall strictly satisfy the requirements of the provisions of Mines Act 1952, the regulations of MMR 1961 and the DGMS Circulars, the Environment Act & Rules, 1986, Explosives Act 1884, Explosive rules 1983 and other laws, orders pertaining to the quarry operation without any deviation.
- 11) 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.
- 12) The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
- 13) As accepted by the Project Proponent the CER cost is Rs. 5 Lakhs and the amount shall be spent towards creating waterholes in Vallanadu Black Buck Sanctuary through the Chief Wildlife Warden, Chennai, before obtaining CTO from TNPCB.

Agenda No: 483-04

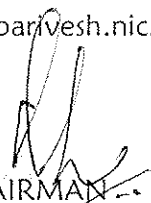
(File No: 10953/2024)

Proposed Rough stone quarry lease over an extent of 0.92.0Ha at SF.No. 379 of Ayyapatti Village, Melur Taluk, Madurai District, Tamil Nadu by Thiru, A. Raja - For Environmental Clearance. (SIA/TN/MIN/476540/2024, Dated:28.05.2024).

The proposal was placed in the 483rd meeting of SEAC held on 18.07.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


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15


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The SEAC noted the following:

1. The Project Proponent, Thiru, A. Raja has applied for Environmental Clearance for the Proposed Rough stone quarry lease over an extent of 0.92.0Ha at SF.No. 379 of Ayyapatti Village, Melur Taluk, Madurai 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.	10953/2024 SIA/TN/MIN/476540/2024, Dated:28.05.2024	Category	B2 1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru, A. Raja S/o. Adaikkan, No. 4/178, Ottakovilpatti, Ayyapatti Panchayat, Melur Taluk, Madurai District- 625 103
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone & Gravel quarry
3.	S.F Nos. of the quarry site	:	379
4.	Village in which situated	:	Ayyapatti
5.	Taluk in which situated	:	Melur
6.	District in which situated	:	Madurai
7.	Extent of quarry (in ha.)	:	0.92.0Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10°10'54.40" N to 10°10'58.32" N 78°21'27.87"E to 78°21'35.32" E
9.	Topo Sheet No	:	58- J/08
10.	Type of mining	:	Opencast Manual Mining
11.	Details of Environmental Setting.	:	Reserve Forest – Sottakarai RF – 4.98km – North


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		Wild Life Sanctuary – Vettangudi Birds Sanctuary –18km – SE
12.	NBWL Clearance/Conservation Measures	-
13.	Details of Previous History	Lessee: Thiru. L. Lakshmikanthan Lease Period: 13.06.2003 to 12.06.2008 vide Proceeding Letter: Roc. No. 981/2003/Mines-A, Dated: 20.05.2003
14.	CCR If Applicable	: -
15.	Life of Project	: 5 Years
	Lease Period	: 5 Years
	Mining Plan Period	: 5 Years
16.	Mining Plan Details	: As per approved Mining Plan
		Rough stone Topsoil
	Geological Resources m ³ (RoM)	: 1,00,359m ³ 518m ³
	Minable Resources m ³ (RoM)	: 36,018m ³ -
	Annual Peak Production in m ³	: 8,008 m ³ 22,784m ³
	Maximum Depth in meters	: 17m (2m AGL +15m BGL)
	Depth of water table	: 58m - 62m
17.	Man Power requirement per day	: 22 Employees
18.	Water requirement:	1.5 KLD
	1. Drinking water & utilized water	: 0.3 KLD
	2. Dust suppression & Green belt	: 0.4 KLD
19.	Power requirement	: TNEB
20.	Precise area communication approved by the Deputy Director, Department of G&M.	: Rc.No. 127/Mines/2024 dated 07.03.2024


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SEAC -TN

17


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21.	Mining Plan approved by Deputy Director, Department of G&M.	:	Roc.No.127/Mines/2024 Dated: 02.05.2024.	
22.	500m Cluster Letter approved by the Deputy Director, Department of G&M.	:	Roc.No.127/Mines/2024-2Dated: 02.05.2024.	
23.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:15.05.2024.	
24.	Project Cost (excluding EMP cost)	:	Rs.63,19,000/-	
25.	EMP cost (in Rs. Lakhs).	:	Rs.61 Lakhs	
26.	CER cost (in Rs. Lakhs).	:	Rs.5,00,000	
27.	SEAC Recommendation.	:	Recommended	
28.	Recommended Quantities	:	Validity	30 years subject to the following upper limits.
				Rough stone
		:	Annual Max in m ³	8,008m ³
		:	Max Depth in mtrs	17m (2m AGL +15m BGL)
29.	Standard Conditions	:	Annexure I	
30.	Is the depth recommended more than 40m.	:	NO	
31.	If 30 above is YES	:	Special Conditions II	
32.	Is the proposed area located near Reserve Forest	:	NO	
33.	If 32 above is YES	:	Special Conditions III	
34.	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


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18



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annual peak production capacity of not exceeding 8,008 m³ of Rough stone by maintaining the ultimate working depth of mining upto 17m (2m AGL +15m BGL) subject to the following specific conditions and it shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022:

- 1) The prior Environmental Clearance granted for this mining project shall be valid subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC.
- 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 carry out the quarrying operations from the top to downwards in the hillock by maintaining adequate benches incorporating a dedicated, proper haul road of possessing gradient of not more than 1 in14 with safety bunds.
- 4) The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
- 5) The PP shall 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) The PP shall abide by the mitigation and restoration measures provided in the final Environment Impact Assessment and Environment Management plan prepared for the project life.
- 7) The project proponent shall maintain 7.5m greenbelt in safety zone and such plantation should not be disturbed.
- 8) Since the highway road is situated within a radial distance of 500 m, the PP shall carry out only one blast per day for not more than 30 to 40 holes in a round, with maximum charge of 375g/hole with muffle technique by keeping the adequate number of guards at the boundary of danger zone (i.e., 500m) to ensure that no other persons present within the danger zone.


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SEAC -TN

19


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SEAC- TN

- 9) The PP shall abide by all the conditions as stipulated in accordance with the provisions of MMR 1961 and DGMS Circular No.7 of 1997 while carrying out the controlled blasting operations through a statutorily competent persons appointed by him.
- 10) The proponent shall carryout suppression of dust generated due to transport vehicles by continuous water spraying using tankers.
- 11) The project proponent shall not use village road for mineral transportation purpose.
- 12) The PP shall strictly satisfy the requirements of the provisions of Mines Act 1952, the regulations of MMR 1961 and the DGMS Circulars, the Environment Act & Rules, 1986, Explosives Act 1884, Explosive rules 1983 and other laws, orders pertaining to the quarry operation without any deviation.
- 13) 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.
- 14) As accepted by the Project Proponent the CER cost is Rs. 5 Lakhs and the amount shall be spent towards Panchayath Union Middle School, Madurai District for the activities as committed before obtaining CTO from TNPCB.

Agenda No: 483-05

(File No: 10946/2024)

Proposed Rough Stone quarry over an extent of 1.21.5 Ha (Government Poramboke land) at S.F.No. 177/1 (Part-3) of Vellakuttai Village, Vaniyambadi Taluk, Tirupathur District, Tamil Nadu by Thiru. G. Viswanathan – For Environmental Clearance.

(SIA/TN/MIN/470477/2024, Dated: 27.05.2024)

The proposal was placed for appraisal in this 483rd meeting of SEAC held on 18.07.2024. 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. G. Viswanathan has applied for Environmental Clearance for the Proposed Rough Stone quarry over an extent of 1.21.5 Ha


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20


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(Government Poramboke land) at S.F.No. 177/1 (Part-3) of Vellakuttai Village, Vaniyambadi Taluk, Tirupathur District, Tamil Nadu.

2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was accorded to the project proponent, Thiru. G. Vishwanathan vide Lr. No.SEIAA-TN/F.No.5205/1(a)/EC.No:3805/2016 dated: 05.06.2017 for the Rough Stone quarry over an extent of 1.20.0 Ha (Government Poramboke land) at S.F.No. 177/1 of Vellaikuttai Village, Vaniyambadi Taluk, Vellore District, Tamil Nadu, for the production quantity of 106955 m³ of Rough Stone upto the depth of 44m.
4. The project proponent, Thiru. G. Viswanathan earlier applied seeking Environmental Clearance (File No. 7612/2020 and Online Proposal No. SIA/TN/MIN/140277/2020 dated: 03.02.2020) for the Proposed Rough Stone quarry over an extent of 1.20.0 Ha (Government Poramboke land) at S.F.No. 177/1 of Vellaikuttai Village, Vaniyambadi Taluk, Thirupathur District, Tamil Nadu under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006. The proposal was placed for appraisal in the 194th meeting of SEAC held on 18.01.2021. Based on the presentation made and documents furnished by the Project proponent, SEAC decided to instruct the following to the Proponent:
 - 1) SEAC noted that no fencing has been done in the existing quarry endangering stray animals. Fencing shall be done immediately.
 - 2) The Proponent shall furnish compliance report of the existing EC obtained from TNPCB.
 - 3) As this is a Government tendered quarry lease, necessary approval from the Government shall be obtained before increasing the quantity of mineral mined.

On receipt of the above additional details, as this is an expansion project, SEAC decided to make an on - the - spot inspection to assess the present status of the site by the Subcommittee constituted by the SEAC. Based on the inspection report,


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21


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SEAC would further deliberate on this project and decide the further course of action.

Now the subject was placed in this 422nd meeting of the SEAC held on 09.11.2023. The SEAC noted that the PP has not turned up for the meeting. Hence SEAC decided to defer the subject to a later date and to call for explanation from the PP for not attending the meeting.

5. The precise area communication was issued for the period of 10 years. The approved mining plan is for 5 Years. As per the approved mining plan, the annual peak production shall not exceed 31,820 m³ of Rough Stone for this production plan ultimate depth of 20m (5m above ground level + 15m below ground level).

