

Minutes of 364th meeting of the State Expert Appraisal Committee (SEAC) held on 23.03.2023 (Thursday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No: 364-01
(File No: 9626/2022)

Proposed Rough Stone & Gravel quarry Lease over an extent of 1.27.5 Ha at S.F.No. 45/1A & 45/1B in Irumbarai Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu by Thiru.B.Ramalingam - For Environmental Clearance (SIA/TN/MIN/407382/2022 dated 03.12.2022)

The proposal is placed for appraisal in this 364th SEAC meeting held on 23.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

SEAC noted the following:

1. The Project Proponent, Thiru.B.Ramalingam has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry Lease over an extent of 1.27.5 Ha at S.F.No. 45/1A & 45/1B in Irumbarai Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier appt No. SIA/TN/MIN/270040/2022 dt: 28.04.2022 (File No. 9210/2022) was appraised vide 300th meeting of SEAC held on 04.08.2022. Based on the presentation and documents furnished by the project proponent, SEAC noted that in G.O(MS) No. 295 dated 03.11.2021 the Government in Industries Department has notified the following Rules specifying certain conditions for permitting mining activities near ecologically sensitive areas.

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

The Committee noted that the Othimalai RF is located at a distance of 670 m from this project site and the proposal is, therefore, hit by the above G.O. The


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Committee, therefore, decided not to recommend the proposal and same was accepted in 545th meeting of SEIAA held on 26.08.2022.

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

"In the said rules, in rule 36, in sub-rule (T-A), in Clause(e) for the expression "the National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors and Reserve Forests", the expression "National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors" shall be substituted".

5. Consequently, the proponent has re-presented/reapplied the proposal to reconsider the earlier decision based on the above G.O.
6. Now, the Proponent has resubmitted the same proposal vide online application No. SIA/TN/MIN/407382/2022 dated 03.12.2022 (File No. 9626/2022) with all necessary supporting documents in order to obtain Environmental Clearance.

File No	9210	9626
Online Proposal No for EC	SIA/TN/MIN/407382/2022 dated 03.12.2022	SIA/TN/MIN/407382/2022 dated 03.12.2022

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

1	Name of the Owner/Firm	Thiru. B. Ramalingam, S/o. Balasubramaniyan, No. 4/237, Thottathu Salai, Sellappampalayam, Tiruppur District - 642 207.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone & Gravel Quarry
3	S.F No. Of the quarry site	45/TA & 45/1B


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4	Village in which situated	Irumburai
5	Taluk in which situated	Mettupalayam
6	District In which situated	Coimbatore
7	Extent of quarry (in ha.)	1.27.50
8	Latitude & Longitude of all corners of the quarry site	11°21'20.7236"N to 11°21'15.0639"N 77°05'42.5032"E to 77°05'40.1094"E
9	Topo Sheet No.	58-E/3
10	Type of mining	Opencast method of Semi-Mechanized Mining
11	Period of quarrying proposed	5 years
12	Production (Quantity in m ³)	131130m ³ of rough stone recovery (@95%), 6900m ³ of mine waste(@5%) & 72m ³ of gravel
13	Existing Depth of Quarry	14m
14	Ultimate depth	37m
15	Depth of water table	52m below the surface ground level
16	Man Power requirement per day:	18 Nos
17	Water requirement: 1. Drinking water 2. Dust suppression 3. Green Belt	1.50 KLD 0.5 KLD 0.5 KLD 0.5 KLD
18	Power requirement	104916 litres of HSD for the entire project life
19	Precise area communication approved by the Assistant Director, Dept. of G&M with date	Roc.No.262/Mines/2021 Dated: 04.04.2022.
20	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	Roc.No.262/Mines/2021 Dated: 20.04.2022.
21	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.262/Mines/2021 Dated: 20.04.2022
22	VAO certificate regarding habitations in 300m radius	Letter dated: 22.04.2022
23	Project Cost (excluding EMP)	Rs. 45.36.000/-
24	EMP cost	Capital Cost: Rs.11.25.000/- Recurring Cost: RS.12.45,340/-


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The Committee, taking into consideration the safety aspects, decided to recommend the proposal for the grant of Environmental Clearance for the revised bench height and revised quantity as follows:

YEARWISE DEVELOPMENT AND PRODUCTION									
YEAR	Section	Bench	L (m)	W (m)	D (m)	Volume in m ³	Recoverable Reserves in m ³ @ 95%	Mine waste in m ³ @ 5%	Gravel in m ³
I -	XY-AB	I	36	1	2				72
YEA		II	67	48	5	16080	15276	804	
R		III	70	58	5	20300	19285	1015	
II -		IV	133	48	5	31920	30324	1596	
YEA		V	123	38	5	23370	22202	1168	
R		VI	113	28	5	15820	15029	791	
V -		VII	103	18	5	9270	8807	463	
YEA									
R									
		GRAND TOTAL				116760	110923	5837	72

As per the revised mining plan, the production quantity is 110923m³ of rough stone recoverable (@95%), 5837m³ of mine waste (@5%) & 72m³ of gravel for an ultimate depth of 32m below ground level.

SEAC considering the safety aspects, decided to recommend the proposal for the grant of Environmental Clearance for the revised total production quantity of 110923m³ of rough stone recoverable, 5909m³ of gravel with annual peak production capacity not


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exceeding 34,561m³ of rough stone recoverable for an ultimate depth of 32 below ground level subject to the standard conditions as per the Annexure 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 inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain 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.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall ensure that the following provisions are provided due to the existence of Reserved Forest/Reserve Land at a distance of less than 1km from the project site:
 - i. Since the R.F is located very close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in two rows) along the


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boundary of the mine lease area before obtaining the CTO from the TNPCB.

- ii. 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.
- iii. 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.
- iv. 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.
- v. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
- vi. 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.
- vii. 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 placed within the lease hold area ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
- viii. 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.
- ix. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-


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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.

- x. 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.
 - xi. 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.
 - xii. 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 / areas with a high degree of erosion on forestland.
 - xiii. 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.
 - xiv. The PP shall not use plastic carry bags within the quarry area.
 - xv. 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.
 - xvi. 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.
7. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced


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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. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.

8. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
9. Since few habitations are situated at a distance of 450 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – 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.
10. 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.
11. 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.
12. 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 working touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / 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.

13. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
14. 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.
15. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
16. 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.
17. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
18. 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.
19. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent towards the Government Middle School, Irumbalur for the committed activities, before obtaining CTO from TNPCB.

Agenda No: 364-02

(File No: 9639/2022)

Proposed Rough Stone and gravel quarry lease over an extent 3.245 Ha at S.F.No.1843/2B, 1844/1, 1844/2 & 1845/2 of Malmangalam Bit-II Village, Periyakulam Taluk, Theni District, Tamil Nadu by Thiru.O.K.Suthan - For Terms of Reference.


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(SIA/TN/MIN/410420/2022 dated 15.12.2022)

The proposal was placed in this 364th meeting of SEAC held on 23.03.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **Thiru.O.K.Suthan** has applied for Terms of Reference for the Proposed Rough Stone and gravel quarry lease over an extent 3.24.5 Ha at S.F.No.1843/2B, 1844/1, 1844/2 & 1845/2 of Melmangalam Bit-II Village, Periyakulam Taluk, Theni District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. From the google imagery, it was ascertained that Vaigai Dam/ Reservoir is located at a distance of 700m (approx..) from the proposed project site.
4. Earlier in the case of Thiru.V.Aadimoolam (F.No.7427/2020; SIA/TN/MIN/142008/2020, dated: 10.02.2020), whose quarry lease was located in S.F.Nos. 1547, 1548/2, 1548/3, 1550/1C, 1550/2A & 1550/2B of Melmangalam Bit-II Village, Periyakulam Taluk, Theni District, Tamil Nadu, it was noted that the project site was located in the upstream of the Vaigai dam at 175 m. Hence, a study report was obtained in order to assess the impact of mining on the Vaigai dam stability and the impact on the Inflow into the Vaigai Dam.

In the report it is stated that,

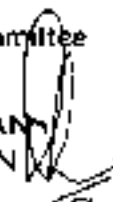
"Blast induced ground vibrations can cause damage to the nearest residential and other structures in the village and fly-rock endanger the surroundings, if indiscriminate blasting of multiple rows of drillholes are blasted with instantaneous detonators using huge charges of high explosives per delay (more than what has been recommended in this report per delay) is used.

It is highly recommended that the blast vibration study shall be conducted immediately after the commencement of quarrying operations for designing the safe charge for the production blasts to be carried out in future".

Also, in the report received from AD, Mines, it was stated that, the committee


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strongly feels that the dam may get damaged due to the blasting of multiple rows of drill holes.

In view of these, the proposal (F.No.7427/2020), was not recommended in the 209th SEAC meeting. Since the dam is the lifeline for Theni, Madurai, Ramanathapuram, Sivagangai and Dindigul Districts.

The current proposal also situated at a distance of 800 m from the starting point of the Vaigai Dam, which is a earthen dam and the Committee observed that the mining operations involving blasting activities may cause damage to the existing structure of the dam. Besides, the proposed site is also surrounded by the presence of habitations including a temple & school within 600m. Further allowing mining in this area will cause considerable environmental damage in this sensitive area. Hence, considering all the factors, the Committee decided not to recommend the proposal.

Agenda No: 364 - 03
(File No: 9646/2022)

Proposed Multi-coloured Granite quarry Lease over an extent of 1.215 Ha at S.F.No. 1581/1(P), 1761/1(P), 1761/2 & 1761/8 in Sandanapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by M/s. Ganesh Granites – For Environmental Clearance (SIA/TN/MIN/405966/2022 dated 10.11.2022)

The proposal is placed in this 364th meeting of SEAC held on 23.03.2023. The details of the project are available in the website (parivesth.nic.in).

The SEAC noted the following:

1. The project proponent, **M/s. Ganesh Granites** has applied for Environmental Clearance for the Proposed Multi-coloured Granite quarry Lease over an extent of 1.215 Ha at S.F.No. 1581/1(P), 1761/1(P), 1761/2 & 1761/8 in Sandanapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item I(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the project are as follows:

Sl. No	Details of the Proposal	Data Furnished
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1	Name of the Owner/Firm	M/s. Ganesh Granites, No. 2/56, Varaganapalli Village, Nagamangalam Post, Denkanikottai Taluk, Krishnagiri District -635113.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Multi Colour Granite Quarry
3	S.F No. Of the quarry site	1581/1(P), 1761/1(P), 1761/2 & 1761/8
4	Village in which situated	Sandanapalli
5	Taluk in which situated	Denkanikottai
6	District in which situated	Krishnagiri
7	Extent of quarry (in ha.)	1.21.5ha
8	Latitude & Longitude of all corners of the quarry site	12°28'13.7536"N to 12°28'17.6948"N 77°50'20.7282"E to 77°50'25.9120"E
9	Topo Sheet No.	57-H/15
10	Type of mining	Opencast Semi-Mechanized Mining
11	Lease Period of quarrying proposed	20 years
	Mining Plan Period Validity	20 years
12	Production (Quantity in m ³)	i) RoM of 22300m ³ which includes 8920m ³ of recovery (@40%) & 13,380m ³ of granite waste (@60%) ii) 8576m ³ of weathered rock iii) 4757m ³ of topsoil
13	Ultimate Depth of Quarry	28m
14	Depth of water table	65m below ground level.
15	Man Power requirement per day:	20 Nos.
16	Water requirement:	1.8 KLD
	4. Drinking & domestic purposes	0.3 KLD
	5. Dust suppression	0.7 KLD
	6. Green Belt	0.8 KLD
17	Power requirement	35,680 litres of HSD during the mine plan period.

18	Precise area communication approved by the Additional Chief Secretary to Govt. with date	Lr.No.2836/MME.2/2022-1, Dated:03.06.2022.
19	Mining Plan approved by the Commissioner, Commissionerate of Geology and Mining with date	Roc.No.301/MM4/2022, Dated:05.08.2022.
20	500m cluster letter Issued by the Deputy Director, Dept. of Geology and Mining with date	Roc.No.607/2020/Mines Dated:10.08.2022.
21	VAO certificate regarding habitations in 300m radius	Letter dated: 08.08.2022
22	Project Cost (excluding EMP)	Rs.2,22,43,000/-
23	EMP cost	Capital Cost: Rs.26,31,050/- Recurring Cost: Rs.11,10,278/-

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for RoM of 22300m³ which includes 8920m³ of recovery (@40%), 13,380m³ of granite waste (@60%) and also 8576m³ of weathered rock & 4757m³ of topsoil but not exceeding an annual peak production of 1940 m³ of Granite up to an ultimate depth of 23m, subject to the standard conditions as per the Annexure 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 the competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification No. S.O. 1807(E) Dt. 12.4.2022.
2. 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 the EMP as committed.
3. The proponent shall obtain a 'Star Rating' system awarded by Anna University,


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Chennai annually to the mining lease being operated for their efforts and shall contribute Rs.5 Lakhs for the initiatives taken for successful implementation of the Sustainable Development Framework (SDF).

4. The proponent is requested to prepare Standard Operating Procedure for using Diamond Wire Saw Cutting method before obtaining CTO.
5. The proponent shall mandatorily appoint the statutory Mines Manager & other statutory competent persons and the Geologist in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Granite Conservation & Development Rules, 1999 respectively.
6. The PP shall also include the leases which were considered for the determination of cluster situation earlier by the competent authority, shall include it in the EMP & REMF without any deviation.
7. 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.
8. The proponent shall construct 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/map showing the same before obtaining the CTO from TNPCB.
9. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
10. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
11. 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.


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12. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
13. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
14. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e., quantum of Granite, waste, over burden, side burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the MoEF & CC, 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.
15. The Proponent shall ensure that the overburden, waste rock and non-saleable granite generated during prospecting or mining operations of the granite quarry shall be stored separately in properly formed dumps on grounds earmarked. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps. Such dumps shall be properly secured to prevent the escape of material in harmful quantities which may cause degradation of the surrounding land or silting of water courses.
16. 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 and submit the consolidated report to TNPCB once in six months.


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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 undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
18. The PP shall also develop the Green belt around the office buildings, along the side of the roads and on backfill areas, if any, apart from along the mine lease boundary. 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 in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
19. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing
20. 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. **Dust, Noise and Vibration Related:** Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed. Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.

22. The Impact on fauna species in the mining area is mostly due to noise vibration and loss of vegetation cover. No working is proposed during night time, i.e., after 6 pm. No lighting is allowed to spread outside quarry lease area.
23. 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 and the abandonment of the granite quarry as assured in the Environmental Management Plan & the approved Mine Closure Plan.
24. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
25. 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.
26. 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.
27. 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.
28. 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.
29. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the Granite Conservation and Development Rules 1999, the MCDR 2017 and Tamil Nadu Minor Mineral Concession Rules 1959 are complied by carrying out


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- the quarrying operations in a skilful, 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.
30. 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.
 31. 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.
 32. 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.
 33. All the conditions imposed by the concerned Assistant/Deputy Director, Geology & Mining, in the mining plan approval letter and the Precise area communication letter issued by the concerned District Collector should be strictly followed.
 34. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat / local representatives, if any, from whom any suggestion/representation has been received while processing the proposal.
 35. 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.
 36. As accepted by the Project proponent in lieu of CER, the amount of Rs. 5 lakhs shall be spent for the conservation measures in Cauvery (North) wild life


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sanctuary in consultation with concerned DFO, before obtaining CTO from TNPCB

Agenda No: 364-04

(File No: 9620/2022)

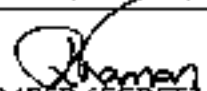
Proposed Ordinary Earth quarry lease over an extent of 1.66.5 Ha at SF. Nos. 96/1A, 96/1B, 96/2A, 98/2A3, 98/2A4, 98/2B1 and 98/2B2, of Vembedu Village, Uthukottai Taluk, Tiruvallur District, Tamil Nadu by Thiru. V.Mothilal- For Environmental Clearance. (SIA/TN/MIN/404680/2022, Dt: 22.11.2022).

The proposal was placed in 364th SEAC meeting held on 23.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. V.Mothilal has applied for Environmental Clearance for the proposed Ordinary Earth quarry lease over an extent of 1.66.5Ha in SF. Nos. 96/1A, 96/1B, 96/2A, 98/2A3, 98/2A4, 98/2B1 and 98/2B2 of Vembedu Village, Uthukottai Taluk, Tiruvallur 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 the mining plan the lease period is 1 year. The mining plan is for the period of one year & the production should not exceed 24.780m³ of Ordinary Earth with an ultimate depth of mining is 2m BGL.

