

State Expert Appraisal Committee (SEAC)

Minutes of 368th meeting of the State Expert Appraisal Committee (SEAC) held on 19.04.2023 (Wednesday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saldapet, Chennai 600 015 for consideration of Building Construction Projects, Industry Projects & Mining Projects

Agenda No: 368-01

(File No: 8655/2021)

Proposed Rough Stone & Gravel quarry lease over an extent of 4.58.35 Ha at S.F.No. 1574/1, 1574/2A and 1585/2A (P) of Irukkandurai Part-II Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu by Thiru.P. Devaraja - For Environmental Clearance. (SIA/TN/MIN/217798/2021 dated 04.07.2021)

The proposal was earlier placed in the 288th meeting of SEAC held on 23.06.2022. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The Project Proponent gave a detailed power point presentation.

The SEAC noted the following:

1. The Project Proponent, Thiru.P. Devaraja has applied seeking Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 4.58.35 Ha at S.F.No. 1574/1, 1574/2A and 1585/2A (P) of Irukkandurai Part-II Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.

Sl. No.	Details of the Proposal	
1.	Name of the Owner/Firm	Thiru.P.Devaraja S/o.Phusparaj No.302, Jeyaprakash Street Vadakkankulam Post Perungudi-627116
2.	Type of quarrying	Rough Stone, Jelly & Gravel
3.	S.F No. of the quarry site	1574/1,1574/2A and 1585/2A (P)
4.	Village in which situated	Irukkandurai Part-II
5.	Taluk in which situated	Radhapuram
6.	District in which situated	Tirunelveli
7.	Extent of quarry (in ha.)	4.58.35 Ha- Patta Land


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8.	Latitude & Longitude of all corners of the quarry site	08°10'10.53"N to 08°10'18.39"N 77°39'46.74"E to 77°39'55.61"E
9.	Topo Sheet No.	58-H/11&12
10.	Type of Mining	Opencast semi mechanized mining
11.	Period of current mine plan	5 Years
12.	Production (Quantity in m ³)	<p>As per the approved mining plan, Geological reserves: 20,61,540 m³ of Rough stone, 45,812 m³ of Weathered rock and 91,624 m³ of Gravel to the 48m BGL)</p> <p>5-year Production proposed: 11,44,025 m³ of Rough stone, 38,430 m³ of weathered rock and 78,740 m³ of Gravel to a depth of 48m BGL</p> <p>5-year Production (restricted): 4,21,940 m³ of Rough Stone, 23,919 m³ of weathered rock and 48,480 m³ Gravel to a depth of 43m BGL.</p> <p>The annual peak production as per mining plan is 84,545 m³ of Rough Stone</p>
13.	Depth of mining	48m BGL
14.	Depth of water table	63m-66m
15.	Man Power requirement	31 Nos
16.	Water requirement: 1. Domestic & Flushing 2. Dust suppression 3. Green Belt	3.0 kLD 2.0 kLD 0.5 kLD 0.5 kLD
17.	Power requirement: Domestic Industrial	TNEB DG Set
18.	Precise area communication approval letter	Rc.No.M1/28261/2018 dated 12.10.2020
19.	Mining Plan approval Letter	letter Rc.No.M1/28261/2018 dated 15.10.2020
20.	500m cluster letter	letter Rc.No.M2/28261/2018 dated 15.10.2020
21.	VAO certificate regarding habitation within 300m radius	15.10.2020
22.	Project Cost (excluding EMP)	Rs.94,50,000/-

23.	EMP cost	Capital Cost: Rs 25.13 lakh Recurring Cost: Rs 21.91 lakh per Annum
24.	CER Cost	Rs. 5.0 Lakh

SEAC noted that EDS was raised asking PP to obtain NOC from Kudankulam Nuclear Power Plant and the PP had not obtained the same. Hence the Committee directed the Project Proponent to obtain NOC from Kudankulam Nuclear Power Plant Authorities.

The subject was taken up for discussion in this 368th meeting of SEAC held on 19.04.2023. The Project Proponent made PowerPoint presentation on the details sought. During the presentation in the KML file, the SEAC noted that windmill structures are seen in the vicinity of the project site and hence SEAC decided to call for the following details.

1. The PP shall enumerate the details of structures located in 100m, 200m & 300m from the project site.

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

AGENDA No: 368-02

(File No: 9402/2022)


Proposed Rough stone quarry lease over an Extent of 1.52.00 Ha (Government Land) in S.F.Nos. 155/3 in Kaplampadi Village, Melmalaiyanur Taluk, Villuppuram District and Tamil Nadu by Tmt.M.Vijayalakshmi- For Environmental Clearance. (SIA/TN/MIN/282010/2022, dated 07.07.2022)

The proposal was earlier placed in 314th meeting of SEAC held on 23.09.2022. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Tmt.M.Vijayalakshmi has applied seeking Environmental Clearance for proposed Rough stone quarry lease over an Extent of 1.52.00 Ha (Government Land) in S.F.Nos. 155/3 in Kaplampadi Village, Melmalaiyanur Taluk, Villuppuram District and 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, as amended.


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Sl. No	Details of the Proposal	
1.	Name of the Owner/Firm	Tmt.M.Vijayalakshmi W/o. Murugan No.2/89, Main Road Kaplampadi Melamalaiyanur Viluppuram - 604201
2.	Type of quarrying (Rough Stone/Sand/Granite)	Rough stone
3.	S.F No. Of the quarry site with area break-up	155/3
4.	Village	Kaplampadi
5.	Taluk	Melmalaiyanur
6.	District	Villupuram
7.	Extent of quarry (in ha.)	1.52.00 Ha -Government Land
8.	Period of quarrying proposed	5 Years
9.	Type of mining	Opencast mechanized
10.	Production (Quantity in m ³)	As per the approved mining plan. Geological resources: 10.16.015m ³ of Rough stone to an ultimate depth of 85m (20m AGL & 65m BGL) 5-year production proposed: 1,45,312 m ³ of Rough stone to a depth of 45m (20m AGL & 25m BGL). The annual peak production as per mining plan is 33,600 m ³ of Rough stone.
11.	Depth of quarrying	45m (20m AGL & 25m BGL)
12.	Latitude & Longitude of all corners of the quarry site	12°22'31.82"N to 12°22'37.03"N 79°16'51.40"E to 79°16'57.49"E
13.	Topo Sheet No.	57-P/7

14.	Manpower requirement per day	32 Nos
15.	Precise area communication	Rc.No.B/G&M/27/2021 Dated 25.02.2021
16.	Mining Plan	Rc.No.B/G&M/27/2021 Dated 28.05.2021
17.	500m cluster letter	Rc.No.B/G&M/27/2021 Dated 28.05.2021
18.	Water requirement 1. Drinking & domestic purposes 2. Dust suppression 3. Green Belt	2.5kLD 1.5 kLD 0.5 kLD 0.5 kLD
19.	Power requirement: Domestic Industrial	TNEB DG Set
20.	Depth of water table	65m-70m
21.	VAO certificate regarding habitation within 300m radius	Letter dated: Nil
22.	Project Cost	Rs. 63,50,000/-
23.	EMP cost	Capital cost: Rs. 24,05,000/- Recurring cost: Rs. 1,85,000/- Annum
24.	CER cost	Rs. 5,00,000/-

Based on the documents furnished and the presentation of the project, the Committee decided to call for the following additional particulars from the proponent:

- Letter from the DFO, Villupuram District detailing the location (along with GPS coordinates) and distance of the proposed mine lease area from the nearby Reserve Forests.

Subsequently the subject was placed in the 560th meeting of Authority held on 17.10.2022. The Authority after detailed discussions, decided to seek the following details, in addition to the ADS asked for by SEAC, from the Proponent.

1. Study report on the impact of the proposed mining activity on the 3 nos. of lakes situated within 2km radius from the project site (i.e. Kaplamabadi Lake-0.95 km, Maniyanthapattu lake-0.98km, Nochalur Lake-2.09 km) and 3 nos. of temples (Shri Murugan Temple-0.80 km, Mariamman Temple-0.78 km, Pillaiyar Kovil-0.94 km) shall be furnished.


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2. Study report on the impact of the proposed mining activity on the nearby agriculture, land, water, soil and biological environment and other natural resources.
3. Will the proposed activity result in Carbon emissions, temperature rise or add to micro climate alternations? Explain.
4. Justify that the proposed mining activity will neither affect the water bodies and natural flow of surface & ground water nor cause any pollution to water sources in the area.

All the study report detailed above shall be conducted through accredited Institutions.

The subject was taken up for discussion in this 368th meeting of SEAC held on 19.04.2023. The Project Proponent made powerpoint presentation on the details sought. 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 quantity of 1,45,312 m³ of Rough stone for an ultimate depth of 45m (20m AGL & 25m BGL) and the annual peak production as per mining plan shall not exceed 33,600 m³ of Rough stone 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 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. 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 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 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.
7. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
8. 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.


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9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
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 Lakh and the amount shall be spent for the committed activities before obtaining CTO from TNPCB.