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

File No.	10946 / 2024		Category	B2
	470477 / 2024			1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. G. Viswanathan, S/o. Gunasekaran, No.519, Anjeneyar Kovil Street, Fort, Vaniyambadi Taluk, Tirupathur District - 635 751.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone	
3.	S.F Nos. of the quarry site	:	177/1 (Part-3)	
4.	Village in which situated	:	Vellakuttai	
5.	Taluk in which situated	:	Vaniyambadi	
6.	District in which situated	:	Tirupathur	
7.	Extent of quarry (in ha.)	:	1.21.5 Ha (Government Poramboke land)	
8.	Latitude & Longitude of all corners of the quarry site	:	12°40'30.40"N to 12°40'35.34"N 78°40'51.68"E to 78°40'56.47"E	


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9.	Topo Sheet No.	:	57 – L/10																		
10.	Type of mining	:	Opencast Semi-Mechanized Mining																		
11.	Details of Environmental Setting.	:	<p>Reserve Forest: Neknamalai RF - 150m - West</p> <p>Wildlife Sanctuary: Koundinya Wildlife Sanctuary - 12.17km - NW</p> <p>Water bodies: Palar River - 8.36km - West</p> <p>Nearest Habitation: Vellakkuttai Village - 1.85km - SE</p> <p>Structures:</p> <table border="1"> <thead> <tr> <th>Distance Range</th> <th>No of Structures</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>0-100m</td> <td>Nil</td> <td>-</td> </tr> <tr> <td>100m-200m</td> <td>Nil</td> <td>-</td> </tr> <tr> <td>200m-300m</td> <td>Farm House- 1 Shed- 1</td> <td>South, SW</td> </tr> <tr> <td>300m-400m</td> <td>House- 3 Shed- 1</td> <td>East South</td> </tr> <tr> <td>400m-500m</td> <td>House- 5</td> <td>SE, South, SW</td> </tr> </tbody> </table>	Distance Range	No of Structures	Direction	0-100m	Nil	-	100m-200m	Nil	-	200m-300m	Farm House- 1 Shed- 1	South, SW	300m-400m	House- 3 Shed- 1	East South	400m-500m	House- 5	SE, South, SW
Distance Range	No of Structures	Direction																			
0-100m	Nil	-																			
100m-200m	Nil	-																			
200m-300m	Farm House- 1 Shed- 1	South, SW																			
300m-400m	House- 3 Shed- 1	East South																			
400m-500m	House- 5	SE, South, SW																			
12.	NBWL Clearance/Conservation Measures	:	NA																		
13.	Details of Previous History	:	1) Earlier, EC was accorded to the PP, Thiru.G.Vishwanathan vide Lr. No.SEIAA-TN/F.No.5205/1(a)/EC.No:3805/2016 dated: 05.06.2017 for the Rough Stone quarry over an extent of 1.20.0 Ha																		


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SEAC -TN

23


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SEAC- TN

			<p>(Government Poramboke land) at S.F.No. 177/1 of Vellaikuttai Village, Vaniyambadi Taluk, Vellore District, Tamil Nadu, for the production quantity of 106955 m³ of Rough Stone upto the depth of 44m.</p> <p>2) PP earlier applied seeking Environment Clearance (File No. 7612/2020 & Online Proposal No. 140277/2020)</p> <ul style="list-style-type: none"> • Proposal placed in the 194th SEAC Meeting Dated 18.01.2021 – SEAC instructed the PP to submit additional details & decided to make an on - the - spot inspection to assess the present status of the site • Proposal placed in the 422nd SEAC Meeting Dated 09.11.2023 – SEAC decided to defer the subject to a later date and to call for explanation from the PP for not attending the meeting 	
14.	CCR If Applicable	:	NA	
15.	Life of Project	:	10 Years	
	Lease Period	:	10 Years	
	Mining Plan Period	:	5 Years	
16.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Rough Stone	Rough Stone
		:	4,51,820 m ³	-
	Minable Resources m ³ (RoM)	:	Rough Stone	Rough Stone
		:	1,68,320 m ³	-
	Annual Peak Production in m ³	:	Rough Stone	Rough Stone
:		31,820 m ³	-	


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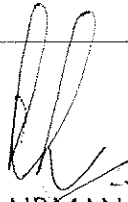
24


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	Maximum Depth in meters	:	20m (5m above ground level + 15m below ground level)	-
17.	Depth of water table	:	50m-55m	
18.	Man Power requirement per day:	:	16 Nos.	
19.	Water requirement: 1. Drinking & Domestic 2. Dust Suppression 3. Green belt	:	3.0 KLD 1.0 KLD 1.0 KLD 1.0 KLD	
20.	Power requirement	:	TNEB 1,34,656 Liters of HSD	
21.	Precise area communication approved by the Assistant Director, Dept. of Geology & Mining	:	Na.Ka.No.17/2024(Kanimam), dated:15.03.2024	
22.	Mining Plan approved by the Assistant Director, Dept. of Geology & Mining	:	Rc. No.17/2024(Mines), dated: 28.03.2024.	
23.	500m cluster letter issued by the Assistant Director, Dept. of Geology & Mining	:	Rc. No.17/2024(Mines), dated: 28.03.2024	
24.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 08.04.2024	
25.	Project Cost (excluding EMP cost)	:	Rs. 79,50,000/-	
26.	EMP cost (in Rs. Lakhs).	:	Capital Cost - Rs. 39.34 Lakhs Recurring Cost - Rs. 10.86 Lakhs	
27.	CER cost (in Rs. Lakhs).	:	Rs. 5,00,000/-	
28.	SEAC Recommendation.	:	Recommended	


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SEAC -TN

25


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		:		Rough Stone
29.	Recommended Quantities	:	Annual Max RoM in m ³	31,820 m ³
		:	Ultimate Depth in mtrs	20m (5m above ground level + 15m 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 Neknamalai RF - 150m - West	
34.	If 32 above is YES	:	Special Conditions III	
35.	Other Special Conditions	:	As below	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 31,820 m³ of Rough Stone by maintaining this production plan ultimate depth of mining up to 20m (5m above ground level + 15m below ground level), subject to the following specific conditions and it shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022:


- 1) The prior Environmental Clearance granted for this mining project shall be valid subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC.
- 2) The PP shall immediately withdraw the already delisted duplicate file (File No. 7612/2020 and Online Proposal No. SIA/TN/MIN/140277/2020 dated: 03.02.2020) in Parivesh portal.


MEMBER SECRETARY
SEAC -TN

26


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SEAC- TN

- 3) 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.
- 4) 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.
- 5) 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.
- 6) The PP shall carry out the quarrying operations from the top to downwards in the hillock by maintaining adequate benches incorporating a dedicated, proper haul road of possessing gradient of not more than 1 in14 with safety bunds.
- 7) The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
- 8) 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.
- 9) The PP shall abide by the mitigation and restoration measures provided in the final Environment Impact Assessment and Environment Management plan prepared for the project life.
- 10) The project proponent shall maintain 7.5m greenbelt in safety zone and such plantation should not be disturbed.
- 11) Since the building structures and farmlands are situated within a radial distance of 500 m, the PP shall carry out only one blast per day for not more than 30 to 40 holes in a round, with maximum charge of 375g/hole with muffle technique by keeping the adequate number of guards at the boundary of danger zone (i.e., 500m) to ensure that no other persons present within the danger zone.


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SEAC -TN


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SEAC- TN

- 12) The PP shall abide by all the conditions as stipulated in accordance with the provisions of MMR 1961 and DGMS Circular No.7 of 1997 while carrying out the controlled blasting operations through a statutorily competent persons appointed by him.
- 13) The proponent shall carryout suppression of dust generated due to transport vehicles by continuous water spraying using tankers.
- 14) The project proponent shall not use village road for mineral transportation purpose.
- 15) The PP shall strictly satisfy the requirements of the provisions of Mines Act 1952, the regulations of MMR 1961 and the DGMS Circulars, the Environment Act & Rules, 1986, Explosives Act 1884, Explosive rules 1983 and other laws, orders pertaining to the quarry operation without any deviation.
- 16) 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.
- 17) As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Government Higher Secondary School, Vellakuttai Village, Vaniyambadi Taluk, Tirupathur District before obtaining CTO from TNPCB.

Agenda No: 483-06

(File No: 10955/2024)

Proposed Rough Stone quarry over an extent of 1.00.0 Ha (Government Poramboke land) at S.F.No. 232 (Part-4) of Nadupatti Village, Kadaiyampatti Taluk, Salem District, Tamil Nadu by Tmt. S. Vellaiyammal – For Environmental Clearance.

(SIA/TN/MIN/477516/2024, Dated: 31.05.2024)

The proposal was placed for appraisal in this 483rd meeting of SEAC held on 18.07.2024. 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. S. Vellaiyammal has applied for Environmental Clearance for the Proposed Rough Stone quarry over an extent of 1.00.0 Ha


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SEAC -TN

28


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(Government Poramboke land) at S.F.No. 232 (Part-4) of Nadupatti Village, Kadaiyampatti 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. PP have previously submitted application for Environmental Clearance and requested for withdrawal of the proposal vide Online Proposal No. SIA/TN/MIN/431259/2023, Dated: 28.05.2023. PP also submitted withdrawal letter for the same vide letter dated 24.06.2024.

The SEAC noted that the project proponent has not attended the meeting due to non-availability of certified compliance report. Hence, the subject was not taken up for appraisal and the Committee decided to defer the proposal for the want of certified compliance report.

Agenda No:483-07

(File No:10957/2024)

Proposed Rough stone quarry over an Extent of 0.80.0 Ha at S.F.Nos. 20/1B1 (part) of Sengal Village, Krishnarayapuram Taluk, Karur District, Tamil Nadu by Thiru.K.Manisekaran - For Environmental Clearance. (SIA/TN/MIN/476173/2024, Dated: 30.05.2024).

The proposal was placed in the 483rd Meeting of SEAC held on 18.07.2024. The SEAC noted that the project proponent has not attended the meeting and the project proponent vide email dated:17.07.2024 has requested for additional time to produce Certified Compliance Report for the earlier EC issued. Hence, the subject was not taken up for discussion.