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru.V.Mothilal, S/o.K.Vadivel, No.4/656, 4th Street, Mahalakshmi Nagar, Padiyanallur, Chennai - 600 052.
2	Type of quarrying	Ordinary Earth Quarry
3	S.F No. Of the quarry site with area break-up	96/1A, 96/1B, 96/2A, 98/2A3, 98/2A4, 98/2B1 and 98/2B2
4	Village in which situated	Vembedu
5	Taluk in which situated	Uthukottai
6	District in which situated	Tiruvallur


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7	Extent of quarry (in ha.)	1.66.5Ha
8	Latitude & Longitude of all corners of the quarry site	13°13'39.41"N to 13°13'43.87"N 79°57'14.04"E to 79°57'20.58"E
9	Topo Sheet No.	570/16
10	Type of mining	Opencast Method of Shallow Mining
11	Period of quarrying proposed	1 year
12	Production (Quantity in m ³)	As per the mining plan the lease period is 1 year. The mining plan is for the period of one year & the production should not exceed 24,780m ³ of Ordinary Earth with an ultimate depth of mining is 2m BGL.
13	Depth of quarrying	2m Below Ground level
14	Depth of water table	30m
15	Man Power requirement:	7 Employees
16	Water requirement: 1. Drinking & domestic purposes 2. Dust suppression, 3. Green Belt	1.5 KLD 0.5 KLD 0.5 KLD 0.5 KLD
17	Power requirement a. Domestic Purpose b. Industrial Purpose	TNEB 4130 litres of HSD Will be utilized for the entire project life.
18	Whether any habitation within 300m distance	Nil
19	Precise area communication approved by the Assistant Director, Department of Geology and Mining with date	Na.Ka.No.261/2021/Kanimam-2, dated:06.05.2022
20	Mining Plan approved by Assistant Director(i/c), Department of Geology and Mining with date	Roc.No.261/2021/G&M-2, dated:15.07.2022
21	500mts letter approved by the Assistant Director(i/c), Department of Geology and Mining with date	Roc.No.261/2021/G&M-2, dated:15.07.2022
22	VAO certificate regarding 300m radius cluster	Dated:19.08.2022
23	Project Cost	Rs. 10,16,000


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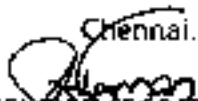
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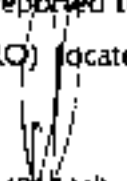
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24	EMP cost	Rs.4.15 Lakhs
25	CER cost	Rs.1 Lakh

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 24,780m³ of Ordinary Earth with maintaining an ultimate pit depth of 2m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF & CC. In addition to the following specific conditions:

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 inform the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
3. The proponent shall construct 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/map showing the same before obtaining the CTO from TNPCB.
4. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
5. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
6. 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.

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7. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
8. 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.
9. As accepted by the Project proponent the CER cost is Rs.1,00,000 lakh and the amount shall be spent for the Government Primary School, Vembedu Village as committed, before obtaining CTO from TNPCB.

Agenda No: 364-05

(Old File No: 8418/2021)

(New File No: 9627/2022)


Proposed gravel quarry lease area over an extent of 1.68.0Ha at SF.No 191/1C, 191/2, 191/4 & 191/5, Keeranur Village, Melur Taluk, Madurai District by Thiru V. Balachandar - For Environmental Clearance. (Old Online No.SIA/TN/MIN/201091/2021, dated: 02.03.2021) (New Online No.SIA/TN/MIN/409436/2022, dated: 06.12.2022)

The SEAC noted the following:

1. The project proponent, ThiruV.Balachandar has applied for Environmental Clearance for the gravel quarry lease area over an extent of 1.68.00Ha at SF. No. 191/1C, 191/2, 191/4 &191/5, Keeranur Village, Melur Taluk, Madurai District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification,2006.
3. The production for one year not to exceed 21,192m³ of gravel with proposed depth of 2m (BGL).
4. Earlier, this proposal was placed with file no. 8418 with Online No.SIA/TN/MIN/201091/2021, dated: 02.03.2021 before 228th SEAC meeting held on 24.8.2021. Based on the presentation made and the documents furnished by the Project proponent, SEAC decided that the project proponent shall obtain the soil test report for the entire depth of 2m from reputed Government institute/Government departments. On receipt of the above


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documents, the committee would further deliberate on this project and decide the further course of action.

5. The project proponent has furnished the soil testing results analysed by University College of Engineering, Dindigul, Anna University. Based on that, this subject was placed before 260th SEAC Meeting held on 1.4.2022. The Project proponent made a presentation along with clarification for the above shortcomings observed by the SEAC.
6. Based on the presentation and document furnished by the project proponent, SEAC noted that as per the report of soil analysis submitted, the percentage (%) of sand is 21.27. Considering the Judgment of 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, the Director of Geology and Mining, Government of Tamil Nadu, In his letter No. 7240/MM6/2019 dated 30.07.2021, has, inter alia, issued the following directions:
 - *No quarry lease shall be granted in areas where the test results indicate the presence of Sand in the composition.*
7. SEAC therefore decided to not recommend the proposal for the grant of **Environmental Clearance.**

Subsequently, the proponent had given a representation through a letter dated 12.05.2022 to consider for re-appraisal of the above said proposal and to issue EC accordingly.

Based on the above, the proposal was placed for appraisal in the 315th SEAC meeting held on 29.09.2022. Based on the presentation SEAC decided that the representation was addressed to Member Secretary, SEIAA-TN, has to be placed before the Authority first and then forwarded to SEAC along with the remarks of SEIAA, if necessary.

Subsequently, the proposal was placed in 561st Authority meeting held on 18.10.2022


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The Authority noted that the subject was appraised in 315th SEAC meeting held on 29.09.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for additional details.

Based on the presentation, SEAC decided that the representation was addressed to Member Secretary, SEIAA-TN, has to be placed before the Authority first and then forwarded to SEAC along with the remarks of SEIAA, if necessary.

In the view of the above, MS SEIAA may take note of this.

In view of the above, Authority decided to request the Member Secretary, SEIAA to communicate the minutes to the project proponent.

Now the proponent filed a new file no.9627 hiding the earlier facts with online No.SIA/TN/MIN/409436/2022 dated 06.12.2022. The proposal was placed for appraisal in this 364th meeting of SEAC held on 23.03.2023. The committee noted that the proposal was already appraised and subsequently not recommended.

Hence the SEAC decided to not recommend the proposal for the grant of Environmental Clearance and fresh remarks/reasons are sought from the SEIAA for accepting the filling of the proposal in the same survey numbers & area of extent under new number but it was rejected earlier by the SEAC.

Agenda No: 364-06

(File No: 9633/2022)

Proposed Rough stone and Gravel quarry lease over an extent of 4.95.5Ha at SF. Nos. 202/2(Part), 203/A & 203/2B of Paapakudi Part-1 Village, Cheranmahadevi Taluk, Tirunelveli District, Tamil Nadu by Thiru.Konda.L.Rajakrishnan- For Environmental Clearance. (SIA/TN/MIN/409195/2022, Dt: 05.12.2022).


The proposal was placed in 364th SEAC meeting held on 23.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.Konda.L.Rajakrishnan has applied for Environmental Clearance for the proposed Rough stone and Gravel quarry lease over an extent of 4.95.5Ha in SF. Nos. 202/2 (Part), 203/A & 203/2B of Paapakudi Part-1 Village, Cheranmahadevi Taluk, Tirunelveli District, Tamil Nadu.


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2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 13,69,390m³ of Rough stone & 42,637m³ of Gravel with an ultimate depth of mining is 56m BGL. The annual peak production is 384910m³ of Rough stone(3rdYear) & 27776m³ of Gravel(2ndYear).

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

1. The PP shall submit affidavit agreeing to remove the shed said to be owned by the PP and in the vicinity of the site
2. PP shall furnish details regarding the two existing pits operated earlier.
3. The PP shall submit the 'Slope stability action plan' for the proposed quarrying operation considering the existing two pits of 10 m highwall within the lease and it shall be vetted by the concerned AD (Mines).
4. The PP shall revise the total excavation quantity details by restricting the depth by 46m BGL to be incorporated in the 'Production & Development Plan'.
5. As accepted, the PP shall furnish revised CER for an amount of Rs.10 lakhs.

On the receipt of the same further deliberation will be done.

Agenda No: 364-07

(File No: 9640/2022)

Proposed Rough stone and Gravel quarry lease over an extent of 2.27.5Ha at SF. Nos. 48/4 (P) & 48/5A (P) of Palur Village, Cheyyur Taluk, Chengalpattu District, Tamil Nadu by M/s. Bommi Marines Private Limited- For Environmental Clearance. (SIA/TN/MIN/410043/2022, Dt: 12.12.2022).

The proposal was placed in 364th SEAC meeting held on 23.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Bommi Marines Private Limited has applied for Environmental Clearance for the proposed Rough stone and Gravel quarry lease over an extent of 2.27.5 Ha in SF. Nos. 48/4 (P) & 48/5A (P) of Palur Village, Cheyyur Taluk, Chengalpattu District, Tamil Nadu.


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

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

1. The PP shall submit a detailed letter obtained from the competent authority indicating the details of the existing pits, as the PP has been imposed a penalty for illegally mining operations.
2. The PP shall submit EC compliance report.


On the receipt of the same further deliberation will be done.

Agenda No: 364 - 08
(File No: 9634/2023)

Proposed Rough Stone and Gravel Quarry lease over an extent of 0.93.0 Ha S.F.No.247/2, Veppilai Village, Kadayampatti Taluk, Salem District by Thiru. U Selvi - For Environmental Clearance. (SIA/TN/MIN/40*9045/2022, dt: 03.12.2022)

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

1. The Project Proponent, Thiru. U Selvi has applied for Environmental Clearance for the proposed Rough Stone and Gravel Quarry lease over an extent of 0.93.0 Ha S.F.No.247/2, Veppilai Village, Kadayampatti Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of item 1(a) 'Mining of Minerals Project' of the Schedule to the EIA Notification, 2006.
3. The precise area communication/lease is issued for the period of 5 Years. The approved mining plan is for the period of five years & production should not exceed 53,530 m³ of Rough Stone & 12,510 m³ of Gravel and the annual peak production shall not exceed 11950m³ of Rough Stone (4th Year) & 4510m³ of Gravel (1st Year). The ultimate depth is 27m AGL.


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Based on the presentation and documents furnished by the project proponent, SEAC noted that (i) the proposed mine site is un-mined so far and (ii) Thoppaiyar Dam & Amman Eri are located nearer to the proposed mining site. Hence, the SEAC, after detailed deliberations, decided to make an on-spot inspection to assess the present status of highly sensitive environmental settings of the site and availability of haul road for the transportation through a sub-committee constituted for the purpose.

The SEAC will take further course of action based on the site inspection & report.

Agenda No: 364 - 09

(File No: 9622/2023)

Proposed Rough Stone and Gravel Quarry lease over an extent of 1.21,50Ha S.F.No.246/3, Veppilai Village, Kadayampatti Taluk, Salem, District by Thiru.S.Uthirasami - For Environmental Clearance. (SlA/TN/MIN/409129/2022, dt: 03.12.2022)

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

1. The Project Proponent, Thiru.S.Uthirasami has applied for Environmental Clearance for the proposed Rough Stone and Gravel Quarry lease over an extent of 1.21.50Ha S.F.No.246/3, Veppilai Village, Kadayampatti Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of item 1(a) 'Mining of Minerals Project' of the Schedule to the EIA Notification,2006.
3. The precise area communication/lease is issued for the period of 5Years. The approved mining plan is for the period of five years & production should not exceed 89,335m³ of Rough Stone & 18,852 m³ of Gravel and the annual peak production shall not exceed 18000 m³ of Rough Stone (4th Year) & 9312m³ of Gravel (1st Year). The ultimate depth is 42m BGL.

The salient features of the project are as follows:

Sl. No	Details of the Proposal	Data Furnished
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1	Name of the Owner/Firm	: Thiru.S.Uthirasami, S/o.Subramani, 5/56. O No.2/190 Kuttakkadu, Rc Chettipatti Post, Palpakki, Omalur Taluk, Salem- 636455
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone and Gravel
3	S.F No. Of the quarry site with area break- up	: 246/3
4	Village in which situated	: Veppilai
5	Taluk in which situated	: Kadayampatti
6	District in which situated	: Salem
7	Extent of quarry (In ha.)	: 1.21.50Ha
8	Latitude & Longitude of all corners of the quarry site	: 11°56'39.19"N to 11°56'44.32"N 78°07'33.79"E to 78°07'38.62"E
9	Topo Sheet No.	: 58 - 1/1
10	Type of mining	: Opencast Semi-Mechanized of Mining
11	Period of quarrying proposed	: 5 years
12	Production (Quantity in m ³)	: 89335m ³ of Rough Stone & 18852m ³ of Gravel
13	Depth of quarrying	: 42m BGL
14	Depth of water table	: 65m - 70m BGL
15	Man Power requirement per day:	: 18 Nos.
16	Source of Water Requirement	: water vendors and Existing Borewell
17	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt &Wet Drilling (in KLD)	: 1.81 KLD 0.81 KLD 0.5 KLD 0.5 KLD

18	Power requirement	:	TNEB
19	Whether any habitation within 300m distance	:	No
20	Precise area communication approved by the District Collector, Department of Geology and Mining with date	:	Rc.No.107/2021/Kanimam-A. dt: 14.10.2022
21	Mining Plan approved by Deputy Director, Department of Geology and Mining with date	:	Roc.No.107/2021/Mines-A, dt: 01.11.2022
22	Deputy Director, Department of Geology and Mining 500m cluster letter	:	Roc.No.107/2021/Mines-A, dt: 11.11.2022
23	VAO certificate regarding 300m radius cluster	:	Letter dt: 05.10.2022.
24	Project Cost (Including EMP cost)	:	Rs.111.225 Lakhs
25	EMP cost	:	Rs.65 Lakhs/ 5 Years
26	CER cost	:	Rs.5 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC noted that (i) the proposed mine site is un-mined so far and (ii) Thoppalyar Dam & Amman Eri are located nearer to the proposed mining site. Hence, SEAC, after detailed deliberations, decided to make an on-spot inspection to assess the present status of highly sensitive environmental settings of the site and availability of haul road for the transportation through a sub-committee constituted for the purpose.

The SEAC will take further course of action based on the site inspection & report.

Agenda No: 364 - 10

(File No: 9629/2023)

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

The proposal was placed for appraisal in this 364th SEAC meeting held on


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23.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

1. The Project Proponent, Tmt.V.Palaniammal has applied for Environmental Clearance for the proposed Rough Stone and Gravel Quarry lease over an extent of 1.17.5Ha S.F.No.116/2B1C, Machipalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of item I(a) "Mining of Minerals Project" of the Schedule to the EIA Notification,2006.
3. The precise area communication/lease is issued for the period of 5Years. The approved mining plan is for the period of five years & production should not exceed 58720m³ of Rough Stone and the annual peak production shall not exceed 12420 m³ of Rough Stone (2nd Year)). The ultimate depth is 30m BGL.
4. CCR from MoEF&CC, IRO (SEZ) Dt:13.01.2023.

The salient features of the project are as follows:

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	: Tmt.V.Palaniammal, W/o.S.A.Velusamy, Javarayan Thottam, Sugunapuram, Coimbatore District, Tamil Nadu-641008
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone and Gravel
3	S.F No. Of the quarry site with area break-up	: 116/2B1C
4	Village in which situated	: Machipalayam
5	Taluk in which situated	: Madukkarai
6	District in which situated	: Coimbatore
7	Extent of quarry (in ha.)	: 1.17.5Ha
8	Latitude & Longitude of all corners of the quarry site	: 10°51'41.75"N to 10°51'45.03"N 76°56'08.33"E to 76°56'14.93"E

9	Topo Sheet No.	:	5B - B/13
10	Type of mining		Opencast Mechanized of Mining
11	Period of quarrying proposed	:	5 years
12	Production (Quantity in m ³)	:	58720m ³ of Rough Stone
13	Depth of quarrying	:	30m BGL
14	Depth of water table	:	65m - 60m BGL
15	Man Power requirement per day:		14 Nos.
16	Source of Water Requirement		water vendors and Existing Borewell
17	Water requirement: 4. Drinking & domestic purposes (in KLD) 5. Dust suppression, Green Belt & Wet Drilling (In KLD)	:	1.6 KLD 1.0 KLD 0.2 KLD 0.4 KLD
18	Power requirement a. Domestic Purpose b. Industrial Purpose		TNEB 46976 Liters of HSD
19	Whether any habitation within 300m distance	:	No
20	Precise area communication approved by the, District Collector, Department of Geology and Mining with date	:	Rc.No.853/Kanlmam/2019, dt: 16.08.2022
21	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	:	Roc.No.853/Mines/2019, dt: 22.08.2022
22	Assistant Director, Department of Geology and Mining 500m cluster letter		Roc.No.853/Mines/2019, dt: 25.10.2022
23	VAO certificate regarding 300m radius cluster		Letter dt: 20.08.2022.
24	Project Cost (excluding EMP cost)	:	Rs.40.22 Lakh
25	EMP cost	:	Rs.89.31 Lakhs/ 5 Years
26	CER cost		Rs.5 Lakhs


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

Agenda No: 364 - 11

(File No: 9635/2023)

Proposed Rough Stone and Gravel Quarry lease over an extent of 0.63.50Ha S.F.No.248/1, 248/2, 248/3, Veppilai Village, Kadayampatti Taluk, Salem District by Tmt.U.Selvi - For Environmental Clearance. (SIA/TN/MIN/409029/2022, dt: 07.12.2022)

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

1. The Project Proponent, Tmt.U.Selvi has applied for Environmental Clearance for the proposed Rough Stone and Gravel Quarry lease over an extent of 0.63.50Ha S.F.No.248/1, 248/2, 248/3, Veppilai Village, Kadayampatti Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Category 'B2' of item I(a) 'Mining of Minerals Project' of the Schedule to the EIA Notification,2006.
3. The precise area communication/lease is issued for the period of 3 Years. The approved mining plan is for the period of 3 Years & production should not exceed 23805 m³ of Rough Stone & 5670 m³ of Gravel and the annual peak production shall not exceed 7965 m³ of Rough Stone & 5670 m³ of Gravel. The ultimate depth is 17m BGL.

