

State Expert Appraisal Committee (SEAC)

Minutes of 448th meeting of the State Expert Appraisal Committee (SEAC) held on 23.02.2024 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building and Construction projects & Mining projects.

Confirmation of Earlier Minutes

The minutes of the 447th SEAC meeting held on 22.02.2024 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minutes.

Agenda No: 448-01

(File No: 10603/2023)

Proposed Rough Stone & Gravel quarry over an extent of 1.88.58 Ha at S.F.Nos. 174/5E(P), 175/1(P), 175/2(P), 175/3(P), 176/1A1(P) & 176/1C1(P) of Anuppapalayam Village, Pollachi Taluk, Coimbatore District, Tamil Nadu by Thiru. K. Jaison - For Environmental Clearance. (SIA/TN/MIN/455784/2023, Dated: 16.12.2023)

The proposal was placed for appraisal in this 448th meeting of SEAC held on 23.02.2024. 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. Jaison has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry over an extent of 1.88.58 Ha at S.F.Nos. 174/5E(P), 175/1(P), 175/2(P), 175/3(P), 176/1A1(P) & 176/1C1(P) of Anuppapalayam Village, Pollachi Taluk, Coimbatore 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.

The consultant vide email dated 22.02.2024 has informed that the proponent is absent for the presentation/appraisal for this SEAC meeting since the Proponent is in process of obtaining Certified Compliance Report (CCR) from the Integrated Regional Office, MoEF&CC, Chennai. Hence, the SEAC decided to defer the proposal.


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Agenda No: 448-02

(File No: 10610/2023)

Proposed Quartz & Feldspar quarry over an extent of 1.00.0 Ha (Government Poramboke land) at S.F.No. 26 (Part-1) of Kedikkaval Village, Sankari Taluk, Salem District, Tamil Nadu by Thiru. C. Kandasamy - For Environmental Clearance.

(SIA/TN/MIN/456033/2023, Dated: 19.12.2023)

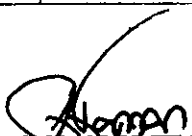
The proposal was placed for appraisal in this 448th meeting of SEAC held on 23.02.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

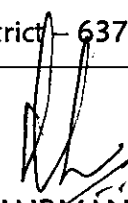
The SEAC noted the following:

1. The project proponent, Thiru. C. Kandasamy has applied for Environmental Clearance for the Proposed Quartz & Feldspar quarry over an extent of 1.00.0 Ha (Government Poramboke land) at S.F.No. 26 (Part-1) of Kedikkaval Village, Sankari Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 10 years. The approved mining plan is for 5 Years. As per the approved mine plan, the annual peak production shall not exceed 13,510 Ts ROM which includes 12,159 Ts of Recovery (@90%) & 1351 Ts of Mineral Rejects (@10%), Recovery of 90% consists of 1824 Ts of Quartz (@15%) & 10,335 Ts of Feldspar (@85%) for an ultimate depth of 18m.


The salient features of the proposal are as follows:

File No	10610 / 2023	Category	B2 / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Thiru. C. Kandasamy, S/o. Chellappa Gounder, No.1/32, Santhaipettai, Vaikundam, Sankari Taluk, Salem District - 637 103.


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2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Quartz and Feldspar
3	S.F Nos. of the quarry site with area break-up	:	26 (Part-1)
4	Village in which situated	:	Kedikkaval
5	Taluk in which situated	:	Sankari
6	District in which situated	:	Salem
7	Extent of quarry (in ha.)	:	1.00.0 Ha (Government Poramboke land)
8	Latitude & Longitude of all corners of the quarry site	:	11°29'59.8067"N to 11°30'02.9965"N 77°56'16.3336"E to 77°56'21.0408"E
9	Topo Sheet No.	:	58 – E/14
10	Type of mining	:	Opencast Mechanized Mining
11	Life of Project	:	10 years
	Lease Period	:	10 years
	Mining Plan Period	:	5 years
12	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources Ts (RoM)	:	Quartz & Feldspar 4,03,182 Ts ROM which includes 3,62,863.8 Ts of Recovery (@90%) & 40,318.2 Ts of Mineral Rejects (@10%). Recovery of 90% consists of 54,429.57 Ts of Quartz (@15%) & 3,08,434.23 Ts of Feldspar (@85%)
		:	
	Minalable Resources Ts (RoM)	:	Quartz & Feldspar 1,12,195 Ts ROM which includes 1,00,976 Ts of Recovery (@90%) & 11,219 Ts of Mineral Rejects (@10%).
		:	


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		Recovery of 90% consists of 15,146 Ts of Quartz (@15%) & 85,830 Ts of Feldspar (@85%)
	Annual Peak Production in Ts	Quartz & Feldspar 13,510 Ts ROM which includes 12,159 Ts of Recovery (@90%) & 1351 Ts of Mineral Rejects (@10%). Recovery of 90% consists of 1824 Ts of Quartz (@15%) & 10,335 Ts of Feldspar (@85%)
	Ultimate Depth in meters	: 21m
13	Depth of water table	: 63m-68m
14	Man Power requirement per day:	: 18 Nos.
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	2.5 KLD 0.3 KLD : - 1.0 KLD 1.2 KLD
16	Power requirement	: TNEB 150 Liters of HSD / day
17	Precise area communication approved by Additional Chief Secretary to Government (FAC), Natural Resources (MMC.1) Department	: Letter No.3370822/MMC.1/2023-1, Dated: 22.08.2023
18	Mining Plan approved by Additional Director, Commissionerate of G&M	: Rc.No.8192/MM7/2021, dated:23.11.2023


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19	Department of G&M, Deputy Director 500m Cluster Letter	:	Roc.No.504/2017/Mines-A, dated:01.12.2023
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 30.11.2023
21	Project Cost (excluding EMP cost)	:	Rs. 1,74,50,000/-
22	EC Recommendation	:	Validity
			30 years subject to the following upper limits. Quartz & Feldspar
		:	Max Total RoM in Ts
			66,464 Ts ROM which includes 59,818 Ts of Recovery (@90%) & 6646 Ts of Mineral Rejects (@10%). Recovery of 90% consists of 8973 Ts of Quartz (@15%) & 50,845 Ts of Feldspar (@85%)
		:	Annual Max RoM in Ts
			13,510 Ts ROM
		:	Ultimate Depth in mtrs
			21m
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 24,40,000/- Recurring Cost – Rs. 11,69,500/-
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 13,510 Ts ROM by maintaining the


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ultimate depth of mining up to 21m and subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall furnish the letter obtained from the competent authority for shifting of LT line passing through the quarry site before the CTO.
- 3) The PP shall **register promptly through online in the Shram Suvidha Portal** which is the official portal of Ministry of Labour & Employment, Govt of India to obtain **Labour Identification Number (LIN) before obtaining the CTO from the TNPCB.**
- 4) Further, the PP shall send the 'Notice of Opening' indicating the appointment of First Class/Second Class Mine Manager for managing the quarrying operations and the proposed usage of HEMM shall be sent to the Director of Mines Safety, Chennai Region of the Mine under the provisions of MMR 1961 atleast 30 days before the commencement of the mining operation immediately after the execution of lease with district authority.
- 5) The PP shall provide occupational health safety display board at the quarry site.
- 6) The PP shall provide mask, goggles, helmets and gloves to their employees at the quarry site.
- 7) 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.
- 8) The PP shall appoint a First Class/Second Class Mine Manager for managing the quarrying operations before the execution of lease and a copy of the appointment shall be sent to the Director of Mines Safety, Chennai Region along with Notice of Opening of the Mine under the provisions of MMR 1961.

- 9) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 10) Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies **within a period of six months** from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 11) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 12) As a part of monitoring the implementation of eco-friendly blasting operation, the PP shall monitor the blast-induced ground & air vibration (noise) on weekly basis by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 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.


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- 14) The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
- 15) The PP shall **annually carry out an Occupational Health Survey (OHS) includes free silica test, in accordance with the guidelines & period of examination laid in the DGMS (Tech.) (S&T) Circular No. 01 of 2011, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952** by actively involving State Government officials and Non-Government Organizations (NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual compliance certificate shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 16) The PP shall install the tall wind sheets and 3-tiered thick vegetation along the lease boundary before obtaining the CTO from the TNPCB to eliminate the possibility of air borne dust flowing into the surrounding environment.
- 17) The PP shall ensure that the loaded trucks are firmly covered with tarpaulin so as not expose any material and to avoid the spillage during the transportation.
- 18) As accepted by the Project Proponent the CER cost of **Rs. 5 Lakhs** and the amount shall be spent for the activities as committed towards Panchayat Union Primary School, Vaikundam, Sankari Taluk, Salem District, before obtaining CTO from TNPCB.

Agenda No: 448-03

(File No: 10624/2024)

Proposed Grey Granite quarry over an extent of 2.06.5 Ha at S.F.Nos. 1/2, 542/1B, 542/1C, 542/1D, 542/1E, 542/1H, 542/1I, 542/1J, 542/2A1, 542/2A2, 542/2B1, 542/2B2, 542/2E1, 543/1, 556/1A2 & 556/1B2 of Vilangamudi Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu by Thiru. D. Dhanapal - For Environmental Clearance. (SIA/TN/MIN/431051/2023, Dated: 27.05.2023)

The proposal was placed for appraisal in this 448th meeting of SEAC held on 23.02.2024. The details of the project furnished by the proponent are given in the


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website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. D. Dhanapal has applied for Environmental Clearance for the Proposed Grey Granite quarry over an extent of 2.06.5 Ha at S.F.Nos. 1/2, 542/1B, 542/1C, 542/1D, 542/1E, 542/1H, 542/1I, 542/1J, 542/2A1, 542/2A2, 542/2B1, 542/2B2, 542/2E1, 543/1, 556/1A2 & 556/1B2 of Vilangamudi Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.

The consultant vide email dated 22.02.2024 has informed that the proponent is absent for the presentation/appraisal for this SEAC meeting since the Proponent is in process of obtaining Certified Compliance Report (CCR) from the Integrated Regional Office, MoEF&CC, Chennai. Hence, the SEAC decided to defer the proposal.