Agenda No:483-08

(File No:10983/2024)

Proposed Rough stone quarry over an extent of 1.90.0Ha at S.F.Nos. 2202/1 (Part-1B) of Allinagaram Village, Theni Taluk, Theni District, Tamil Nadu by Tmt.C.Seeniyammal (President), Tvl. Nila Magalir Sangam- For Environmental Clearance. (SIA/TN/MIN/471725/2024, Dated: 06.05.2024).

The proposal was placed in the 483rd Meeting of SEAC held on 18.07.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


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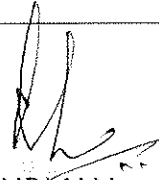
The SEAC noted the following:

1. The Project Proponent, Tmt.C.Seeniyammal (President), Tvl. Nila Magalir Sangam has applied for Environmental Clearance for the Proposed Rough stone quarry over an Extent of 1.90.0Ha at S.F.Nos. 2202/1 (part -1B) of Allinagaram Village, Theni Taluk, Theni 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.	10983		Category	B2
	471725/2024			1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Tmt.C.Seeniyammal (President), Tvl. Nila Magalir Sangam, Veerappa Ayyanar Kovil Main, Uppanuthu Theru, Allinagaram, Theni Taluk, Theni District.	
2.	Type of quarrying (Ordinary Stone/ Sand/ Granite/Limestone)	:	Rough Stone and Gravel Quarry	
3.	S.F Nos. of the quarry site	:	2202/1 (Part-1B)	
4.	Village in which situated	:	Allinagaram	
5.	Taluk in which situated	:	Theni	
6.	District in which situated	:	Theni	
7.	Extent of quarry (in ha.)	:	1.90.0Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	10°02'07.25" N to 10°02'13.85" N 77°26'44.72" E to 77°26'50.34" E	
9.	Topo Sheet No.	:	58 F/08	
10.	Type of mining	:	Opencast Mechanized Mining	
11.	Details of Environmental Setting.	:	Nearest Reserve Forest – Agamalai R.F – 0.97 Km	


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SEAC - TN

30


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SEAC- TN

		<p>Wildlife Sanctuary – SMTR – 17.25km – S, Kodaikanal Wildlife Sanctuary – 10.35km – N Water Bodies – Merusamuthiram River-430m E Nearest Habitation –Valayathupatti-2.65km -S Structure- Poultry farm-120m, Shed-330m</p>
12.	NBWL Clearance/ Conservation Measures	Not Applicable
13.	Details of Previous History	<p>This is an existing quarry area, operated during the period of 23.02.2009 to 22.02.2012. The same lease area was allotted to PP and obtained EC from DEIAA vide Lr.No.SEIAA/TN/F.No.7999/2017/DEIAA/THN/F.No.00027/2017 dated:01.09.2017, but, the PP has informed that no lease deed was executed and no mining was carried out.</p> <p>Earlier, the PP has applied for ToR and ToR issued vide Lr.No.SEIAA-TN/F.No.10415/SEAC/ToR-1597/2023 dated:07.11.2023.</p> <p>Meanwhile, the Proponent has requested to withdraw the ToR issued vide Lr.No.SEIAA-TN/F.No.10415/SEAC/ToR-1597/2023 dated:07.11.2023.</p> <p>The subject was appraised in the 460th meeting of SEAC held on 24.04.2024. Based on the presentation and documents furnished by the PP, the Committee observed that the existing quarry of Tvl. Nagaratchi Lathipa Mahalir Suyaudhavikuzhu with extent of 2.00.0 Ha has been expired, in this case the total extent under cluster is 3.92.0 Ha, i.e., less than 5 Ha. Hence,</p>


MEMBER SECRETARY
SEAC -TN

31

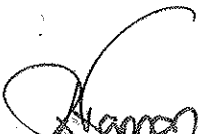

CHAIRMAN
SEAC- TN

		the Committee decided to accept the request for withdrawal of the Terms of Reference (ToR) issued vide Lr.No.SEIAA-TN/F.No.10415/SEAC/ToR-1597/2023 dated:07.11.2023 and SEIAA may take up the withdrawal process in accordance with the provisions stipulated in the law and on merit. Subsequently, The subject was placed in the 719 th authority meeting held on 13.05.2024. After detailed discussions, the authority decided to accept the request for withdrawal of the Terms of Reference (ToR) issued vide Lr.No.SEIAA-TN/F.No.10415/SEAC/ToR-1597/2023 dated:07.11.2023 considering the proponent's request vide 460 th meeting of SEAC held on 24.04.2024.
14.	CCR If Applicable	: Not Applicable
	Life of Project	: 5 Year
15.	Lease Period	: 5 Years
	Mining Plan Period	: 5 Years
	Mining Plan Details	: As per approved Mining Plan Rough Stone
	Geological Resources m ³ (RoM)	: 4,73,975 m ³
16.	Minable Resources m ³ (RoM)	: 1,83,735 m ³
	Annual Peak Production in m ³	: 36,920 m ³
	Maximum Depth in meters	: 40m (20m AGL + 20m BGL)
17.	Depth of water table	: 55 BGL


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

18.	Man Power requirement per day:	:	22 Nos
19.	Water requirement: 1. Drinking & Domestic 2. Dust Suppression 3. Green belt	:	5.0 KLD 1.5 KLD 2 KLD 1.5 KLD
20.	Power requirement	:	TNEB 146992 Liters of HSD
21.	Precise area communication approved by the District Collector	:	Roc.No.141/Mines/2016, dated:07.04.2017
22.	Mining Plan approved by Assistant Director, Dept. of Geology & Mining.	:	Roc.No.141/Mines/2016, dated:24.05.2023
23.	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining.	:	Roc.No.141/Mines/2016, dated:07.03.2024
24.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated: 24.07.2023
25.	Project Cost (excluding EMP cost)	:	Rs. 51.50 Lakhs
26.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 53.6 Lakhs Recurring Cost –Rs. 26.11 Lakhs
27.	CER cost (in Rs. Lakhs).	:	Rs. 8,00,000/- as committed by the PP
28.	SEAC Recommendation.	:	Recommended
29.	Recommended Quantities	:	Validity
			30 years subject to the following upper limits.
			Rough stone


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

		:	Annual Max RoM in m ³	36,920 m ³
		:	Ultimate Depth in mtrs	40m (20m AGL + 20m BGL)
30.	Standard Conditions	:	Annexure I	
31.	Is the depth recommended more than 40m.	:	NO	
32.	If 31 above is YES	:	Annexure II	
33.	Is the proposed area located near Reserve Forest	:	YES	
34.	If 33 above is YES	:	Annexure III	
35.	Other Special Conditions	:	As below	

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 36,920 m³ of Rough stone by maintaining the ultimate depth of mining up to 40m (20m AGL + 20m BGL) subject to the following specific conditions and it shall be valid for the project life including production value as laid down in the mining plan approved and renewed by the competent Authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022:

- 1) The prior Environmental Clearance granted for this mining project shall be valid subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MoEF&CC.
- 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) 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.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

- 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 abide by the mitigation and restoration measures provided in the Environment Management plan prepared for the project life.
- 6) The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
- 7) The PP shall abide by all the conditions as stipulated in accordance with the provisions of MMR 1961 and DGMS Circular No.7 of 1997 while carrying out the controlled blasting operations through a statutorily competent persons appointed by him.
- 8) The PP shall carry out the quarrying operations from the top to downwards in the hillock by maintaining adequate benches incorporating a dedicated, proper haul road of possessing gradient of not more than 1 in14 with safety bunds.
- 9) The PP shall fulfil the requirements of the provisions of Mines Act 1952, the regulations of MMR 1961 and the DGMS Circulars, the Environment Act & Rules, 1986, Explosives Act 1884, Explosive rules 1983 and other laws, orders pertaining to the geometry of quarry and its operation without any deviation.
- 10) As accepted by the Project Proponent the CER cost is Rs. 8.0 Lakhs and the amount shall be spent towards Government Municipal Elementary School, Allinagaram Village, Theni for the activities as committed before obtaining CTO from TNPCB.

Agenda No. 483 - 09

File No.10965/2024


Proposed Ordinary Earth Quarry lease over an extent 3.15.0 Ha at S.F.No. 13(P) (PWD Tank) in Nemili Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu by Thiru. M. Veeramani – For Amendment in Environmental Clearance.

(SIA/TN/MIN/477697/2024 dated:31.05.2024)

The proposal was placed in the 483rd meeting of SEAC held on 18.07.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).


MEMBER SECRETARY
SEAC -TN

35


CHAIRMAN
SEAC- TN

The SEAC noted the following:

1. EC was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.7026/1(a)/EC.No.4181/2020 dated:18.05.2020 for the proposed savudu quarry lease over an extent 3.15.0 Ha at S.F.No. 13(P) (PWD Tank) in Nemili Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.
2. The EC was granted for mining of 28314 cu.m of savudu for the period of 65 days from the date of execution of mining lease period.
3. The proponent has informed that the mining lease has not been executed so far.
4. However, the name of the mineral needs to be amended as 'ordinary earth' instead of savudu as per the Hon'ble Madurai bench of Madras High Court Judgement, dated.12.02.2021 in WP(MD) No.20903 of 2016, etc., and Tamil Nadu Government G.O. Ms.No.244 dated:14.12.2022.
5. Hence, the proponent has submitted an application in Form-4 seeking the following amendment in the EC dated:18.05.2020:

S.No.	As per EC dated.18.05.2020	Amendment requested
1	Savudu	Ordinary earth

6. The proponent has furnished a soil test report obtained from the Department of Geology, University of Madras vide Ref.No:31/Dr.PS/Veeramani/Nemli/Soil Test/2024 dated:25.04.2024. As per the report, the total content of sand in the soil sample is 25%.
7. Further, the Deputy Director, Department of Geology & Mining vide Rc.441/Q3/2018 dated.08.05.2024 has stated as follows:

"... In the approved mining plan dated:29.01.2019 it may please be read as "Ordinary earth" in all the places where it was mentioned as "savudu" and the amendment Environmental Clearance may be issued in the mineral name of "ordinary earth" instead of "Savudu".