The salient features of the project are as follows:


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Sl. No	Details of the Proposal	:	Data Furnished
1	Name of the Owner/Firm	:	Tmt.U.Selvi, W/o.Utthirasamy, 5/56, O No.2/190 Kuttakkadu, RC Chettipatti Post, Palpakki, Omalur Salem-636455
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Rough Stone and Gravel
3	S.F No. Of the quarry site with area break-up	:	248/1, 248/2, 248/3
4	Village in which situated	:	Veppilai
5	Taluk in which situated	:	Kadayampatti
6	District in which situated	:	Salem
7	Extent of quarry (in ha.)	:	0.63.050 Ha
8	Latitude & Longitude of all corners of the quarry site	:	11°56'32.42"N to 11°56'39.26"N 78°07'45.61"E to 78°07'49.21"E
9	Topo Sheet No.	:	5B - VI
10	Type of mining	:	Opencast Semi-Mechanized of Mining
11	Period of quarrying proposed	:	5 years
12	Production (Quantity in m ³)	:	23805m ³ of Rough Stone & 5670m ³ of Gravel
13	Depth of quarrying	:	17.0m BGL
14	Depth of water table	:	65m - 70m BGL
15	Man Power requirement per day:	:	18 Nos.
16	Source of Water Requirement	:	water vendors and Existing Borewell
17	Water requirement:	:	2.00 KLD
	1. Drinking & domestic purposes (in KLD)	:	1.00 KLD
	2. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	0.50 KLD 0.50 KLD


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18	Power requirement	TNEB
19	Whether any habitation within 300m distance	: No
20	Precise area communication approved by the, District Collector, Department of Geology and Mining with date	: Roc.No.136/2021/Kanimam-A, dt: 14.10.2022
21	Mining Plan approved by Deputy Director, Department of Geology and Mining with date	: Roc.No.136/2021/Mines-B, dt: 01.11.2022
22	Deputy Director, Department of Geology and Mining 500m cluster letter	Roc.No.136/2021/Mines-B, dt: 11.11.2022
23	VAO certificate regarding 300m radius cluster	Letter dt: 05.10.2022.
24	Project Cost	: Rs.46.23 Lakh
25	EMP cost	: Rs.24.89 Lakhs/3 Years
26	CER cost	Rs.5 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC noted that (i) the proposed mine site is un-mined so far and (ii) Thoppaiyar Dam & Amman Eri are located nearer to the proposed mine. Hence, SEAC, after detailed deliberations, decided to make an on-spot inspection to assess the present status of highly sensitive environmental settings of the site and availability of haul road for the transportation through a sub-committee constituted for the purpose.

The SEAC will take further course of action based on the site inspection & report.

Agenda No. 364 – 12

(File No: 9642/2023)

Proposed Gravel Quarry lease over an extent of 2.02.50Ha S.F.No.71/A, 71/B, 75/3A, 75/3B & 75/7, M. Sruppakulam Village, Kariyapatti Taluk, Virudhunagar District


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by Thiru.A.Rajesh - For Environmental Clearance. (SIA/TN/MIN/410722/2022, dt: 15.12.2022)

The proposal was placed for appraisal in this 364th SEAC meeting held on 23.03.2023. 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.A.Rajesh** has applied for Environmental Clearance for the Proposed Gravel Quarry lease over an extent of 2.02.50Ha S.F.No.71/1A, 71/1B, 75/3A, 75/3B & 75/7, M.Iluppaikulam Village, Kariyapatti Taluk, Virudhunagar District, Tamil Nadu
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is 3 Years. The mining plan is for the period of 3 Years & the production should not exceed 28963m³ of Gravel and the annual peak production shall not exceed 9869m³ of Gravel. The ultimate depth is restricted to 2m BGL only.

The salient features of the project are as follows:

Sl. No	Details of the Proposal	:	Data Furnished
1	Name of the Owner/Firm	:	Thiru.A.Rajesh, S/o.Athi, D.No.43/2, G.T.Road, Kamuthi Town & Taluk - 623603. Ramanathapuram District
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Gravel
3	S.F No. Of the quarry site with area break-up	:	71/1A, 71/1B, 75/3A, 75/3B & 75/7
4	Village in which situated	:	M.Iluppaikulam
5	Taluk in which situated	:	Kariyapatti


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6	District In which situated	: Vrudhunagar
7	Extent of quarry (In ha.)	: 2.02.50Ha
8	Latitude & Longtude of all corners of the quarry site	: 09°40'22.60"N to 09°40'32.70"N 78°12'21.70"E to 78°12'32.36"E
9	Topo Sheet No.	: 58 - K/2
10	Type of mining	: Opencast Semi-Mechanized of Mining
11	Period of quarrying proposed	: 3 years
12	Production (Quantity in m ³)	: 28 963m ³ of Gravel
13	Depth of quarrying	: 2.0m BGL
14	Depth of water table	: 40m BGL
15	Man Power requirement per day:	5 Nos.
16	Source of Water Requirement	: water vendors
17	Water requirement: 3. Drinking & domestic purposes (In KLD) 4. Dust suppression, Green Belt & Wet Drilling (in KLD)	: 4.0 KLD 0.5 KLD 1.5 KLD 1.5 KLD 0.5 KLD
18	Power requirement	: TNEB
19	Whether any habltation within 300m distance	: No
20	Precise area communication approved by the, District Collector, Department of Geology and Mining with date	: Rc.No.KV3/1119/2022. Kanimam-A, dt: 10.10.2022
21	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Roc.No.KV3/1119/2022, dt: 17.10.2022
22	Assistant Director, Department of Geology and Mining 500m cluster letter	: Roc.No.KV3/1119/2022, dt: 17.10.2022

23	VAO certificate regarding 300m radius cluster	Letter dt: 18.10.2022.
24	Project Cost (excluding EMP cost)	: Rs.21.53 Lakh
25	EMP cost	: Rs.15.74 Lakhs
26	CER cost	Rs.2.0 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the period of 3 Years & the ultimate depth of mining upto 2m BGL and the quantity of 28963m³ of Gravel and the annual peak production shall not exceed 9869m³ of Gravel subject to the standard conditions as per the **Annexure 1** of this minutes & normal conditions stipulated by MOEF &CC. In addition to the following specific conditions:

1. The proponent shall mandatorily appoint the statutory competent persons accordingly for the proposed quarry size to satisfy the provisions 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.


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5. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals.
6. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly.
7. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
8. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics.
9. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
10. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
11. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.

12. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
13. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
15. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
16. The Project Proponent shall comply with the provisions of the Mines 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.
17. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
18. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
19. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it


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will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.

20. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
21. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
22. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under.
23. 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.
24. 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.
25. 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.
26. As accepted by the Project proponent the CER cost is Rs. 2 lakhs and the amount shall be spent for the Govt. Primary School, Kariyapatti Village as committed, before obtaining CTO from TNPCB.


Agenda No: 364-13

(File No: 9630/2022)

Proposed Rough stone & Gravel lease over an extent of 1.23.0Ha at S.F.No. 1195/C (Part) In Thennil East Village, Pugalur Taluk, Karur District, Tamil Nadu by


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Thiru.S.Sivakumar -For Environmental Clearance (SIA/TN/MIN/407447/2022 dated: 03.12.2022).

The proposal was placed in this 364th meeting of SEAC held on 23.03.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.S.Sivakumar has applied for Environmental Clearance for the the Proposed Rough stone & Gravel lease over an extent of 1.23.0Ha at S.F.No. 1195/C (Part) 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.
3. It is a fresh quarry project.
4. The salient features of the proposed project as follows

Sl. No	Details of the Proposal	
1.	Name of the Owner/Firm	Thiru.S.Sivakumar. S/o.Shanmugam, Door No. 1/268, Malaikovil, Semmandampalayam, Thennilai East, Pugalur Taluk, Karur District – 639206.
2.	Type of quarrying	Rough Stone & Gravel Quarry
3.	S.F No. Of the quarry site with area break-up	1195/C (Part)
4.	Village in which situated	Thennilai East
5.	Taluk in which situated	Pugalur
6.	District in which situated	Karur
7.	Extent of quarry (in ha.)	1.23.0Ha
8.	Lease period	10 years
9.	Approved Mining Plan Period Validity	10 years
10.	Production and Development Plan	5 Years


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	prepared as a part of AMP	
11.	Type of mining	Opencast Mechanized method of mining
12.	Production (Quantity in m ³)	The total production volume should not exceed 1,30,146 m ³ of Rough Stone & 18,404 m ³ of Gravel during the first five years.
13.	Annual peak Production (Quantity in m ³)	The annual peak production is 36,970 m ³ of Rough Stone & 6,364 m ³ of Gravel.
14.	Ultimate pit depth	40 m
15.	Depth of water table	60m In Summer Season – 55m In Rainy Season
16.	Latitude & Longitude of all corners of the quarry site	10°57'48.47"N to 10°57'53.09"N 77° 51'16.25"E to 77°51'21.50"E
17.	Top Sheet No.	58-F/13
18.	Man Power requirement per day:	18 Nos.
19.	Precise area communication approved by the District Collector & Geology and Mining with date	NA.KA.No.116/Kanimam/2022, Dated:28.10.2022
20.	Mining Plan approved by Deputy Director & Geology and Mining with date	Roc. No. 116/mines/2022, Dated:15.11.2022
21.	Deputy Director & Geology and Mining, mines 500m cluster letter	Roc. No. 116/mines/2022, Dated:28.11.2022
22.	VAO certificate regarding 300m radius cluster	Letter dated: 30.11.2022 stating no approved habitation around 300m radius.
23.	Water requirement:	4.75 KLD
	6. Drinking Water (in KLD)	0.75 KLD
	7. Utilized Water (in KLD)	2.0 KLD
	8. Dust suppression(in KLD)	1.0 KLD
	9. Greenbelt (in KLD)	1.0 KLD
24.	Power requirement	TNEB
	c. Domestic Purpose	1,07,182Liters of HSD
25.	Project Cost	Rs. 56,09,220/-
26.	EMP cost	Capital cost: Rs.17,90,194/- Recurring cost: Rs.13,40,005/- Annum
27.	CER cost	Rs.10,00,000/- as accepted by the PP

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total


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excavation quantity exceed 1,30,146 m³ of Rough Stone & 18,404 m³ of Gravel with maintaining annual peak production capacity of 36,970 m³ of Rough Stone & 6,364 m³ of Gravel for an ultimate pit depth of 40 m. 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 mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall explore the possibility of carrying out the amalgamation with the adjacent quarry after obtaining the necessary permission from the competent authorities (DMS and DGM) immediately after the execution of the lease for ensuring the mineral conservation and maintaining the safety aspects.
4. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
5. The proponent shall construct 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/map showing the same before obtaining the CTO from TNPCB.
6. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).


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7. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
8. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, 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.
9. As a part of EC Compliance, the PP shall carry out the tree plantation (2000 nos) to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
10. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
11. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 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 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
12. Since few structures / farm houses are located at a distance of 300 m, the PP shall carry out the scientific studies to assess the impacts of blasting operation in the proposed quarry such as ground vibrations, noise and fly rock and to prepare a controlled blast design, by involving any of the reputed Research

- and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus within one year from the commencement of mining operations after obtaining prior permission from the Director of Mines Safety (DMS), Chennai Region. 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 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.
 14. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
 15. 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.
 16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
 17. The PP shall carry out the comprehensive hydrogeological studies within 2 years from the commencement of the quarrying operation to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.


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18. 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.
19. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
20. 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.
21. As accepted by the Project proponent the CER cost is Rs. 10 lakhs and the amount shall be spent for the Panchayat Union Primary School, Semmandampalayam Village and Government Higher Secondary School, Thennilai South Village as committed, before obtaining CTO from TNPCB.

Agenda No: 364-14

(File No: 9636/2022)

Proposed Rough stone & Gravel lease over an extent of 2.35.5Ha at S.F.No. 1212(P) & 1220/4 in Umarikottai Village, Thoothukudi Taluk, Thoothukudi District, Tamil Nadu by Thiru. V.Rengaraj -For Environmental Clearance (SIA/TN/MIN/409431/2022 dt 06.12.2022).


The proposal was placed in this 364th meeting of SEAC held on 23.03.2023. 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. V.Rengaraj has applied for Environmental Clearance for the the Proposed Rough stone & Gravel lease over an extent of 2.35.5Ha at S.F.No. 1212(P) & 1220/4 in Umarikottai Village, Thoothukudi Taluk, Thoothukudi District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.


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3. Wind Turbines are located 200m away from the project site.
4. The salient features of the proposed project as follows

Sl. No	Details of the Proposal	
	Name of the Owner/Firm	Thiru. V.Rengaraj. S/o. Veera Perumal. No. 4/225. Muthammal Colony, 1 st Street, Thoothukudi District - 628 002.
	Type of quarrying	Rough Stone & Gravel Quarry
	S.F No. Of the quarry site with area break-up	1212(P) & 1220/4
	Village in which situated	Umankottal
	Taluk in which situated	Thoothukudi
	District in which situated	Thoothukudi
	Extent of quarry (in ha.)	2.35.5Ha
1.	Approved Mining Plan Period Validity	10 years
	Production and Development Plan prepared as a part of AMP	5 Years
	Type of mining	Opencast Mechanized method of mining
	Production (Quantity in m ³)	The total production volume should not exceed 2,93,300m ³ of Rough Stone, 48,672 m ³ of Weathered Rock & 35,700 m ³ of Gravel.
2.	Annual peak Production (Quantity in m ³)	The annual peak production is 68,800 m ³ of Rough Stone, 19,584 m ³ of Weathered Rock & 15,096 m ³ of Gravel.
	Ultimate Depth of quarrying	40m BGL.
	Depth of water table	53m Summer Season-18m Rainy Season
	Latitude & Longitude of all	08°48'33.02"N to 08°48'37.62"N


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	corners of the quarry site	77° 59'28.04"E to 77°59'34.49"E
	Top Sheet No.	58-H/13
	Man Power requirement per day:	33 Nos.
	Precise area communication approved by the District Collector with date	NA.KA.No.G.M.1/402/2022. Dated:15.07.2022
	Mining Plan approved by Assistant Geologist . Assistant Director(i/c) & Geology and Mining with date	Roc. No. G.M.1/402/2022. Dated:31.10.2022
	Assistant Geologist . Assistant Director(i/c) & Geology and Mining, mines 500m cluster letter	Roc. No. G.M.1/402/2022, Dated:01.11.2022
	VAO certificate regarding 300m radius cluster	Letter dated: 07.09.2022 stating no approved habltation around 300m radius.
3.	Water requirement:	1.9 KLD
	10. Drinking Water (In KLD)	0.5 KLD
	11. Dust suppression(in KLD)	0.8 KLD
	12. Greenbelt (in KLD)	0.6 KLD
	Power requirement	TNEB
	d. Domestic Purpose	3.2L,640Liters of HSD
	Projed Cost	Rs. 70,82,000/-
	EMP cost	Capital cost: Rs.28,14,850/- Recurring cost: Rs.19,47,640/- Annum
	CER cost	Rs.5,00,000/- as accepted by the PP

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity exceed 2,93,300m³ of Rough Stone, 48,672 m³ of Weathered Rock & 35,700 m³ of Gravel with maintaining an ultimate depth of 40m BGL & annual peak production capacity of 68,800 m³ of Rough Stone, 19,584 m³ of Weathered Rock & 15,096 m³ of Gravel subject to the standard conditions as per the Annexure I of

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

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. Since the wind mills are located at a distance of 250-300 m range, the PP shall carry out the following mitigation measures without any deviation:
 - i) The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
 - ii) The PP shall appoint the statutory mine manager possessing the first/second class mine manager's certificate of competency and the blaster possessing not less than 5 years of experience before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
 - iii) The PP shall strictly follow the blast design parameters as mentioned in the approved mining plan and it shall be reviewed by carrying out the scientific studies after obtaining necessary permission from the Director of Mines Safety, Chennai Region, to assess the Impact of blasting operations on the Wind Turbines located within 300m radius from the project site, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus within a period of six months of commencement of quarrying operation. 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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- iv) The PP shall ensure that the blasting crew have undergone the training on handling of explosives & accessories and safe & controlled blasting practices as per the Mine Vocational Training Rules 1966 in the MVTC, Trichy (or) Pandalgudi before obtaining the CTO.
- v) The PP shall use small dia blastholes of 32-34 mm with low density slurry/emulsion explosives and ANFO as main explosive column during the blasting operation.
- vi) The PP shall implement 'NONEL' initiation system in all the blasts with in-hole delay and for surface hole-to-hole firing sequence.
- vii) The PP shall submit monthly report on blast design implemented for every blast and detailed explosive consumption & volume of rock excavation along with the report of recorded blast-induced ground at the wind mill structures to the statutory bodies viz the DGM, DMS/Chennai and the DEE/SPCB without any deviation.
- viii) No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
- ix) The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 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 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
- x) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.


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3. The proponent shall construct 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/map showing the same before obtaining the CTO from TNPCB.
4. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
5. The Project Proponent (PP) shall submit a 'slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
6. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, 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.
7. As a part of EC Compliance, the PP shall carry out the tree plantation (2000 nos) to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
8. 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.
9. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions


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- of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
10. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
 11. The PP shall carry out the comprehensive hydrogeological studies within 2 years from the commencement of the quarrying operation to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
 12. 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.
 13. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
 14. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-LA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
 15. As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the Panchayat Union Middle School, Melathattapara Village as committed, before obtaining CTO from TNPCB.