Agenda No: 448-04

(File No: 10611/2023)

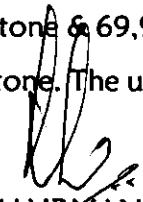
Proposed Rough Stone and Gravel Quarry over an extent of 4.75.01 Ha at S.F.Nos.217/2A, 2B, 4, 221/3(P), 4A(P), 4B(P), 222/1(P), 2, 3A, 3B1 & 223/2B of Thirumal Village, Kallikudi Taluk, Madurai District, Tamil Nadu by Thiru. D. Sakthivel -For Terms of Reference. (SIA/TN/MIN/454785/2023, Dated:08.12.2023).

The proposal was placed in the 448th Meeting of SEAC held on 23.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. D. Sakthivel has applied for Terms of Reference for the Proposed Rough Stone and Gravel Quarry over an extent of 4.75.01 Ha at S.F.Nos.217/2A, 2B, 4, 221/3(P), 4A(P), 4B(P), 222/1(P), 2, 3A, 3B1 & 223/2B of Thirumal Village, Kallikudi Taluk, Madurai District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 10 years. The mining plan is for 10 years & production should not exceed 6,53,795 m³ of Rough stone & 69,908 m³ of Gravel. The annual peak production 1,18,575m³ of Rough stone. The ultimate


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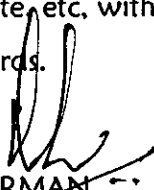
depth of mining is 47m BGL.

4. **A High-Tension Power Tower & Power lines are located within 300m radius in the west of lease area.**
5. **The Periyakulam Kanmoi is located at a distance of 60m from the proposed lease area.**

Based on the presentation made by the proponent, **SEAC decided to recommend the proposal for Terms of Reference (TOR) with Public Hearing subject to the following additional TORs & ToRs in Annexure of this minutes**, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. 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 along with EIA Report.
2. The proponent shall obtain NOC from the Competent Authority under the provisions of the Central Electricity Authority Notification No. CEA-PS-16/1/2021-CEI Division dt 08.07.2023 due to the existence of HT line at 67 m.
3. Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry, 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, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted along with EIA Report.
4. The PP shall furnish the details of the Periyakulam Kanmoi, extent of the Kanmoi and Ownership, ayacut, details of cultivation, distance from the site, etc, within 1 km radius around the proposed mining area from the Govt records.


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5. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc located within 1 km of the proposed quarry.
6. 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.
7. The Proponent shall carry out Bio diversity study through Department of Ecology and Environmental Sciences, Pondicherry University and the same shall be included in EIA Report.
8. 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.
9. The PP shall prepare a conceptual working plan accommodating the remedial actions such as inclusion of haul road accessibility keeping the benches intact, based on the studies carried out to assess the slope stability of the working benches to be constructed and existing quarry wall apart from the proposed mining methodology.

Agenda No: 448-05

(File No:10618/2023)

Proposed Red Earth quarry lease over an extent of 2.12.00 Ha at S.F.No. 356/1 of Ervadi Village, Kelakarai Taluk, Ramanathapuram District, Tamil Nadu by Thiru. S. Saravanapandian - For Environmental Clearance. (SIA/TN/MIN/436530/2023, Dated: 25.12.2023).

The proposal was placed for appraisal in the 448th meeting of SEAC held on 23.02.2024. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. S. Saravanapandian has applied for seeking Environmental Clearance for the Red Earth quarry lease over an extent of 2.12.00 Ha at S.F.No. 356/1 of Ervadi Village, Kelakarai Taluk, Ramanathapuram District, Tamil Nadu.


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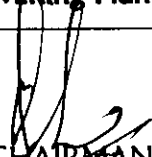
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2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 1 Year. The mining plan is for the period of 1 Year & the production should not exceed 25578 m³ of Red Earth for the ultimate depth of 1.5m BGL.
4. The salient features of the proposal are as follows:

File No	10618 / 2023	Category	B2 / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Thiru. S.Saravanapandian, S/o.Soundarapandian, Door.No.4/454, Thangappapuram, Kattoorani Taluk, Ramanathapuram District - 623 504.
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Red Earth
3	S.F Nos. of the quarry site with area break-up	:	356/1
4	Village in which situated	:	Ervadi
5	Taluk in which situated	:	Kelakarai
6	District in which situated	:	Ramanathapuram
7	Extent of quarry (in ha.)	:	2.12.00 Ha
8	Latitude & Longitude of all corners of the quarry site	:	09°12'09.63"N to 09°12'15.49"N 78°40'25.54"E to 78°40'30.02"E
9	Topo Sheet No.	:	58 – K/12
10	Type of mining	:	Opencast Shallow Mining
11	Life of Project	:	1 Year
	Lease Period	:	1 Year
	Mining Plan Period	:	1 Year
12	Mining Plan Details	:	As per approved Mining Plan


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			Red Earth
	Geological Resources m ³ (RoM)	:	63,600 m ³
	Mineable Resources m ³ (RoM)	:	25,578 m ³
	Annual Peak Production in m ³	:	25,578 m ³
	Ultimate Depth in meters	:	1.5m
13	Depth of water table	:	15m-18m
14	Man Power requirement per day:	:	6 Nos.
15	Water requirement i) Drinking Water & Domestic Purpose ii) Dust suppression iii) Green belt	:	2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD
16	Power requirement	:	-
17	Precise area communication approved by Assistant Director (i/c), Department of G&M	:	Roc.No.69/G&M.2/14/2022, Dated:15.12.2022.
18	Mining Plan approved by Assistant Director (i/c), Department of G&M	:	Roc.No.69/G&M.2/14/2022, Dated:09.03.2023.
19	Department of G&M, Assistant Director (i/c) 500m Cluster Letter	:	Roc.No.69/G&M.2/2021, Dated:09.03.2023.
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 24.05.2023
21	Project Cost (excluding EMP cost)	:	Rs. 10,12,000/-
22	EC Recommendation	:	Validity 30 years subject to the following upper limits.


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			Red Earth
		: Max Total RoM in m ³	25,578 m ³
		: Annual Max RoM in m ³	25,578 m ³
		: Ultimate Depth in mtrs	1.5m
23	EMP cost (in Rs. Lakh).	: Rs. 8.49 Lakhs	
24	CER cost (in Rs. Lakh).	: Rs. 2,00,000/-	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the **grant of Environmental Clearance for the quantity of 25,578 m³ of Red Earth by restricting the ultimate depth of mining up to 1.5m and for the maximum period of 1 year** subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions, in addition to the standard conditions & normal conditions stipulated by MOEF &CC:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life for a period of not exceeding 1 year from the date of lease execution.
2. The PP shall change all the documents from "Red Earth" to "Ordinary Earth" as per the TN G.O. (Ms). No.244, dated. 14.12.2022 before execution of lease.
3. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
4. The PP shall install the tall wind sheets around the lease boundary directing the structures located nearby and water shall be sprayed frequently so as to arrest the dust pollution.
5. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.

6. The PP shall carry out the required number of plantations as committed in the EMP without deviation before obtaining the CTO from the TNPCB.
7. The PP shall not carry out drilling & blasting operations in the proposed quarry.
8. The PP shall install a bio-toilet for the convenience of the workmen before obtaining the CTO from the TNPCB.
9. The PP shall carry out the backfilling of the mined out void area with the waste excavated from the quarrying operation simultaneously for developing suitable plantation as indicated in the EMP.
10. As accepted by the Project Proponent the CER cost of Rs. 2,00,000/- and the amount shall be spent for the committed activities Panchayat Union Primary School at Pullanthai Village before obtaining CTO from TNPCB.

Agenda No: 448 - 06

(File No: 10605/2023)

Proposed Rough Stone and Gravel quarry lease over an extent of 2.20.50 Ha at S.F.No. 104 in Gudalur (West) village, Aravakurichi taluk, Karur District, Tamil Nadu by M/s. Asiaa Exports - Environment Clearance for next scheme of mining.

(SIA/TN/MIN/455549/2023 dt 22/02/2024)

The proposal was placed in this 448th meeting of SEAC held on 23.02.2024. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Asiaa Exports has applied seeking Environment Clearance for the Proposed Rough stone and Gravel quarry lease over an extent of 2.20.50 Ha at S.F.No. 104 of Gudalur (West) Village, Aravakurichi Taluk, Karur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.

File No	10605	Category	B2
	SIA/TN/MIN/455549/ 2023 dt 22/02/2024		


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Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	M/s. Asiaa Exports, No.13/2 Anna Nagar, 2 nd Cross, Karur Town & Taluk, Karur District – 639002.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel
3.	S.F Nos. of the quarry site with area break-up	:	S.F.No. 104
4.	Village in which situated	:	Gudalur (West) Village
5.	Taluk in which situated	:	Aravakurichi Taluk,
6.	District in which situated	:	Karur District
7.	Extent of quarry (in ha.)	:	2.20.50 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10°55'4.5148"N to 10°54'58.5105"N 77°49'55.7616"E to 77°49'50.5661"E
9.	Topo Sheet No.	:	58F/13
10.	Type of mining	:	Opencast semi mechanized method of mining.
11.	Life of Mine	:	10 years
	Lease Period	:	10 years
	Mining Plan Period	:	10 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resource m ³ (RoM)	:	Rough stone - 1233700 m ³ Gravel – 49348 m ³
	Minalbe Reserve in m ³ (RoM)	:	Rough stone - 461250m ³ Rough stone - 450750m ³

			Gravel – 39732 m ³	Gravel – 39732 m ³
	Annual Peak Production in m ³	:	Rough stone - 68250 m ³ Gravel – 13932 m ³	Rough stone - 68250 m ³ Gravel – 13932 m ³
	Ultimate Depth in m	:	52m BGL	47m BGL
13.	Depth of water table	:	65m	
14.	Man Power requirement per day	:	18 Nos.	
15.	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	0.81 kLD & 0.5 kLD 0.5 kLD & 0.5 kLD	
16.	Power requirement		TNEB 375628 litres of HSD will be utilized	
17.	Precise area communication approved by Dept. of Geology & Mining	:	Na.ka.N.295/Kanimam/2023 dated:20.11.2023.	
18.	Mining Plan approved by Dept. of Geology & Mining	:	Rc.No.295/Mines/2023, Dated:28.11.2023.	
19.	500m Cluster Letter issued by Dept. of Geology & Mining		Rc.No.295/Mines/2023, Dated:29.11.2023.	
20.	VAO Certificate Regarding Structures within 300m Radius		Letter Dated 30.11.2023.	
21.	Project Cost (excluding EMP cost)	:	Rs.64.76 Lakh	