In this regard, it is informed that the applied area demarcated by the Water Resource Department to quarry ordinary earth within Periya Eri 13 (P) over an extent of 3.15.00 hect is not situated adjacent to the river, canals, streams, etc., and also not comes under Notified, declared protected zones..."


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

Based on the presentation and details submitted by the project proponent, the Committee decided to recommend the following amendment in the EC dated 18.05.2020:

- 1) The word "savudu" wherever occurred in the EC issued by SEIAA-TN vide Lr.No.SEIAA-TN/F.No.7026/1(a)/EC.No.4181/2020 dated:18.05.2020, may be read as "ordinary earth"
- 2) All other conditions and validity mentioned in the EC dated. 18.05.2020 shall remain unchanged and unaltered.

Agenda No. 483 - 10

File No.10966/2024

Proposed Ordinary Earth Quarry lease over an extent 3.15.0 Ha at S.F.No. 115(P) (Kandur Eri) in Kandur Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu by Thiru. R. Sakthivel – For Amendment in Environmental Clearance (SIA/TN/MIN/477123/2024 dated:29.05.2024)

The proposal was placed in the 483rd meeting of SEAC held on 18.07.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).


The SEAC noted the following:

1. EC was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.7068/1(a)/EC.No.4186/2020 dated:18.05.2020 for the proposed savudu quarry lease over an extent 3.15.0 Ha at S.F.No. 115(P) (Kandur Eri) in Kandur Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.
2. The EC was granted for mining of 28314 cu.m of savudu for the period of 65 days from the date of execution of mining lease period.
3. The proponent has informed that the mining lease has not been executed so far.
4. However, the name of the mineral needs to be amended as 'ordinary earth' instead of savudu as per the Hon'ble Madurai bench of Madras High Court Judgement, dated.12.02.2021 in WP(MD) No.20903 of 2016, etc., and Tamil Nadu Government G.O. Ms.No.244 dated:14.12.2022.
5. Hence, the proponent has submitted an application in Form-4 seeking the following amendment in the EC dated:18.05.2020:

S.No.	As per EC dated.18.05.2020	Amendment requested
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MEMBER SECRETARY
SEAC -TN

37


CHAIRMAN
SEAC- TN

1	Savudu	Ordinary earth
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6. The proponent has furnished a soil test report obtained from the Department of Geology, University of Madras vide Ref.No:24/Dr.PS/Sakthivel/Kandur Eri/Soil Test/2024 dated:24.04.2024. As per the report, the total content of sand in the soil sample is 24%.

7. Further, the Deputy Director, Department of Geology & Mining vide Rc.461/Q3/2018 dated.08.05.2024 has stated as follows:

".... In the approved mining plan dated:29.01.2019 it may please be read as "Ordinary earth" in all the places where it was mentioned as "savudu" and the amendment Environmental Clearance may be issued in the mineral name of "ordinary earth" instead of "Savudu".

In this regard, it is informed that the applied area demarcated by the Water Resource Department to quarry ordinary earth within Kandur Eri 115 (P) over an extent of 3.15.00 hect is not situated adjacent to the river, canals, streams, etc., and also not comes under Notified, declared protected zones..."

Based on the presentation and details submitted by the project proponent, the Committee decided to recommend the following amendment in the EC dated 18.05.2020:

1) The word "*savudu*" wherever occurred in the EC issued by SEIAA-TN vide Lr.No.SEIAA-TN/F.No.7068/1(a)/EC.No.4186/2020 dated:18.05.2020, may be read as "*ordinary earth*"

2) All other conditions and validity mentioned in the EC dated. 18.05.2020 shall remain unchanged and unaltered.

Agenda No: 483-11

(New File No: 10967/2024)

(Old File No:4094/2015)

Proposed Savudu Deposit quarry lease over an extent of 3.14.40Ha at SF.No. 86/2 (P) (PWD Tank) of Kilambi Village, Kancheepuram Taluk, Kancheepuram District, Tamil Nadu by Thiru. V. Raghuvaran - For Amendment in Environmental Clearance.

(SIA/TN/MIN/477893/2024, Dated:31.05.2024)

The proposal was placed in the 483rd meeting of SEAC held on 18.07.2024. The details


MEMBER SECRETARY
SEAC -TN

38


CHAIRMAN
SEAC- TN


of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Environmental Clearance was earlier issued to the project proponent, Thiru. V.Raghuvaran for the Proposed Savudu Deposit quarry lease over an extent of 3.14.40Ha at SF.No. 86/2 (P) (PWD Tank) of Kilambi Village, Kancheepuram Taluk, Kancheepuram District, Tamil Nadu vide Lr. No. SEIAA-TN/F.No.4094/1(a)/EC. No. 2264/2015 dated 23.10.2015 for the quantity of 28,296m³ of savudu for the period of 50days from the date of execution of mining lease period.
2. Earlier EC - Amendment Issued Vide Lr. No. SEIAA-TN/F.No.4094/EC/1(a)/A/2264/2015 dated:12.03.2018.
3. The project proponent has informed that the mining lease deed has not been executed so far due to following reasons,
4. "...Among other reasons such as rainy seasons, Hon'ble High Court order (Prohibiting the colloquial name of Savudu) and Covid Pandemic, The Government of Tamil Nadu vide G.O (Ms) 50.dated 27.04.2017 has banned quarrying of Clay, Silt, Savudu and Gravel on the beds of tanks, channels and reservoirs in the districts of Tiruvallur, Kanchipuram and Chennai. And now The Government of Tamil Nadu vide G.O. Ms. No. 244, Industries, Investment Promotion and Commerce (MMC.1) 14th December 2022 has lifted that ban."
5. Now, the Proponent, Thiru. V. Raghuvaran, has submitted an application in Form-4 seeking amendment in Environmental Clearance dated. 23.10.2015, requesting to change the mineral name to 'ordinary earth' instead of 'savudu'.
6. However, the proponent submitted a letter obtained from Deputy Director – Geology & Mining, vide Rc.218/Q3/2015 dated.08.05.2024 stating as follows:
"... in the approved mining plan dated.18.09.2015 it may please be read as "ordinary earth" in all the places where it was mentioned as "savudu"..."
7. Further, the proponent submitted the soil test report obtained from University of Madras, department of Geology. Guindy campus vide Ref.No:29/Dr.PS/Raghuvaran/Kilambi/ Soil Test/ 2024 dated.24.04.2024. According to the report, the maximum sand content in the soil sample is determined as 56%. The


MEMBER SECRETARY
SEAC -TN

39


CHAIRMAN
SEAC- TN

Soil is classified as "ordinary earth".

8. Further, the proponent submitted a letter dated.08.05.2024 obtained from Deputy Director– Geology & Mining stating that the applied area/ proposed quarry site does not lie adjoining to river, canals, streams, etc., and also not comes under notified, declared protected zones.

9. Now, the PP has requested Amendment in EC as follows:

S.No.	Description	As per EC dated.23.10.2015	Amendment requested
1	Mineral Name	Savudu	Ordinary Earth

Based on the presentation and details submitted by the project proponent, the Committee decided to recommend the Amendment in the EC dated 23.10.2015 as follows:

- 1) The word "*savudu*" in all the places where it was mentioned in the EC issued by SEIAA-TN vide Lr. No. SEIAA-TN/F.No.4094/1(a)/EC. No. 2264/2015 dated 23.10.2015, may be read as "*ordinary earth*"
- 2) All other conditions and validity mentioned in the EC dated. 23.10.2015 shall remain unchanged and unaltered.

Agenda No: 483-12

(New File No: 10968/2024)

(Old File No:7020/2019)

Proposed Savudu quarry lease over an extent of 3.15.0Ha at SF.No. 90 (P) (PWD Tank) of Singlepadi Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu by Thiru.R. Venkateswaran- For Amendment in Environmental Clearance.

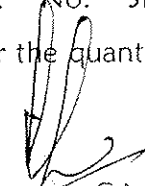
(SIA/TN/MIN/476940/2024, Dated:29.05.2024)

The proposal was placed in the 483rd meeting of SEAC held on 18.07.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Environmental Clearance was earlier issued to the project proponent, Thiru.R. Venkateswaran for the Proposed Savudu quarry lease over an extent of 3.15.0Ha at SF.No. 90 (P) (PWD Tank) of Singlepadi Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu vide Lr. No. SEIAA-TN/F.No.7020/1(a)/EC. No. 4204/2020 dated 27.05.2020 for the quantity of


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

28,314m³ of savudu for the period of 65days from the date of execution of mining lease period.

2. The project proponent has informed that the mining lease deed has not been executed so far due to following reasons,
3. "...Among other reasons such as rainy seasons, Hon'ble High Court order (Prohibiting the colloquial name of Savudu) and Covid Pandemic, The Government of Tamil Nadu vide G.O (Ms) 50.dated 27.04.2017 has banned quarrying of Clay, Silt, Savudu and Gravel on the beds of tanks, channels and reservoirs in the districts of Tiruvallur, Kanchipuram and Chennai. And now The Government of Tamil Nadu vide G.O. Ms. No. 244, Industries, Investment Promotion and Commerce (MMC.1) 14th December 2022 has lifted that ban."
4. Now, the Proponent, Thiru.R. Venkateswaran, has submitted an application in Form-4 seeking amendment in Environmental Clearance dated. 27.05.2020, requesting to change the mineral name to 'ordinary earth' instead of 'savudu'.
5. However, the proponent submitted a letter obtained from Deputy Director – Geology & Mining, vide Rc.459/Q3/2018 dated.08.05.2024 stating as follows:
"... in the approved mining plan dated.29.01.2019 it may please be read as "ordinary earth" in all the places where it was mentioned as "savudu"..."
6. Further, the proponent submitted the soil test report obtained from University of Madras, department of Geology. Guindy campus vide Ref.No:34/Dr.PS/Venkateswaran/ Singlepadi / Soil Test/ 2024 dated.25.04.2024. According to the report, the maximum sand content in the soil sample is determined as 56%. The Soil is classified as "ordinary earth".
7. Further, the proponent submitted a letter dated.08.05.2024 obtained from Deputy Director– Geology & Mining stating that the applied area/ proposed quarry site does not lie adjoining to river, canals, streams, etc., and also not comes under notified, declared protected zones.
8. Now, the PP has requested Amendment in EC as follows:

S.No.	Description	As per EC dated.27.05.202	Amendment requested
1	Mineral Name	Savudu	Ordinary Earth


MEMBER SECRETARY
SEAC -TN

41


CHAIRMAN
SEAC- TN

Based on the presentation and details submitted by the project proponent, the Committee decided to recommend the Amendment in the EC dated 27.05.2020 as follows:

- 1) The word “*savudu*” in all the places where it was mentioned in the EC issued by SEIAA-TN vide Lr. No. SEIAA-TN/F.No.7020/1(a)/EC. No. 4204/2020 dated 27.05.2020, may be read as “*ordinary earth*”
- 2) All other conditions and validity mentioned in the EC dated. 27.05.2020 shall remain unchanged and unaltered.