Agenda No: 364-15

(File No: 8423/2021)

Proposed Gravel quarry lease area over an extent of 1.56.5Ha at S.F.No 171/48, 172/483 at V.Parangni Village, Vanur Taluk, Villupuram District, Tamil Nadu by


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Thiru.M.Yashvanth-For Environmental Clearance.(SIA/TN/MIN/410141/2022, dated: 10.12.2022).

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

The SEAC noted the following:

1. The project proponent, Thiru.M.Yashvanth has applied for Environmental Clearance for the Gravel quarry lease over an extent of 1.56.5Ha at S.F.No 171/4B, 172/4B3 at V.Parangiri Village, Vanur Taluk, Villupuram 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.

SEAC noted that the same proposal was dealt with in application No. SIA/TN/MIN/202201/2021, dated: 06.03.2021 and was appraised (File No. 8423/2020) vide 228th SEAC meeting held on 24.8.2021 and subsequently in 260th SEAC Meeting held on 1.4.2022. Based on the presentation and documents furnished by the project proponent, SEAC noted that, from the report of soil classification, the percentage (%) of sand is 22.3 and considering the Judgment of 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, and the letter of the Director of Geology and Mining, Government of Tamil Nadu, in his letter No. 7240/MM6/2019 dated 30.07.2021, decided to not recommend the proposal for the grant of Environmental Clearance. Subsequently, this subject was placed in the 504th Authority meeting held on 06.05.2022. After detailed deliberation, the Authority decided to accept the decision of the 260th SEAC meeting held on 01.04.2022.

Based on the representation received from the PP to the O/o SEIAA, this subject was again placed before 286th SEAC Meeting held on 17.06.2022 and SEAC decided that it would not be appropriate to re-examine the proposal as it was not placed before the Authority. This decision was also placed before the 531st Authority meeting held on 12.07.2022 and the Authority decided to communicate the decision of the SEAC to the Project Proponent.

Now the PP has sought to revive the same proposal by filing a new


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application vide online application No. SIA/TN/MIN/410141/2022 as below.

Description	Old File	New File
File No	8423	9643
Online Proposal No for EC	SIA/TN/MIN/202201/2020 Dt. 06.03.2021	SIA/TN/MIN/410141/2022 Dated 10.12.2022.

SEAC, therefore, decided not to examine the proposal.

Agenda No: 364-16

File No: 9617/2022

Proposed Rough stone and Gravel quarry lease over an extent of 4.13.5 Ha in S.F.Nos. 147/4A, 147/4B (P), 148, 150/1, 150/4, 204/2, 204/6 & 204/7 of Akkinampattu Village, Cheyyur Taluk, Chengalpattu District, by M/s. Pallava Mines - For Environmental Clearance.


(SIA/TN/MIN/407479/2022 Dated: 22.11.2022)

The proposal was placed for appraisal in this 363rd meeting of SEAC held on 10.03.2023. 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. Pallava Mines has applied seeking Environmental Clearance for the proposed Rough stone and Gravel quarry lease over an extent of 4.13.5 Ha in S.F.Nos. 147/4A, 147/4B (P), 148, 150/1, 150/4, 204/2, 204/6 & 204/7 of Akkinampattu Village, Cheyyur Taluk, Chengalpattu District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended.

Sl. No.	Details of the Proposal	
1.	Name of the Owner / Firm	M/s. Pallava Mines, N/o. 5B, MK Complex, Narasankuppam Road, Anupuram, Kalpakkam, Chengalpattu District - 603 102
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough stone and Gravel


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3.	S.F No. of the quarry site	147/4A, 147/4B (P), 148, 150/1, 150/4, 204/2, 204/6 & 204/7
4.	Village	Akknampattu
5.	Taluk	Cheyyur
6.	District	Chengalpattu
7.	Extent of Quarry (in ha.)	4.13.5 Ha - Patta land
8.	Period of Quarrying proposed	10 Years
9.	Mining Plan Validity	10 years
10.	Type of Mining	Open cast mechanized method
11.	Production (Quantity in m ³)	As per the approved mining plan, Geological Resources: Rough Stone - 14,47,250m ³ , Weathered Rock 1,24,050 m ³ and Gravel 82,700m ³ The ultimate depth of mining is about 40m BGL 10-Year production: First 5 years: (Northern portion) Rough Stone - 3,00,745m ³ , Weathered Rock 92,055 m ³ and Gravel 65,558 m ³ The annual peak production as per mining plan is 79,160 m ³ of Rough Stone Second 5 years: (Southern portion) Rough Stone - 3,94,875m ³ The annual peak production as per mining plan is 81,705 m ³ of Rough Stone
12.	Ultimate Depth of Mining	40m BGL (Northern portion)
13.	Latitude & Longitude of all corners of the quarry site	12°25'05.80"N to 12°25'14.06"N 80°02'52.28"E to 80°02'59.45"E
14.	Topo sheet No.	66 - D/03
15.	Man power requirement	46 Nos
16.	Precise Area Communication	Rc.No. 4974/Mines/2022, Dated: 06.09.2022
17.	Mining plan approval letter	Rc.No. 4974/Mines/2022 Dated: 23.09.2022
18.	500m letter	Rc.No. 4974/Mines/2022 Dated: 23.09.2022


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19.	Water requirement: 1. Drinking & domestic purposed (in kLD) 2. Dust Suppression (in kLD) & Green Belt (in kLD)	3.2 kLD 0.7 kLD 2.5 kLD
20.	Power requirement: a. Domestic purpose b. Industrial Purpose	TNEB DG set
21.	Depth of Water table	70m -65m
22.	Whether any habitation within 300m distance	Nil
23.	Project cost	Rs. 1,25,13,000/-
24.	EMP cost	Capital cost: Rs. 34,96,450/- Recurring cost/Annum: Rs. 30,92,932/-
25.	CER cost	Rs. 5.0 lakh
26.	VAO letter dated	29.09.2022

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a production quantity of Rough Stone - 3,00,745m³ and Gravel 65,558 m³ in first 5 years (Northern portion) and Rough Stone - 3,94,875m³, in the second 5 years (Northern portion) to a depth of 40m BGL as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the 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 mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation

- as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
3. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.
 4. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in all the quarries of this cluster site collectively if amalgamation is done and when the depth of the working touches 30 m (or) during the 4th year whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IIT-Chennai, NIT-Dept of Mining Engineering, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories 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.
 5. Within six months of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the cluster mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', after obtaining necessary permission from the DGMs / Chennai Region, by involving a reputed Research and Academic Institution such as NIRM, IIT(ISM), IIT-Madras, Anna University Chennai-Dept of Mining Engg, NIT Surathkal, and any CSIR Laboratories 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.
 6. The Project Proponent shall not carry out the secondary rock breakage involving blasting operations and use only the non-explosive techniques such as rock breakers, etc.
 7. The Project Proponent shall prepare a SOP for the blasting operations such that it shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having


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posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.

- B. The Project Proponent 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.
9. The Project Proponent shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.
10. Since two water bodies are located at a distance of 700-800 m, the PP shall carry out the comprehensive hydrogeological studies within 2 years from the commencement of the quarrying operation to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SELAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
11. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
12. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
13. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
14. 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


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MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.

15. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
16. 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.
17. As accepted by the Project proponent the CER cost is **Rs. 5.0 lakh** and the amount shall be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.

Agenda No: 364-17

File No: 9624/2022

Proposed Red Earth & Pebbles quarry lease over an extent of 2.20.5 Ha in S.F.No.6/1 (P), Mathiyarur Village, Ulundurpet Taluk, Kallakurichi District, by Thiru R.Arun. - For Environmental Clearance.

(SIA/TN/MIN/408290/2022 Dated: 28.11.2022)

The proposal was placed for re-appraisal in this 364th meeting of SEAC held on 23.03.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

3. The project proponent, Thiru R.Arun has applied seeking Environmental Clearance for the Proposed Red Earth & Pebbles quarry lease over an extent of 2.20.5 Ha in S.F.No.6/1 (P), Mathiyarur Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu.
4. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended.

The SEAC further noted that, previously application for this project was filed seeking Terms of Reference vide online application no. SIA/TN/MIN/64477/2021/dated 06.07.2021 (File No: 8651/2021) and the proposal was appraised in the 261st meeting of SEAC held on 07.04.2022. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).


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The Committee examined the proposal submitted by the proponent in the light 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. In this Judgment, the Hon'ble High Court was examining the legality of mining permits or license given by the Government for removal of minor minerals in the name of "Savudu" and other Colloquial terminologies and issued the following directions.

- i. *There shall not be any grant of quarry lease without ascertaining the composition/component of the minerals and without obtaining the report from authorized lab. The Dept of Geology and Mining shall establish a lab on its own or shall authorize any lab in this regard.*
- ii. *There shall not be any quarry operation in the name of colloquial terms/local terms and any lease shall be in accordance with minerals notified under section 3 (e) of the MMDR Act.*
- iii. *A high-level committee has to be constituted, consisting of Geologists and Experts in the said field and eminent Officers from WRO, PWD to conduct a detailed study/survey on the possibility or the availability of the river sand on the adjacent patta lands to the rivers and those places, where sand is available, have to be notified and declared as protected zones and there cannot be any quarry operation other than by the Government, in those notified areas.*
- iv. *The department of Geology and Mining, shall furnish the details of all the Savudu quarries granted so far, in the state of Tamil Nadu, to this court, within a period of eight weeks from the date of receipt of a copy of this order.*
- v. *The details of all the savudu quarries shall also be furnished to the High Level Committee and High Level Committee shall inspect those quarries to ascertain the availability of sand in those quarries. In the event of High Level Committee ascertaining the availability of sand in these quarries, the same shall be reported to the Commissioner of Geology and Mining, marking a copy to this court and the Commissioner shall take necessary action as against the officials, who have granted quarry permits without ascertaining the composition of minerals.*
- vi. *Any quarry operations shall be permitted only by way of lease agreement, as per Article 299(1) of constitution of India.*
- vii. *The Government shall either adopt the Mineral Conservation Rules, 2017, framed by the Central Government or frame a separate Rule, as directed by the Hon'ble Supreme court in Deepak Kumar's case, within a period of six months from the date of receipt of a copy of this order.*
- viii. *Whenever, SEIAA clearance is required, it shall be done only physical inspection by deputing an officer attached to SEIAA and depending upon the report further*


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proceedings may take place in accordance with law and there must be a mechanism to ensure the conditions of SEIAA are strictly complied with.

Acting on the above Judgment, the Director of Geology and mining, Govt of Tamil Nadu, in his letter No. 7240/MM6/2019 Dt. 30.7.2021, has inter alia, issued the following directions:

- No quarry lease shall be granted in areas where the test results indicate the presence of sand in the composition.
- No quarry lease shall be granted in the patta lands adjoining to the rivers, streams, canals etc.,
- No permission shall be granted for quarrying Gravel, Earth, etc., in patta land for a period less than one year.
- Lease deed shall be executed in the Form set out in Appendix IV or Appendix V to the Tamil Nadu Minor Mineral Concession Rules 1959.

In the present case, the Committee, therefore directed the proponent to submit the following additional details for further processing of the proposal.

- The composition/component of the minerals proposed to be quarried shall be tested in any of the laboratories authorized by the Dept of Geology & Mining as directed in the above Judgment.
- The proponent should produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the above Judgment.

The project proponent submitted the details vide letter dated 30.05.2022. The proposal was placed in the 297th meeting of SEAC held on 21.07.2022. The project proponent made re-presentation along with details sought by SEAC. During the presentation the project proponent stated that he intends to withdraw the ToR application, since the application comes under B2 category. Therefore, SEAC decided to remit the proposal back to SEIAA.

Subsequently the subject was placed in the 542nd meeting of Authority held on 23.08.2022. The Authority noted that during the presentation the project proponent has stated that he intends to withdraw his present application, since the application comes under B2 category. Therefore, SEAC decided to remit the proposal back to SEIAA. In view of the above, the Authority decided to request the Member Secretary, SEIAA to communicate the minutes to the project proponent held on 14.07.2022.


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Now the project proponent has re-applied seeking Environmental Clearance for the project under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended furnishing the following details:

Sl. No.	Details of the Proposal	
1.	Name of the Owner / Firm	Thiru R.Arun, S/o. Rajendiran, No.54, Palakudipatti, Vallathirakottai, Kalangudi, Alangudi Taluk, Pudukkottai District – 622 303
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Red Earth & Pebbles
3.	S.F No. of the quarry site	6/1 (P)
4.	Village	Mathryanur
5.	Taluk	Ulundurpet
6.	District	Kallakurichi
7.	Extent of Quarry (in ha.)	2.20.5 Ha -Government land
8.	Period of Quarrying proposed	Two Years
9.	Type of Mining	Open cast mechanized method of mining
10.	Production (Quantity in m ³)	As per the approved mining plan, Geological Resources: Red Earth- 27,470 m ³ , Pebbles 27,470 m ³ to the ultimate depth of 2.5m BGL Year wise production: Red Earth- 20,844 m ³ and Pebbles 20,844m ³ The annual peak production shall not exceed 20,988 m ³ of Red Earth and 10,494m ³ of Pebbles
11.	Proposed Depth of Mining	2.5m BGL
12.	Latitude & Longitude of all corners of the quarry site	11°41'09.00"N to 11°41'15.25"N 79°19'44.99"E to 79°19'50.21"E
13.	Topo sheet No.	58-M/06
14.	Man power requirement	10 Nos
15.	Precise Area Communication	Rc.No.B/G&M/02/2021, Dated: 03.02.2021
16.	Mining plan approval letter	Rc.No. B/G&M/02/2021 Dated: 15.05.2021
17.	500m letter	Rc.No. B/G&M/02/2021 Dated: 07.10.2022


18.	Water requirement: 3. Drinking & domestic purposed (in kLD) 4. Dust Suppression (in kLD) & Green Belt (In kLD)	3.0 kLD 0.5 kLD 2.5 kLD
19.	Power requirement: c. Domestic purpose d. Industrial Purpose	TNEB DG set
20.	Depth of Water table	46m
21.	Whether any habitation within 300m distance	Yes, 108 m but the proposal does not involve drilling and blasting operations.
22.	Project cost	Rs. 59,61,000/-
23.	EMP cost	Capital cost: Rs.11,97,100/- Recurring cost/Annum: Rs.5.65,410/-
24.	CER cost	Rs. 2 lakh
25.	VAO letter dated	29.03.2023.

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of Red Earth- 20,844 m³, Pebbles - 20,644m³ to an ultimate depth of 2.5 m for a maximum period of 2 years and the annual peak production shall not exceed 20,988 m³ of Red Earth and 10,494m³of Pebbles as per the approved mining plan subject to the standard conditions & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952.
3. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training on 'Occupational health Hazards' under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy (or) Salem.


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4. The Project Proponent shall develop the Green belt activities (tree plantations) in the safety zone as stipulated in the Mining Plan around the periphery of the proposed quarry lease before obtaining the CTO from the TNPCB.
5. The Project Proponent shall not carry out the blasting operations in the proposed quarry.
6. The Project Proponent shall carry out the comprehensive tree plantation (two to three rows) along the boundary of the quarrying site considering the wind direction to act as a barrier to reduce noise level and dust pollution directing the surrounding farm lands before obtaining the CTO from the TNPCB.
7. The PP shall ensure that the transport vehicles used in the quarry are adequately covered with tarpaulin before it is allowed to enter into the adjacent village panchayat road.
8. Since the habitations are located at a distance of 150 to 300 m, the Project Proponent shall also install necessary dust and noise extraction system around the eastern side of the proposed quarry site using long wind sheets with proper enclosures before obtaining the CTO from TNPCB.
9. 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.
10. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
11. 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.
12. As accepted by the Project proponent the CER cost is Rs. 2.0 lakh and the amount shall be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.

Agenda No. 364 - 1B

(File No. 9618/2022)

Proposed Red Earth quarry over an extent of 2.03.0 Ha in S.F.No. 215/2B of Siraikulam Village, Kadaladi Taluk, Ramanathapuram District, Tamil Nadu by Thiru. N. Mohamed Yusuf for Environmental Clearance (SIA/TN/MIN/404532/2022 dated 17.11.2022)


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The proposal was placed in this 364th Meeting of SEAC held on 23.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.tn.in).

The SEAC noted the following:

1. The project proponent, Thiru.N. Mohamed Yusuf has applied for Environmental Clearance for the proposed Red Earth quarry over an extent of 2.03.0 Ha in S.F.No. 215/2B of Siraikulam Village, Kadaladi Taluk, Ramanathapuram District, Tamil Nadu
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is 1 year. The mining plan is for 1 year & production should not exceed 32,208cu.m. of Red Earth. The annual peak production 32,208cu.m. of Red Earth. The maximum depth of mining would be 2 metres below ground level.

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

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


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streams, canals etc., and also does not come under any notified/declared protected zones in terms of the Hon'ble Madurai Bench of Madras High Court. On receipt of the aforesaid details, the proposal will be considered for further deliberations.