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22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
		:	Max Total RoM in m ³	450750	39732
		:	Annual Max RoM in m ³	68250	13932 m ³
		:	Ultimate Depth in m	47m BGL	
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.15.79 Lakh Recurring cost – Rs. 10.59 Lakh- + 5% of inflation cost every year		
24.	CER cost (in Rs. Lakh).	:	Rs. 5.0 Lakh as accepted by the PP		

Based on the presentation and documents furnished by the project proponent, **SEAC** decided to recommend the proposal for the grant of **Environmental Clearance** for the annual peak RoM production capacity not exceeding 68250 m³ of Rough stone and 13932 m³ of Gravel by maintaining the restricted ultimate depth of mining of 47m BGL, subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The proponent shall provide the particulars for carrying out the plantation of 1050 Nos. of tall saplings of native species within and outside the proposed mining area as committed before obtaining CTO from TNPCB.
- 3) The PP shall register promptly through online in the **Shram Suvidha Portal** which is the official portal of Ministry of Labour & Employment, Govt of India to

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

- 4) Further, the PP shall send the 'Notice of Opening' indicating the appointment of First Class/Second Class Mine Manager for managing the quarrying operations and the proposed usage of HEMM shall be sent to the Director of Mines Safety, Chennai Region of the Mine under the provisions of MMR 1961 atleast 30 days before the commencement of the mining operation immediately after the execution of lease with district authority.
- 5) The PP shall furnish a Standard Operating Procedures (SoP) which includes appointment of statutory personnel and mode of transport / storage of explosives for carrying out the blasting operations in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 6) 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.
- 7) Considering the village/highway roads are located within 300m from the lease boundary, the PP shall carry out the small scale blasting involving 30 to 40 holes in a round at a time with keeping the total aggregate explosive charge/round is limited to 2 kg only in accordance with the provisions of MMR 1961.
- 8) **Since the structures are situated within a radial distance of 500 m**, the PP shall carry out the scientific studies **within a period of six months** from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.


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- 9) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 10) As accepted by the Project Proponent the CER cost of **Rs.5.0 lakh** and the amount shall be spent for the committed activities at Government High School, Periyathirumangalam, Karur before obtaining CTO from TNPCB.

Agenda No: 448 - 07

(File No: 10598/2023)

Proposed Black granite Quarry lease over an extent of 2.23.5 Ha at S.F.No. 144/4 and 146/2 in Odaiyandahalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Thiru.R.K.Ramesh - Environment Clearance.

(SIA/TN/MIN/454414/2023 dt 05/12/2023)

The proposal was placed in the 448th meeting of SEAC held on 23.02.2024. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. R. K. Ramesh has applied seeking Environment Clearance for the Proposed Rough stone and Gravel Quarry lease over an extent of 2.23.5 Ha at S.F.No. 144/4 and 146/2 in Odaiyandahalli Village, Denkanikottai 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. SEIAA issued Environment Clearance vide Lr. No. SEIAA-TN/F.No. 5384/1(a)/EC No. 3361/2016 dated 20.07.2016 for the production quantity of 825m³ of Black Granite to a depth of 5m from the top of the Hill valid for a period of one year


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and subject to the conditions inter alia that the **PP shall obtain prior clearance from NBWL** as the project site is located within 10km from the boundary of Cauvery North Wildlife Sanctuary for which ESZ was not notified then.

4. CCR obtained from IRO(SZ), MoEF&CC vide Lr. No.EP/12.1/2022-23/SEIAA/281/TN/427 dated 05.04.2023 wherein it is stated among other things that, the project proponent has carried out mining operation from 20.07.2016 to 30.04.2017 without a valid CTE/CTO.

File No	10598		Category	B2
	(SIA/TN/MIN/454414/2023 dt 05/12/2023)			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru.R.K.Ramesh, S/o. Thiru. Krishnaswamy, No.11/12, SBI colony 1 st street, Virugambakkam, Chennai -600092.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/ Limestone)	:	Black Granite	
3.	S.F Nos. of the quarry site with area break-up	:	S.F.No. 144/4 and 146/2	
4.	Village in which situated	:	Odaiyandahalli Village	
5.	Taluk in which situated	:	Denkanikottai Taluk	
6.	District in which situated	:	Krishnagiri District	
7.	Extent of quarry (in ha.)	:	2.23.5 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°28'14.58"N to 12°28'18.84"N 78°01'19.14"E to 78°01'27.72" E	
9.	Topo Sheet No.	:	57 L/03	
10.	Type of mining	:	Opencast mechanized mining	

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11.	Life of Mine	:	18 years	
	Lease Period		20 years	
	Mining Plan Period	:	3 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	2,41,205m ³	-
	Minable Resources in m ³ (RoM)	:	74,540m ³	-
	Annual Peak Production in m ³	:		-
	Maximum Depth in meters	:	41m (11m Agl+30m BGL)	
13.	Depth of water table	:	71m-76m	
14.	Man Power requirement per day:	:	26 Nos.	
15.	Water requirement: 3. Drinking & domestic purposes (in KLD) 4. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	1.7 kLD 0.4 kLD 0.70 kLD & 0.6 kLD	
16.	Power requirement		TNEB & DG Set	
17.	Precise area communication approved by the Dept. of Geology & Mining	:	Rc.No.2380/MM4/2023 Dated:06.04.2023.	
18.	Mining Plan approved by Dept. of Geology & Mining	:	Rc.No.2380/MM4/2023 Dated:06.04.2023 valid for 3 years (3 rd SoM)	
19.	500m Cluster Letter issued by the Dept. of Geology & Mining		Rc.No.560/2020/mines Dated:13.07.2023.	


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20.	VAO Certificate regarding Structures within 300m Radius		Letter Dated: 03.06.2023.
21.	Project Cost (excluding EMP cost)	:	Rs.2,02,75,000/-
22.	EC Recommendation	:	Validity
			30 years subject to the following upper limits.
			Black Granite
			Max RoM in m ³
			12275
		:	Annual Max RoM in m ³
			4095
		:	Max Depth in m
			41m(11m Agl+30m BGL)
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.38.27 Lakhs Recurring cost – Rs. 11.61 Lakhs + 5% of inflation cost every year
24.	CER cost (in Rs. Lakh).	:	Rs 5 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC noted that the Environment Clearance was issued vide Lr. No. SEIAA-TN/F.No. 5384/1(a)/EC No. 3361/2016 dated 20.07.2016 subject to the conditions inter alia that the PP shall obtain prior clearance from NBWL as the project site is located within 10km from the boundary of Cauvery North Wildlife Sanctuary for which ESZ was not notified then. But it is observed that the PP has operated the mine without prior clearance from NBWL. SEAC further noticed that the ESZ for the Cauvery North Wildlife Sanctuary was notified on January 1st, 2020 and that the project site lies 7 km away from the boundary of the Cauvery North Wildlife Sanctuary and outside its ESZ. Hence for the said non-compliance, the PP shall contribute **Rs.10.0 lakhs** towards the mitigation/conservation measures to be undertaken in Cauvery North Wildlife Sanctuary and the money shall be handed over to the DFO for implementing conservation measures.

SEAC further decided to recommend the proposal for the grant of Environmental Clearance for the annual peak RoM production capacity not exceeding 4095 m³ of


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Black Granite by maintaining the ultimate pit depth of mining of 41m (11m AGL + 30m BGL) subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The proponent shall provide the particulars for carrying out the plantation of 1150 Nos. of tall saplings of native species within and outside the proposed mining area as committed before obtaining CTO from TNPCB.
- 3) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds before obtaining the CTO from the TNPCB.
- 4) The PP shall **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) Further, the PP shall send the 'Notice of Opening' indicating the appointment of First Class/Second Class Mine Manager for managing the quarrying operations and the proposed usage of HEMM shall be sent to the Director of Mines Safety, Chennai Region of the Mine under the provisions of MMR 1961 atleast 30 days before the commencement of the mining operation immediately after the execution of lease with district authority.
- 6) 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.


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- 7) 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.
- 8) To ensure the conditions of occupational safety, health & welfare status of persons working in the mine, the PP shall annually conduct occupational health survey to determine prevalence of Noise Induced Hearing Loss (NIHL) due to the operation of Diamond Wire Saw cutting & other HEMMs deployed in the mine and to prepare a plan for hearing conservation programme by involving anyone of the reputed institutes - Regional Occupational Health Centre (Southern) of ICMR-National Institute of Occupational Health, Bengaluru, National Institute of Miners' Health, Nagpur and Anna University, Chennai.
- 9) The PP shall properly provide all the required welfare amenities near quarry such as Drinking water, Rest Shelter, Canteen, Toilets, etc for the persons to be employed in the proposed quarry before the execution of lease, in accordance with the provisions of the Mines Rules, 1955.
- 10) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 11) The PP shall register with the Department of Mining Engineering, Anna University, Chennai for carrying out the Anna Star Rating evaluation in the Granite mine before obtaining the CTO from the DEE/TNPCB.
- 12) As accepted by the Project Proponent the CER cost of **Rs.5 lakhs** and the amount shall be spent for the committed activity towards Panchayat Union Primary


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School, Eri chinnakoundanahalli, Kelamangalam Union, Krishnagiri District
before obtaining CTO from TNPCB.

Agenda No: 448 - 08

(File No: 10619/2023)

Proposed Rough stone and Gravel lease over an extent of 2.05.0 Ha at S.F.No.1066/1(P) in Thennilai (EAST) village, Pugalur Taluk, Karur District, Tamil Nadu by Tmt.L.Kamalam - For Environment Clearance.