AGENDA No: 368-03

(File No: 9425/2022)

Proposed Gravel removal over an extent of 1.33.50 Hectare in S.F. No. 241/2, 241/4A, 241/4C (Patta Land), Mustakurichi Village, Kariapatti Taluk, Virudhunagar District, Tamil Nadu by Thiru. M.Kannan - For Environmental Clearance. (SIA/TN/MIN/281353/2022/dated 30.07.2022)

The proposal was earlier placed in the 324th meeting of SEAC held on 21.10.2022. The details of the project furnished by the proponent are available on the PARIVESH portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent Thiru.M.Kannan has applied seeking Environmental Clearance for the Proposed Gravel removal over an extent of 1.33.50 Hectares in S.F.No. 241/2, 241/4A, 241/4C in Mustakurichi Village of Kariapatti 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, as amended.
3. As per mining plan, the production shall not exceed 18,050 m³ of Gravel and to a depth of 2m depth for a period of 3 years.
4. Based on 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 stated that,

"....There shall not be any grant of quarry lease without ascertaining the composition /component of the minerals and without obtaining a report from a authorized lab....."


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Sl. No.	Details of the Proposal	
1.	Name of the Owner/Firm	Thiru M Kannan S/o Thiru Marthanayagam No.160/4, Mugavai Theru, Tharilthar Nagar, Madurai North Taluk Madurai
2.	Type of quarrying	Gravel
3.	S.F No. of the quarry site	241/2, 241/4A, 241/4C
4.	Village in which situated	Mustakurichi
5.	Taluk in which situated	Kariapatti
6.	District in which situated	Virudhunagar
7.	Extent of quarry (in ha.)	1.33.50 Ha -Patta Land
8.	Latitude & Longitude of all corners of the quarry site	9°45'13.94"N to 9°45'15.03"N 78°9'39.25"E to 78°9'42.33"E
9.	Topo Sheet No.	58K/1
10.	Type of Mining	Opencast mechanized Mining
11.	Period of current mine plan	3 years
12.	Production (Quantity in m ³)	As per the approved mining plan, Geological resources: 25,092 m ³ of Gravel to the depth of 2 m 3-year Production: 18,050 m ³ of Gravel The annual peak production as per mining plan is 6,278 m ³ of Gravel
13.	Depth of mining	2m BGL
14.	Depth of water table	30m BGL
15.	Man Power requirement	11 Nos
16.	Water requirement: 1. Domestic & Flushing 2. Dust suppression 3. Green Belt	3.0 kLD 1.0 kLD 1.0 kLD 1.0 kLD
17.	Power requirement: Domestic Industrial	TNEB DG Set
18.	Precise area communication letter	Na.Ka.No.KV3/289/2019/Mineral, dated 20.05.2022

19.	Mining Plan approval letter	Roc No. KV3/289/2019, Dated: 15.06.2022.
20.	500m cluster letter	Roc No. KV3/289/2019, Dated: 15.06.2022.
21.	VAO certificate regarding habitation within 300m radius	Letter dated 24.06.2022
22.	Project Cost (excluding EMP)	Rs. 16.5 Lakh
23.	EMP cost	Capital Cost: Rs Rs. 4,93,500 /- Recurring Cost: Rs Rs.4,05,000 /- per Annum
24.	CER Cost	Rs. 2.0 Lakh

Based on the presentation and documents furnished by the proponent, the Committee decided to seek the following additional particulars from the Proponent:

1. Proponent shall furnish the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
2. Proponent shall furnish revised list of regional flora.
3. Report on mineral/soil composition analysis of the sample collected from the proposed quarry site indicating its coordinates & survey numbers, in the presence of concerned NABET Consultant / EIA Coordinator in accordance with the procedures as laid for sample collection by the Dept of Geology of Mining. Further the PP shall get the soil tested in any one of the following labs authorized by the Director of Geology and Mining as directed in the above Judgment and ensure that the test report carries the certification issued by the concerned Asst. Director (Geology & Mining) on the results of soil composition analysis.

Sl. No	Name of the Laboratory
1.	Regional Testing Laboratory, Mellur, Industrial Estate, K. Pudur, Madurai – 625 020.
2.	Department of Civil Engineering, National Institute of Technology, Trichy – 620015.
3.	Department of Civil Engineering, Division of Soil Mechanics and Foundation Engineering, Anna University, Guindy, Chennai -25.

4. The proponent should produce a letter from the concerned Asst. Director (Geology and Mining) stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and does not fall under any

notified/declared protected zones as directed in the aforesaid Judgement issued by the Hon'ble Madurai Bench of Madras High Court.

The subject was taken up for discussion in this 368th meeting of SEAC held on 19.04.2023. The Project Proponent made powerpoint presentation on the details sought. 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 18,050 m³ of Gravel to an ultimate depth of 2m in a period of 3 years and the annual peak production shall not exceed 6,278 m³ of Gravel 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 under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy.
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.


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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. 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.
9. 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.
10. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
11. The 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.
12. 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.
13. 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. 368 - 04

(File No.8110/2022)

Proposed Rough Stone & Gravel quarry over an extent of 2.51.0 ha in S.F.Nos. 881/1, 882 (P) & 893/4 at Pavithram Village, Pugalur Taluk, Karur District, Tamil Nadu by Tvl.Sri Ganesh Murugan Blue Metals – For Environmental Clearance (SIA/TN/MIN/ 407871/2022, dated: 24.11.2022)

The proposal was placed in the 368th SEAC Meeting held on 19.04.2023. 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:


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1. The Proponent, Tvl. Sri Ganesh Murugan Blue Metals, has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry over an extent of 2.51.0 ha in S.F.Nos. 881/1, 882 (P) & 893/4 at Pavithram Village, Pugalur Taluk, Karur 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. As per the mining plan, the lease period is for 5 years. The mining plan is for the period of 5 years. The total production for 5 years not to exceed 1,52,342m³ of Rough Stone and 36,448 m³ of Gravel with ultimate depth of 35m BGL (2m – Gravel&33m – Rough Stone).
4. TOR was issued vide Lr No. SEIAA-TN/F.No.8110/SEAC/ToR- 931/2020 Dated: 16.04.2021.
5. Restricting the maximum depth of mining from 40m to 35m considering the environmental impacts due to the mining, safety of the working personnel and following the principle of the sustainable mining and consequently the maximum minable quantities of Rough stone & 36448cu.m of Gravel are permitted for mining over five years.
6. Public Hearing was conducted on: 31.05.2022.
7. EIA Report was submitted on: 29.11.2022.
8. Earlier, the proposal was placed in the 349th SEAC meeting held on 20.01.2023. SEAC noted that there is a shed within 200m, and directed the EIA consultant shall examine the impact of the proposed activity and include appropriate mitigation measures in EMP. On receipt of the details, further deliberations will be done.
9. Subsequently, the proposal was placed in the 594th meeting of SEIAA held on 18.02.2023, and the Authority decided that In addition to the above queries, proponent shall submit the following details.
 1. From the KML file, it is ascertained that a small piece of odai with its riverine biodiversity marked by trees. The species to be impacted because of the proposed quarrying activity shall be studied.


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In the view of the above, SEAC shall examine the above-mentioned points in addition to the queries raised by SEAC and decided to request Member Secretary to communicate the minutes of 349th SEAC held on 20.01.2023 to the project proponent.

Now, the PP has replied the said queries as follows

S.No.	SEAC QUERY	REPLY
1.	SEAC noted that there is a shed within 200 m, and directed the EIA consultant shall examine impact of the proposed activity and include appropriate mitigation measures in EMP.	<ul style="list-style-type: none"> • There are few structures falls within the radius of 300m from the project site. • Cow shed along with agriculture goods storeroom is located 110m South East side of the area (S.F.No. 892), No one stays in the shed and goods store room. • Labour Shed along with crusher Tools store room is located 140m South West side belonging to the proponent. • Mahendira paper mill is located 240m South East side of the project area apart from Transport route drivers and cleaners, there are 6 peoples working in this paper mill. • Work Timing – 8.30 AM to 5. PM • No employee accommodation provided thus no people working for the paper mill stay in the premises.
2.	From the KML file, it is ascertained that a small piece of odai with its riverine biodiversity marked by trees. The species to be impacted	<ul style="list-style-type: none"> • It is been obtained confirmation from the Thasildhar that an odai exist on Record and state on ground there is no odai. • On analysis of the KML file and ground truthing was carried out to study the biodiversity as per query and it is noted

	because of the proposed quarrying activity shall be studied	<p>that there are around 25 Karuvelam trees adjacent to the North East boundary of applied area.</p> <ul style="list-style-type: none"> • Detailed Ecology and biodiversity study has been carried out in the study area the same has been discussed in the EIA report (Please refer page No 90-100) • The mining operation will be carried out after leaving 7.5m safety distance from the boundary and proposed with greenbelt development, which will act as a cushion to the existing trees on the north east boundary and shall have no significant impact on these trees. • By following Environmental Management Plan as per the EIA report there is no significant impact to the species and trees situated adjacent to the project area.
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Based on that the Now, the proposal was placed in the 368th SEAC meeting held on 19.04.2023.