Agenda No. 364 - 19

(File No. 9625/2022)

Proposed Rough Stone and Gravel quarry over an extent of 4.52.0 Ha in S.F.No. 531/18 (Part) of Ponmanai A Village, Thiruvattar Taluk, Kanniyakumari District, Tamil Nadu by Thiru. Alex Paul for Environmental Clearance. (SIA/TN/MIN/408810/2022, dated: 01.12.2022)

The proposal was placed in this 364th Meeting of SEAC held on 23.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


The SEAC noted the following:

1. The project proponent, Thiru. Alex Paul has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry over an extent of 4.52.0 Ha in S.F.No. 531/18 (Part) of Ponmanai A Village, Thiruvattar Taluk, Kanniyakumari District, Tamil Nadu
2. The project/activity is covered under Category 'B2' of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is 5 years. The mining plan is for 5 years & production should not exceed 4.43.015cu.m. of Rough Stone and 30.958cu.m of Gravel. The annual peak production 94,810cu.m. of Rough Stone & 14,118 cu.m of Gravel. The maximum depth of mining would be 116m (1m Gravel + 115m Rough stone [96m AGL + 20m BGL]).

Now, the proposal was placed in this 364th meeting of SEAC held on 23.03.2023. During the presentation, the SEAC had observed the following:

1. The proposed quarry site is located in an ecologically sensitive area of Western Ghats and is surrounded by thick vegetation.


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2. Further, the proposed mine lease area is in the top of a hill which appears to be a watershed which will in turn have implications on the contribution of surface runoff.
3. The proposed site is at a distance of approximately 2.75km from Kanniyakumari Wildlife Sanctuary.
4. There is a National Highway located at a distance of 443 m from the foothill of the proposed mine lease area which falls within 500 m danger zone as stipulated by the DGMS for the blasting operations and it could possibly pose a threat to the vehicles plying on the Highway.
5. The quarrying operation may cause depletion of fertile topsoil which will lead to environmental degradation to flora and fauna in and around the area.

Based on the documents and presentation made by the proponent, SEAC after detailed discussions decided not to recommend this project proposal considering all the above factors.

Agenda No. 364 - 2D

(File No. 963B/2022)

Proposed Rough Stone and Gravel quarry over an extent of 2.61.0 Ha in S.F.No. 277 (Part) of Chettikurichi Village, Kayathar Taluk, Thoothukudi District, Tamil Nadu by Thiru. S.K.P. Murugaen for Environmental Clearance. (SA/TN/MIN/407962/2022, dated: 25.11.2022)

The proposal was placed in this 364th Meeting of SEAC held on 23.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. S.K.P. Murugaen has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry over an extent of 2.61.0 Ha in S.F.No. 277 (Part) of Chettikurichi Village, Kayathar Taluk, Thoothukudi District, Tamil Nadu
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.


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3. As per mining plan, the lease period is 5 years. The mining plan is for 5 years & production should not exceed 3,69,880 cu.m. of Rough Stone and 1,27,008 cu.m of Gravel. The annual peak production 75,410cu.m. of Rough Stone & 49.896 cu.m of Gravel. The maximum depth of mining would be 41m.

The proposal is for mining of Rough stone & gravel Quarry the salient features of the proposal are as follows:

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru.S.K.P.Murugaen, S/o. Kandasamy No.134-J, Thomas Richard Line, Bangalow Street, Kadalafur Main Road. Kovilpatti Town & Taluk. Thoothukudi District-628 501.
2	Type of quarrying	Rough stone & gravel
3	S.F No. Of the quarry site with area break-up	277 (Part)
4	Village in which situated	Chettikurichi
5	Taluk in which situated	Kayathar
6	District in which situated	Thoothukudi
7	Extent of quarry (In ha.)	2.61.0 ha
8	Period of quarrying proposed	5 years
9	Type of mining	Opencast Semi-Mechanized Mining
10	Production (Quantity in m ³)	3,69,880m ³ of Rough stone and 1,27,008m ³ of Gravel
11	Latitude & Longitude of all corners of the quarry site	09°04'15.20"N to 09°04'21.46"N 77°43'51.55"E to 77°43'56.70"E
12	Topo Sheet No.	58 G/12
13	Man Power requirement per day:	14 Nos

14	Precise area communication approved by the District Collector with date	:	Na.Ka.G.M.1/310/2022, Dated: 13.09.2022
15	Mining Plan approved by the Assistant Geologist / Assistant Director (i/c), of Geology and Mining with date	:	Roc. No. G.M.1/310/2022, dated: 15.10.2022
16	Water requirement: 13. Drinking & domestic purposes 14. Dust suppression 15. Green Belt	:	4.0 KLD 1.0 KLD 1.5 KLD 1.5 KLD
17	Power requirement: a. Domestic Purpose	:	TNEB
18	Ultimate Depth of quarrying	:	41m
19	Depth of water table	:	85m
20	Project Cost (excluding EMP cost)	:	Rs. 94,88,975
21	EMP cost	:	Capital Cost Rs. 21.34 Lakh Recurring Cost - Rs. 21.38 Lakh
22	CER cost	:	Rs. 5,00,000
23	AD mines 500m cluster letter approved by Assistant Geologist / Assistant Director (i/c), with date	:	Roc. No. G.M.1/310/2022, dated: 15.10.2022
24	VAO certificate regarding 300m radius cluster	:	Letter dated: 10.10.2022

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 ultimate depth of mining up to 41m BGL and the production of 3,69,880 m³ of Rough stone and 1,27,008 m³ of Gravel. The annual peak production shall not exceed 75,410 m³ of Rough stone and 49,896 m³ of Gravel 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.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain 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.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
7. The PP shall carry out maximum of TWO rounds of controlled blast per day, restricted to the maximum of 50 to 60 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 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.

8. However, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – 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.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
10. 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.
11. 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.
12. 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.
13. The PP shall carry out the comprehensive hydrogeological studies within 2 years from the commencement of the quarrying operation to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology-CEG Campus, and University of Madras -Dept of Geology, Chennai


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- etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
14. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
 15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
 16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
 17. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
 18. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Primary School, Manjanambiknaru Village, as committed, before obtaining CTO from TNPCB.

Agenda No: 364-21

(FileNo.6688/2022)

Existing Limestone Quarry over an extent of 7.330 Ha at S.F.No. 382/1 & 3, 387/1 & 3, 512/1 & 3 in Ramayanpatti Village, Marur Taluk, Tirunelveli District, Tamil Nadu by M/s. India Cements Limited - For Environmental Clearance under "Violation Category" SIA/TN/MIN/411784/2022, Dated: 23.12.2022

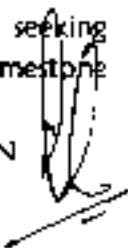
The proposal was placed earlier in the 349th meeting of SEAC held on 20.01.2023 and the proponent made presentation on the project. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. India Cements Limited, has applied seeking Environmental Clearance under Violation category for the Existing Limestone


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Quarry over an extent of 7.330 Ha by M/s. India Cements Limited at S.F.No. 382/1 & 3, 387/1 & 3, 512/1 & 3 in Ramayanpatti Village, Manur Taluk, Tirunelveli District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B" – "Under Violation" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. ToR Lt No.SEIAA-TN/F.No.6688/Violation/TOR- 674/2019 Dated: 19.12.2019.

Based on the presentation made by the proponent, SEAC decided that a sub-committee will be formed to carry out on the spot inspection of the project site to assess the anticipated impacts of mining activity on the surrounding environmental settings and to submit report. The sub-committee visited the project site on 28.01.2023 and submitted the report in the 351st meeting of SEAC held on 03.02.2023. After detailed deliberation, the SEAC accepted the recommendation of the Sub-committee and decided to recommend the proposal for grant of Environment Clearance for the total RoM production of 19,39,945 tonne which includes 12,59,363 tonne of usable limestone and 6,80,582 tonnes of interstitial waste with an ultimate depth of not exceeding 6B m below ground level and the annual peak production of 2,51,995 tonne of limestone subject to the conditions stated therein.

Subsequently the subject was placed in the 592nd meeting of the Authority held on 16.02.2023. The Authority noted that the proposal was placed in the 351st Meeting of SEAC held on 03.02.2023 and the SEAC has recommended the proposal to SEIAA for grant EC subject to the subject to certain conditions in addition to the following special conditions:

- a) The amount prescribed for **Ecological remediation (Rs. 2.00 Lakh)**, **natural resource augmentation (Rs. 2.50 Lakh)** & **community resource augmentation (Rs. 3.00 Lakh)**, totaling **Rs. 7.50 Lakh**. Hence the SEAC decided to direct the project proponent to remit the amount of **Rs. 7.50 Lakh** in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
- b) The amount committed by the Project proponent for **CER (Rs. 2.00 Lakh)** shall be remitted in the form of DD to the beneficiary for the activities as committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.


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- c) The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac. 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018 before placing the subject to SEIAA.
- d) As committed by the Proponent, an additional CER amount of Rs.5.0 Lakh is earmarked towards carrying out the desired Mitigation activities in line with Conservation Plan demarcated for the Gangaikondan Spotted Deer Sanctuary and will be spent within one year from the commencement of mining operations in consultation with DFO, District Forest Department, Tirunelveli.
- e) The project proponent shall furnish the reason for the delay in developing the green belt and action now being taken to complete the targets.
- f) The project proponent shall furnish details on the study made on hydrogeological connectivity.
- g) The project proponent shall furnish details on study on LULC and NDVA Analysis report.
- h) Out of the 7.33.0ha, how much has been already restored under progressive mine closure plan?
 - i) The project proponent shall furnish detailed action plan on mine closure.
 - j) The project proponent shall furnish details on the agricultural productivity in the last 10 years in the surrounding areas.
 - k) Map of the mined area, if available shall be furnished.

On receipt of the above details, the Member Secretary is requested to place the proposal before the Committee for further course of action.

The file was taken up for discussion in this 364th meeting of SEAC held on 23.03.2023 and the project proponent furnished the following replies for the queries raised by SEIAA in the 592nd meeting of the Authority held on 16.02.2023.

S.No	Query	Reply
1	The amount prescribed for Ecological remediation, natural resource augmentation & community resource augmentation plan. Hence the SEAC decided to direct the project proponent to remit the amount in the form of bank guarantee to TNPCB and submit the acknowledgement of the	Bank Guarantee obtained for Rs.7.50 Lakhs from ICICI bank vide No. 0009NDLG00149223 dated 10.03.2023 and submitted the same to TNPCB


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	same to SEIAA-TN. The funds shall be utilized for the remediation plan. Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report							
2	The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.	The activities will be completed within one year as directed						
3	The amount committed by the Project proponent for CER shall be remitted in the form of DD to the beneficiary for the activities as committed by the Proponent. A Copy of receipt from the beneficiary shall be submitted to SEIAA-TN.	<table border="1"> <tr> <td>Rs.0.10 Lakhs</td> <td>Panchayat Union Middle School, Thalaisyuthu</td> </tr> <tr> <td>Rs.1.90 Lakhs</td> <td>Boys urinal construction, girls urinal building repair and construction of damaged part of compound wall in Panchayat Union Primary School, Pandarakulam</td> </tr> <tr> <td>2.00 Lakhs</td> <td>Total</td> </tr> </table>	Rs.0.10 Lakhs	Panchayat Union Middle School, Thalaisyuthu	Rs.1.90 Lakhs	Boys urinal construction, girls urinal building repair and construction of damaged part of compound wall in Panchayat Union Primary School, Pandarakulam	2.00 Lakhs	Total
Rs.0.10 Lakhs	Panchayat Union Middle School, Thalaisyuthu							
Rs.1.90 Lakhs	Boys urinal construction, girls urinal building repair and construction of damaged part of compound wall in Panchayat Union Primary School, Pandarakulam							
2.00 Lakhs	Total							
4	The project proponent shall submit the proof for the action taken by the state government / TNPCB against project proponent under the provisions of section 19 of the Environmental (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.	TNPCB Initiated credible action by way of filing a complaint vide CC No. 281 of 2014 under section 200 of Cr.P.C. for Offence U/s 15 r/w 16 & 19 (a) of the Environment (Protection) Act 1986 before the Hon'ble Judicial Magistrate-V Court, Tirunelveli. Vide letter dated 10.09.2014 and the same is submitted to SEIAA						
5	The company shall produce the 'No Dues Certificate' obtained from State Government i.e. Department	No Objection Certificate has been obtained from the Commissioner of Geology & Mining						


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	of Geology & Mining to the SEIAA before grant of EC.	vide letter Rc.No.7120/MM5/2018 dated 21.12.2022 and submitted to SEIAA
6	As committed by the Proponent, an additional CER amount of Rs. 5.0 Lakhs is earmarked towards carrying out the desired mitigation activities in line with Conservation Plan demarcated for Gangaikondan Spotted Deer Sanctuary and will be spent within one year from the commencement of mining operations in consultation with DFO, District Forest Department, Tirunelveli.	The activities will be completed within one year as directed.
7	The project proponent shall furnish the reason for the delay in developing the green belt and action now being taken to complete the targets.	So far 8480 Trees are planted over an area of 10.205Ha in the Nanjankulam Workings (GO 813,526,133) and Sethurayanpudut workings (GO 762,204) Further, It is proposed to plant 250 trees over an area of 0.25Ha during the plan period of 5 years
8	The project proponent shall furnish details on the study made on hydrogeological connectivity	<ul style="list-style-type: none"> • Hydrogeological study was conducted by University of Madras based on the ToR which stipulates conducting hydrogeological study. VES carried out and pumping test conducted in existing dug well. • Groundwater flow is free and received from the weathered and fractured zones at the highly elevation. • Infiltration or penetration or seepage to deeper of groundwater compact zones is completely absent.
9	The project proponent shall furnish details as on LULC and NDVA Analysis report.	<ul style="list-style-type: none"> • LULC and NDVI analysis of the 2Km Buffer zone for the years 2000 and 2021 are analysed. • No major adverse impact on the land use during violation period is observed.


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		<ul style="list-style-type: none"> The NDVI analysis shows that in the 2Km buffer zone, there seems to be an improvement with regards to vegetation as the values show an increase of the NDVI Index indicating the positive change with regards to vegetation cover.
10	Out of the lease area, how much has been already restored under progressive mine closure plan?	<ul style="list-style-type: none"> During the plan period, an area of 0.25Ha will be greenbelt area and it will be developed with plantation. Ultimately an area of 3.633Ha will be covered with plantation. Towards plantation of 250 trees inside the lease area and 1040 trees outside the lease area, Rs.2.06 Lakhs is allocated under capital cost and Rs. 0.80 Lakhs/annum is allocated under recurring cost of EMP. Towards progressive mine closure for the present plan period the lessee has already submitted the financial assurance for Rs.40,00,000/- in the form of Bank guarantee to IBM regional office, Chennai for G.O.526 of Nanjankulam Regrouped Limestone Mine.
11	The project proponent shall furnish detailed action plan on mine closure.	Various mine closure activities like fencing, greenbelt, surface runoff management structures development are already covered in the progressive mine closure plan being implemented in this mine. Final mine closure plan will be prepared and submitted during the conceptual period as per the guidelines of IBM and after their approval will be implemented.
12	Map of the mined area, if available shall be furnished.	Surface map of the lease area is provided.
13	The project proponent shall furnish details on the agricultural productivity in the last 10 years in the surrounding area.	Letter has been obtained from the Joint Director of Agriculture, Tirunelveli vide Lr.No.A1/2939/2022 dated 09.03.2023 regarding the past 10 years area coverage and productivity of agricultural crops in Nanjankulam, Tenkulam, Sethurayanpudur,


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		<p>Madavakurichi villages of Manur Taluk, Tirunelveli District.</p> <ul style="list-style-type: none"> • From the above, it is observed that in the last decade there is not much variation in the area coverage and productivity. Similarly, the revenue records of land use of these villages shows that the irrigated area is only 6.6%. • The agricultural practice in and around the mining lease area is very less due to rocky terrain, merge rainfall this type soils cover not supporting for any major cultivation. Most of lands in that are classified as dry lands. The vegetations are mainly of xerophytes like cactus, prosopis juliflora and no other trees are to be worth mentioning grown in this area. Paddy cultivation is practiced in few parts along southern buffer boundary of the area from the available water in open and bore wells.
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Based on the presentation made and replies furnished by the proponent, SEAC decided to reiterate its recommendation already made in its 351st SEAC meeting held on 03.02.2023. All conditions stipulated will remain unchanged.

Agenda No: 364 - 22


(File No.6689/2022)

Existing Limestone Quarry over an extent of 28.430 Ha. S.F.No.380, 381, 383-386, 388/1 & 3, 389-392, 510, 511, 513 & 514 in Ramayanpatti Village, Manur Taluk, Tirunelveli District, Tamil Nadu by M/s. The India Cements Limited - For Environmental Clearance.(SIA/TN/MIN/411329/2022 dated: 20.12.2022)

The proposal was placed in this 351st Meeting of SEAC held on 03.02.2023. 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, M/s. The India Cements Limited has applied for Environmental Clearance for the Existing Limestone Quarry over an extent of


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28.430 Ha. S.F.No.380, 381, 383-386, 388/1 & 3, 389-392, 510, 511, 513 & 514 in Ramayanpatti Village, Manur Taluk, Tirunelveli District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B" – "Under Violation" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. ToR under violation exempted from public hearing was issued vide SEIAA Lr. No. SEIAA-TN/F.No.6689/SEAC/ TOR- 675/2019 Dated: 19.12.2019.
4. EIA report submitted on 02.01.2023.
5. Earlier the proposal was placed in 347th SEAC meeting held on 13.01.2023. During the meeting, the Proponent informed that he has already submitted the final EIA Report at the office of SEIAA in the month of January. Hence, the Committee after detailed discussion decided to consider the proposal in the ensuing meeting.
6. Earlier the proposal was placed in 351st SEAC meeting held on 03.02.2023. Based on the presentation and details furnished by the project proponent, the SEAC decided constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation.