(SIA/TN/MIN/456717/2023 dt 22/02/2024)

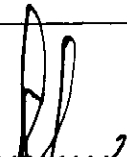
The proposal was placed in this 448th meeting of SEAC held on 22.02.2024. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Tmt.L.Kamalam has applied seeking Environment Clearance for the Proposed Rough stone and Gravel lease over an extent of 2.05.0 Ha at S.F.No.1066/1(P) in Thennilai (EAST) village, Pugalur Taluk, Karur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. The EIA coordinator informed that the Project was granted ToR earlier (File No. 9358) applied under B1 category. Subsequently during 357th meeting of SEAC the PP requested the SEAC for withdrawal of the said application as the project falls under B2 category as per the revised 500m cluster letter and the Committee accepted for the same.

File No	10619	Category	B2
	(SIA/TN/MIN/456717/2023) dt 22/02/2024		
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Tmt.L.Kamalam W/o. Thiru.Loganathan,


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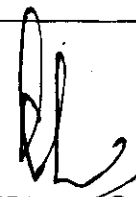
			Door No. 4/60, Lalitha Garden Ranganathapuram, Nedungur, Pugalur Taluk, Karur District – 639111.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/ Limestone)	:	Rough Stone and Gravel	
3.	S.F Nos. of the quarry site with area break-up	:	S.F.No. 1066/1(P)	
4.	Village in which situated	:	Thennilai (EAST) village	
5.	Taluk in which situated	:	Pugalur Taluk	
6.	District in which situated	:	Karur	
7.	Extent of quarry (in ha.)	:	2.05.0	
8.	Latitude & Longitude of all corners of the quarry site	:	10°57'04.22"N to 10°57'08.40"N 77°52'46.80"E to 77°52'52.78"E	
9.	Topo Sheet No.	:	58-F/13	
10.	Type of mining	:	Opencast semi mechanized method of mining.	
11.	Life of Project	:	10 years	
	Lease Period	:	10 years	
	Mining Plan Period	:	10 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m³ (RoM)	:	Rough Stone - 615000m³ Gravel – 41000 m³	-
	Mineable Resources in m³ (RoM)	:	Rough Stone – 239270 m³ Gravel –	-


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			31500 m ³	
	Annual Peak Production in m ³	:	Rough Stone – 18575 m ³ Gravel – 19110 m ³	-
	Maximum Depth in meters	:	35m BGL	
13.	Depth of water table	:	65-70 m	
14.	Man Power requirement per day:	:	16 Nos.	
15.	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	2.0 kLD 1.0 kLD 0.7 kLD 0.3 kLD	
16.	Power requirement		TNEB 66680 litres of HSD to be utilized as fuel for DG set	
17.	Precise area communication approved by the AD/DD, Dept. of Geology & Mining	:	Na.Ka.N.370/Kanimam/2021 Dated:14.03.2022.	
18.	Mining Plan approved by AD/DD, Dept. of Geology & Mining	:	Rc.No.370/Mines/2021 Dated:06.05.2022.	
19.	500m Cluster Letter issued by AD/DD, Dept. of Geology & Mining		Rc.No.370/Mines/2021-3 Dated:22.09.2023.	
20.	VAO Certificate regarding Structures within 300m Radius		Letter Dated: 17.05.2022.	



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21.	Project Cost (excluding EMP cost)	:	Rs.38.54 Lakh		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
		:	Max Total RoM in m ³	239270	31500
		:	Annual Max RoM in m ³	18575	19110
		:	Max Depth in m	35m BGL	
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.24,67,500/- Recurring cost – Rs. 13,15,615/- + 5% of inflation cost every year		
24.	CER cost (in Rs. Lakh).	:	Rs. 5.0 Lakh as accepted by the PP		


Based on the presentation and documents furnished by the project proponent, **SEAC** decided to recommend the proposal for the grant of **Environmental Clearance** for the annual peak RoM production capacity not exceeding 18575 m³ of Rough stone and 19110 m³ of Gravel by maintaining the ultimate depth of mining of 35m BGL, subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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


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- 2) The PP shall install the fencing around the periphery of the abandoned quarry existing adjacent to the proposed quarry site as a part of safety measure before obtaining the CTO from 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.
- 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) 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) Further, the PP shall send the 'Notice of Opening' indicating the appointment of First Class/Second Class Mine Manager for managing the quarrying operations and the proposed usage of HEMM shall be sent to the Director of Mines Safety, Chennai Region of the Mine under the provisions of MMR 1961 atleast 30 days before the commencement of the mining operation immediately after the execution of lease with district authority.
- 7) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 8) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.


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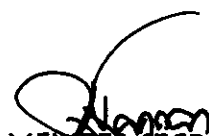
- 9) The PP shall ensure that the transportation of minerals shall not be carried out through the village road passing near the school premises.
- 10) The PP shall appoint a statutory Mine Manager possessing the I / II Class Mines Manager Certificate of Competency (R/UR) under MMR 1961 before executing the lease and a copy of such appointment shall be sent to the DMS/Chennai Region atleast 30 days before the commencement of the mining operations without fail.
- 11) Considering the village/highway roads are located within 300m from the lease boundary, the PP shall carry out the small scale blasting involving 30 to 40 holes in a round at a time with keeping the total aggregate explosive charge/round is limited to 2 kg only in accordance with the provisions of MMR 1961.
- 12) However, the PP shall carry out the scientific studies **within a period of one year** from the commencement of quarrying operations with prior permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 13) The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at either side of the Village road (@distance of 500 m) by ensuring that no vehicles are allowed to pass through the road and all persons within such area have taken proper shelter during the blasting.
- 14) The PP shall install a Notice Board at either side of the Village road (exists within 500 m), at a distance of 500 m indicating 'BLASTING DANGER ZONE' sign & timing of blast before obtaining the CTO from the DEE/TNPCB.


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- 15) The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period unless the prior permission is obtained under Reg. 106 (2) (b) of MMR 1961.
- 16) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 17) The PP shall not carry out any blasting within 300 m from the boundary of a substation or from the electric supply lines of voltage exceeding 650 V or tower structure thereof without the written permission of the owner of such substation or electric supply lines or tower structures; and in case of mining lease hold area, without the written permission of the Electrical Inspector of mines. It shall be duly confirmed by the Competent Authority at the time of lease execution.
- 18) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.


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19) As accepted by the Project Proponent the CER cost of **Rs.5.0 lakh** and the amount shall be spent for the committed activities at Panchayat Union Primary School, Ammapatti Village, K.Paramathi Union, Karur District before obtaining CTO from TNPCB.

Agenda No: 448 - 09

File No: 10606/2023

Proposed Rough Stone and Gravel Quarry over an extent of 1.98.5Ha in S.F. Nos. 186/1, 202/1(P), 203/1(P) and 204/2(P) at Therkku Madathur Village, Tenkasi Taluk, Tenkasi District, Tamil Nadu by Thiru. N. Yusuf - For Environmental Clearance.

(SIA/TN/MIN/453702/2023, Dated: 05.12.2023)

The proposal was placed in the 448th SEAC meeting held on 08.02.2024. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation.

The SEAC noted the following:

1. The Project Proponent, Thiru. N. Yusuf has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry over an extent of 1.98.5Ha in S.F. Nos. 186/1, 202/1(P), 203/1(P) and 204/2(P) at Therkku Madathur Village, Tenkasi Taluk, Tenkasi District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

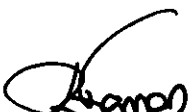
During the meeting, the Committee noted that the EIA coordinator vide email dated: 23.02.2024, has attached a letter stating as follows

"... The applied lease is a consent Patta land, and consent registration is under process. Also, a letter from DFO has not received yet. Hence, due to the non-availability of said documents, I am not attending the SEAC meeting on 23.02.2024 and requesting your good self to defer my proposal and place the same in the forthcoming SEAC meeting."

In the view of the above, the subject was not taken up for appraisal.

Agenda No: 448 - 10

File No: 10620/2023


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Proposed Rough Stone quarry over an extent of 1.50.0Ha in S.F. No. 157 (Part) at Nadupatti Village, Kadayampatti Taluk, Salem District, Tamil Nadu by Thiru.R.Kumar - For Environmental Clearance. (SIA/TN/MIN/439291/2023, Dated: 05.08.2023)

The proposal was placed in the 448th SEAC meeting held on 08.02.2024. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation.

The SEAC noted the following:


1. The Project Proponent, Thiru. R. Kumar has applied for Environmental Clearance for the Proposed Rough Stone quarry over an extent of 1.50.0Ha in S.F. No. 157 (Part) at Nadupatti Village, Kadayampatti Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 10 years. The mining plan is for 5 years & production should not exceed 93451 m³ of Rough Stone at 95% Recovery and 4919 m³ of Rejects at 5%. The annual peak production is 19608 m³ of Rough Stone. The ultimate depth of mining is not clearly mentioned whether depth is 45m (40m AGL+ 5m BGL) or 5 m BGL or 45m from highest elevation or 42 m as it has been mentioned differently in various places of approved Mining Plan and CCR.
4. Earlier EC issued by DEIAA vide Lr.No. DEIAA-DIA/TN/MIN/18915/2018- SLM-EC.No.61/2018 Dated: 07.12.2018 for a production quantity of 1,11,583 m³ of Rough Stone & Depth – 45m (40m – AGL + 5m – BGL).
5. The PP has submitted last permit obtained letter issued by DD/Mines, Salem vide Roc.No.800/2023/Mines-A dated: 05.02.2024.
 - (i) Quantity approved in Mining Plan: 1,11,583 Cbm.
 - (ii) Quantity approved by EC: 1,11,583 Cbm.
 - (iii) Permits obtained so far: 25,904 Cbm.
6. The PP has obtained certified compliance report from IRO, MoEF&CC vide EP/12.1/2023-24/SEIAA/118/TN/175 Dated: 14.02.2024.

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

- (a) The proposed mine lease area is in a hillock.
- (b) There are habitation/hamlets in the foothills of the proposed site within 300m radius.

In the view of the above, committee decided to call for additional details as follows.