The salient features of the project

Sl. No	Details of the Proposal	Data Furnished
1.	Name of the Owner / Firm	Tvl. Sri Ganesh Murugan Blue Metals, Survey No. 268, Pudukkanalli, Pugalur Taluk, Karur District - 639 002.
2.	Type of quarrying	Rough Stone & Gravel Quarry
3.	S.F No. of the quarry site	881/1, 882(P), 893/4
4.	Village in which situated	Pavithram
5.	Taluk in which situated	Pugalur

6.	District in which situated	Karur
7.	Extent of Quarry (in ha.)	2.51.0 ha
8.	Period of Quarrying proposed	5 years
9.	Type of Mining	Opencast Mechanized mining method.
10.	Production (Quantity in m ³)	1,49,757 m ³ of rough stone & 36,448m ³ of Gravel
11.	Latitude & Longitude of all corners of the quarry site	10°56'37.00"N to 10°56'43.08"N 77°58'16.76"E to 77°56'25.38"E
12.	Topo sheet No.	58 -F/13
13.	Man power requirement per day:	18 Employees
14.	Precise Area Communication approved by the Assistant Director	Na. Ka.No. 453/ Kanimam/ 2020 Dated: 02.11.2020
15.	Mining plan approved by the Deputy Director of Geology and Mining with date	Rc.No. 453/ Mines/ 2020 Dated: 20.11.2020
16.	AD mines 500m cluster letter by the Deputy Director of Geology and Mining with date	Rc.No.453/ Mines/ 2020 Dated: 26.11.2020
17.	Water requirement: 1. Drinking & domestic 2. Dust Suppression 3. Green Belt	2.0 KLD 0.5 KLD 1.0 KLD 0.5 KLD
18.	Power requirement: a. Domestic purpose b. Machinery works	TNEB 500 Liters of HSD per day
19.	Depth of Mining	35m BGL
20.	Depth of Water table	63m in rainy season to 68m in summer season

21.	Project cost	Rs. 34,01,000
22.	EMP cost	Capital cost: Rs. 5226223 Recurring cost : Rs.2882640
23.	CER cost	Rs. 5 Lakhs
24.	VAO letter dated	07.07.2022.
25.	TOR Issued Details	Lr No. SEIAA-TN/F.No.8110/SEAC/ToR-931/2020 Dated: 16.04.2021
26.	Public Hearing Date	31.05.2022
27.	EIA Report submitted on	29.11. 2022

Based on the presentation & documents furnished, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production of 1,49,757 m³ of rough stone & 36,448m³ of Gravel and annual peak production 34819 m³ of Rough Stone (1st year) and 12360 m³ of Gravel with ultimate depth of 35m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. 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.
3. 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.


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4. The PP shall inform the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
5. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in DGMS approved Group Vocational Training Centre, Pandalgudi (or) Trichy.
6. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the development activities from west to east direction keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
7. 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.
8. 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.
9. In the meanwhile, within six months from the commencement of quarrying operations, the PP shall consult and obtain necessary permission from the DMS, Chennai Region for the extraction of common boundary existing adjacent to the neighbouring quarry considering the safety aspects.
10. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
11. The PP shall carry out maximum of TWO rounds of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with

maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 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.

12. 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.
13. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
14. 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.
15. 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.
16. 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.


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17. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
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.5 lakhs and the amount shall be spent for the Panchayat Union Middle School, Thathampalayam, K. Paramathi Union, Karur as committed, before obtaining CTO from TNPCB.

Agenda No: 368 - 05

(File No: 6388/2017)

Existing Limestone Mine lease area over an extent of 4.00.0Ha at S.F.Nos.31/2A, 2B, 4A, 4B, 4C, 4D, 5A,5B, 5C, & 5D, 32/2A & 2B, Karruppursenapathy Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu by M/s. Chettinad Cement Corporation Limited For Terms of Reference under violation category. (SIA/TN/MIN/25115/2018, dated: 13.04.2018).

The proposal was placed in the 368th SEAC Meeting held on 19.04.2023. 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. Chettinad Cement Corporation Limited, has applied for Terms of Reference under violation category for the Existing Limestone Mine lease area over an extent of 4.00.0Ha at S.F.Nos.31/2A, 2B, 4A, 4B, 4C, 4D, 5A,5B, 5C, & 5D, 32/2A & 2B, Karruppursenapathy Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu.


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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. Earlier, the proposal was placed in the 341st SEAC meeting held on 29.12.2022. During the meeting, the Committee noted that the project proponent is absent during the meeting. Hence the subject was not taken up for discussion.

Further, the Project Proponent vide Lr. CCCPL /KRP-SEN/EC-02 Dt: 28.12.2022 has informed that they have decided not to pursue further the process of obtaining EC since they have decided to surrender the mining lease to IBM and has submitted Final Mine Closure Plan in order to close the mine properly. The last permit was issued on 22.12.2016. In view of these, the proponent has requested SEIAA to dispose of their application seeking EC.

In view of the above, SEAC decided that the PP shall furnish documentary evidences in the forthcoming SEAC meeting so as to consider their request for withdrawal of said proposal seeking EC under 'Non-violation' category.

4. Subsequently, the proposal was placed in the 586th Authority meeting held on 27.01.2023. The Authority, after detailed discussions decided to request Member Secretary, SEIAA to communicate the minutes of 341st SEAC to the project proponent. The proponent shall submit the details sought by SEAC within 3 months from the date of this meeting. If reply not furnished within the stipulated time, MS-SEIAA may initiate action under provisions of Section 19 of the Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.

Now, the proposal was placed in the 368th SEAC meeting held on 19.04.2023. During the meeting the PP has committed & requested that "they are not going to operate the mine and hence requested for Public hearing exemption".

Based on the presentation made by the proponent, SEAC decided to recommend for grant of Terms of Reference (ToR) under Violation category without Public Hearing, along with submission of assessment of ecological damage, remediation plan and natural and community resource augmentation plan, as per Notification vide S.O.804(E) Dt. 14.3.2017.


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1. The proponent shall discuss the funds for mitigation measures to be included in the EMP.
2. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Necessary data and documentation in this regard may be provided.
3. In the case of proposed lease in an existing (or old) quarry where the benches are non-existent (or) partially formed critical of the bench geometry approved in the Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the 'highwall' benches to ensure slope stability in the proposed quarry lease which shall be vetted by the concerned Asst. Director of Geology and Mining, during the time of appraisal for obtaining the EC.
4. Details of Green belt & fencing shall be included in the EIA Report.
5. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
6. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines.
 - What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - Quantity of minerals mined out.
 - Detail of approved depth of mining.
 - Actual depth of the mining achieved earlier.
 - If EC and CTO already obtained, the copy of the same shall be submitted.


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- Whether the mining was carried out as per the approved mine plan (or EC if issued).
7. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
 8. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc..
 9. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
 10. The Project Proponent shall provide the details of mine closure activity proposed including details of re-greening re-grassing proposed.
 11. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the operations scientifically and systematically in order to ensure safety and to protect the environment.
 12. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
 13. The Proponent shall carry out the Cumulative Impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.

14. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
15. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
16. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
17. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
18. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
19. Impact on local transport infrastructure due to the Project should be indicated.
20. A tree survey study shall be carried out (nos., name of the species, age, diameter etc..) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
21. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
22. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
23. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the

importance of preserving local flora and fauna by involving them in the study, wherever possible.

24. 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.
25. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
26. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
27. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
28. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
29. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the

proposed remedial measures should be detailed along with budgetary allocations.

30. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
31. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
32. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
33. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
34. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
35. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda No: 368-06

(File No: 9286/2022)

Proposed Black Granite Quarry lease over an extent of 2.11.0 Ha at S.F.Nos. 203/1B (Part), 204/2B (Part) and 206/1B of Periyagoundapuram Village, Vazhapadi Taluk, Salem District, Tamil Nadu by Thiru. M. Ponnambalam - For Environmental Clearance. (SIA/TN/MIN/274479/2022 Dt. 24.05.2022)

The proposal was placed in 368th SEAC meeting held on 19.04.2023. 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. Ponnambalam has applied for Environmental


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Clearance for the proposed Black Granite Quarry lease over an extent of 2.11.0 Ha at S.F.Nos. 203/1B (Part), 204/2B (Part) and 206/1B of Periyagoundapuram Village, Vazhapadi Taluk, Salem District, Tamil Nadu.

2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, the proposal was placed in the SEAC meeting held on 01.09.2022. Based on the presentation made by the proponent, SEAC decided to call for additional details

1. The proponent is requested to furnish the DFO letter stating the proximity distance from nearest RF, WLS etc., within 25 KM radius distance
 2. The proponent must submit the certified compliance report.
 3. The proponent is requested to carry out a survey and enumerate on the structures located within 50m, 100m, 200m and 300m from the boundary of the mine lease area.
4. Subsequently, the proposal was placed in the 553rd Authority meeting held on 21.09.2022. Further, Authority decided to call for details in addition to SEAC
 1. Impact of mining on Agriculture and horticulture.
 2. Will the activity of mining jeopardise farming activity and animal husbandry.
 3. As per the G.O. (3D) No.19 Dated: 16.04.2015 – Grant of Mine Lease under Para 4 sub point 3) The applicant should not do blasting for quarrying so that there will be no damage to the E.B. line passing nearby. Only chisel and wire saw should be used for granite cutting. Further, the proponent had submitted in Hard copy along with the approved mining plan as annexure XV under the heading "Blasting Work Contract Agreement 22nd Day of September 2020".