Based on the above, The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Lr No. SEAC-TN/MIN/6688, 6689 & 6690/2022, dated, 27.01.2023, to inspect and study the field condition for the proposal seeking EC for Mining of Limestone in an extent of 28.430 Ha in SF No. Lr No. SEAC-TN/MIN/6688, 6689 & 6690/2022, dated, 27.01.2023 at Ramayanpatti Village, Manur Taluk, Tirunelveli District. The Committee comprises of Dr. G. ANNE JOSEPHINE SELVAM, Member SEAC – TN & Dr. P. BALAMADESWARAN, Member SEAC – TN.

After detailed deliberation, the SEAC accepted the recommendation of the Sub-committee and decided to recommend the proposal for grant of Environment Clearance for the total ROM production of 19,39,945 tonnes which includes 12,59,363 tonnes of Usable Limestone and 6,80,582 tonnes of Interstitial waste


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with an ultimate depth of mining 68 m below ground level and the annual peak production of 2,51,995 tonnes of Limestone.

7. Subsequently, the proposal was placed in 596th SEIAA meeting held on 22.02.2023 & 23.02.2023.

After detailed discussion, the Authority decided to request the Member Secretary, SEIAA to inform the proponent to furnish the following particulars as recommended by SEAC in the Minutes of 35th SEAC Meeting held on 03.02.2023.

1. The amount prescribed for Ecological remediation (Rs. 7.69 Lakhs), natural resource augmentation (Rs. 9.23 lakhs) & community resource augmentation (Rs. 12.30 Lakhs), totaling Rs. 29.22 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 29.22 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
2. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
3. The amount committed by the Project proponent for CER (Rs. 8.00 lakhs) shall be remitted in the form of DD to the beneficiary for the activities as committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.
4. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
5. The company shall produce the "No Dues Certificate" obtained from the State Government i.e. Department of Geology & Mining to the SEIAA before grant of EC.
6. The project proponent shall furnish the reason for the delay in developing the green belt and action now being taken to complete the targets.
7. The project proponent shall furnish details on the study made on hydrogeological connectivity.
8. The project proponent shall furnish details on study on LULC and NDVA Analysis report.
9. Out of the 29.43.0ha, how much has been already restored under progressive mine closure plan?
10. The project proponent shall furnish detailed action plan on mine closure.
11. The project proponent shall furnish details on the agricultural productivity in the last 10 years in the surrounding area.
12. Map of the mined area, if available shall be furnished.

On receipt of the above details, the Member Secretary is requested to place the proposal before the Committee for further course of action.

Sl No	Query	Reply	
1	The amount prescribed for Ecological remediation, natural resource augmentation & community resource augmentation plan. Hence the SEAC decided to direct the project proponent to remit the amount in the form of bank guarantee to TNPCB and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.	Bank Guarantee obtained for Rs.29.22 Lakhs from ICICI bank vide No. 0009NDLG00149123 dated 10.03.2023 and submitted the same to TNPCB.	
2	The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.	The activities will be completed within one year as directed.	
3	The amount committed by the Project proponent for CER shall be	Rs.0.8 Lakhs	Panchayat Union Primary School, Sethurayanpudur

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	remitted in the form of DD to the beneficiary for the activities as committed by the Proponent. A Copy of receipt from the beneficiary shall be submitted to SEIAA-TN.	Rs.1.5 Lakhs	Construction of separate urinals for boys and girls in Panchayat Union Primary School, Madhavakkurichi
		Rs.2.20 Lakhs	Toilet renovation with painting in Dr. Ambedkar Govt. Adl Dravidar Welfare Higher Secondary School Nammalapuram
		Rs.3.50 Lakhs	Construction of additional toilet in Govt. Adl Dravidar Welfare Higher Secondary School, Thulukkapatti
		8.00 Lakhs	Total
4	The project proponent shall submit the proof for the action taken by the state government / TNPCB against project proponent under the provisions of section 19 of the Environmental (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.	TNPCB initiated credible action by way of filing a complaint vide CC No. 282 of 2014 under section 200 of Cr.P.C. for Offence U/s 15 r/w 16 & 19 (a) of the Environment (Protection) Act 1986 before the Hon'ble Judicial Magistrate-V Court, Tirunelveli. Vide letter dated 10.09.2014 and the same is submitted to SEIAA.	
5	The company shall produce the 'No Dues Certificate' obtained from State Government i.e; Department of Geology & Mining to the SEIAA	No Objection Certificate has been obtained from the Commissioner of Geology & Mining vide letter Rc.No.7121/MM5/2018 dated	

	before grant of EC.	16.12.2022 and submitted to SEIAA
6	As committed by the Proponent, an additional CER amount of Rs. 5.0 Lakhs is earmarked towards carrying out the desired mitigation activities in line with Conservation Plan demarcated for Gangalkondan Spotted Deer Sanctuary and will be spent within one year from the commencement of mining operations in consultation with DFO, District Forest Department, Tirunelveli.	The activities will be completed within one year as directed.
7	The project proponent shall furnish the reason for the delay in developing the green belt and action now being taken to complete the targets.	So far 8480 Trees are planted over an area of 10.205Ha in the Nanjankulam Workings (GO 813,526,133) and Sethurayanpudur workings (GO 762,204) Further, it is proposed to plant 2500 trees over an area of 2.5Ha during the plan period of 5 years.
8	The project proponent shall furnish details on the study made on hydrogeological connectivity.	<ul style="list-style-type: none"> • Hydrogeological study was conducted by University of Madras based on the ToR which stipulates conducting hydrogeological study. • VES carried out and pumping test conducted in existing dug well. • Groundwater flow is free and received from the weathered and fractured zones at the highly elevation.


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		<ul style="list-style-type: none"> • Infiltration or penetration or seepage to deeper of groundwater compact zones is completely absent.
9	The project proponent shall furnish details as on LULC and NDVA Analysis report.	<ul style="list-style-type: none"> • LULC and NDVI analysis of the 2Km Buffer zone for the years 2000 and 2021 are analysed. • No major adverse impact on the land use during violation period is observed. • The NDVI analysis shows that in the 2Km buffer zone, there seems to be an improvement with regards to vegetation as the values show an increase of the NDVI Index indicating the positive change with regards to vegetation cover.
10	Out of the lease area, how much has been already restored under progressive mine closure plan?	<ul style="list-style-type: none"> • Presently, greenbelt is developed over 0.115Ha. • During the plan period, an area of 2.615Ha will be greenbelt area. Ultimately an area of 11.398Ha will be covered with plantation. • Towards plantation of 2500 trees inside the lease area and 4160 trees outside the lease area. Rs.10.66 Lakhs is allocated under capital cost and Rs. 3.0 Lakhs/annum is allocated under

		<p>recurring cost of EMP.</p> <ul style="list-style-type: none"> Towards progressive mine closure for the present plan period the lessee has already submitted the financial assurance for Rs.1.45,00,000/- in the form of Bank guarantee to IBM regional office, Chennai for G.O.813 of Nanjankulam Regrouped Limestone Mine.
11	The project proponent shall furnish detailed action plan on mine closure.	Various mine closure activities like fencing, greenbelt, surface runoff management structures development are already covered in the progressive mine closure plan being implemented in this mine. Final mine closure plan will be prepared and submitted during the conceptual period as per the guidelines of IBM and after their approval will be implemented.
12	Map of the mined area, if available shall be furnished.	Surface map of the lease area is provided.
13	The project proponent shall furnish details on the agricultural productivity in the last 10 years in the surrounding area.	<ul style="list-style-type: none"> Letter has been obtained from the Joint Director of Agriculture, Tirunelveli vide Lr.No.A1/2939/2022 dated 09.03.2023 regarding the past 10 years area coverage and productivity of agricultural crops in Nanjankulam, Tenkulam, Sethurayanpudur,



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		<p>Madavakurichi villages of Manur Taluk, Tirunelveli District.</p> <ul style="list-style-type: none"> • From the above, it is observed that in the last decade there is not much variation in the area coverage and productivity. Similarly the revenue records of land use of these villages shows that the irrigated area is only 6.6%. • The agricultural practice in and around the mining lease area is very less due to rocky terrain, merge rainfall this type soils cover not supporting for any major cultivation. Most of lands in that are classified as dry lands. The vegetations are mainly of xerophytes like cactus, prosopis juliflora and no other trees are to be worth mentioning grown in this area. Paddy cultivation is practiced in few parts along southern buffer boundary of the area from the available water in open and bore wells.
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Based on the presentation made and replies furnished by the proponent, SEAC decided to reiterate its recommendation already made in its 351st SEAC meeting held on 03.02.2023. All conditions stipulated will also remain unchanged.

Agenda No. 364-23

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(File No.6690/2022)

Existing Limestone quarry over an extent of 29.895 Ha at S.F.No.110, 172/1 & 174 of Sethurayanpudur Village, Manur Taluk, Tirunelveli District, Tamil Nadu by M/s. The India Cements Limited – For Environmental Clearance. (SIA/TN/MIN/412829/2023 dated: 02.01.2023)

The proposal was placed in this 364th Meeting of SEAC held on 23.03.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, **M/s. The India Cements Limited** has applied for Environmental Clearance for the Existing Limestone quarry over an extent of 29.895 Ha at S.F.No.110, 172/1 & 174 of Sethurayanpudur Village, Manur Taluk, Tirunelveli District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B" – "Under Violation" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. ToR under violation **exempting public hearing** was issued vide SEIAA Lr. No.SEIAA-TN/F.No.6690/Violation/ToR-676/2019, dated: 19.12.2019.
4. EIA report submitted on 02.01.2023.
5. Earlier the proposal was placed in 347th SEAC meeting held on 13.01.2023. During the meeting, the Proponent informed that he has already submitted the final EIA Report at the office of SEIAA in the month of January. Hence, the Committee after detailed discussion decided to consider the proposal in the ensuing meeting.
6. Earlier the proposal was placed in 351st SEAC meeting held on 03.02.2023. Based on the presentation and details furnished by the project proponent, the SEAC decided constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation.

Based on the above, The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Lr No. SEAC-TN/MIN/6688, 6689 & 6690/2022, dated. 27.01.2023, to inspect and study the field condition for the


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proposal seeking EC for Mining of Limestone in an extent of 28.430 Ha In SF No. Lr No. SEAC-TN/MIN/6688, 6689 & 6690/2022, dated. 27.01.2023 at Ramayanpatti Village, Manur Taluk, Tirunelveli District. The Committee comprises of Dr. G. ANNE JOSEPHINE SELVAM, Member SEAC – TN & Dr. P. BALAMADESWARAN, Member SEAC – TN.

7. After detailed deliberation, the SEAC accepted the recommendation of the Sub-committee and decided to recommend the proposal for grant of Environment Clearance for the total ROM production of 24,99,720 tonnes which includes 19,99,776 tonnes of Usable Limestone and 4,99,944 tonnes of Interstitial waste with an ultimate depth of mining 58 m below ground level and the annual peak production of 3,99,981 tonnes of Limestone
8. Subsequently, the proposal was placed in 596th SEIAA meeting held on 22.02.2023 & 23.02.2023.

After detailed discussion, the Authority decided to request the Member Secretary, SEIAA to inform the proponent to furnish the following particulars as recommended by SEAC in the Minutes of 351st SEAC Meeting held on 03.02.2023.

1. Accordingly, the amount prescribed for Ecological remediation (Rs. 9.43 Lakhs), natural resource augmentation (Rs. 11.20 lakhs) & community resource augmentation (Rs. 14.75 Lakhs), totaling Rs. 35.38 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 35.38 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan. Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EEMP report.
2. The amount committed by the Project proponent for CER (Rs. 8.00 lakhs) shall be remitted in the form of DD to the beneficiary for the activities as committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.


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3. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
4. The project proponent shall furnish the reason for the delay in developing the green belt and action now being taken to complete the targets.
5. The project proponent shall furnish details on the study made on hydrogeological connectivity.
6. The project proponent shall furnish details on study on LULC and NDVA Analysis report.
7. Out of the 29.895ha, how much has been already restored under progressive mine closure plan?
8. The project proponent shall furnish detailed action plan on mine closure.
9. The project proponent shall furnish details on the agricultural productivity in the last 10 years in the surrounding area.
10. Map of the mined area, if available shall be furnished.

On receipt of the above details, the proposal is placed in this 364th meeting of authority held on 23.03.2023. The proponent gave detailed reply as follows:

S.No	Query	Reply Furnished
1	The amount prescribed for Ecological remediation, natural resource augmentation & community resource augmentation plan. Hence the SEAC decided to direct the project proponent to remit the amount in the form of bank guarantee to TNPCB and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan. Natural	Bank Guarantee obtained for Rs.35.38 Lakhs from ICICI bank vide No. 0009NDLG00149023 dated 10.03.2023 and submitted the same to TNPCB.


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	resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.	
2	The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCCB without further notice.	The activities will be completed within one year as directed.
3	The amount committed by the Project proponent for CER shall be remitted in the form of DD to the beneficiary for the activities as committed by the Proponent. A Copy of receipt from the beneficiary shall be submitted to SEIAA-TN.	Rs.0.90 Lakhs Procurement and installation of RO water treatment plant (100LPH) for Dr.Ambedkar Govt Adi Dravidar Welfare Higher Secondary School (Boys), Nallamalpuram
		Rs.0.90 Lakhs Procurement and installation of RO water treatment plant (100 LPH) for Dr. Ambedkar Govt Adi Dravidar Welfare Higher Secondary School (Girls), Nallamalpuram
		Rs.1.20 Lakhs Construction of separate toilet for girls in Panchayat Union Primary School, Vadakku Thalaiyuthu

		Rs.1.50 Lakhs	Boys and Girls Urinals with provision of GI roofing sheet and provision of soak pit in Panchayat Union Middle School, Thalairyuthu
		Rs.3.50 Lakhs	Construction of additional toilet in Dr.Ambedkar Govt Adi Dravidar Welfare Higher Secondary School (Boys), Nallamalpuram
		Rs.8.0 Lakhs	Total
4	The project proponent shall submit the proof for the action taken by the state government / TNPCB against project proponent under the provisions of section 19 of the Environmental (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.	TNPCB initiated credible action by way of filing a complaint vide CC No. 277 of 2014 under section 200 of Cr.P.C. for Offence U/s 15 r/w 16 & 19 (a) of the Environment (Protection) Act 1986 before the Hon'ble Judicial Magistrate-V Court, Tirunelveli. Vide letter dated 13.09.2014 and the same is submitted to SEIAA	
5	The company shall produce the 'No Dues Certificate' obtained from State Government i.e; Department of Geology & Mining to the SEIAA before grant of EC.	No Objection Certificate has been obtained from the Commissioner of Geology & Mining vide letter Rc.No.7122/MM5/2018 dated 16.12.2022. and submitted to SEIAA	
6	As committed by the Proponent, an additional CER amount of Rs. 5.0	The activities will be completed within one year as directed.	

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	Lakhs is earmarked towards carrying out the desired mitigation activities in line with Conservation Plan demarcated for Gangaikondan Spotted Deer Sanctuary and will be spent within one year from the commencement of mining operations in consultation with DFO, District Forest Department, Tirunelveli.	
7	The project proponent shall furnish the reason for the delay in developing the green belt and action now being taken to complete the targets.	So far 8480 Trees are planted over an area of 10.205Ha in the Nanjankulam Workings (GO 813,526,133) and Sethurayanpudur workings (GO 762,204) Further, it is proposed to plant 1000 trees over an area of 1.00Ha during the plan period of 5 years.
8	The project proponent shall furnish details on the study made on hydrogeological connectivity.	<ul style="list-style-type: none"> • Hydrogeological study was conducted by University of Madras based on the ToR which stipulates conducting hydrogeological study. • VES carried out and pumping test conducted in existing dug well. • Groundwater flow is free and received from the weathered and fractured zones at the highly elevation. • Infiltration or penetration or seepage to deeper of groundwater compact zones is

		completely absent.
9	The project proponent shall furnish details as on LULC and NDVA Analysis report.	<ul style="list-style-type: none"> • LULC and NDVI analysis of the 2Km Buffer zone for the years 2000 and 2021 are analysed. • No major adverse impact on the land use during violation period is observed. • The NDVI analysis shows that in the 2Km buffer zone, there seems to be an improvement with regards to vegetation as the values show an increase of the NDVI Index indicating the positive change with regards to vegetation cover.
10	Out of the lease area, how much has been already restored under progressive mine closure plan?	<ul style="list-style-type: none"> • During the plan period, an area of 1.00 Ha will be greenbelt area and it will be developed with plantation. Ultimately an area of 7.577Ha will be covered with plantation. Towards plantation of 1000 trees inside the lease will be planted. Rs.3.68 Lakhs is allocated under capital cost and Rs. 3.20 Lakhs/annum is allocated under recurring cost of EMP. • Towards progressive mine closure for the present plan period the lessee has already submitted the financial assurance

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		for Rs.1,35,00,000- in the form of Bank guarantee to IBM regional office, Chennai for G.O.762 of Nanjankulam Regrouped Limestone Mine.
11	The project proponent shall furnish detailed action plan on mine closure.	Various mine closure activities like fencing, greenbelt, surface runoff management structures development are already covered in the progressive mine closure plan being implemented in this mine. Final mine closure plan will be prepared and submitted during the conceptual period as per the guidelines of IBM and after their approval will be implemented.
12	Map of the mined area, if available shall be furnished.	Surface map of the lease area is provided.
13	The project proponent shall furnish details on the agricultural productivity in the last 10 years in the surrounding area.	<ul style="list-style-type: none"> • Letter has been obtained from the Joint Director of Agriculture, Tirunelveli vide Lr.No.A1/2939/2022 dated 09.03.2023 regarding the past 10 years area coverage and productivity of agricultural crops in Nanjankulam, Tenkulam, Sethurayanpudur, Madavakurichi villages of Manur Taluk, Tirunelveli District. • From the above, it is observed that in the last decade there is not much variation in the area

		<p>coverage and productivity. Similarly the revenue records of land use of these villages shows that the irrigated area is only 6.6%.</p> <ul style="list-style-type: none"> The agricultural practice in and around the mining lease area is very less due to rocky terrain, merge rainfall this type soils cover not supporting for any major cultivation. Most of lands in that are classified as dry lands. The vegetations are mainly of xerophytes like cactus, prosopis juliflora and no other trees are to be worth mentioning grown in this area. Paddy cultivation is practiced in few parts along southern buffer boundary of the area from the available water in open and bore wells.
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Based on the presentation made and replies furnished by the proponent, SEAC decided to reiterate its recommendation already made in its 351st SEAC meeting held on 03.02.2023. All conditions stipulated will also remain unchanged.