1. The PP shall submit a conceptual plan indicating safe & eco-friendly mining operation indicating the slope stability action plan, proper accessible road with permissible gradient (1 in 16), provision of safety elements in the haul road (such as parallel berms, median collision berms, escape lanes, stop signs and speed limit signs), sequence of the bench formation, direction of bench not facing towards the village location, dust control measures during the quarrying operation, controlled blast design for controlling fly rock & noise, dust control measures at the crusher.
2. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, Overhead Water tank, Schools etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income etc.
3. The PP shall obtain a **clarification from the concerned AD/DD (Mines)** regarding the **exact Ultimate Pit Depth as approved earlier in the Mining Plan in 2018.**
4. The revised EMP facilitating the required environmental measures as discussed and committed by the PP.
5. For the existing quarry, the PP shall obtain a letter from the concerned AD/DD (Mines) for the following information:
 - i. Original pit dimension of the existing quarry
 - ii. Quantity achieved Vs EC Approved Quantity
 - iii. Balance Quantity as per Mineable Reserve calculated.


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- iv. Mined out Depth as on date Vs EC Permitted depth Vs Approved Mine Plan Depth
- v. Details of illegal/illicit mining carried out, if any
- vi. Non-compliance/Violation in the quarry during the past working.
- vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
- viii. Existing condition of Safety zone/benches
- ix. Details of any penalties levied on the PP for any violation in the quarry operation by the Department of Geology and Mining

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

Agenda No: 448 - 11

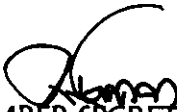
(File No.10607/2023)

Proposed Ordinary Earth Quarry lease over an extent 4.54.0 Ha at S.F.Nos. 94/1 & 127/2 (Part) of Seepalakottai Village, Uthamapalayam Taluk, Theni District, Tamil Nadu by Thiru. S. N. Raguvaran - For Environmental Clearance. (SIA/TN/MIN/260077/2022 dated: 07.03.2022)

The proposal was placed for appraisal in the 448th meeting of SEAC held on 23.02.2024. 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.N. Raguvaran** has applied for Environmental Clearance for the Proposed Ordinary Earth Quarry lease over an extent 4.54.0 Ha at S.F.Nos. 94/1 & 127/2 (Part) of Seepalakottai Village, Uthamapalayam Taluk, Theni District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.


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

1. The proponent shall submit a letter obtained from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the Judgment issued by the Hon'ble Madurai Bench of Madras High Court in W.P.(MD) Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019 dated 12.02.2021.
2. It was observed from the mining plan submitted that the proponent proposes quarrying operations in 4 pits. The Committee, after deliberations, decided to allow mining operations only in Pit-I. Hence the proponent shall submit the revised volume in the plan and section duly approved by the competent authority.

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

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

Agenda No: 448-12

(File No: 10601/2023)

Proposed Rough stone & Gravel quarry lease over an extent of 1.68.50Ha at SF.Nos. 238/2A1, 238/2A2, 238/2A3, 238/2B, 238/2A4, 238/2A5, 238/2A6 & 241/2A, Sathampadi Village, Natham Taluk, Dindigul District, Tamil Nadu by Thiru. K.Karanthamalai - For Environmental Clearance. (SIA/TN/MIN/455955/2023, Dated:20.12.2023)

The proposal was placed in 448th meeting of SEAC held on 23.02.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.K.Karanthamalai has applied for Environmental Clearance for the Proposed Rough stone & Gravel quarry lease over an extent of 1.68.50Ha at SF.Nos.238/2A1, 238/2A2, 238/2A3, 238/2B, 238/2A4, 238/2A5, 238/2A6 & 241/2A, Sathampadi Village, Natham Taluk, Dindigul


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District, Tamil Nadu.

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

Responding to the points as indicated by the SEAC, the details furnished by the project proponent, the PP has revised mining plan by avoiding mining in the narrow NW patch of the lease (AB – XY cross section) and also narrow NE corner (survey no 241/2A portion) and submitted the revised mineable reserves, production details given below:


REVISED PRODUCTION DETAILS

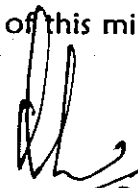
YEAR	Quantity as per mining plan @12m depth for 5 years & 27m for 10 Years		Revised production as per SEAC recommendation @12m depth for 5 years & 27m for 10 Years	
	ROUGHSTONE (m ³)	GRAVEL (m ³)	ROUGHSTONE (m ³)	GRAVEL (m ³)
I	8060	12000		
II	8060	5928	8060	5928
III	8060	--	8060	--
IV	8120	--	8120	--
V	8400	--	8400	--

VI	3780	--	3780	--
VII	3680	--	3680	--
VIII	3680	--	3680	--
IX	3660	--	3660	--
X	3510	--	3510	--

The SEAC have accepted the revised production capacity of 16680m³ of Gravel, & 39,920 m³ of rough stone for a depth of 12m (BGL) for five years and 16680m³ of Gravel, & 58,230m³ of rough stone for a depth of 27m for 10 Years lease period as against mining plan approved production capacity of 17,928m³ of Gravel, & 40,700 m³ of rough stone for a depth of 12m (BGL) for five years and 17,928m³ of Gravel, & 59,010m³ of rough stone for a depth of 27m for 10 Years lease period.


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 8400 m³ of Rough Stone and 10752 m³ of Gravel by maintaining the ultimate depth of mining upto 27m below ground level and subject to the standard conditions as per the Annexure I of this minutes


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

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 3) The PP shall **register promptly through online in the Shram Suvidha Portal** which is the official portal of Ministry of Labour & Employment, Govt of India to obtain **Labour Identification Number (LIN) before obtaining the CTO from the TNPCB.**
- 4) Further, the PP shall send the 'Notice of Opening' indicating the appointment of First Class/Second Class Mine Manager for managing the quarrying operations and the proposed usage of HEMM shall be sent to the Director of Mines Safety, Chennai Region of the Mine under the provisions of MMR 1961 atleast 30 days before the commencement of the mining operation immediately after the execution of lease with district authority.
- 5) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 6) **For carrying out the eco-friendly mining**, the PP shall carry out the scientific studies **within a period of six months** from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed


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

- 7) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 8) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 6th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 9) The PP shall ensure that the transport of materials shall not be carried out during school hours from 8AM-10AM and during 3PM -5PM (or as specified by the school administration).
- 10) The PP shall install the tall wind sheets with thick vegetation (2 to 3 tier plantations) around the boundary of the mine leasehold area, before obtaining the CTO from the TNPCB.
- 11) The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.

- 12) The PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
- 13) As a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 14) As accepted by the Project Proponent the CER cost of **Rs. 5 Lakhs** and the amount shall be spent for the committed activities before obtaining CTO from TNPCB.

Agenda No: 448-13

(File No: 10608/2023)

Proposed Rough stone & Gravel quarry lease over an extent of 4.85.19Ha at SF.Nos. 146/1B, 146/1D, 146/1E, 146/6, 153/4, 153/5A, 153/5B, 153/6, 153/7A, 153/7B, 153/7C, 153/8 & 153/9 of Nadukottai Village and S.F.Nos.31/5B & 32/2 of Maikudi Village, Thirumangalam Taluk, Madurai District, Tamil Nadu by Thiru.K.Sankar - For Environmental Clearance. (SIA/TN/MIN/455789/2023, Dated:16.12.2023)

The proposal was placed in 448th meeting of SEAC held on 23.02.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.K.Sankar has applied for Environmental Clearance for the Proposed Rough stone & Gravel quarry lease over an extent of 4.85.19Ha


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at SF.Nos. 146/1B, 146/1D, 146/1E, 146/6, 153/4, 153/5A, 153/5B, 153/6, 153/7A, 153/7B, 153/7C, 153/8 & 153/9 of Nadukottai Village and S.F.Nos.31/5B & 32/2 of Maikudi Village, Thirumangalam 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.

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

1. The PP shall furnish land use conversion certificate for change of nanjai land for the SF.Nos. 146/1B, 146/1D, 146/1E, 146/6, 153/4, 153/5A, 153/5B, 153/6, 153/7A, 153/7B, 153/7C, 153/8 & 153/9 of Nadukottai Village.
2. As accepted, the PP shall revise the CER.

Agenda No: 448-14

(File No: 10615/2023)

Proposed Multi Colour Granite quarry lease over an extent of 2.00.0Ha at SF.Nos. 212/1, 212/2, 221/16(P), 221/17(P), 221/18(P), 221/19(P) and 221/20 of K.Pitchampatty Village, Karur Taluk, Karur District, Tamil Nadu by Thiru.E.Ramar - For Environmental Clearance. (SIA/TN/MIN/456464/2023, Dated:22.12.2023)

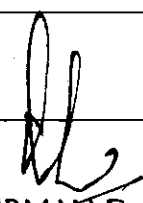
The proposal was placed in 448th meeting of SEAC held on 23.02.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.E.Ramar has applied for Environmental Clearance for the Proposed Multi Colour Granite quarry lease over an extent of 2.00.0Ha at SF.Nos.212/1, 212/2, 221/16(P), 221/17(P), 221/18(P), 221/19(P) and 221/20 of K.Pitchampatty Village, Karur Taluk, Karur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

File No	10615/2023	Category	B2
	SIA/TN/MIN/456464/2023, Dated:22.12.2023		
Sl. No	Salient Features of the Proposal		


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1.	Name of the Owner/Firm	Thiru.E.Ramar S/o. Thiru. Errachi Rettayar, No. 5/60- Padiripatti, Karur District – 621 313
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	Multi Colour Granite
3.	S.F Nos. of the quarry site with area break-up	212/1, 212/2, 221/16(P), 221/17(P),221/18(P), 221/19(P) and 221/20
4.	Village in which situated	K.Pitchampatty
5.	Taluk in which situated	Karur
6.	District in which situated	Karur
7.	Extent of quarry (in ha.)	2.00.0Ha
8.	Latitude & Longitude of all corners of the quarry site	10°47'14.8583"N to 10°47'20.5846"N 78°05'18.7764"E to 78°05'26.0367"E
9.	Topo Sheet No.	58 J/01
10.	Type of mining	Opencast Semi mechanized Mining
11.	Life of Project	20 Years
	Lease Period	20 Years
	Mining Plan Period	20 Years
12.	Mining Plan Details	As per approved Mining Plan
	Geological Resources m ³	80,320m ³ of ROM, 32,128m ³ of Recovery@40%, 48,192m ³ of Granite waste@60%, 30,000m ³ of Weathered rock & 30,000m ³ of Topsoil.
	Minable Resources m ³	31,425m ³ of ROM, 12,570m ³ of Recovery@40%, 18,855m ³ of Granite waste@60%,