Agenda No:483-13

File No: 10970/2024

To consider the proposal for the grant of Corrigendum for the Existing Quartzite Quarry lease over an extent of 2.00.0 Ha at S.F.No. 663/2 of Ottapidaram Village, Ottapidaram Taluk, Thoothukudi District, Tamil Nadu by Thiru.K.Kasilingam - Corrigendum in Environmental Clearance.

(Online proposal No.SIA/TN/MIN/478800/2024 Dt: 04.06.2024).

The proposal was placed in the 483rd meeting held on 18.07.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. Earlier, the PP Thiru.K.Kasilingam has obtained Environmental Clearance vide EC24C0108TN5945488N Dated: 24.05.2024 for the Quartzite Quarry over an extent of 2.00.0 Ha at S.F.No. 663/2 of Ottapidaram Village, Ottapidaram Taluk, Thoothukudi District, Tamil Nadu.
2. In this connection, the PP has requested for Corrigendum in Environmental Clearance vide online proposal no. SIA/TN/MIN/478800/2024 Dt: 04.06.2024. (Application for Corrigendum Form-13) received on 06.06.2024 stating the following,

“...We wish to bring to your kind Notice and record that the proponent's address was incorrectly mentioned in the PowerPoint presentation, the name is written as Kasilungam instead of Kasilingam in the Affidavit and subsequently reflected in the Environmental Clearance (EC). This error was erroneously made by us from the previous PPT. We are committed to ensuring this mistake does


MEMBER SECRETARY
SEAC -TN

42


CHAIRMAN
SEAC- TN

not recur. We apologize for the error and respectfully request that the Honourable SEAC/SEIAA amend the Environmental Clearance accordingly.”

S.No.	As per the EC issued	Page No	Correction required
1.	Thiru. K.Kasilingam, S/o. Narayana Morrthy, 450/1, Arcot Road, Porur, Chennai, Tamil Nadu – 600 116.	2	Thiru. K. Kasilingam, S/o. Shri. Karuppasamy Nadar, No.2/223, Near American Hospital, Puthiyamputhur, Thoothukudi District– 628 402.
2.	Thiru. K. Kasilingam	31	Thiru. K. Kasilingam
3.	S.F.No. 662	31	S.F.No. 663/2

Based on the presentation, the Committee decided to recommend that the above Corrigendum to the Environmental clearance issued vide EC24C0108TN5945488N Dated: 24.05.2024 subject to the conditions mentioned below, may be issued by SEIAA. All other conditions and validity mentioned in the EC dated 24.05.2024 will remain unchanged and unaltered.

Agenda Item No.14


File No: 10388/2023

Proposed Rough stone and Gravel lease over an extent of 1.66.50 Ha at S.F.No. 157/1B(0.99.0), 157/3(0.18.5) & 164(0.49.0) in Perambakkam Village, Cheyyur Taluk, Chengalpattu District, Tamil Nadu by Thiru. R.Yoganathan - Environment Clearance. (SIA/TN/MIN/442101/2023 dt: 06/09/2023)

The subject was earlier placed in the 449th meeting of SEAC held on 07.03.2024 and the SEAC furnished its recommendations for the grant of Environmental Clearance to the project subject to the conditions stated therein.

Subsequently the subject was placed in the 707th meeting of SEIAA held on 01.04.2024. The SEIAA noted that the SEAC has recommended the proposal for grant of EC for the entire mine life of 10 years and the approved production quantity is also high. After detailed discussions, the SEIAA decided to call for the particulars from the PP:

1. The PP shall furnish the affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone).

2. The proponent shall plant the 800 Nos. of tall saplings of native species within and outside the proposed mining area as committed and furnish geo tagged photographs.
3. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds and furnish geo tagged photographs.
4. The proponent shall conduct the Safety Audit following the DGMS Guidelines laid for the purposes vide DGMS (Tech) S&T Circular No. 5 of 2016 to detect any unsafe condition/practice prevalent in the mine to ensure the health and safety of the workers employed 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 and the report shall be submitted.
5. Further, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall to determine the safe working condition and slope stabilization measures 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 and the report shall be submitted.

Therefore, the subject was placed in this 483rd meeting of SEAC held on 18.07.2024.

The SEAC noted that the PP has furnished the following details:

S. No	ADS QUERY	REPLY
1.	The PP shall furnish the affidavit indicating the Standard Operating procedures (Sop) for carrying out the	The PP has furnished the affidavit stating that the following Safety Conference Recommendations /


MEMBER SECRETARY
SEAC -TN

44



CHAIRMAN-
SEAC- TN

	<p>'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).</p>	<p>Circulars as mandated by the DGMS for ensuring the best and safe mining operation in the proposed quarry without deviation:</p> <p>Recommendations of the Seventh Conference on Safety in Mines on "Safety in Opencast Mining Model Code of Precautions for Truck Transport in Opencast Mines (DGMS Cir 11/1973)</p> <p>Conditions for adopting a system of deep-hole blasting and/or working opencast mines with the help of heavy machinery for digging, excavation and removal of ore etc. under Reg. 106(2)(b) of MMR 1961 as given in the Cir. 36/1972 & Tech. 17/1977.</p> <p>Further, the PP has assured to adopt the following best mining practices in the form of Standard Operating Procedures during the period of the Environmental Validity as stipulated by the Competent Period. (Please see the Appendix)</p>
2.	<p>The proponent shall plant the 800 Nos. of tall saplings of native species within and outside the proposed mining area as committed and furnish geo tagged photographs.</p>	<p>Geo tagged photos enclosed.</p>


MEMBER SECRETARY
SEAC - TN


CHAIRMAN
SEAC- TN

3.	The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5m to be left under the Rule 13 (I) of MCDR, 1988 within the lease boundary and protective bunds and furnish geo tagged photographs.	DGPS Pillars erected in the lease area visible in the Photographs and the two tier plantation completed behind the boundary of the lease area.
4.	The proponent shall conduct the Safety Audit following the DGMS Guidelines laid for the purposes vide DGMS (Tech) S&T Circular No. 5 of 2016 to detect any unsafe condition/practice prevalent in the mine to ensure the health and safety of the workers employed 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 and the report shall be submitted.	Comprehensive Safety Audit Study conducted by Dept of Mining, Anna University, CEG campus, Chennai.
5.	Further, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall to determine the safe working condition and slope	Slope stability study conducted by Anna University Chennai- CEG Campus had submitted.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

	<p>stabilization measures 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 and the report shall be submitted.</p>	
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The Committee carefully examined the replies furnished by the PP and decided to reiterate the recommendations already made in the 449th meeting of SEAC held on 07.03.2024.

Agenda No: 483-15

(File No: 10826/2024)


Proposed Rough Stone and Gravel quarry over an extent of 2.23.12 Ha at S.F.Nos. 207/4B, 5B, 6B, 7B, 8B, 9, 208/1A, 2A, 2B1, 2B2, 5A, 5C, 5D, 5E, 5F, 5G, 212/1L, 1M, 1N of Pazhaveri Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu by M/s. APK Minerals Private Limited - For Terms of Reference.

(SIA/TN/MIN/469805/2024, Dated: 22.04.2024)

The proposal was placed in this 483rd meeting of SEAC held on 18.07.2024. 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. APK Minerals Private Limited has applied seeking Terms of Reference for the proposed Rough Stone and Gravel quarry over an extent of 2.23.12 Ha at S.F.Nos. 207/4B, 5B, 6B, 7B, 8B, 9, 208/1A, 2A, 2B1, 2B2, 5A, 5C, 5D, 5E, 5F, 5G, 212/1L, 1M, 1N of Pazhaveri Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.


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SEAC -TN

47


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SEAC- TN

3. The precise area communication was issued for the period of 10 Years. The approved mining plan is for 10 Years for without common boundary working. As per the approved mine plan, the annual peak production shall not exceed 68,890 m³ of Rough Stone (4th year) and 15,312 m³ of Gravel (3rd year) for an ultimate depth of 32m.
4. Earlier, the proposal was placed for appraisal in the 467th meeting of SEAC held on 16.05.2024. Based on the presentation made by the project proponent, SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing for the production quantity of 1,83,780 m³ of Rough Stone & 31,776 m³ of Gravel for a period of 10 years, the annual peak production capacity not exceeding 68,890 m³ of Rough Stone & 15,312 m³ of Gravel and the ultimate depth of mining upto 32m, subject to the TORs stated therein, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC and additional ToR conditions given in ANNEXURE-I are to be included in EIA/EMP Report.
5. Subsequently, the subject was placed in the 726th Authority meeting held on 03.06.2024 & 04.06.2024. The authority noted that the subject was appraised in the 467th SEAC meeting held on 16.05.2024. SEAC has furnished its recommendations for granting Terms of Reference (ToR) with Public Hearing subject to the conditions stated therein.


After detailed discussion, the authority further noted as follows:

On reveal of KML file, it is seen that fertile agricultural lands are located in this area. Whether there is need for opening of fertile and fragile area may be examined before issue of TOR.

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

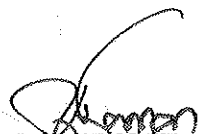
Hence, the proposal was placed in this 483rd meeting of SEAC held on 18.07.2024. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEIAA.