Agenda No: 364 - TA-01
(File No. 5233/2021)

Proposed expansion of Residential complex by M/s. PBEL Property Development (I) Pvt. Ltd., at S.No: 1380/1, 1382, 1383, 1401/97, 1401/22B, 1401/22C, 1401/23A2, 1401/23A3, 1401/23B, 1401/24A, 1401/24B, 1401/24C, 1401/24D, 1401/25, 1401/26, 1401/27A, 1401/27B1, 1401/27B2, 1401/28A, 1401/28B, 1401/29A, 1401/29B1,


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1401/29B2, 1401/30A, 1401/30B1, 1401/30B2, 1401/31A, 1401/31B1, 1401/31B2, 1401/32, 1401/33, 1401/42B1 & 1485, of Thaiyur B Village, Chengalpattu Taluk, Kancheepuram District, Tamil Nadu – Environmental Clearance- Regarding.

(SIA/TN) MIS/24/027/2021, dated: 26-11-2021)

The proposal was placed for appraisal in this 343rd meeting of SEAC held on 05.01.2023. 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, M/s. PBEL Property Development (India) Private Limited has applied for Environmental Clearance for the Expansion of residential building complex project at S.F.Nos. 1380/I, 1382, 1383, 1401/97, 1401/22B, 1401/22C, 1401/23A1, 1401/23A2, 1401/23A3, 1401/23B, 1401/24A, 1401/24B, 1401/24C, 1401/24D, 1401/25, 1401/26, 1401/27A, 1401/27B1, 1401/27B2, 1401/28A, 1401/28B, 1401/29A, 1401/29B1, 1401/29B2, 1401/30A, 1401/30B1, 1401/30B2, 1401/31A, 1401/31B1, 1401/31B2, 1401/32, 1401/33, 1401/42B1 & 1485 of Thaiyur B Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.
3. The Earlier EC obtained SEIAA-TN vide Lt.No.SEIAA-TN/F.2375/EC/8(a)/402/2014 dated: 01.04.2015 for plot area is 167170sq.m, built-up area is 78051.67sq.m project comprises of BlockA1- Stilt(Parking)+14 floors-112 units; Block A2 - Stilt(Parking)+14 floors-112 units; BlockB1- Stilt(Parking)+14 floors-84 units; BlockB2- Stilt(Parking)+14 floors-84 units; BlockC1- (EW5)-Stilt(Parking)+11 floors-132 units; Block D1- (Duplex villa-1)-G+2 floors-8 units; Block E1- (Duplex villa-2)-G+2 floors-8 units; Block F1- (Duplex villa-3)-G+2 floors-8 units; Block G1- GB (villa-1)-G+2 floors-8 units(1 dwelling unit per block x 8 Blocks); Block H1- H8 (villa-1)-G+2 floors-8 units(1 dwelling unit per block x 8 Blocks); Block J1- J12 (Town house-1)-G+2 floors- 12 units(1 dwelling unit per block x 12 Blocks); Block K1- K13 (Town house-2)-G+2 floors- 13 units(1 dwelling unit per block x 13 Blocks); a club house- basement +GF+ First Floor(FF), (Basement + GF + Restaurant, multipurpose

hall, Departmental store & day care center, FF- Indoor games) and expected occupancies-3367.

4. Earlier, the proposal was placed in the 302nd SEAC Meeting held on 17.08.2022.


Based on the presentation made and documents submitted by the proponent, SEAC decided to call for the following additional details.

- i. Green Belt Development achieved in respect of earlier EC obtained and the expansion proposed.
- ii. PP shall explore the possibility of getting water supply from Chennai Metro Water instead of relying on tankers.
- iii. Comparative statement for increase in the fresh water usage due to the proposed expansion of the project.
- iv. Revised EMP shall be submitted increasing the minimum coverage of solar panels to 40% of the roof top area in all the Towers including the existing one.
- v. Letter from the Airports Authority of India extending the validity of NOC issued by them.
- vi. Tamil Nadu Pollution Control Board's 'report of analysis' for the existing STP shall be submitted.
- vii. Evidence/Log Book for the regular usage of solid waste converter, duration for which the unit has been operating, the quantity the unit has received and the quality and quantity of the output of the unit from operation till date shall be submitted.

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

5. Subsequently, the proposal was again placed in the 343rd SEAC Meeting held on 05.01.2023.

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


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SEAC decided to obtain the following additional particulars from the proponent:

- i) Commitment to increase plantation in area demarcated for future development.
- ii) The proponent shall submit the details regarding children's park, recreational activities etc.,
- iii) Submit the acknowledgement for request of permanent water connection from nemmeli desalination plant.
- iv) Revised EMP shall be submitted.

Meanwhile, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation.

After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category. SEAC also decided to direct SEIAA-TN to initiate action to be taken for violation cases in accordance with law.

6. Subsequently, the proposal was placed in the 588th SEIAA meeting held on 01.02.2023. In view of the above, the authority accepts the decision of SEAC and decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 30.01.2023 & 31.01.2023 and the State Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.

Based on the above, The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Lr. No. SEAC-TN/5233/Site-Inspection/2022, dated 05.01.2023: based on Minutes of the 343rd SEAC Meeting, held on 05.01.2023, to inspect and study the field condition for the proposal seeking EC


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for expansion of Residential complex by M/s. PBEL Property Development (I) Pvt. Ltd., at S.No: 1380/I, 1382, 1383, 1401/97, 1401/22B, 1401/22C, 1401/23A2, 1401/23A3, 1401/23B, 1401/24A, 1401/24B, 1401/24C, 1401/24D, 1401/25, 1401/26, 1401/27A, 1401/27B1, 1401/27B2, 1401/28A, 1401/28B, 1401/29A, 1401/29B1, 1401/29B2, 1401/30A, 1401/30B1, 1401/30B2, 1401/31A, 1401/31B1, 1401/31B2, 1401/32, 1401/33, 1401/42B1 & 1485, of Thaiyur B Village, Chengalpattu Taluk, Kancheepuram District. The Committee comprised of Dr. G. Anne Josephine, Member SEAC – TN.

Introduction:

This Construction Project is located at S.F. Nos. 1401/23A1, 1401/23A2, 1401/23A3, 1401/23B, 1401/24A, 1401/24B, 1401/24C, 1401/24D, 1401/26, 1401/27A, 1401/27B1, 1401/27B2, 1401/28A, 1401/28B, 1401/29A, 1401/29B1, 1401/29B2, 1401/30A, 1401/30B1, 1401/30B2, 1401/31A, 1401/31B1, 1401/31B2, 1401/32, 1401/33, 1401/42B1 and 1485 Thaiyur B Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu. It belongs to M/s. PBEL Property Development (India) Private Limited.


About the Project:

This is a proposal seeking EC under violation category for the Residential Building complex by M/s. PBEL Property Development (India) Pvt. Ltd. The project/activity is covered under Category "B2" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.

1. The Earlier EC was obtained for plot area 1,67,170 Sq.m and built-up area 78,051.67 Sq.m The project comprises of Block A1- Stilt(Parking) + 14 floors - 112 units; Block A2 – Stilt (Parking) +14 floors - 112 units; Block B1- Stilt (Parking) + 14 floors - 84 units; Block B2- Stilt (Parking) + 14 floors - 84 units; Block C1 - (EWS) Stilt (Parking) + 11 floors - 132 units; Block D1 - (Duplex villa-1) - G+2 floors - 8 units; Block E1- (Duplex villa-2) - G+2 floors - 8 units; Block F1- (Duplex villa-3) - G+2 floors - 8 units; Block G1- G8 (villa-1)-G+2 floors - 8 units (1 dwelling unit per block x 8 Blocks); Block H1- H8 (villa-1) - G+2 floors - 8 units(1 dwelling unit per block x 8 Blocks); Block J1- J12 (Town house-1)-G+2 floors-12 units(1 dwelling unit per block x 12 Blocks); Block K1- K13 (Town house-2)-G+2 floors- 13 units(1 dwelling unit per block x 13 Blocks); club house-basement +GF+ First Floor(FF), (Basement + GF + Restaurant, multipurpose hall, Departmental store and day care centre, FF- Indoor games) and expected occupancies – 3387 Nos..


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Chronology of the Project:

- EC obtained during April 2015 for 5 Residential Blocks A1, A2, B1, B2, C1, Club House and 44 Nos. of Villas and Townhouses blocks
- Construction of Block A1, A2, B1, B2 and Club House completed in April 2018 and put into operation
- Revised EC Proposal submitted in April 2016 and DTCP Approved Plan obtained on June 2017 (Block C1, 44 Nos. of Villas and Townhouses blocks dropped and 4 additional Multi storied Residential Buildings B3, B4, E1 and E2 included). This proposal is within window period as per the MOEF & CC OM dated 09th September 2019 on appraising violation proposals.
- Meanwhile the Construction of Block B3 and B4 started during October 2019.
- Based on the OM dated 09th September 2019, Application was resubmitted (Proposal SIA/TN/NCP/52754/2016) under the violation category In June 2021 and processed as Violation category. The final project components seeking EC under Violation category is Block A1, A2, B1, B2, B3 and B4 – 5+14 Floors (each) and Club House – B+G+1 Floor with 552 Nos. of dwelling units for the total built up area of 77,660 Sq.m
- Violation TOR Presentation was held at 188th SEAC Meeting on 29.06.2021
- SEAC Site Inspection was held In August 2021 and Terms of Reference issued in November 2021
- The EIA proposal (SIA/TN/MIS/241027/2021) based on TOR was submitted during January 2022.
- SEAC Appraisal of EIA proposal was held during August 2022 and Additional Details Sought (ADS) by SEAC in its 302nd meeting held on 17.8. 2022.
- ADS reply was submitted during November 2022 and the ADS presentation was held on 05.01.2023 at 343rd meeting of SEAC, wherein it was decided to constitute a Sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess the Ecological Damage, Remediation Plan, Natural Resource Augmentation and Community Resource Augmentation.
- The Site Inspection of the Sub-committee was held on 11.01.2023

Violation Category: While appraising the Project to the SEAC for Terms of Reference, it was observed that this is a clear case of violation of the Environment Protection Act, 1986 as construction was carried out for certain blocks without obtaining prior EC.

The proponent has completed the construction of 2 blocks namely B3 and B4 blocks - 5+14 floors (each) without obtaining Environmental Clearance for these particular blocks. The comparative statement showing the violation is given below:


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Block - A1	Block - A1	.	Block - A1	16,629	86.82 Crores
Block - A2	Block - A2	.	Block - A2	16,629	
Block - B1	Block - B1	.	Block - B1	10,572	
Block - B2	Block - B2	.	Block - B2	10,572	
Club House	Club House	.	Club House	2,116	
Blocks D1, E1, F1 G1 to G8, H1 to H8, J1 to J 12 and K1 to K13 (Villas and Townhouses Blocks)	Though Obtained EC. Construction Proposal Dropped				
Block - C1	Though Obtained EC, Construction Proposal Dropped				
Block - B3	.	Block - B3	Block - B3	10,496	37.21 Crores
Block - B4	.	Block - B4	Block - B4	10,496	
Utility area (STP, OWC Room, Security Room)	.	.	.	150	-
Total				77,660 Sq.m	124.03 Crores

Total Built up Area (EC Obtained) – 78,052 Sq.m

Total Built up Area (EC Sought) – 77,660 Sq.m


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Site Inspection and Observations: The site inspection was carried out by the Sub Committee on 11.01.2023. During Site Inspection, It was noticed that the Blocks B3 and B4 which are under violation have been completed and ready for occupation. But not yet occupied.

Status on Compliance of TOR:

Complied as Reported and furnished in the EIA Report.

Status on Compliance of CCR:

Complied as Reported and furnished In the EIA Report.

Water Consumption: The EC was obtained for the total water requirement of 725 KLD. In the EC sought the water requirement is decreased to 570 KLD, due to the reduction of dwelling units and number of occupants, as given below:

Details on water requirement

S. No.	Description	EC Obtained (Occupancy – 3,387 Nos.) (Dwelling units – 589 units)	EC sought (Occupancy – 2,898 Nos.) (Dwelling Units – 552 units)
	Total Fresh water requirement	324 KLD	251 KLD
	Total Recycled water requirement (a+b+c)	401KLD	319 KLD
	a. Flushing Use	148 KLD	125 KLD
	b. Gardening and Landscaping	217 KLD	150 KLD
	c. OSR / Village Avenue Plantation	36 KLD	44 KLD
	Total water requirement	725 KLD	570 KLD

Now fresh water is being supplied from outside Private Tankers. As per SEAC instructions, the PP has sent a Request letter to CMWSSB on 08.11.2022, for fresh water supply and treated sewage disposal.

Overall Observations:


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- The Proponent has retained the Greenbelt Area to the tune of 27% of the total plot area i.e, 42,955 Sq.m. (More than the 15 % Greenbelt area requirement) and the OSR Area of 17,756 Sq.m (10 % of the plot area) covering the entire site
- 2,150 Nos. of trees of indigenous native trees will be planted in earmarked area out of which 350 species are already planted at the site.
- As directed by committee, the Proponent has completed the additional tree plantation in the vacant area till that area is used for construction of future blocks.
- The Proponent has submitted the request letter towards obtaining Concurrence for Fresh Water Supply and treated sewage disposal from CMWSSB. The same is shown and verified
- The Proponent operates STP of 330 KLD Capacity and Report of Analysis shows that the sewage characteristics are well within the TNPCB standards. The STP Adequacy Report obtained from Anna University is enclosed herewith as Annexure - II
- The Proponent has obtained the proposal to develop Solar Panels for 130 KW capacity covering 40 % of terrace area in both existing Blocks and Blocks B3 and B4. The Solar Proposal is enclosed herewith as Annexure - V.
- Organic Waste Converter has been installed at the site to treat 50 kg/feed installed at project premises and converted manure is used for green belt development.
- Dual Plumbing system is installed in all blocks of project to recycle the STP treated water for toilet flushing and also for green belt development.
- 36 Nos. of Rainwater Harvesting pits were laid around the site.
- Storm water drains constructed all around the project to avoid flooding and water logging inside the site.
- OSR is maintained as Park and Playground and Children Park is developed in the project site. The Photographs Showing the OSR and Children's Park is enclosed herewith as Annexure IV.
- Building Infrastructures are in good condition and are being maintained regularly. The Photograph showing the present Status of the project is enclosed herewith as Annexure VI.