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		6,264m ³ of Weathered rock & 7,161m ³ of Topsoil.
	Annual Peak Production in m ³	1,605m ³ of ROM, 642m ³ of Recovery@40%, : 963m ³ of Granite waste@60%, 2,623.5m ³ of Weathered rock & 3,163.5m ³ of Topsoil.
	Maximum Depth in meters	: 23m BGL
13.	Depth of water table	: 64m
14.	Man Power requirement per day	: 30 Employees
15.	Water requirement: 1. Drinking water & Utilized water 2. Dust suppression 3. Green belt	2.2 KLD 0.6 KLD : 0.9 KLD 0.7 KLD
16.	Power requirement	TNEB : 12,496Litres of HSD for Mining plan period
17.	Precise area communication approved by the Additional Chief Secretary to Government (FAC), Natural Resources (MMB.2) Department.	Letter No.3644371/MMB.2/2022-1 Dated: 28.08.2023. :
18.	Mining Plan approved by the Commissioner, Department of G&M.	R.C.N.3552/MM2/2022, Dated: : 21.11.2023.
19.	500m Cluster Letter approved by the Deputy Director, Department of G&M.	R.C.No.475/Mines/2021, : Dated:29.11.2023.

20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:10.01.2022
21.	Project Cost (excluding EMP cost)	:	Rs.3,55,98,000/-
22.	EC Recommendation	Validity :	30 years subject to the following upper limits.
		Max Total in m ³ :	7,805m ³ of ROM, 3,122m ³ of Recovery@40%, 4,683m ³ of Granite waste@60%, 5,724m ³ of Weathered rock & 6,498m ³ of Topsoil.
		Annual Max in m ³ :	1,605m ³ of ROM, 642m ³ of Recovery@40%, 963m ³ of Granite waste@60%, 2,623.5m ³ of Weathered rock & 3,163.5m ³ of Topsoil.
		Max Depth in mtrs :	23m BGL
23.	EMP cost (in Rs. Lakh).	:	Rs.485 Lakhs
24.	CER cost (in Rs. Lakh).	:	Rs.5,00,000

Based on the presentation and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for Annual Peak excavation quantity of not exceeding 1, 605m³ of RoM with maintaining an ultimate pit depth of 23m BGL** subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


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1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a **maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.**
2. The PP shall ensure that the plantation shall be carried out in a phase manner as a part of mine closure activities spelt out in the progressive mine closure plan.
3. The PP shall **register promptly through online in the Shram Suvidha Portal** which is the official portal of Ministry of Labour & Employment, Govt of India to obtain **Labour Identification Number (LIN) before obtaining the CTO from the TNPCB.**
4. Further, the PP shall send the 'Notice of Opening' indicating the appointment of First Class/Second Class Mine Manager for managing the quarrying operations and the proposed usage of HEMM shall be sent to the Director of Mines Safety, Chennai Region of the Mine under the provisions of MMR 1961 atleast 30 days before the commencement of the mining operation immediately after the execution of lease with district authority.
5. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained properly.
6. 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.
7. 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.
8. To ensure the conditions of occupational safety, health & welfare status of persons working in the mine, the PP shall annually conduct occupational health survey to determine prevalence of Noise Induced Hearing Loss (NIHL) due to

the operation of Diamond Wire Saw cutting & other HEMMs deployed in the mine and to prepare a plan for hearing conservation programme by involving anyone of the reputed institutes - Regional Occupational Health Centre (Southern) of ICMR-National Institute of Occupational Health, Bengaluru, National Institute of Miners' Health, Nagpur and Anna University, Chennai.

9. The PP shall properly provide all the required welfare amenities near quarry such as Drinking water, Rest Shelter, Canteen, Toilets, etc for the persons to be employed in the proposed quarry before the execution of lease, in accordance with the provisions of the Mines Rules, 1955.
10. 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.
11. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
12. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Primary School, Kachakkaranpatty Village, Gujiliamparai Union, Dindigul District before obtaining CTO from TNPCB.

Agenda No: 448-15

(File No: 10622/2023)

Proposed Rough stone quarry lease over an extent of 4.71.74Ha at SF.Nos.59/1A1, 59/3A, 59/3B, 63/1, 63/2, 63/3, 63/4, 63/5A, 63/5B, 63/6, 63/7, 63/8, 63/9, 63/10 & 64/2 of Oottathur Village, Lalgudi Taluk, Tiruchirappalli District, Tamil Nadu by M/s. P.S.Mines and Minerals - For Environmental Clearance.

(SIA/TN/MIN/457097/2023, Dated:29.12.2023)

The proposal was placed in 448th meeting of SEAC held on 23.02.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


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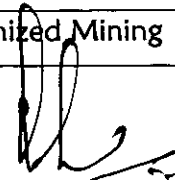

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The SEAC noted the following:

1. The Project Proponent, M/s. P.S. Mines and Minerals has applied for Environmental Clearance for the Proposed Rough stone quarry lease over an extent of 4.71.74Ha at SF.Nos.59/1A1, 59/3A, 59/3B, 63/1, 63/2, 63/3, 63/4, 63/5A, 63/5B, 63/6, 63/7, 63/8, 63/9, 63/10 & 64/2 of Oottathur Village, Lalgudi Taluk, Tiruchirappalli 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	10622/2023	Category	B2
	SIA/TN/MIN/457097/2023, Dated:29.12.2023		
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	M/s.P.S.Mines and Minerals No.PII/M29, Tamilnadu Housing Board, J.J.Nagar, Kurumbanchavadi, Ariyalur District- 621 713.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone quarry
3.	S.F Nos. of the quarry site with area break-up	:	59/1A1, 59/3A, 59/3B, 63/1, 63/2, 63/3, 63/4, 63/5A, 63/5B, 63/6, 63/7, 63/8, 63/9, 63/10 & 64/2
4.	Village in which situated	:	Oottathur
5.	Taluk in which situated	:	Lalgudi
6.	District in which situated	:	Tiruchirappalli
7.	Extent of quarry (in ha.)	:	4.71.74Ha
8.	Latitude & Longitude of all corners of the quarry site	:	11°5'8.34"N to 11°5'21.13"N 78°51'13.13"E to 78°51'19.91"E
9.	Topo Sheet No.	:	58-I/16
10.	Type of mining	:	Opencast Semi-mechanized Mining


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11.	Life of Project	:	10 Years	
	Lease Period	:	10 Years	
	Mining Plan Period	:	5 Years	
12.	Mining Plan Details	:	As per approved Mining Plan	
			Rough stone	Black cotton Soil
	Geological Resources m ³	:	20,19,864m ³	45,906m ³
	Minal Resources m ³	:	5,76,364m ³	26,810m ³
	Annual Peak Production in m ³	:	1,22,720m ³	26,810m ³
	Maximum Depth in meters	:	35m BGL	
13.	Depth of water table	:	55m in summer season - 60m in summer season	
14.	Man Power requirement per day:	:	23 Employees	
15.	Water requirement:	:	3.5 KLD	
	1. Drinking water & utilized water		0.8 KLD	
	2. Dust suppression		1.5 KLD	
	3. Green belt		1.2 KLD	
16.	Power requirement	:	TNEB 4,40,870 Liters of HSD will be utilized	
17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Na.Ka.No.1586/2023/Kannimam, Dated:21.12.2023	
18.	Mining Plan approved by the Assistant Director, Department of G&M.	:	Rc.No.1586/2023/Mines, Dated:26.12.2023.	
19.	500m Cluster Letter approved by the Assistant Director, Department of G&M.	:	Rc.No.1586/2023/Mines, Dated:26.12.2023.	

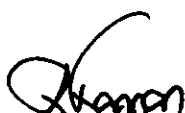

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20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:01.11.2023.		
21.	Project Cost (excluding EMP cost)	:	Rs.49,08,000/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough stone	Black cotton Soil
		:	Max Total in m ³	5,45,494m ³	26,810m ³
		:	Annual Max in m ³	1,22,720m ³	26,810m ³
		:	Max Depth in mtrs	35m BGL	
23.	EMP cost (in Rs. Lakh).	:	Rs.125.36 Lakhs		
24.	CER cost (in Rs. Lakh).	:	Rs.5,00,000		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding **1,22,720m³ of Rough stone and 26,810m³ of Gravel** by maintaining the ultimate depth of mining up to 35m BGL and subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 15 (1) of MCDR,


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

3. The PP shall **register promptly through online in the Shram Suvidha Portal** which is the official portal of Ministry of Labour & Employment, Govt of India to obtain **Labour Identification Number (LIN) before obtaining the CTO from the TNPCB.**
4. Further, the PP shall send the 'Notice of Opening' indicating the appointment of First Class/Second Class Mine Manager for managing the quarrying operations and the proposed usage of HEMM shall be sent to the Director of Mines Safety, Chennai Region of the Mine under the provisions of MMR 1961 atleast 30 days before the commencement of the mining operation immediately after the execution of lease with district authority.
5. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
6. The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at either side of the Village road (@distance of 500 m) by ensuring that no vehicles are allowed to pass through the road and all persons within such area have taken proper shelter during the blasting.
7. Considering the village/highway roads are located within 300m from the lease boundary, the PP shall carry out the small scale blasting involving 30 to 40 holes in a round at a time with keeping the total aggregate explosive charge/round is limited to 2 kg only in accordance with the provisions of MMR 1961.
8. **However, as the structures and highway/village roads are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months** from the commencement of quarrying operations with prior permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating


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

9. Since the village is located within 500 m, as a part of monitoring the implementation of eco-friendly blasting operation, the PP shall monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, and 750 m and the fly rock level produced through capturing a video image **once in six months**, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT (ISM) - Dhanbad, and Anna University Chennai-CEG Campus, etc. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
10. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
11. The PP shall ensure that the transportation of minerals shall not be carried out through the village road passing near the school premises.
12. The PP shall appoint a statutory Mine Manager possessing the I / II Class Mines Manager Certificate of Competency (R/UR) under MMR 1961 before executing the lease and a copy of such appointment shall be sent to the DMS/Chennai Region atleast 30 days before the commencement of the mining operations without fail.