The proponent is requested to furnish the details regarding the reason for signing blasting contract.

In view of this, the Authority decided to accept the decision made by SEAC and decided to request the Member Secretary, SEIAA to communicate the minutes of 308th SEAC meeting to the project proponent.

Now, the proposal was placed in the 368th SEAC meeting held on 19.04.2023. Based on the documents & presentation made by the PP, SEAC decided to defer the proposal for want of following details.

1. The proponent shall submit the certified compliance report from the IRO, MoEF & CC, Chennai for the earlier EC obtained.

Agenda No: 368 - 07

(File No: 9217/2022)

Proposed Expansion of Premium Residential Complex Jain's 'ATULYA SRISTI' at S.Nos. 124/2B1, 2B2, 3A, 3B, 3C, 3D, 124/4A, 4B, 4C, 4D, 4E, 4F, 5A, 5B, 5C, 124/6, 7, 8A, 8B, 8C, 9, 10, 11, 12, 13, 124/14A, 14B, 15, 16A, 16C, 127/3, 4B, 130/15A, 15B, 15C of Polachery Village, Tiruporur Taluk, Chengalpattu District, Tamil Nadu by M/s. Jain Housing and Constructions Ltd - For Environmental Clearance (SIA/TN/MIS/262482/2022 dated 25.03.2022)

The proposal was placed in the 368th SEAC Meeting held on 19.04.2023. 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. Jain Housing and Constructions Ltd has applied for Environmental Clearance for the Proposed Expansion of Premium Residential Complex Jain's 'ATULYA SRISTI' at S.Nos. 124/2B1, 2B2, 3A, 3B, 3C, 3D, 124/4A, 4B, 4C, 4D, 4E, 4F, 5A, 5B, 5C, 124/6, 7, 8A, 8B, 8C, 9, 10, 11, 12, 13, 124/14A, 14B, 15, 16A, 16C, 127/3, 4B, 130/15A, 15B, 15C of Polachery Village, Tiruporur Taluk, Chengalpattu District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 8(a) " Building and Construction projects " of the Schedule to the EIA Notification, 2006.
3. The proponent was issued with EC vide Lr. No.SEIAA/ TN/ F.500/EC/ 8(a)/250/ 2013 dated.04.03.2014 for plot area of 38606.47m² and built-up area 81070.03m² with Stilt + 4 floors in 16 blocks configuration.
4. Till date, only one block was constructed and another block was initiated, but due to poor market conditions coupled with financial constraints, no further progress was made on the project.
5. With the market conditions showing signs of improvement, the project initialization is proposed along with the expansion of the earlier EC threshold.

6. Earlier, the proposal was placed in 310th SEAC meeting held on 14.09.2022. Based on the presentation and document furnished by the project proponent, SEAC decided to call for the following details from the project proponent for further processing the proposal:

1. The project proponent shall obtain CTE from TNPCB for the constructed block and furnish the same.
2. The project proponent shall furnish a proper comparison statement clearly indicating the differences/variations between earlier EC proposal and the current proposal for expansion.
3. The project proponent shall furnish a commitment letter obtained from Thiruporur municipality for water supply.
4. The project proponent shall carry out cleaning works in the proposed project site and provide proofs for the same.
5. The project proponent shall develop green belt as proposed and provide proofs for the same.
6. The board of the project proponent company shall formulate and adopt an Environmental Policy and also create a senior position in the company to implement that policy.
7. The project proponent shall make arrangements in the OSR area or inside the site for storing the treated water in percolation pits, etc. so that the water is not let out from the site.

The proponent furnished the above details to SEIAA-TN on 15.02.2023. In this regard, the proposal is again placed in this 368th SEAC meeting. The salient features of the proposal are as follows:

Sl.No	Description	As Per Earlier EC	Proposed Expansion	Total After Expansion
1	Total Plot Area Sq.m	38,606.47	-	38,606.47
2	Total Built up Area, Sq.m	81,070.03	-	98,937.34


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3	Building Configuration	Blocks 1-16- Stilt floor (Parking + 4 Floors)	One Floor Addition	Blocks 1-16- Stilt floor (Parking) + 5 floors
4	Project Cost, INR Crores	42.69	88.22	130.91
5	Type of Flats	2 BHK and 3 BHK	2 BHK	2 BHK
6	Total No of Residential Dwellings, Nos.	720	620	1340
7	FSI Permissible,	1.8	0.8	2.6
8	FSI Achieved	1.69	0.42	2.11
9	Permissible FSI Area, Sq.m	69,491.65	30,885.17	1,00,376.82
10	FSI Area Achieved, sq.m	65,173.20	16,241.65	81,387.85
11	Number of Occupants	3960	1023	4983
12	Total Water Requirement, KLD	508	430	938
13	Total Freshwater Requirement, KLD	328	281	609
14	Fresh Water Source	CGWA	Thiruporur Municipality	Thiruporur Municipality


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15	Treated Sewage for Reuse, KLD	180	150	330
16	Wastewater Generation, KLD	421	405	826
17	STP Capacity, KLD	465	385	850
18	Total Treated Sewage from STP Outlet, KLD	241	544	785
19	Treated Water for Flushing, KLD	166	143	309
20	Gardening, KLD	14	7	21
21	Excess Treated Sewage, KLD	241	214	455
22.	Disposal of Excess Treated Water	Thiruporur Panchayat Avenue Plantation and Parks	-	Thiruporur Panchayat Avenue Plantation and Parks
23.	Total Municipal Solid Waste Generated, MT/day	2.34	2.08	4.42
24.	Biodegradable, MT/day	1.43	1.22	2.65
25.	Non-Biodegradable Waste, MT/day	0.95	0.82	1.77



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26.	Bio Sludge from STP. Kg/Day	48	22	70
27.	Power Requirement. kVA	4250	1250	5500
28	DG, KVA	2 No's - 100 kVA, 2 No's - 125 kVA & 1 No's of 62.5	-	2 No's -100 kVA, 5 No's - 125 kVA & 1 No's of 140
29	Solar Power, %	0.5	1.5	2.0
30	Parking Requirement, ECS	396	228	624
31	Two-Wheeler parking	405	1035	1440
32	Covered Parking Area, Sq.m	15,671.65	1,877.86	17,549.51
33	Open parking Area, Sq.m	1,765	-	-
34	Green Belt, Sq.m	3,870.36	2,032.74	5,903.1

The other salient features are:

S.No	Particulars	Description
1	Name of the Project	Expansion of Residential Building 'ATULYA SRISTI' by M/s. Jain Housing and Constructions Ltd


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2	Location	124/2B1, 2B2, 3A, 3B, 3C, 3D, 124/4A, 4B, 4C, 4D, 4E, 4F, 5A, 5B, 5C, 124/6, 7, 8A, 8B, 8C, 9, 10, 11, 12, 13, 124/14A, 14B, 15, 16A, 16C, 127/3, 4B, 130/15A, 15B, 15C of Polachery Village, Tiruporur Taluk, Chengalpattu District, Tamil Nadu.					
	Latitude & longitude	12°50'33.7"N 80°11'05.2"E					
3	Type of Project	B2 Category 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006					
4	Brief Description about the project	S. No.	Project Land Use - Description	Existing (m ²)	Area Coverage (%)	After expansion (m ²)	After Expansion, Area Coverage (%)
		1	Buildings – Ground Coverage	16,168.97	41.88	16,277.57	42.16
		2	Roads and Pathways	12,466.25	32.29	12,355.09	32.0
		3	Green Belt Area	5,860.54	15.18	5,903.1	15.29
		4	Open Space Reserve (OSR)	3,863.00	10.01	3,863	10.01
		5	STP Area/ SWM Area	247.71	0.64	247.71	0.64
			Total Area	38606.47	100	38606.47	100
5	STP Details	STP Capacity – 850 KLD					
		STP UNIT PARTICULARS		QTY	DIMENSIONS- 850KLD		
		Bar Screen Chamber		1 Each	1.5m*1m*1.3m		
		Equalization Tank		4	4.6m(L)*5m(W)*3.5m		