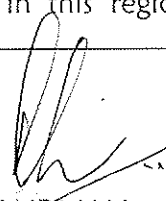
SEIAA Query	PP's reply
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<p>On reveal of KML file, it is seen that fertile agricultural lands are located in this area. Whether there is need for opening of fertile and fragile area may be examined before issue of TOR.</p> <p>In view of the above, the Authority decided to refer back the proposal to SEAC for remarks.</p>	<ul style="list-style-type: none"> • Lot of mining and crusher activities are common in the area. • Entire northern and eastern part of the lease area composed of quarry & crusher area & Government land. (hill) • South western portion contains own land of the PP (with mango trees) & one more quarry & crusher. • The immediate southern side of the lease area contains own land, government land with small pond and unused land followed by pond and fallow land further south of it. • Due to proximity of rocky hill with shrubs and bushes in the north & east of the lease area, the soil quality in the bottom of the hills near the lease area and its surrounding area is also of gravelly rocky type and not fit for agricultural activities. As such in the lease and its immediate surrounding area no major agricultural activities are observed. • Patches of seasonal agricultural activities are practiced based on water availability more than 200m south of the lease area. • Due to poor quality of the soil, inconsistent rainfall, water scarcity, high agricultural labor cost, manpower shortage and less yield are reason for very little agricultural activity in this region.
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 CHAIRMAN
 SEAC- TN

	<p>There is no waste generation, disposal or stacking involved in this project. As such no loss of soil health and Bio-diversity is expected.</p> <ul style="list-style-type: none"> • Further study in this regard will be carried out and detailed in the EIA/ EMP report. • During mining, various EMP measures will be adopted to obviate impact on the surrounding ambient air quality including far away patches of seasonal agricultural lands and the details of the same will be given in the EIA/ EMP report.
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Based on the presentation made and the documents furnished by the Project proponent, SEAC carefully examined the replies furnished by the PP and decided to reiterate its recommendation already made in its 467th meeting of SEAC held on 16.05.2024. All other conditions mentioned in the minutes will remain unchanged and unaltered.

Agenda No: 483-16

(File No: 10602/2023)


Proposed Ordinary Earth quarry over an extent of 2.95.50 Ha at S.F.Nos. 251(P), 252/4, 252/5 & 252/6 of Dharugapuram Village, Sivagiri Taluk, Tenkasi District, Tamil Nadu by Thiru. S. Ramesh – For Environmental Clearance.

(SIA/TN/MIN/454663/2023, Dated: 20.12.2023)

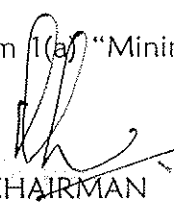
The proposal was placed in this 483rd meeting of SEAC held on 18.07.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. S. Ramesh has applied for Environmental Clearance for the Proposed Ordinary Earth quarry over an extent of 2.95.50 Ha at S.F.Nos. 251(P), 252/4, 252/5 & 252/6 of Dharugapuram Village, Sivagiri Taluk, Tenkasi District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(b) "Mining of


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50


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SEAC- TN

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 15,183 m³ of Ordinary Earth for an ultimate depth of 2m below ground level.
4. Earlier, the proposal was placed for appraisal in the 448th meeting of SEAC held on 23.02.2024. Based on the presentation and the documents furnished by the project proponent, the SEAC decided to accept the request made by the project proponent to defer the presentation due to non-availability of basic information and defer the proposal.


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

5. The project proponent vide letter dated 29.04.2024 has submitted the following details:


- i) Letter from AD mines, Mines, Tenkasi stating Ordinary Earth instead of earth and there are no odai, Kanmoi, river and any other water bodies situated adjoining to the applied lease area was obtained on dated: 06.03.2023.
- ii) Fencing and plantation was carried out and the copy of photograph is given.

6. Hence, the proposal was again placed in the 467th meeting of SEAC held on 16.05.2024. 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 15,183 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, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF&CC, in addition to the specific conditions stated therein.

7. Subsequently, the subject was placed in the 726th Authority meeting held on 03.06.2024 & 04.06.2024. The authority noted that the subject was appraised


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51


CHAIRMAN
SEAC - TN

in the 467th SEAC meeting held on 16.05.2024. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.

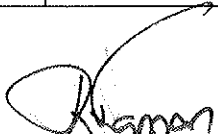
After detailed discussion, the authority further noted as follows:

- 1) On reveal of KML file, it is seen that fertile agricultural lands including the proposed mine site which are located between two prominent water bodies.
- 2) It is also observed that there is also some vegetation within the proposed mine lease area. Removal of ordinary earth may lead to soil erosion and changes in the drainage pattern will affect the agricultural/Horticultural activity in the said area.
- 3) Whether there is need for permitting for the removal of ordinary earth of such fertile and fragile agricultural land with plantation around the mine lease area may be examined.

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

Hence, the proposal was placed in this 483rd meeting of SEAC held on 18.07.2024. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEIAA.

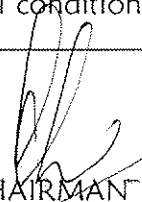
S. No	SEIAA Query	PP's reply
1	On reveal of KML file, it is seen that fertile agricultural lands including the proposed mine site which are located between two prominent water bodies.	The lease area is a non agricultural dry barren land intersected with Prosopis juliflora and thorny bushes only. There are no water bodies or drainage course with in 300m from the lease area. A Kanmai is located -305m- (E) & 670m west respectively. It is a dry tank full of prosopis juliflora and there are no irrigation facility for these tanks. Infact
2	It is also observed that there is also some vegetation within the proposed mine lease area. Removal	


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	<p>of ordinary earth may lead to soil erosion and changes in the drainage pattern will affect the agricultural/Horticultural activity in the said area.</p>	<p>mining is being carried out near the eastern side of the kanmai. There will be no external dump to cause erosion on the soil. Besides, peripheral garland drain all around the lease area with settling tank will be constructed to obviate any effect on this front. As such, simple shallow depth mining for 2m depth without drilling and blasting is expected not to cause any adverse impact on the dry unfertile area. Systematic mining adhering to all the statutory rules, regulations and implementing effective environmental mitigate measures will ensure the same.</p>
3	<p>Whether there is need for permitting for the removal of ordinary earth of such fertile and fragile agricultural land with plantation around the mine lease area may be examined.</p>	<p>Since the lease area is dry area with thorny bushes, now it is proposed to remove the unfertile top layer by simple mining. Then the mined out void will be filled with fertile soil, biomass and developed with plantation. Photographs of the areas surrounding the lease area is also shown. From the photos it is observed that the nearby surrounding area is also dry and unfit for any agricultural activity due to poor soil condition and scanty water availability. Patch of coconut farm is developed more than 125m south of the lease area. Due to poor rainfall, soil condition, the</p>


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 CHAIRMAN
 SEAC - TN

		<p>yield from this farm is also poor and not yielding desired results.</p> <p>As such in the post mining stage, plantation within the mined out void is expected to have more positive impact on the biological front.</p>
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Based on the presentation made and the documents furnished by the Project proponent, SEAC carefully examined the replies submitted by the PP and decided to reiterate its recommendation already made in its 467th meeting of SEAC held on 16.05.2024. All other conditions mentioned in the minutes will remain unchanged and unaltered.

Agenda No: 483-17

(File No: 6601/2018)

Existing Fireclay quarry lease over an extent of 1.73.0 Ha at S.F. Nos. 183/1A2 & 183/1B of Thalampattu Village, Panruti Taluk, Cuddalore District, Tamil Nadu by Thiru.K.Ramalingam – for Environmental Clearance under violation category.

(SIA/TN/MIN/419923/2023, Dated: 25.02.2023)

The proposal was placed in this 483rd meeting of SEAC held on 18.07.2024. 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. Ramalingam has applied for Environmental Clearance under violation category for the Existing Fireclay quarry lease over an extent of 1.73.0 Ha at S.F. Nos. 183/1A2 & 183/1B of Thalampattu Village, Panruti Taluk, Cuddalore District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. ToR issued under violation category vide Lr No.SEIAA-TN/F.No.6601/SEAC/TOR-919/2018 Dated:16.03.2021.
4. The PP has furnished the EIA Report under violation on 28.02.2023.
5. The PP has furnished a copy of the Penalty letter obtained from the Assistant


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SEAC -TN

54


CHAIRMAN
SEAC- TN

Director, Department of Geology and Mining, Cuddalore District vide Rc.No.809/G&M/2004 Dated: 03.08.2020.

6. Earlier, the proposal was placed in the 370th SEAC meeting held on 25.04.2023. Based on the presentation made and documents furnished by the project proponent, the SEAC decided to (i) carry out site inspection by the sub-committee constituted to assess the present status of the project and environmental settings as the proposal falls under violation category. (ii) Further the subcommittee will assess the ecological damage in accordance with the CPCB Guidelines and to check the Remedial Plan & Community Augmentation Plan submitted by the PP during the inspection. (iii) the PP shall complete the Slope stability assessment before the site inspection of SEAC team by involving CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc., On the receipt of the Sub-Committee report, further deliberation will be carried out.
7. The proposal was again placed in the 422nd SEAC meeting held on 09.11.2023. The EIA Coordinator has adopted CPCB Guidelines for assessment of environmental damage.

CPCB Guidelines

During the Violation Period, impacts on the Environmental Components viz. Air, Water, Land, Biological and Socio-economics Environment are assessed based on the Norms specified by the Central Pollution Control Board (CPCB) to implement "Polluter Pays" Principle and to levy Environmental Compensation for Restoration of Environmental Damages. The Environmental Compensation shall be based on the following formula:

$$EC = PI \times N \times R \times S \times LF$$


where,

EC is Environmental Compensation in Rupees


PI = Pollution Index of Industrial Sector

N = Number of days of violation took place

R = A factor in Rupees for EC


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SEAC -TN

55


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SEAC- TN

S = Factor for Scale of Operation

LF = Location Factor.