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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. The PP shall install a Notice Board at either side of the National Highway & Village road (exists within 500 m), at a distance of 500 m indicating 'BLASTING DANGER ZONE' sign & timing of blast before obtaining the CTO from the DEE/TNPCB.
15. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
16. As accepted by the Project Proponent the CER cost is **Rs. 5 Lakhs** and the amount shall be spent for the activities as committed towards Panchayat Union Primary School, Oottathur Village, before obtaining CTO from TNPCB.

Agenda No: 448-16


(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 for appraisal in this 448th meeting of SEAC held on 23.02.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:


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1. The project proponent, 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(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.

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

Agenda No: 448-17


(File No: 10616/2024)

Proposed Rough Stone and Gravel quarry over an extent of 3.00.0 Ha at S.F.Nos. 717/1 (Part), 717/2 (Part) & 717/3 (Part) of Therukaraseri Village, Srivaikundam Taluk, Thoothukudi District, Tamil Nadu by Thiru. R. George Antony – For Environmental Clearance. (SIA/TN/MIN/456551/2023, Dated: 23.12.2023)

The proposal was placed for appraisal in this 448th meeting of SEAC held on 23.02.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. R. George Antony has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry over an extent of 3.00.0 Ha at S.F.Nos. 717/1 (Part), 717/2 (Part) & 717/3 (Part) of Therukaraseri Village, Srivaikundam Taluk, Thoothukudi District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 5 years. The approved mining plan is for 5 Years. As per the approved mine plan, the annual peak production shall not exceed 1,18,250 m³ of Rough Stone (3rd year) and 22,484 m³ of Gravel (1st year) for an ultimate depth of 47m (2m Gravel + 45m


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Rough Stone) below ground level.

4. Vallanadu Black Buck Sanctuary is located at a distance of 8.81 km, North East from the mine lease area.

5. DFO letter vide C.No.D/466/2024 Dated: 30.01.2024

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


File No	10616 / 2024	Category	B2 / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	Thiru. R. George Antony, Managing Director, : M/s. RGA Blue Metals Pvt Ltd, No. 16-390, Kalliyankadu, Allor, Kanniyakumari District – 629 003.	
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	: Rough Stone and Gravel	
3	S.F Nos. of the quarry site with area break-up	: 717/1 (Part), 717/2 (Part) & 717/3 (Part)	
4	Village in which situated	: Therkukaraseri	
5	Taluk in which situated	: Srivaikundam	
6	District in which situated	: Thoothukudi	
7	Extent of quarry (in ha.)	: 3.00.0 Ha	
8	Latitude & Longitude of all corners of the quarry site	: 08°37'38.20"N to 08°37'45.26"N 77°49'17.03"E to 77°49'22.72"E	
9	Topo Sheet No.	: 58 – H/14	
10	Type of mining	: Opencast Mechanized Mining	
11	Life of Project	: 5 years	
	Lease Period	: 5 years	
	Mining Plan Period	: 5 years	
12	Mining Plan Details	: As per approved Mining Plan	As modified by SEAC


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	Geological Resources m ³ (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
			13,50,000 m ³	60,000 m ³	-	-
	Minable Resources m ³ (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
			5,70,000 m ³	48,764 m ³	-	-
	Annual Peak Production in m ³	:	Rough Stone	Gravel	Rough Stone	Gravel
			1,18,250 m ³	22,484 m ³	-	-
	Ultimate Depth in meters	:	47m (2m Gravel + 45m Rough Stone) below ground level		-	
13	Depth of water table	:	56m below ground level			
14	Man Power requirement per day:	:	48 Nos.			
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	2.5 KLD 0.5 KLD - 1.0 KLD 1.0 KLD			
16	Power requirement	:	4,64,130 Liters of HSD			
17	Precise area communication approved by Assistant Geologist / Assistant Director (i/c), Department of G&M	:	Na.Ka.No.G.M.1/291/2023, dated:20.10.2023			
18	Mining Plan approved by Assistant Geologist / Assistant	:	Roc. No. G.M.1/291/2023, dated:03.11.2023			


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	Director (i/c), Department of G&M				
19	Department of G&M, Assistant Geologist / Assistant Director (i/c) 500m Cluster Letter	:	Roc. No. G.M.1/291/2023, dated:03.11.2023		
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 30.10.2023		
21	Project Cost (excluding EMP cost)	:	Rs. 82,08,000/-		
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
		:	Max Total RoM in m ³	5,70,000 m ³	48,764 m ³
		:	Annual Max RoM in m ³	1,18,250 m ³	22,484 m ³
		:	Ultimate Depth in mtrs	47m (2m Gravel + 45m Rough Stone) below ground level	
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 31,77,000/- Recurring Cost – Rs. 27,32,500/-		
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 1,18,250 m³ of Rough Stone and 22,484 m³ of Gravel by maintaining the ultimate depth of mining upto 47m (2m Gravel + 45m Rough Stone) below ground level and subject to the standard


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

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 3) The PP shall **register promptly through online in the Shram Suvidha Portal** which is the official portal of Ministry of Labour & Employment, Govt of India to obtain **Labour Identification Number (LIN) before obtaining the CTO from the TNPCB.**
- 4) Further, the PP shall send the 'Notice of Opening' indicating the appointment of First Class/Second Class Mine Manager for managing the quarrying operations and the proposed usage of HEMM shall be sent to the Director of Mines Safety, Chennai Region of the Mine under the provisions of MMR 1961 atleast 30 days before the commencement of the mining operation immediately after the execution of lease with district authority.
- 5) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 6) **For carrying out the eco-friendly mining**, the PP shall carry out the scientific studies **within a period of six months** from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed

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

- 7) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 8) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 9) The PP shall ensure that the transport of materials shall not be carried out during school hours from 8AM-10AM and during 3PM -5PM (or as specified by the school administration).
- 10) The PP shall install the tall wind sheets with thick vegetation (2 to 3 tier plantations) around the boundary of the mine leasehold area, before obtaining the CTO from the TNPCB.
- 11) The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.


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- 12) The PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
- 13) As a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 14) 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 mitigation cost / conservation cost for the Vallanadu Black Buck Sanctuary, before obtaining CTO from TNPCB.

Agenda No: 448-18

(File No: 10623/2023)

Proposed Ordinary Earth quarry over an extent of 1.86.0 Ha at S.F.Nos. 199/3Q & 196/3 of Silamalai Village, Bodinaickanur Taluk, Theni District, Tamil Nadu by Tmt. P. Latha Eswari – For Environmental Clearance.

(SIA/TN/MIN/456589/2023, Dated: 29.12.2023)

The proposal was placed for appraisal in this 448th meeting of SEAC held on 23.02.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:


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1. The project proponent, Tmt. P. Latha Eswari has applied for Environmental Clearance for the Proposed Ordinary Earth quarry over an extent of 1.86.0 Ha at S.F.Nos. 199/3Q & 196/3 of Silamalai Village, Bodinaickanur Taluk, Theni District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.

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

Agenda No: 448 - 19


(File No: 10612/2024)

Proposed construction of Residential Buildings at S.F. No. 459/1A, 1B1, 2B, 2C1, 460/1A, 3A1, 3B, 461/1A, 2A1 & 2B1, Somayampalayam Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu by M/s. ANANYA SHELTERS PRIVATE LIMITED- For Environmental Clearance. (SIA/TN/INFRA2/455878/2024, Dated: 22/02/2024)

The proposal was placed in this 448th SEAC meeting held on 23.02.2024. The project proponent made a detailed presentation. The details of the project furnished by the proponent are available on PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. Environmental clearance is sought for Construction of Residential Buildings at S.F. No. 459/1A, 1B1, 2B, 2C1, 460/1A, 3A1, 3B, 461/1A, 2A1 & 2B1, Somayampalayam Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu by the M/s. Ananya Shelters Private Limited.
2. M/s. Ecotech Labs Private Limited, Chennai is the EIA Consultant for the project.
3. Total plot area of the project is 36617 m² and built-up area is 28656.88 m² respectively.
4. Maximum number of floors is B+G+3 Floors and maximum height of the building is 18.3 m.
5. Total Saleable DU's (dwelling units) is 89 Nos(G+1).
6. Salient features of the project as submitted by the project proponent:


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PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	36617	SQMT
2	Proposed Built Up Area	28656.88	SQMT
3	Total no of Saleable DU's/Villas	89	No.
4	Max Height - (Height of tallest block)	18.3	m
5	No of Building Blocks (Residential + Community facilities)	Residential Villas – 89 Nos(G+1), Club House (Gym)-(G+4), Commercial Building (Office)(B+G+3), Meditation Hall(G), Medical Shop(G), ATM(G), & Shop(G), Watchmen Room(G)	
6	Max No of Floors	4	No.
7	Expected Population (445 Residential + 110 Floating)	555	No.
8	Total Cost of Project	94.77	CR
9	Project Activity:		
AREAS			
10	Permissible Ground Coverage Area (50%)	18308.5	SQMT
11	Proposed Ground Coverage Area (37.35%)	13674.96	SQMT