			Moving Bed Bio Reactor	4	4.9m(L)*3.5m(W)*3.5m
			Secondary Settling Tank	2	4.9m(L)*3.5m(W)*3.5m
			Clarified Water Tank	2	4.9m(L)*4.2m(W)*3.8m
			Pressure Sand Filter	1	2000m Dia, 2500 Ht
			Activated Carbon Filter	1	2000m Dia, 2500 Ht
			Ultrafiltration	1 set	40 m3/hr
			UV Disinfection	1 set	40 m3/hr
			Filter Press	1	4-5 m3/hr
			Treated Water Tank	2	4.9m(L)*4.2m(W)*3.8m
6	Mode of Disposal of treated sewage with quantity	Treated wastewater – 784 KLD i) Avenue Plantation – 454 KLD ii) Flushing – 309 KLD iii) Gardening – 21 KLD			
7	Rainwater harvesting	Particulars	Pre-development Plot Area	Post - development Rooftop Area Road and other paved area Landscape Area	
		Area (m²)	38606.47	16277.57	12355.09 5903.1
		Runoff Coefficient	0.3	0.9	0.7 0.3
		Rainfall (mm/hr)	100	100	100 100
		Runoff (m³/sec)	0.032	0.041	0.024 0.005


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		Total Runoff (m³/sec)	0.032	0.070		
		Incremental Runoff (m³/sec)		0.070-0.032 = 0.038		
		Potential volume for RWH from roof top (15 min)		2214m³		
		Rain water holding sump provided 4 x 500 KL = 2000 KL will be provided				
8	Solid waste details	S. No.	Description	Quantity (MT/day)	Biodegradable (MT/day)	Non-Biodegradable (MT/day)
		1	Waste from Residential Development	4.42	2.65	1.77
		2	STP Sludge	70 kg/day		
		The Segregated Organic Waste of 2650 kg/day will be bio-mechanically treated in the 6 number of 500 kg capacity OWC machine.				
9	EMP	1) Construction Phase – 100 lakhs 2) Operational Phase: a) Capital – 358 Lakhs b) Recurring – 67 Lakhs				

Based on the presentation and documents furnished by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the following specific conditions in addition to normal conditions stipulated by MOEF&CC,

1. The proposal should achieve a minimum of IGBC Gold green building norms and shall obtain IGBC certificate.
2. The height of the stacks of DG sets shall be provided as per the CPCB norms.
3. The proponent shall ensure that DG sets are run on green energy sources Instead of Diesel.
4. The Project Proponent shall adopt IGBC Net Zero Water System.


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5. The Project Proponent shall provide STP of capacity 850 KLD and treated water shall be utilized for flushing, green belt and avenue plantation as committed.
6. The Project Proponent shall analyse the treated wastewater samples periodically through TNPCB.
7. The Project Proponent shall provide Organic Waste Converter and the generated manure shall be used for Green belt development as committed.
8. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to TNPCB before obtaining CTO.
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 shall 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 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. 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 with 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.
13. The unit shall ensure the compliance of land use classification fit for construction.
14. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed.


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15. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
16. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
17. 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.
18. 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.
19. No waste of any type is to be disposed of in any other way other than the approved one.
20. 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.
21. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines.
22. 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.
23. 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.

24. Solar energy should be at least 25% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting 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 the EMP as committed.

Agenda No. 368-08

(File No. 9526/2022)


Proposed Expansion of Existing Steel melting Plant & Rolling Mill at S.F.No.110/1A, 110/1B & 110/2 of Annandanapatti Rural Village, Salem South Taluk, Salem District, Tamil Nadu by M/s. Sonal Vyapar Private Limited - For Terms of Reference (SIA/TN/IND1/403419/2022 Dt. 18.10.2022)

The proposal was placed in the 368th SEAC Meeting held on 19.04.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent M/s. Sonal Vyapar Private Limited has applied for Terms of Reference for the Proposed Expansion of Existing Steel melting Plant & Rolling Mill at S.F.No.110/1A, 110/1B & 110/2, Annandanapatti Village, Salem South Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 3(a) "Metallurgical industries (ferrous & non-ferrous)" of the Schedule to the EIA Notification, 2006.
3. Earlier, the proposal was placed in the 345th meeting of SEAC held on 10.01.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to consider the proposal after obtaining the following details from the project proponent:
 - i. The proponent shall furnish documentary evidence showing the actual production details of the last ten years.

Based on the presentation made by the proponent and the documents furnished, the SEAC decided to prescribe TOR for the preparation of Detailed EIA report along with Public Hearing. The Detailed EIA shall include standard ToR along with the following


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additional ToR:

1. The proponent shall furnish the production details submitted to the Commercial Tax department for the last 5 years.
2. The project proponent shall furnish details on the health card provided to the workers.
3. The proponent shall furnish videos showing the entire premises including entire process.
4. The PP shall study in detail various operational measures to reduce the specific energy consumption in induction furnaces.
5. The proponent shall furnish details on the idling period provided.
6. The proponent shall furnish details on measures adopted for better and efficient operation of melting & charging.
7. The proponent shall furnish details on the control measures adopted during heat finishing and tapping.
8. The proponent shall study in detail about operational control measures to Minimize and control the refractory wall wearing.
9. The proponent shall explore the possibilities of utilizing state of the art technology with best global practice.
10. The proponent shall explore the possibilities of utilizing the treated wastewater instead of fresh water.
11. The proponent must increase the Solar and Wind Energy sources and must explore the possibilities of achieving Net Zero energy consumption.
12. The proponent shall submit the copy of the consent to operate and the latest renewal consent order obtained from the TNPCB.
13. The proponent shall submit the compliance report from TNPCB for the conditions imposed in the consent order issued by the TNPCB.
14. The Environmental pollution control measures taken to deal with Air pollution, effluent generation and slag generation should be discussed in detail.
15. The project proponent has to strengthen the air pollution control measures of the existing system and furnish an adequacy report on the revamped system from a reputed institution like Anna University or IIT, Madras along with the

EIA report. The revamping of the existing air pollution control measures should include the interlinking of the position of the hood system and furnace to ensure that the emission from the furnace shall be treated and routed through wet scrubber and stack.

16. The proponent shall submit the video and photograph of the operational details with particular reference to points of pollution in the existing plant.
17. Material balance and Water balance shall be furnished in accordance with MoEF&CC guidelines.
18. A detailed report on Solid waste & hazardous waste management shall be furnished.
19. Report on AAQ survey and proposed air pollution prevention and control measures shall be furnished in the EIA report.
20. The project proponent shall do the stoichiometric analysis of all the involved reactions to assess the possible emission of air pollutants in addition to the criteria pollutants, from the proposed project.
21. Adequacy report for ETP & STP for the proposed project obtained from any reputed Government institution such as IIT, Anna University, NIT shall be furnished.
22. Land use classification shall be obtained from the DTCP for the Survey Numbers of this project. Further, the project proponent shall submit the planning permission obtained from the DTCP, if any.
23. The proponent shall conduct the EIA study and submit the EIA report for the entire campus along with layout and necessary documents such as "A" register and village map.
24. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
25. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.

26. The PP shall produce/display the EIA report, executive summary and other related information with respect to public hearing in Tamil.
27. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purposes involved in the project.
28. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
29. The project proponent shall explore the possibilities of treating and utilizing the trade effluent and sewage within the premises to achieve Zero liquid discharge.
30. The layout plan shall be furnished for the greenbelt area earmarked with GPS coordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should be not less than 15 % of the total land area of the project.
31. As the plant operation involves sensitive processing, the medical officer and the supporting staff involved in the health center activities shall be trained in occupational health surveillance (OHS) aspects through outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
32. The proposal for Roof Top solar panel shall be included in the EIA Report.
33. 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 furnish the detailed EMP.

Agenda No: 368-09

(File No: 9590/2022)

Proposed construction of Residential Multistoried Development 'Kochar Jewel' at S.Nos. 94 & 108/1 of Velachery Village, Velachery Taluk, Chennai District, Tamilnadu by M/s. Kochar Properties Pvt. Ltd - For Environmental Clearance.

(SIA/TN/INFRA2/407076/2022, dated 21.11.2022)

The proposal was placed in the 368th SEAC Meeting held on 19.04.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:


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1. The Project Proponent, **M/s. Kochar Properties Pvt. Ltd** has applied for Environmental Clearance for the Proposed construction of Residential Multistoried Development 'Kochar Jewel' at S.Nos. 94 & 108/1 of Velachery Village, Velachery Taluk, Chennai District, Tamilnadu.
2. The project/activity is covered under Category "B" of item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, the proposal was placed in 345th SEAC meeting held on 10.01.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to consider the proposal after obtaining the following details from the project proponent:
 - i) Since the proposed site lies close to near Guindy National Park, the proponent shall furnish a letter obtained from the Wildlife Warden, Guindy indicating the exact distance of the proposed site from the boundary of Guindy National Park.

On receipt of the above details from the proponent, the proposal is again placed in this 368th SEAC meeting for appraisal.