Method - 1

With applicable values of PI = 50 (Orange Category), N = 264 days (of violation period), R- Rs.100 (Considering the total Excavation), S-0.5 (Small Unit), LF-1.0 (Thalampattu Village Population is less than one million), the Environmental Compensation computed is as follows

$$EC : 50 \times 264 \times 100 \times 0.5 \times 1.0 = \text{Rs. } 6,60,000/-$$

Method - 2

As per CPCB Guidelines, the minimum Environmental Compensation shall be Rs.5,000/- per day. Accordingly, the minimum Environmental Compensation for 361 days of Violation will be **Rs. 13,20,000/-**

- No drilling and blasting involved in the surrounding mining area hence the category is taken as orange category considering the pollution index (PI)
- Total Production of Fire clay per day would be around 84 Tonnes per day (4 Tipper per day) considering the production schedule it taken as small unit

In the light of the above, SEAC deliberated upon the ecological and environmental damage assessment including remediation plan and natural and community resource augmentation plan and decided to incorporate the following changes in the damage assessment as recommended by the EIA Coordinator:

Comparative statement

S. No.	CPCB Guideline Factors	EIA Coordinator's recommendation	Committee's Recommendation	Remarks
1.	Pollution Index (PI)	50	50	No Change


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SEAC- TN

2.	Number of Days (N)	264	361	Total Number of days of violation is considered up to the date on which the damage assessment was placed before the committee for deliberation i.e., till 09.11.2023. Hence, N = 361 days.
3.	R-Factor	100	100	No Change
4.	S-Factor	0.5	0.5	No Change
5.	L-Factor	1.0	1.0	No Change

Detailed Calculation:

Environmental Compensation (EC) as derived by CPCB:

$$EC = PI \times N \times R \times S \times LF$$


$$EC = 50 \times 361 \times 100 \times 0.5 \times 1.0 = \text{Rs. } 9,02,500/-$$

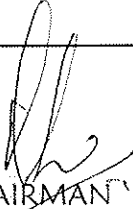
2. Thus, the cost equivalent to the ecological damage assessment as per CPCB approach, an amount of Rs. 9,02,500/- is to be spent across Remediation Plan, Natural Resources Augmentation Plan, & Community Resource Augmentation Plan.

I. Ecological Remediation Plan

S. No	Description	Cost
1	Land Reclamation of Top soil	Rs.50,000
2	Cost for Plantation around lease boundary	Rs.1,52,500
Total Cost		Rs.2,02,500

S. No	Activities	Financial Proposal
Natural Resource Augmentation Plan		


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CHAIRMAN
SEAC- TN

1	Development of Rain water harvesting pit in the houses of nearest villages	Rs.1,00,000
2	Installing 5 numbers of 40-watt Solar light Pole One 40-watt Solar light Pole = Rs.30,000	Rs.1,50,000
3	Plantation in common areas of villages like bus stops, Govt hospitals, VAO offices (40 Trees)	Rs.1,00,000
Total		Rs.3,50,000
Community Resource Augmentation Plan		
1	Installation of RO Plant for safe drinking water supply to PANCHAYAT UNION PRIMARY SCHOOL, Thazhampattu.	Rs.1,00,000
2	Developing Library facility & Purchase of Environmental related Books in PANCHAYAT UNION PRIMARY SCHOOL, Thazhampattu.	Rs.1,00,000
3	Renovation of Toilet facilities in the PANCHAYAT UNION PRIMARY SCHOOL, Thazhampattu.	Rs.1,50,000
Total		Rs 3,50,000

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a production quantity of 1,26,760 m³ of Fireclay to an ultimate depth of 31m BGL (7m Topsoil + 24m Fireclay) and the annual peak production shall not exceed 30,995 m³ of Fireclay as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the specific conditions stated therein.

8. Subsequently, the subject was placed in the 677th authority meeting held on 06.12.2023. The authority noted that the subject was appraised in the 422nd SEAC meeting held on 09.11.2023. SEAC has furnished its recommendations to the Authority for granting Environmental Clearance under violation category to the Project subject to the conditions stated therein.


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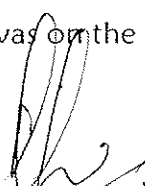
58


CHAIRMAN
SEAC- TN

After detailed discussion, the Authority decided to request the Member Secretary, SEIAA to inform the proponent to furnish the following particulars as recommended by SEAC in the Minutes of 422nd SEAC meeting held on 09.11.2023.

- i. The project proponent shall furnish approved mining plan indicating the top soil quantity and fireclay quantity separately since in the mining plan the top soil depth is mentioned as 7m.
 - ii. The project proponent shall furnish the details of Bank guarantee remittance towards the amount prescribed for Ecological remediation (Rs. 2,02,500), natural resource augmentation (Rs. 3,50,000) & community resource augmentation (Rs. 3,50,000), totalling Rs. 9,02,500/- to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN.
 - iii. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year from the date of issue of EC. If not the bank guarantee will be forfeited to TNPCB without further notice.
 - iv. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
9. The proponent vide his letter dated 27.03.2024 has stated that due to his current family situation he could not able to furnish the bank guarantee of Rs.9,02,500/- as recommended by SEAC.
10. The subject was placed in the 715th Authority meeting held on 29.04.2024. In view of the above, the Authority decided to refer back the proposal to SEAC for remarks.
11. Hence, the proposal was placed in the 468th meeting of SEAC held on 17.05.2024. SEAC had a detailed discussion on the PP's request for revising the compensation. PP was present in person and pleaded his inability to pay the compensation and stated that the compensation fixed was on the higher


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SEAC- TN

side and requested the Committee to review its decision specifically relating to 'number of days' and 'factor of scale of operation(S)'. SEAC had a detailed discussion and decided to revise the damage assessment already made in its 422nd SEAC meeting held on 09.11.2023 based on the following:

Comparative statement

S. No.	CPCB Guideline Factors	Earlier Committee's Recommendation in 422 nd SEAC held on 09.11.2023	Revised Committee's Recommendation	Remarks
1.	Pollution Index (PI)	50	25	Since, the operation is a fireclay mining, the activity is considered under green category.
2.	Number of Days (N)	361	361	No Change
3.	R-Factor	100	100	No Change
4.	S-Factor	0.5	0.5	No Change
5.	L-Factor	1.0	1.0	No Change


Further, as per the guidelines, the minimum compensation to be levied is Rs. 5000/day. However, in the present case, the existing activity is a fireclay mining where blasting is not involved. Further, considering the PP's plea, the Committee decided to adopt the minimum value (PI = 25) in the Green Category and the same has been considered under the compassionate grounds.

The Revised Environmental Compensation (EC) as derived by CPCB:

$$EC = PI \times N \times R \times S \times LF$$

$$EC = 25 \times 361 \times 100 \times 0.5 \times 1.0 = \text{Rs. } 4,51,250/-$$

Hence, the revised Environmental compensation is assessed as Rs. 4,51,250/- and hence, the cost equivalent to the ecological damage assessment as per CPCB approach, an amount of Rs. 4,51,250/- is to be spent across Remediation Plan,


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CHAIRMAN
SEAC- TN

Natural Resources Augmentation Plan, & Community Resource Augmentation Plan as stipulated below:

S. No	Description	Cost
Ecological Remediation Plan		
1	Land Reclamation of Top soil	Rs.75,000
2	Cost for Plantation around lease boundary	Rs.75,000
Total Cost		Rs.1,50,000
Natural Resource Augmentation Plan		
1	Installing 2 numbers of 40-watt Solar light Pole One 40-watt Solar light Pole = Rs.30,000	Rs.90,000
2	Plantation in common areas of villages like bus stops, Govt hospitals, VAO offices (40 Trees)	Rs.60,000
Total		Rs.1,50,000
Community Resource Augmentation Plan		
1	Installation of RO Plant for safe drinking water supply to PANCHAYAT UNION PRIMARY SCHOOL, Thazhampattu.	Rs.50,000
2	Renovation of Toilet facilities in the PANCHAYAT UNION PRIMARY SCHOOL, Thazhampattu.	Rs.1,01,250
Total		Rs 1,51,250

Hence, the PP may be requested to furnish the details of Bank guarantee remittance towards the amount prescribed for Ecological remediation (Rs. 1,50,000), natural resource augmentation (Rs. 1,50,000) & community resource augmentation (Rs. 1,51,250), totaling Rs. 4,51,250/- to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN.

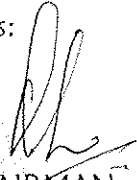
All the other conditions stipulated in 422nd SEAC meeting held on 09.11.2023 remains unaltered.

12. Subsequently, the subject was placed in the 727th Authority meeting held on 05.06.2024. The authority noted that the subject was appraised in the 468th SEAC meeting held on 17.05.2024.

After detailed discussion, the authority further noted as follows:


MEMBER SECRETARY
SEAC -TN


61


CHAIRMAN
SEAC- TN

- 1) SEAC Sub-committee in their report has mentioned a value of Rs. 6,60,000/- by Method-1 & Rs. 13,20,000/- by Method-2 towards Environmental compensation for the violation as per CPCB Guidelines ($EC = PI \times N \times R \times S \times LF$) taking the PI value as 50 (Orange Category). Then SEAC Committee has fixed the Environmental compensation of Rs.9,02,500/- for the violation as per CPCB Guidelines in the 422nd SEAC meeting held on 09.11.2023. Now in the 468th SEAC meeting held on 17.05.2024 the SEAC Committee has revised the Environmental compensation of Rs.4,51,250/- for the violation as per CPCB Guidelines ($EC = PI \times N \times R \times S \times LF$) taking the PI value as 25 (Green Category). In the SEAC minutes it is mentioned that the based on the PP's request for revising the compensation, such a written request by the PP is not available in the file. In the PP request letter dated 27.03.2024 it is stated that the PP has requested only time for furnishing the Bank Guarantee for the Environmental compensation as fixed by the SEAC committee due to family constraints and requested to issue Environmental Clearance on conditional basis and he will submit the Bank Guarantee for the Environmental compensation as fixed by the SEAC committee later on.
- 2) It is also noted that the Mining activity even it is a Fireclay mining is categorized under Red category (1035-Red-Mining and Ore beneficiation) as per revised categorization of industries in view of directions issued by the Central Pollution Control Board under the Section 18(1) (b) of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 vide TNPCB B.P. No. 06 dated 02.08.2016. Therefore need for categorizing under Green category for mining may kindly be clarified.