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12	Permissible FSI Area (2.0)	73234	SQMT
13	Proposed FSI Area (0.732)	26809.12	SQMT
14	Other Non FSI Areas - including basement area etc.	1847.76	SQMT
15	Proposed Total Built Up Area	28656.88	SQMT
WATER			
16	Total Water Requirement	85	KLD
17	Fresh water requirement	42	KLD
18	Treated Water Requirement	43	KLD
19	Wastewater Generation	58	KLD
20	Proposed Capacity of STP	70	KLD
21	Treated Water Available for Reuse	58	KLD
22	Treated Water Recycled	43	KLD
23	Avenue Plantation	15	KLD
RAINWATER HARVESTING			
24	Rainwater Harvesting - Recharge Pits	30	No.
25	Rainwater Harvesting Sump Capacity	220	M3
PARKING			
25	Total Parking Required as / Building Bye Laws	243 Cars & 173 two wheelers	ECS
26	Proposed Total Parking	267 Cars & 180 two wheelers	ECS
27	Parking in Basements	Nil	ECS
GREEN AREA			
28	Proposed Green Area (Minimum 15.0% of plot area)	5500.00	SQMT


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	Total area	36617.0	SQMT
	Existing trees on plot	Nil	Nos
	Number of trees to be planted	460	Nos
	Number of trees to be transplanted/cut	Nil	Nos
SOLID WASTE MANAGEMENT			
29	Total Solid Waste Generation	0.24	TPD
30	Organic waste	0.144	TPD
31	Mode of Treatment & Disposal	Organic Waste Converter	-
32	Quantity of Sludge Generated from STP & Disposal	10	KG/DAY
33	Quantity of E-Waste Generation & Disposal	0.05	TPA
34	Quantity of Hazardous waste Generation & Disposal	0.5	KLPA
POWER / GREEN POWER			
34	Total Power Requirement	550	KVA
35	DG set backup	250 KVA	KVA
36	No of DG Sets	2 No x 250 KVA	No.
37	Solar Panels – Roof Coverage	50	%
38	Hot Water Requirement	5.0	KLD
	Of which met by Solar Panels	5.0	KLD

Population details:

POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION


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Total Saleable Du's	89	5	445
<i>Total</i>	-	-	<i>445</i>
Non-Residential	-	-	-
CLUB house (Employees etc.)	Area – 2266.55 SQMT		10
Club	2266.55 SQMT		--
Commercial	1500.17 SQMT		10
Facility Management Staff			30
<i>Total</i>			<i>50</i>
Visitors			
Residential		10% of Residential Population	45
Club/Community Hall		10% of Residential Population	-
Commercial			5
<i>Total Visitors</i>			<i>50</i>
<i>Guest Rooms</i>	<i>5</i>	<i>2</i>	<i>10</i>
Total Population			555

RECOMMENDATION OF THE COMMITTEE

The Committee discussed the matter and recommended a grant of environmental clearance for the project proposal as above and subject to the standard conditions as


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

Additional Conditions:

1. The construction shall comply with Green Building norms and shall get minimum IGBC **Silver** rating.
2. The Proponent shall furnish the detailed report on emission, noise and vibration due to the operations of DG sets as proposed and the same shall be furnished to TNPCB before obtaining CTO and copy submitted to SEIAA-TN.
3. The PP shall furnish action plan for harnessing 50% solar energy or shall purchase 50% renewable green energy from TNEB to meet the energy requirement.
4. The PP shall ensure that at least 50% of the HVAC system runs on air cooling mechanism.
5. The PP shall adopt IGBC Net Zero Water System.
6. The proponent shall provide the solar canopies on the parking area as per the requirements at ground level.
7. The Board shall have a well laid down environmental policy duly approved by the Board of Directors that should be submitted to SEIAA before obtaining EC.
8. The PP shall furnish NOC from the Airport authority for Height Clearance before obtaining EC.
9. STP (MBBR Technology) shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
10. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.

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


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ANNEXURE-I

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

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

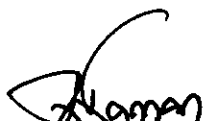
9. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific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


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GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS

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


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


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

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

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

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



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ROUGH STONE/JELLY/BLUE METAL QUARRY

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

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

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


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

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


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- shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 32) To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 33) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 36) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 37) All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 38) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole

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

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

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

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



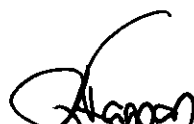
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SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED IN CLOSE PROXIMITY TO THE WINDMILLS		
Sl.	Existing (or) Virgin Quarry	
No	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m Up to 500 m
1.	Appointment of I/II Class 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.

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


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

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

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


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14. Quantity of minerals mined out.

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

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

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

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

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

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

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


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

proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner

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


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

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

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



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Annexure II

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

1. Statutory Compliance:

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


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

2. Air quality monitoring and preservation:

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

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

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

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

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

3. Water Quality Monitoring and Preservation:

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

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

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

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

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


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

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

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


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4. Noise Monitoring and Prevention:

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

5. Energy Conservation Measures:

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

6. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building byelaws requirement, whichever is higher.
7. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building byelaws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

6. Waste Management:

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


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

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

7. Green Cover:


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

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

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

8. Transport:

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


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

9. Human Health Issues:

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

10. Corporate Environment Responsibility:

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

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

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

11. Miscellaneous:

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


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prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

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

Appendix -I
List of Native Trees Suggested for Planting


No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விவம்
2	<i>Adenanthura pavonina</i>	Manjadi	மஞ்சாடி, ஆனனக்குன்றிமணி
3	<i>Albizia lebeck</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 tomentos</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கோங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவுளி
18	<i>Creteva adansonii</i>	Mavalingum	மாவிலங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sebum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகனை
23	<i>Ficus amplissima</i>	Kallitchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றாப்பழை
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம், ஆயிலி
27	<i>Lannea coromandelica</i>	Odham	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விலா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	அரம்பா, பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
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	எச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunnai	தறு முன்னை
42	<i>Premna tomentosa</i>	Malaipoovarasu	மலை பூவரசு
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vernangu, Tada	வெள்ளாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கறிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புங்கன் சோப்புக்காய்
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 கொட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia bellerica</i>	Thandri	தாண்ட்ரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வெண் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்கரா
60	<i>Wrightia tinctoria</i>	Veppalai	வெப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்பளி


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Appendix -III

Display Board

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

சுரங்கம்

சுரங்கத்தில் சுவாமி செயல்பாடுகளுக்கான சுற்றுத்தூய்மை அனுமதி கீழ்க்கண்ட நித்தானங்களுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEAW—, தெலிங்காபுட்டி, சுற்றுத்தூய்மை அனுமதி—தேதி வரை செல்லத்தக்கதாக உள்ளது.

பகலம் பகுதி வளர்ச்சி மேம்பாட்டுக்கான அடிக்கடி திட்டம்	சுவாமிநீரின் எல்லைமையச் சுற்றி வேலி அமைக்க வேண்டும்
நடப்பட்டு புராமதிகப்பல வேண்டிய அடிக்கடி எண்ணிக்கை:	சுரங்கத்தின் கீழும் தாதுவட்டத்திலிருந்து மீட்டக்க மிகமல் இருக்க வேண்டும். சுரங்கில் மாக ஏற்படாதவாறு அடிக்க பணிகளை மேற்கொள்ள வேண்டும். வாகணங்கள் செல்லும் பாதையில் மாக ஏற்படாத அளவிற்கு தண்ணீரை முறைபாக தண்ணீர் வாகிலின் முலமாக அல்லப்போது தெனிக்க வேண்டும். இளசுசல் அளவையும் தூசி மாகபட்டையும் குறைப்பதற்காக சுவாமிநீரின் எல்லைமைய சுற்றி அடத்திபாண பகலம் பகுதியை ஏற்படுத்த வேண்டும்.
சுரங்கத்தில் வேலி வைக்கும்பொழுது நிலஅதிர்வுகள் ஏற்படாதவாறும் மற்றும் சுரங்க பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை உண்டிப்பாக செயல்படுத்தப்பட வேண்டும்.	
சுரங்கத்தில் இருந்து ஏற்படும் இளசுசல் அளவு 85 செ.மீ.ஸ் (85A) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற் கொள்ள வேண்டும்.	
சுரங்க சட்ட விதிகள் நடை கீழ் சுரங்கத்தில் உள்ள பணியாளர்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதென ககதாரமுள்ள வழிப்பாறு வாதிகளை செய்யு தர வேண்டும்.	
கிராம அல்லது பஞ்சாயத்து வட்டிபாக வாகணங்கள் செல்லும் எல்லைமைய தெளத்து தன்கு புராமதிக வேண்டும்.	
சுரங்கப்பணிகளால் அருகில் உள்ள விவசாயப் பணிகள் மற்றும் தீர்திலைகள் பாதிக்கப்படக் கூடாது.	
தீர்திலைகள் பாதிக்கப்படாமல் இருப்பதா உறுதி செய்யும் வாகையில் நிலத்து தீர்த் துர்த்தினை தெளத்து வாகணவிக வேண்டும்.	
சுரங்கத்திலிருந்து கலிக பொருட்களை எடுத்துச் செல்லு கிராம மக்களுக்கு எந்தக் கிராமத்திலையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் சுற்றுத்தூய்மை பாதிக்கவாத வாகணம் வாகணங்களை இயக்க வேண்டும்.	
சுரங்கப்பணிகள் முடிக்கப்பட்டவுடன் சுரங்க முடல் திட்டத்தில் உள்ளவாறு சுரங்கத்தினை முட வேண்டும்.	
சுரங்க நடவடிக்கைகளை முடித்தபின்னர் சுரங்கப் பகுதி மற்றும் சுரங்க நடவடிக்கைகளை இடையூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமானம் செய்யு தாவணங்கள் விடங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வாகையில் பகலம்பகுதியை உருவாக்க வேண்டும்.	
முழுமையான நித்தானங்களை அறிய பாதிவேலி (http://parish.nic.in) என்கிற இணையதளத்தைப் பார்க்கவிரும்பும் மேலும் எந்தவித சுற்றுத்தூய்மை சார்ந்த பகார்களுக்கு சென்னையில் உள்ள சுற்றுத்தூய்மை மற்றும் வன அமைச்சகத்தின் ஒருங்கிணைந்த வட்டார அலுவலகம்: 044 - 28222325 (அல்லது) தமிழ்நாடு மாக கட்டுப்பாடு வாகில்தின் மாகட்ட சுற்றுத்தூய்மை பொறுபாணக அலுவலகம்.	

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