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

S. No	Description	Details
1.	Name of the Project	Proposed Residential Multistoried development 'Kochar Jewel' by M/s Kochar properties Pvt Ltd.
2.	Location	Survey no. 94 & 108/1 Door No: 336 & 338 (Old No: 45 & 45A) Velachery Village & Taluk District: Chennai State: Tamil Nadu
3.	Type of Project	8 (a)- Building and Construction Project

4.	Latitude & Longitude	S No	Latitude(N)	Longitude(E)		
		1	12°58'42.91"N	80°13'11.24"E		
		2	12°58'43.03"N	80°13'15.01"E		
		3	12°58'43.07"N	80°13'15.97"E		
		4	12°58'41.70"N	80°13'16.02"E		
		5	12°58'41.68"N	80°13'11.18"E		
5.	Total Plot Area (in sq. m)	As per site		5734.27 Sq.m		
		As per patta		5785.56 Sq.m		
		As per document		5665.60 Sq.m		
6.	Brief description of the project	Particular		Quantity (Sq.m)	(%)	
		Plot area		5,734.27 (1.42 acres)	100	
		Ground coverage		2092.59	36.49	
		Greenbelt area		868.23	15.14	
		OSR		566.56	9.88	
		Road & Paved area		2206.89	38.49	
7.	Built up area	Floors	2.5 BHK	2 BHK	3 BHK	Built-up Area (Sq.m)
		Basement	Nil	Nil	Nil	3,068.33
		Ground floor	Nil	Nil	Nil	2,092.59
		1 st Floor	4	4	Nil	1,950.65

		2 nd Floor	4	4	2	1,586.81	
		3 rd Floor	4	4	2	1,586.81	
		4 th Floor	4	4	2	1,586.81	
		5 th Floor	4	4	2	1,586.81	
		6 th Floor	4	4	2	1,586.81	
		7 th Floor	4	4	2	1,586.81	
		8 th Floor	4	4	2	1,586.81	
		9 th Floor	4	4	2	1,586.81	
		10 th Floor	4	4	2	1,586.81	
		Terrace	Nil	Nil	Nil	328.7	
		Total	40	40	18	21,721.58	
8.	Cost of Project	Rs. 44.85 Crores					
9.	a) Water requirement (in KLD)	Description	Quantity (KLD)	Source			
		Freshwater requirement (Domestic & Visitor)	36.25	CMWSSB			
		Treated sewage for toilet flushing	18.5	Treated sewage			
		Treated sewage for green belt	12	Treated sewage			

		Car wash	4	Treated sewage				
		Excess treated water	16.62	Treated sewage (Un-utilized water left shall be discharged to public sewerage system)				
10.	Quantity of Sewage KLD	Construction Phase: 4 KLD Operation Phase: <table><tr><td>Wastewater generation (KLD)</td><td>Treatment method</td></tr><tr><td>51.12</td><td>STP with a capacity of 60 KLD</td></tr></table>			Wastewater generation (KLD)	Treatment method	51.12	STP with a capacity of 60 KLD
Wastewater generation (KLD)	Treatment method							
51.12	STP with a capacity of 60 KLD							
11.	Details of Sewage Treatment Plant	STP Capacity – 60 KLD						
12.	Mode of Disposal of treated sewage with quantity	i. Toilet Flushing – 18.5 KLD ii. Car Wash - 4KLD iii. Green belt Development - 12 KLD iv. Excess treated water – 16.62 KLD (will be discharged to public sewerage system after getting proper approval)						
13.	Quantity of Solid Waste generated per day. Mode of treatment and Disposal of Solid Waste	Waste	Quantity in (Kg/day)	Collection Method	Treatment / disposal method			
		Inorganic	101	Bins	Will be disposed to authorized vendors			
		STP dried Sludge	6	Bins	Will be used as Manure for Greenbelt development			
		Organic	151.5	Bins	Will be converted into manure by OVC and it			

					will be used for Greenbelt development.								
		DG bottom sludge (Kg/year)	135	Plastic barrel	Will be disposed through authorized local vendors								
14.	Power requirement	<table><tr><td>Description</td><td>Total</td></tr><tr><td>Power requirement (kVA)</td><td>1250 kVA</td></tr><tr><td>DG sets (kVA)</td><td>2x250kVA</td></tr><tr><td>Fuel (DIESEL)</td><td>0.2 KLD</td></tr></table>				Description	Total	Power requirement (kVA)	1250 kVA	DG sets (kVA)	2x250kVA	Fuel (DIESEL)	0.2 KLD
Description	Total												
Power requirement (kVA)	1250 kVA												
DG sets (kVA)	2x250kVA												
Fuel (DIESEL)	0.2 KLD												
15.	Details of D.G. set with Capacity	DG set – 2x250 kVA with a stack height of 36.5m (individual stack).											
16.	Details of Green Belt Area	868.23 Sq.m (15.14%)											
17.	Details of Parking Area	<table><tr><td>Vehicles</td><td>Proposed</td></tr><tr><td>Car parking (Nos)</td><td>128</td></tr><tr><td>Two-wheeler parking (Nos)</td><td>83</td></tr></table>				Vehicles	Proposed	Car parking (Nos)	128	Two-wheeler parking (Nos)	83		
Vehicles	Proposed												
Car parking (Nos)	128												
Two-wheeler parking (Nos)	83												
18.	Provision for rain water harvesting	<p>The volume of rainwater available for harvesting i.e., after first flush of water – 63.92 cu.m (90%)</p> <p>The rainwater runoff will be diverted to roof top water collection sump of 70 Cu.m</p>											

19.	EMP Cost (Rs.)	<u>Environmental Management Budget Allocation</u> Capital Cost – Rs. 185.5 Lakhs Operating Cost – Rs. 12.7 Lakhs <u>Environmental Monitoring Plan</u> During Construction Phase – Rs. 2,42,400 / annum During Operation Phase – Rs. 3,25,600 / annum
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Based on the presentation and documents furnished by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the following specific conditions in addition to normal conditions stipulated by MOEF&.CC,

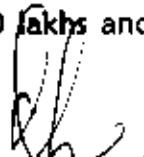
1. The proposal should achieve a minimum of IGBC Gold green building norms and shall obtain IGBC certificate.
2. The proponent shall explore the possibilities of increasing the green belt area by utilizing the area available under solar panels.
3. The pavements provided inside the project site should be permeable such that the rainwater drains into the OSR area.
4. The height of the stacks of DG sets shall be provided as per the CPCB norms.
5. The proponent shall ensure that DG sets are run on green energy sources instead of Diesel.
6. The Project Proponent shall adopt IGBC Net Zero Water System.
7. The Project Proponent shall provide STP of capacity 60 KLD and treated water shall be utilized for flushing, green belt and car washing as committed.
8. The Project Proponent shall analyse the treated wastewater samples periodically through TNPCB.
9. The Project Proponent shall provide Organic Waste Converter and the generated manure shall be used for Green belt development as committed.
10. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to TNPCB before obtaining CTO.
11. 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 shall be let out of the premise without prior approval from competent authority.

12. 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.
13. 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. 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.
14. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted with 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.
15. The unit shall ensure the compliance of land use classification fit for construction.
16. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed.
17. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.

18. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
19. 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.
20. 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.
21. No waste of any type is to be disposed of in any other way other than the approved one.
22. 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.
23. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines.
24. 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.
25. 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.
26. Solar energy should be at least 25% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
27. 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.
28. As accepted by the Project Proponent the CER cost is Rs. 100 lakhs and the


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amount shall be spent for the following activities as committed by the proponent before CTO from TNPCB.

S. No	CER Activities	Amount (in Lakhs)
1.	Government Higher Secondary School- Dhrowpathy Amman Kovil Street, Velachery. <ul style="list-style-type: none"> • Painting of entire school • Sanitation facility & drinking water plant • Library & Solar lighting • Sanitary napkin incinerator • Construction of hand washing system • Avenue Plantation along the school boundary 	30
2.	Government Higher Secondary School- Velachery Road, Pallikaranai <ul style="list-style-type: none"> • Painting of entire school • Sanitation facility & drinking water plant • Library & Solar lighting • Sanitary napkin incinerator • Construction of hand washing system • Avenue Plantation along the school boundary 	30
3	Conservation measures in Guindy National Park in consultation with the Wildlife Warden, Guindy	20
4	Development of Aquatic Complex - Sports Development Authority of Tamilnadu, Velachery	20
Total		100 Lakhs

Agenda No: 368-10

(File No: 6355/2017)

Proposed Limestone Mine over an extent of 3.07.0 Ha in S.F.No. 132/1 and 132/3(P) at Panamooanpatti Village of Usilampatti Taluk, Madurai District, Tamil Nadu by Tmt.B.Thiraviyam- For Environmental Clearance. (SIA/TN/MIN/64391/2018 dated: 12.07.2021)


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Earlier, this proposal was placed in 265th Meeting of SEAC held on 21.04.2022. The details of the minutes are available in the website (www.parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Tmt.B.Thiraviyam has applied for Environmental Clearance for the proposed Limestone Mine over an extent of 3.07.0Ha at S.F.No. 132/1 and 132/3(P), Panamoopanpatti Village, Usilampatti Taluk, Madurai District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. ToR was issued vide Lr.No. SEIAA – TN/F.No.6355/2018/ToR-597/2019, Dated: 11.01.2019.
4. Public hearing was conducted on 23.02.2021.
5. As per the mining plan, the lease period is for 20 years. Production for Five years, 3.123MT of production @30% & 7,287MT of rejects @70% & 2498m³ of Topsoil with an ultimate depth of mining 13m BGL. The annual peak production is 729 MT of Limestone (3rd & 4th year) of production, 1701 MT of rejects (3rd & 4th year).