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

Hence, the proposal was again placed in this 483rd meeting of SEAC held on 18.07.2024.


MEMBER SECRETARY
SEAC -TN

62


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SEAC- TN

The SEAC carefully examined the point raised by SEIAA and decided to reiterate its revised recommendation already made in its 468th meeting of SEAC held on 17.05.2024 for the following reasons.

- (i) The proposal is fireclay mining and no explosives / chemicals (or) blasting activity is involved.
- (ii) Usually, the fireclay mineral contains the natural water content of 12% to 14% with the moisture absorption of 7 to 9% and therefore dust emission during the excavation is negligible.
- (iii) Besides, the usage of high powered excavators/machineries are not required for the mining of crude fireclay.
- (iv) Considering the above reasons and observations, the said fireclay mining activity has been considered as less polluted mining industry and hence the 'Pollution Index' level is determined as 25 (i.e., lowest value of the range stipulated) for the determination of environmental compensation.

Further, the SEAC has noted that Environmental Compensation value has been arrived based on the CPCB Violation Norms is Rs.4,51,250/- which is higher than Environmental Compensation values of Rs.4,06,550/- arrived on SEAC-TN model even if it is placed under 'High level Ecological damage' category of the Mining Violation Projects.

All the other conditions stipulated in 422nd SEAC meeting held on 09.11.2023 remains unaltered.


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ANNEXURE-I

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

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


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SEAC -TN

64


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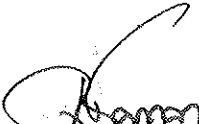
9. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific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


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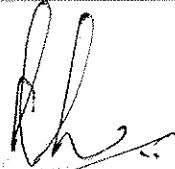

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GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS


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


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SEAC -TN

66


CHAIRMAN
SEAC- TN

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


MEMBER SECRETARY
SEAC -TN


67


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SEAC- TN

16. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
17. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
18. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
19. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
20. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
21. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
22. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
23. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.


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SEAC -TN

68


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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


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SEAC -TN

69



CHAIRMAN
SEAC- TN

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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SEAC -TN


70


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SEAC- TN

- 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.


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SEAC -TN

71


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SEAC- TN

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

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

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

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

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

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

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

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

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


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SEAC -TN


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SEAC- TN

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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74


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

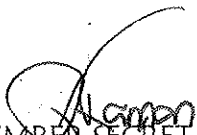
Sl. No	Existing (or) Virgin Quarry	
	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m Up to 500 m
1.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.
2.	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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SEAC -TN

75


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SEAC- TN

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


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 SEAC -TN

76

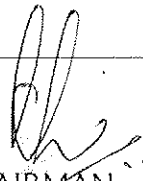

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TERMS OF REFERENCE (ToR) FOR GRANITE / ROUGH STONE QUARRY

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.


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77


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

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


MEMBER SECRETARY
SEAC -TN

79



CHAIRMAN
SEAC- TN

pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds, etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.

21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be


MEMBER SECRETARY
SEAC -TN

80

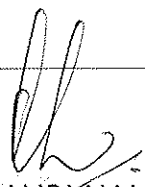

CHAIRMAN
SEAC- TN

secured and furnished to the effect that the proposed mining activities could be considered.

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


MEMBER SECRETARY
SEAC -TN


81


CHAIRMAN
SEAC- TN

35. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
41. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.


MEMBER SECRETARY
SEAC -TN

82


CHAIRMAN
SEAC- TN

Appendix - I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	வில்வம்
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சாடி, ஆனைக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலவ
12	<i>Calophyllum inophyllum</i>	Punnai	புள்ளை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon swietenia</i>	Purasamaram	புரசு மரம்
16	<i>Cochilospermum religiosum</i>	Kongu, Manjallavu	கோங்கு, மஞ்சள் இலவ
17	<i>Cordia dichotoma</i>	Naruvuli	நருவளி
18	<i>Creteva adansonii</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உசா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உசா
21	<i>Diospyro sebenuum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகனை
23	<i>Ficus amplicissima</i>	Kallitchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்புலங்க
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம், ஆயில்
27	<i>Lamnea coromandelica</i>	Odhiam	ஓதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கோட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விளா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிரம்பா, பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Mankara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழமரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுணா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுணா
38	<i>Phoenix sylvestre</i>	Eachai	சச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

MEMBER SECRETARY
SEAC - TN

83

CHAIRMAN
SEAC- TN

40	<i>Premna mollissima</i>	Murnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunai	நறு முன்னை
42	<i>Premna tomentosa</i>	Malaipoovarasu	மலை புவரசு
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்ணாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கறிபாலா
48	<i>Salvadora persica</i>	Ugaa Maram	னகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புங்கன் சோபுகாய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தான் கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia bellerica</i>	Thandri	தான்றி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேண் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	புவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்கரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பாலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்புளி

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SEAC -TN

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SEAC- TN

Appendix –II

Display Board

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

-----சுரங்கம்

சுரங்கங்களில் குவாரி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEIAA/-----, தேதியிடப்பட்டு, சுற்றுச்சூழல் அனுமதி ----- தேதி வரை செல்லத்தக்கதாக உள்ளது.

பசுமை பகுதி வளர்ச்சி மேம்பாட்டுக்கான சுரங்கத் திட்டம்	குவாரியின் எல்லையைச் சுற்றி வேலி அமைக்க வேண்டும்
நடப்பட்டு பராமரிக்கப்படவேண்டிய மரங்கள் எண்ணிக்கை:	சுரங்கப்பாதையின் ஆழம் தரைமட்டத்திலிருந்து மீட்டர்க்கு மிகாமல் இருக்க வேண்டும். காற்றில் மாசு ஏற்படாதவாறு சுரங்க பணிகளை மேற்கொள்ள வேண்டும். வாகனங்கள் செல்லும் பாதையில் மாசு ஏற்படாத அளவிற்கு தண்ணீரை முறையாக தண்ணீர் லாரிகளின் மூலமாக அவ்வப்போது தெளிக்க வேண்டும். இரைச்சல் அளவையும் ஓசி மாசுபாட்டையும் குறைப்பதற்காக குவாரியின் எல்லையை சுற்றி அடர்த்தியான பசுமை பகுதியை ஏற்படுத்த வேண்டும்.
சுரங்கத்தில் வெடி வைக்கும்பொழுது நிலஅதிர்வுகள் ஏற்படாதவாறும் மற்றும் சுற்கள் பறக்காதவாரும் பாதுகாப்பு நடவடிக்கைகளை உள்பிப்பாக செயல்படுத்தப்பட வேண்டும்.	
சுரங்கத்தில் இருந்து ஏற்படும் இரைச்சல் அளவு 85 டிபிஎல் (dBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.	
சுரங்க சட்ட விதிகள் 1955ன் கீழ் சுரங்கத்தில் உள்ள பணியாளர்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு க்காதாரமுள்ள கழிப்பறை வசதிகளை செய்து தர வேண்டும்.	
கிராமம் அல்லது பஞ்சாயத்து வழியாக வாகனங்கள் செல்லும் சாலையை தொடர்ந்து நன்கு பராமரிக்க வேண்டும்.	
சுரங்கப்பணிகளால் அருகில் உள்ள விவசாயப் பணிகள் மற்றும் நீரிணைகள் பாதிக்கப்படக் கூடாது.	
நீரிணைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் நிலத்தடி நீரின் தாத்தினை தொடர்ந்து கண்காணிக்க வேண்டும்.	
சுரங்கத்திலிருந்து கனிம பொருட்களை எடுத்துச் செல்லுது கிராம மக்களுக்கு எந்தத் தீராத விளைவும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் சுற்றுச்சூழல் பாதிக்கவாத வண்ணம் வாகனங்களை இயக்க வேண்டும்.	
சுரங்கப்பணிகள் முடிக்கப்பட்டவுடன் சுரங்க மூடல் திட்டத்தில் உள்ளவாறு சுரங்கத்தினை மூட வேண்டும்.	
சுரங்க நடவடிக்கைகளை முடித்தபின்னர் சுரங்கப் பகுதி மற்றும் சுரங்க நடவடிக்கைகளால் இடையூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமானம் செய்து தாவரங்கள் விலங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பசுமைப்பகுதியை உருவாக்க வேண்டும்.	
முழுமையான நிபந்தனைகளை அரிய பாரிவேஷ் (http://parivesh.nic.in) என்கிற இணையதளத்தைப் பார்வையிடவும். மேலும் எந்தவித சுற்றுச்சூழல் சார்ந்த புகார்களுக்கு சென்னையில் உள்ள சுற்றுச்சூழல் மற்றும் வன அமைச்சகத்தின் ஒருங்கிணைந்த வட்டார அலுவலகம்: 044 - 25222325 (அல்லது) தமிழ்நாடு மாசு கட்டுப்பாடு வாரியத்தின் மாவட்ட சுற்றுச்சூழல் பொறியாளரை அணுகவும்.	


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CHAIRMAN
SEAC- TN

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in financial reporting.

2. The second part of the document outlines the various methods and techniques used to collect and analyze data. It includes a detailed description of the experimental procedures and the tools used for data collection.

3. The third part of the document presents the results of the study, including a comparison of the different methods and techniques used. It discusses the strengths and weaknesses of each method and provides a summary of the findings.

4. The fourth part of the document discusses the implications of the study and provides recommendations for future research. It highlights the need for further investigation into the effectiveness of the different methods and techniques used.

5. The fifth part of the document provides a conclusion and a summary of the key findings. It reiterates the importance of maintaining accurate records and the need for transparency and accountability in financial reporting.

6. The sixth part of the document provides a list of references and a bibliography. It includes a list of all the sources used in the study and provides a detailed description of each source.

7. The seventh part of the document provides a list of appendices and a bibliography. It includes a list of all the appendices used in the study and provides a detailed description of each appendix.