Revised Budgetary allocation on Environmental Management Plan (EMP)

EMP Budgetary Allocation: Operation Phase (Rs. In Lakhs)				
Description	Earlier Submitted EMP		Revised EMP	
	Capital Expenses	Operational Expenses (Per Annum)	Capital Expenses	Operational Expenses (Per Annum)


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Sewage Treatment Plant and Recycling System	40	19.5	40	19.5
Rain Water Harvesting System	63	2.5	63	2.5
Solid Waste Management	10	15	10	15
Environmental Monitoring	-	3	-	3
Energy Conservation/Solar	39	8	39	8
Greenbelt Development (Gardening and Landscaping)	6.5	12	13.5	14
Total	158.5 Lakhs	60 Lakhs	165.5 Lakhs	62 Lakhs

Ecological Damage Assessment, Natural and Community Resource Augmentation Plan assessment

The Proponent has made the following Ecological Damage Assessment, Natural and Community Resource Augmentation Plan assessment:

Ecological Damage Assessment & Remediation Plan

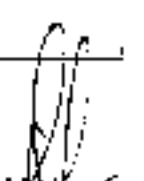
S. No.	Ecological Damage Assessment	Remediation Plan	Cost
1	Loss of Vegetation and habitats	The site prior to construction was vacant land. Only ground shrubs were removed during the construction activity. In addition, the area of 42,955 Sq.m covering 27 % of plot area has been earmarked for green belt development and the project will accommodate for 2,150 trees of indigenous native trees out of which 350 species already exist at the site.	1.2


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S. No.	Ecological Damage Assessment	Remediation Plan	Cost
2	Changing /diverting course of natural drainage	The drainage pattern of the original ground level was observed from the South West boundary towards the East boundary. The same is being maintained at present even after the alteration in topography while the construction of storm drains. Hence, no damage occurred due to change of natural drainage.	3
3	Loss of area for ground water recharging (due to loss of area used for construction and paving of the areas).	Average annual runoff from the project site before the construction estimated about 1,544 Cum. After the construction activity the average annual runoff is estimated to be about 2,386 Cu.m from the project site. Thus, due to the project there is increase in runoff and decrease in recharge. As remediation plan, the roof top runoff is diverted into the pits located within the project site. There are 36 nos. of recharge pits have been laid in the project site to recharge the surface runoff. No ground water abstraction carried out for the construction and the water during the construction phase was supplied through tankers.	4.2
4	Dust/Particulate matter emissions from loading/unloading of building material and Pollution caused by vehicles	Dust/Particulate matter emissions from loading/unloading of building material and Pollution caused by vehicles transporting building material.	0.9


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S. No.	Ecological Damage Assessment	Remediation Plan	Cost
	transporting building material.		
Total Amount			9.3 Lakhs

Natural Resources Augmentation Plan

S. No.	Natural Resources Augmentation Plan	Cost
1	Water conservation: <ul style="list-style-type: none"> • Dual Plumbing system Installed in all the blocks to reduce water consumption and to augment water conservation. • Water conservation fixtures like aerators, sensors are installed to reduce the water consumption. 	2.0
2	Energy conservation measures: <ul style="list-style-type: none"> • LEDs were installed for lighting the common areas and street lighting. • Solar powered street lights to be provided. 	0.5
3	Recycling of waste: <ul style="list-style-type: none"> • Construction debris was used for raising the level within the project. • Organic waste converter (OWC) installed for treating the biodegradable waste generated from the house hold and is being utilised for green belt development within the project premise which is improves the soil fertility. 	1.2
Total Amount		3.7 Lakhs

S. No.	Community Resource Augmentation Plan	Cost
1	Avenue Plantation of 1,120 Nos. of tree species in and around Thaiyur Village	5.6
Total Amount		5.6 Lakhs


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Classification of Violation Category:

The SEAC guidelines for classifying the violation are given below:

The Level of damages is assessed by the following criteria:

1. Low level Ecological Damage
 - a. Only procedural violations (started the construction at site without obtaining EC)
2. Medium level Ecological Damage:
 - a. Procedural violations (started the construction at site without obtaining EC)
 - b. Infrastructural violation such as deviation from CMDA/ Local body approval
 - c. Non operation of the project (not occupied).
3. High level Ecological Damage:
 - a. Procedural violations (started the construction at site without obtaining EC).
 - b. Infrastructural violation such as deviation from CMDA/ Local body approval
 - c. Under operation (Occupied)

Classification of the Subcommittee:

The subcommittee has taken the following criteria into consideration, for classification:

Subcommittee's criteria on Damage Assessment

S. No.	Criterion	Remarks	Level of Damage
1.	Stage of Construction	Block B3 and B4 (Violation Components) are completed	It is a Procedural violation, and hence it is a Low level Damage
2.	Water Supply	The Proponent has submitted the request letter towards obtaining	


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		Concurrence for Fresh Water Supply and treated sewage disposal from CMWSSB.	
3.	Sewerage Generation, Treatment and Disposal and	The Wastewater generation for the entire project would be 325 KLD and the existing STP capacity of 330 KLD is adequate to handle the proposed Quantity. The Treated sewage is being used for toilet flushing and Gardening. The excess treated is used for OSR / Village avenue plantation	
4.	Solid Waste Management	The Organic Waste generated is treated in an Organic Waste Converter and is being properly maintained and recorded in a Log Book.	
5.	Green Belt Development	The Greenbelt is developed around the project site.	
6.	DG Sets	DG sets are installed with stack height 6m from the ground level.	
7.	Green Power	Solar panels to the tune of 130 KW capacity are to be installed in the Terrace of all blocks	
B.	Rainwater Harvesting	Rain water harvesting pits (36 Nos.) were constructed around the completed blocks of the project	
9.	Compliance of conditions prescribed by MOEF a. Water Management b. Electricity Supply c. Infrastructure maintenance.	a) Water supply is met through private tankers b) Electricity for the project is sourced through TANGEDCO c) Infrastructure such as Children Park Maintenance, STP, OWC Room and other utilities are well maintained.	

	Access Road, Children's Park etc. d. Provision of Effective Building Management Control like Safety alarm, Fire prevention etc.	d) Provisions of UG sump, Fire Extinguishers, Hydrants are In place.	
10.	Corporate Environmental Responsibility (CER)	Proponent has spent CER in various schools and nearby communities to the tune of 17.15 Lakhs	

Out of the criteria mentioned above, the PP has violated the Procedural aspect only, therefore, the subcommittee has agreed to the PP's classification of the Project as '**Low Level Damage category**'.

Estimation of Damage Assessment cost for the project

The Estimation of Ecological Remediation, Natural Resource Augmentation and Community Resource Augmentation and penalty are hereby recommended by the Subcommittee as follows, by treating the Project as '**Low Level Damage category**'.

Based on the guidelines given by SEAC on Damage Level Classification, the Damage Assessment cost for Residential Development Complex by PBEL Property Developers India Private Limited is worked out as Follows:

Name of the Project : PBEL Property Developers India Private Limited

Project cost pertaining to the violation portion of the project (Blocks B3 and B4) : 37.21 Crores

Damage Category as per SEAC Guidelines : Low Level Damage Category

SEAC Guidelines on Damage Level Category


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Level of Damage	Amount to be remitted as Bank Guarantee			Amount to be remitted as Penalty	Total (% of the cost) (A+B+C+D)
	Ecological remediation cost (% of the cost) (A)	Natural Resource Augmentation (% of the cost) (B)	Community Resource Augmentation (% of the cost) (C)	Penalty (% of the cost) (D)	
Low Level Damage Criteria	0.25	0.10	0.15	0.25	0.75
Project cost pertaining to the violation portion of the project (Blocks B3 and B4) 37.21 Crores	9.3 Lakhs	3.7 Lakhs	5.6 Lakhs	9.3 lakhs <i>To be remitted for the Beneficiary directed by SEAC/SEIA A</i>	27.9 Lakhs
	Total: 18.6 Lakhs				

Conclusion and Recommendations:

The Project falls under the Low-Level Ecological Damage category and the EMP measures were in place during the violation period. The Project Proponent has estimated the Ecological Damage Cost as 18.6 lakhs (excluding penalty) which falls in line with the SEAC guidelines. The sub-committee has also agreed to the valuation of the damage by the proponent. Therefore, the value of 18.6 lakhs must be compensated for Remediation, Natural Resource Augmentation and Community Resource Augmentation programme in accordance with the MOEF & CC Guidelines as follows:


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S. No.	Activity Proposed	Rs. in Lakhs
1.	Ecological Damage Remediation	9.3
2.	Natural Resource Augmentation	3.7
3.	Community Resource Augmentation	5.6
Total		18.6 Lakhs

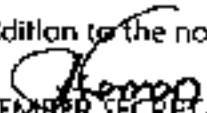
The Project cost pertaining to the violation portion of the project (Blocks B3 and B4) is 37.21 crores. The Project Proponent has already carried out CER activities for 17.15 lakhs. However, the following activities are proposed to include in the CER activities.

- i. Provision of food for the slow learning Adhi Dravida students in 10th, 11th and 12th standard during late tuition hours, conducted in the Govt. Adhi Dravida Higher Secondary School at Aharam, Chengalpattu District for the cost of Rs. 20,000 (Rupees Twenty Thousand only)
- ii. Provision of Solar Panels in Govt. Hr. Sec. School in Pallavaram, Chengalpattu District Rs. 1,00,000/- (Rupees One Lakh only)

Conditions

- The Project Proponent shall carry out the activities, assigned under Remediation, Natural Resource Augmentation and Community Resource Augmentation within one year.
- The Project Proponent shall carry out the CER activities before obtaining CTO for the project.
- The Project Proponent shall adhere to the revised EMP furnished.
- The Project Proponent shall remit the prescribed amount by SEAC (based on Ecological Remediation, Natural and Community Resource Augmentation Plan) to the TNPCB in the form of Bank Guarantee.
- The Project Proponent shall take utmost care of maintenance of Avenue Plantation.
- The Project Proponent shall submit the proof for the action taken by the TNPCB under the provisions of Section 19 of the Environment (Protection) Act 1986.

The above Sub-committee report was placed in this 364th Meeting of SEAC held on 23.03.2023. After detailed deliberation, SEAC decided to recommend the proposal to SEIAA for grant of Environmental Clearance subject to the following conditions in addition to the normal conditions:


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1. As per the MoEF& CC Notification, S.O.1030 (E) dated:08.03.2018, "The project proponent shall submit a bank guarantee equivalent to the amount of remediation plan and Natural and Community Resource Augmentation Plan with the State Pollution Control Board and the quantification will be recommended by the Expert Appraisal Committee for category A projects or by the State or Union territory level Expert Appraisal Committee for category B projects, as the case may be, and finalized by the concerned Regulatory Authority and the bank guarantee shall be deposited.
2. Accordingly, the amount prescribed for Ecological remediation (Rs.9.3 lakhs, natural resource augmentation(Rs. 3.7 lakhs) & community resource augmentation (Rs. 5.6 lakhs), totalling Rs. 18.6 lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 18.6 lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit acknowledgment of the same to SEIAA-TN. The funds shall be utilized for the ecological damage remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report
3. The proponent shall obtain fresh water supply commitment letter and disposal of excess treated sewage from local body before obtaining CTO
4. The proponent shall provide solar panels covering 40% of terrace area as committed.
5. The project proponent shall provide sewage treatment plant 330 KLD and treated water shall be utilized for flushing and green belt proposed. The excess treated water shall be utilized for Avenue plantation after obtain necessary permission from local body.
6. The proponent shall provide adequate organic waste disposal facility such as organic waste convertor waste within project site as committed and non-Biodegradable waste to authorized recyclers as committed.
7. The height of the stacks of DG sets shall be provided as per the CPCB norms.
- B. The project proponent shall submit structural stability certificate from any of these reputed institutions - IIT Madras, NIT/Trichy, Anna University, Chennai-CEG Campus to TNPCB before obtaining CTO.


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9. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for Toilet flushing. Green belt development & OSR and no treated water be let out of the premise.
10. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.
11. The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.
12. 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.
13. Tatter/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted in proper espacement 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
14. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
15. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
16. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
17. No waste of any type to be disposed off in any other way other than the


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- approved one.
18. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
 19. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.
 20. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
 21. The project proponent shall measure the criteria air pollutants data (Including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
 22. Solar energy should be at least 10% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
 23. 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.
 24. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall include demolishing plan & its mitigation measures in the EMP and adhere the same as committed.
 25. The proposed CER amount of Rs. 1.20 lakh shall be spent as committed before the issue of Environmental Clearance.
 26. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.


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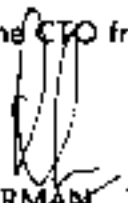
27. The proponent shall furnish the detail about the built-up area for all the buildings with floor wise to TNPCB every year along with the compliance report for the Environmental Clearance.
28. Any violations and subsequent suitable action may be decided by SEIAA, as deemed appropriate, if arises.

ANNEXURE-I


1. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
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.


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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 i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
5. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
6. The proponent shall ensure that the slope of dumps is suitably vegetated in scientific manner with the native species to maintain the slope stability, prevent erosion and surface run off. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps.
7. 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 and submit the consolidated report to TNPCB once in six months.
8. The Project Proponent shall carry out slope stability study by a reputed academic/research institution such as NIRM, IIT, Anna University for evaluating the safe slope angle if the proposed dump height is more than 30 meters. The


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slope stability report shall be submitted to concerned Regional office of MoEF&CC, Govt. of India, Chennai as well as SEIAA, Tamilnadu.

9. 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. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
10. 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.
11. 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 in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
12. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted in proper escapements 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.
13. **Noise and Vibration Related:** (i) The Proponent shall carry out only the Controlled Blasting operation using NONEL shock tube initiation system during daytime. Usage of other initiation systems such as detonating cord/fuse, safety fuse, ordinary detonators, cord relays, should be avoided in the blasting operation. The mitigation measures for control of ground vibrations and to arrest fly rocks should be implemented meticulously under the supervision of statutory competent persons possessing the I / II Class Mines Manager / Foreman / Blaster certificate



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issued by the DGMS under MMR 1961, appointed in the quarry. No secondary blasting of boulders shall be carried out in any occasions and only the Rock Breakers (or) other suitable non-explosive techniques shall be adopted if such secondary breakage is required. The Project Proponent shall provide required number of the security sentries for guarding the danger zone of 500 m radius from the site of blasting to ensure that no human/animal is present within this danger zone and also no person is allowed to enter into (or) stay in the danger zone during the blasting. (ii) 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.

14. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
15. 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.
16. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
17. The proponent shall ensure that the transportation of the quarried materials 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 rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.


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18. 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.
19. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.
20. The Project proponent 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 that is fit for the growth of fodder, flora, fauna etc.
21. 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.
22. The project proponent shall ensure that the provisions of the MMRD, 1956, 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.
23. 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.
24. 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.
25. 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.


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26. 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.
27. 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.
28. The Project proponent shall install a Display Board at the entrance of the mining lease area/abutting the public Road, about the project information as shown in the Appendix -II of this minute.


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Appendix - I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விவம்
2	<i>Adenanthera pavonina</i>	Manjadi	மஞ்சரி, அனந்தகுந்தம்
3	<i>Albizia lebbek</i>	Vaagai	வாயை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Maruthani	மரூதனி
6	<i>Bauhinia variegata</i>	Aathi	அதி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாதி
8	<i>Buchanania axillaris</i>	Kattuna	கட்டுநா
9	<i>Borassus flabellifer</i>	Panni	பன்னி
10	<i>Butea monoperma</i>	Murakkamarum	முரக்கமரம்
11	<i>Borax caba</i>	Ilavu, Sevilavu	இலாவு
12	<i>Calophyllum inophyllum</i>	Pannai	பன்னை
13	<i>Cassia fistula</i>	Serakondrai	செரகண்டிரை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கண்டிரை
15	<i>Chloroxylon swietenia</i>	Purattamattu	புரட்டமட்டு
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கொங்கு, மஞ்சல்லாவு
17	<i>Cordia dichotoma</i>	Narvuli	நர்வூலி
18	<i>Crotola adansonii</i>	Mavalingam	மாவலிங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சீருவா
21	<i>Diospyros suberum</i>	Karungali	கரங்கலி
22	<i>Diospyros schloroxylon</i>	Vaganni	வாக்கனி
23	<i>Ficus amplicissima</i>	Kalitchi	கல் கிச்சி
24	<i>Hibiscus tiliaceus</i>	Astrupoovaravu	அஸ்துபூவராவு
25	<i>Hardwickia binata</i>	Aacha	அச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	அயில் அயில், அயில்
27	<i>Larrea coronandlica</i>	Odhiam	ஒடியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மரூதூ
29	<i>Laportea tetraphylla</i>	Neikottaimaram	நெய்கொட்டைமரம்
30	<i>Limonia acidissima</i>	Vila marani	வில்லா மரம்
31	<i>Litsea glutinosa</i>	Pisimpattai	பிசிம்பட்டை
32	<i>Machilus longifolia</i>	Iluppal	இலுப்பல்
33	<i>Manihara hexandra</i>	UlakkaiPachai	உலக்கைபாச்சை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழாமரம்
35	<i>Mitragyna parvifolia</i>	Kadamba	கடம்பா
36	<i>Morinda pubescens</i>	Nuru	நூறு
37	<i>Morinda citrifolia</i>	Vellai Nuru	வெள்ளை நூறு
38	<i>Phoenix sylvestris</i>	Eechai	ஏச்சை
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Preema mollissima</i>	Munnai	முத்து
41	<i>Preema serratifolia</i>	Narainmanai	53 முத்து
42	<i>Preema tomentosa</i>	Mahipoovarasi	மேலு முத்து
43	<i>Procopis ciliaris</i>	Vanni maran	வாணி முத்து
44	<i>Pterocarpus marsipianus</i>	Vengai	வேங்கை
45	<i>Pteropermium camosum</i>	Vernangu, Toda	வேண்டங்க
46	<i>Pteropermium zyllocarpum</i>	Polavu	புலவு
47	<i>Pithecolobium roxburghii</i>	Karpala	கர்பலா
48	<i>Salvadora persica</i>	Uga Maran	உகா முத்து
49	<i>Sapindus marginatus</i>	Manipungar, Soopukai	மணிபுங்கர் சூபுகை
50	<i>Soraca asoca</i>	Asoca	அசொகா
51	<i>Strabtus asper</i>	Piray maran	பிராய முத்து
52	<i>Strychnos macrocarpa</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேர்தங்க கோட்டை
54	<i>Syzygium cumini</i>	Navai	நவாவி
55	<i>Terminalia bellerica</i>	Thandai	தண்டை
56	<i>Terminalia eriposa</i>	Ven marudhu	வேன் மருது
57	<i>Toona ciliata</i>	Sandhara vembu	சாந்தாரா வேம்பு
58	<i>Thespesia populnea</i>	Pavarasu	பவாசு
59	<i>Walsbyribifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecolobium dalca</i>	Kodakkapali	கொடக்காபலி


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