The proposal was again placed in 336th SEAC meeting held on 07.12.2022.

The SEAC noted that the PP has applied 3 ToR files in online as mentioned below:

Online File No	ToR / EC	Application Category	Remarks
23622	ToR	Under Violation category	Under Process
27418	ToR	Under Violation category	Under Process
29371	ToR	Without Violation	ToR Issued

Based on the documents available and the presentation made by the PP, SEAC decided to call for the additional details to process the proposal further.

- a. PP and the EIA Coordinator shall furnish explanation for the filing of multiple applications for same project.
- b. The PP shall furnish a letter from AD (Mines) stating that the PP has not committed any violation earlier.

c. PP shall withdraw all the above three proposals.


Now the proposal was placed in 368th SEAC meeting held on 19.04.2023.

The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

Sl.No	SEAC Query	Reply by PP
1.	PP and the EIA Coordinator shall furnish explanation for the filing of multiple applications for same project.	Initially we applied online application for Grant of ToR under violation case based on the MoEF & CC Notification No.S.O. 804(E) dated 14.03.2017. Later, PP furnish the letter obtained from Department of Geology and mining for he has not committed any violation. Accordingly, again we applied ToR application under Non- Violation case and we got ToR Conduct PH. Prepared Final EIA report for grant of Prior Environmental Clearance.
2.	The PP shall furnish a letter from AD (Mine, stating that the PP has not committed any violation earlier.	The letter obtained from Department of Geology and mining and submitted to SEIAA office on 30.01.2023.
3.	PP shall withdraw all the above three proposals.	The another two proposals have been withdrawn.

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Tmt. B. Thiraviam W/o. Boss No.9/1/22A, T.B. Road Usilampatti Madurai - 626532


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2	Type of quarrying	Limestone
3	S.F No. of the quarry site	132/1 and 132/3(P)
4	Village in which situated	Panamooanpatti
5	Taluk in which situated	Usilampatti
6	District in which situated	Madurai
7	Extent of quarry (in ha.)	3.07.0 Ha
8	Latitude & Longitude of all corners of the quarry site	10°02'53.79" to 10°03'01.57"N 77°51'02.7" to 77°51'10.90"E
9	Topo Sheet No.	58 F/16
10	Type of mining	Open cast- Manual method
11	Period of current mine plan	5 Years
12	Production (Quantity in m3)	As per the mining plan, the lease period is for 20 years. Production for Five years, 3,123MT of production @30% & 7,287MT of rejects @70% & 2498m3 of Topsoil with an ultimate depth of mining 13m BGL. The annual peak production is 729 MT of Limestone (3rd & 4th year) of production, 1701 MT of rejects (3rd & 4th year).
13	Depth of mining	13m BGL
14	Depth of water table	28m - 30m BGL.
15	Man Power requirement	25 Employees
16	Water requirement: 1. Domestic & Flushing 2. Dust suppression	6.5 KLD 2.0 KLD 2.5 KLD

	3. Green Belt	2.0 KLD
17	Power requirement	TNEB
18	Precise area communication approved by the Industries (MMD2) Department	GO.3(D) NO:124/Industries (MMD2) Department dated:31.07.1997
19	Review Mining Plan approved by the Regional controller of Mines IBM	TN/MDR/LST/MS -1140.MDS, Dated:01.12.2014
20	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	1123/2015-Mines dated 25/04/23
21	VAO certificate regarding habitations in 300m radius	13.04.23
22	Project Cost (excluding EMP)	Rs.36.78 lakhs
23	EMP cost	Rs.28.68 lakhs
24	ToR details	Lr. No. SEIAA-TN/F. No.6355/2018/TOR-597/2019 dated 11.01.2019.
25	Public hearing details	Public hearing was conducted on 23.02.2021.
26	EIA report submitted on	Dated: 27.07.2021
27	CER Cost	Rs.5 lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 3,123MT of production Limestone @30% & 7,287MT of rejects @70% & 2498m³ of Topsoil but not exceeding the annual peak production of 729MT of Limestone (3rd & 4th year) of production with maintaining an ultimate pit depth of 13m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


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1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. However, the execution of EC is subjected to grant of the deemed extension of the mining lease by the competent authority for the period of fifty years as per section 8 A of Mines and Minerals (Development and Regulation) (MMDR) Act, 1957, on and from the date of commencement of the MMDR Amendment Act, 2015 (w.e.f 12.01.2015).
3. 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.
4. The PP shall inform the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
5. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial/Refresher' training under Mines Vocational Training Rules 1961 in DGMS approved Group Vocational Training Centre, Trichy.
6. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the development activities from west to east direction keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
7. 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, shall install fencing and Garland drain before obtaining the CTO from the TNPCB.
8. 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).

9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
10. 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.
11. 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.
12. 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.
13. 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.
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 Govt School, Panamooanpatti Village as committed, before obtaining CTO from TNPCB.

Agenda No: 368-11

(File No: 6551/2018)

Existing Black Granite Quarry over an extent of 1.38.0 Ha. at S.F. Nos. 109/17, 109/25A1, 109/25B, 109/26B & 109/28 of Ulaglyanallur Village, Kallakurichi Taluk, Villupuram District, by Tmt. R. Bhuvaneshwari – For Environmental Clearance. (SIA/TN/MIN/27887/2018 Dated:25.06.2018)

Earlier, this proposal was placed in 115th Meeting of SEAC held on 28.06.2018. The details of the minutes are available in the website (www.parivesh.nic.in).

The SEAC noted the following:

1. The Mining lease was granted Vide letter G.O.(3D) No.27 dated 07.09.2009 of Govt. Of Tamilnadu for 20 Years for the period from 12.10.2009 to 11.10.2029.
2. The mining plan was approved by the Department of Geology & mining, Guindy, Chennai vide letter No.1141/MM5/2009, dated 20.08.2009 which was valid up to 11.09.2014.
3. The PP has applied for ToR and the application was treated under violation, since the mining operation was carried out without obtaining environmental clearance.
4. ToR was issued vide letter no. SEIAA-TN/F.No.6551/ToR-413/2018 dated 05.06.2018.
5. ToR amendment was issued vide letter no. SEIAA-TN/F.No.6551/SEAC – CXVIII/TOR – 413(A)/2018 dated 30.07.2018.

The project proponent made a presentation on the EIA study conducted. The members of SEAC interacted with the proponent regarding the environmental aspects


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of the project. The observations and recommendations of the SEAC regarding the project proposal are as follows:

1. In the presentation it was informed that there is no blasting activity involved. However in the EIA report (page no.17-21) it has been mentioned that the development of the quarry , removal of overburden will be done by blasting with explosives in drill holes by the jackhammer, further the quantities of the explosive to be used is also given. While informing about the employment potential provisions for drillers and blasters has also been indicated. Thus there is a contradiction regarding adoption of drilling and blasting activities for removing the overburden/side burden in the quarry. The proponent should clarify the above contradiction.
2. The proposed dumping area has been indicated in the plan. Since the quantity of waste generated will be of the order 85% the quantities which can be accommodated in the dumping area has not been worked out.
3. Specific mitigation augmentation for the dust pollution in the nearby nala (Mayura nadi) needs to be spelt.
4. The quarry working is proposed to a depth of 17m. As per CGWB the depth of water table is indicated at 20m. Necessary geo hydrological studies needs to be carried out and reported by undertaking geo physical testing and also drilling in the area if needed for ascertaining the depth of water table and also the quantity of yield in the mine. The study is recommended in view of the fact that the ground water table as stated by CGWB and the maximum depth of mining proposed are very close. Therefore there is a necessity to confirm the actual ground water table condition at the specific site.
After ascertaining the correct ground water table condition during the monsoon and summer, the proponent should plan the mining activity in such a manner that at no point of time the mining would intersect the ground water table.
5. The production and dispatch of Black Granite as indicated by the proponent needs to be authenticated by the department of Mines and Geology. For the years 2012 and 2013 it has been found that the production is more than the proposed quantity as per the mine plan.


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6. In chapter 4 of the EIA report, it is stated that the following environmental parameters are relevant for the proposed project: Air quality, Noise levels, Ground vibration, Water resources and Quality, Land use pattern, Soil quality, Flora and Fauna, Socio economic conditions and Occupational health. The deficiency in the description of the impact of the project on the above environmental parameters is as follows:
- a. Air quality : The impact on air quality has been predicted for particulate matter, SO₂ and NO_x using computer modelling. The results of the computer modelling should be verified and validated using field measurements of similar projects or from relevant studies reported in literature.
 - b. Noise levels : The sources of noise have been indicated but the impact on the background noise has not been predicted scientifically based on the different source of noise.
 - c. Ground vibration : Ground vibration effect has been completely ruled out in the report. But drilling will induce vibration which might have impact on the habitations nearby. This is to be ascertained scientifically and proper mitigation recommended.
 - d. Land Degradation : Even though land degradation is stated to be an adverse impact, there is no description of how the land degraded due to the mining activity.
 - e. Soil quality : The impact on the soil quality has not been described.
 - f. Flora and Fauna : The impact on flora and fauna due to the mining operation especially the land use, dust, noise and vibrations has been described but the description is very generic in nature. The proponent should describe only the impacts that are applicable to the project activity.
 - g. Occupational health : As part of the occupational safety and health, a periodical comprehensive health check up must be part of the environmental management plan for taking care of the adverse impacts of noise and dust. This has not been covered in the report.

The SEAC critically analyzed the EIA report with reference to the technical points that should be covered as per the ToR issued to the proponent. The observations of the SEAC with reference to the ToR compliance is as follows:

- a. ToR conditions specified in section (F) at page no.7 of ToR have not been complied with.
- b. For a few cases the proponent has merely stated that "Proper mitigation measures will be planned ". But they have not been specified in the report.


In view of the observations presented above, the SEAC decided to defer the project proposal of the proponent Smt. R. Bhuvaneshwari submitted for Environmental Clearance to SEIAA –TN on 26.06.2018 for mining of Black Granite over an extent of 1.38.0 Ha. at S.F. Nos. 109/17, 109/25A1, 109/25B, 109/26B & 109/28 of Ulagiyanallur Village, Kallakurichi Taluk, Villupuram District and direct the proponent to revise the EIA/EMP report in line with the SEAC observations and submit the same to SEIAA-TN for further necessary action.

Now the proposal was placed in 368th SEAC meeting held on 19.04.2023.

The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

Sl.No	SEAC Query	Reply by PP
1.	In the presentation it was informed that there is no blasting activity involved. However in the EIA report (page No.17- 21) is has been mentioned that the development of the quarry, removal of overburden will be done by blasting with explosives in drill holes by the jackhammer, further the quantities of the explosive to be used is also given. While informing about the employment potential provisions for drillers and blasters has also been indicated. Thus there is a contradiction	The Quarry was in operation from year 2009 to 10th January 2017. Initially for the development of the quarry and the removal of overburden / side burden we have used old practice of mining methods ie. drilling, controlled blasting in drill holes by the jackhammers. Hence our RQP declared the same in our initial mining plan


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	regarding adoption of drilling and blasting activates for removing the overburden/side burden in the quarry. The proponent should clarify the above contradiction.	Now that in the new scheme of mining plan for plan period 2019-20 to 2023-24, which was approved by Commissioner, Department of Geology and Mining, Vide Rc. No: 704/MM4/2023 dated: 17.02.2023 and stated that Blasting is done only if required .The RQP had cited our state of Blasting machineries from abroad to support blasting free quarrying. But the Proponent Tmt. R. Bhuvaneshwari is willing to give self declaration to add a clause condition while issuing EC that no blasting will be done and in violation of that clause the SEIAA Tamil nadu have a liberty to issue closure notice and we are bound to accept it unconditionally.
2.	The proposed dumping area has been indicated in the plan. Since the quantity of waste generated will be of the order 85% the quantities which can be accommodated in the dumping area has not been worked out	Agreed and Accepted. As per the 2 nd Scheme of Mining (2019-2024), a dumping area of 0.175 (Ha) is allocated (mentioned in Pg. no. 28).
3.	Specific mitigation augmentation for the dust pollution in the nearby nala (Mayura nadi) needs to be spelt	Mayura Nadi (seasonal stream) is about -95 meters towards North. We have provided 7.5 m safety distance within the project boundary and the project site. In addition to that 5m will be providing as safety distance towards North direction of the lease area. Dense Greenbelt will be developed with native species. Use of Italian Atlas Copco Rock Buggy machine with inbuilt 11/ h dust collecting

		system Use of Italian Atlas Copco Rock Buggy machine with inbuilt dust collecting system.
4.	The quarry working is proposed to a depth of 17m. As per CGWB the depth of water table is indicated at 20m. Necessary geo hydro geological studies need to be carried out and reported by undertaking geo physical testing and also drilling in the area if needed for ascertaining the depth of water table and also quantity of yield in the mine. The study is recommended in view of the fact that the ground water table condition at the specific site. After ascertaining the correct ground water table condition during the monsoon and summer, the proponent should plan the mining activity in such a manner that at no point the mining would intersect the ground water table	As per Report on Hydro geological investigation certified by the Department of Applied Geology, University of Madras, Guindy Campus, the ground water table is at 32m. Hence the proposed mining activity of 17m depth will not impact the ground water table.
5.	The production and dispatch of black granite as indicated by the proponent needs to be authenticated by the department of mines and Geology. For the years 2012 and 2013 it has been found that the production is more than the proposed quantity as per the mine plan	Firstly I wish to state that EC was not required for mining of minor minerals in areas less than 5 hectares prior to year 2016. Only after amendment in EIA notification no. S.O. 141(E) dated 15th January 2016 by the MOER we are coming under the purview of EC and that EC is mandatory after 15.1.2016 only for minor minerals. As per Section 3(e) of MMDR Act, Granite is a minor mineral. The observation mentioned is for year 2012 and 2013, I wish to submit that the quantity which we have lifted is authenticated by obtaining necessary permit

		from Mines and Geology Department after inspection and paying applicable seigniorage fees only. However, we are coming under purview of EC after 2016. The proponent never sold or transported blocks without any authentication by the mines department.
6.	<p>In chapter 4 of the EIA report, it is stated that the following environmental parameters are relevant for the proposed project: Air quality, Noise levels, Ground Vibration, Water resources and quality, Land use pattern. Soil quality, Flora and fauna, Socio economic conditions and Occupational health. The deficiency in the description of the impact of the project on the above environmental parameters is as follows:</p> <p>a) Air quality: The impact on air quality has been predicted for particulate matter, SO₂ and NO, using computer modelling. The results of the computer modelling should be verified and validated using field measurements of similar projects or from relevant studies reported in literature.</p> <p>b) Noise levels: The sources of noise have been indicated but the impact on the background noise has not been predicated scientifically based on the different source of noise.</p> <p>c) Ground Vibration: Ground Vibration effect has been completely ruled out in the</p>	<p>As per the minutes of 115th SEAC meeting, Air quality, Noise levels, Ground Vibration, Water resources and quality, Land use pattern. Soil quality, Flora and fauna. Socio economic conditions and Occupational health are modified in Chapter 4 of EIA report</p>

	<p>report. But drilling will induce vibration which might have impact on the habitations nearby. This is to be ascertained scientifically and proper mitigation recommended.</p> <p>d) Land degradation: Even though land Degradation is stated to be an adverse impact, there is no description of how the land degraded due to the mining activity.</p> <p>e) Soil quality: The impact on the soil quality has not been described.</p> <p>f) Flora and Fauna: The impact on flora and fauna due to the mining operation especially the land use, dust, noise and vibrations has been described but the description is very generic in nature. The proponent should describe only the impacts that are applicable to the project activity.</p> <p>g) Occupational health: As part of the occupational safety and health, a periodical comprehensive health checkup must be part of the environmental management plan for taking care of the adverse impacts of noise and dust.</p>	
7.	<p>The SEAC critically analyzed the EIA report with reference to the technical point that should be covered as per the ToR issued to the proponent. The observations of the SEAC with reference to the ToR compliance is as follows:</p>	<p>According to ToR conditions in section (F) NoC obtained from Department of Geology and Mining and complied with the conditions specified in section (F) of ToR.</p>

	<p>a) ToR conditions specified in section (F) at page no.7 ToR have not been complied with.</p> <p>b) For a few cases the proponent has merely stated that, "Proper mitigation measures will be planned". But they have not been specified in the report.</p>	
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During presentation, the PP made a representation to SEAC that public hearing may be waived for this proposal, in terms of latest Oms on the subject. SEAC after detailed discussions, decided to accept the PP's request for waiving of public hearing. Further, as the project comes under violation category, the Committee decided to make site inspection by a Sub-Committee to be constituted by SEAC. On receipt of the Inspection Report, the Committee will deliberate further and decide future course of action.

Agenda No: 368-12

(File No: 7398/ 2022)

Proposed Earth quarry lease over an extent of 1.98.5Ha at S.F.No. 998 of Madathupatti Village, Kadayanallur Taluk, Tirunelveli District, Tamil Nadu by Thiru. P. Karuppasamy - For Environmental Clearance. (SIA/TN/MIN/134518/2020 Dt.08.02.2021)

The proposal was placed in 252nd SEAC meeting held on 10.03.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

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

1. 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.
2. The proponent should produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers,


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streams, canals etc., and also does not come under any notified/declared protected zones in terms of the above Judgment.

Now the proposal was placed in 368th SEAC meeting held on 19.04.2023.

The EIA Co-ordinator informed that the precise area communication letter was obtained on 15.09. 2016 & Mining plan approval on 23.09. 2016.

Precise area communication letter and approved Mining plan is for 11months period only. In order to comply with the directions contained in DGM's letter No. 7240/MM6/2019 dt 30.7.2021, regarding lease period, the PP requested to defer the proposal. Hence the Committee decided to defer the proposal.

Agenda No: 368-13

(File No: 8378/2021)

Proposed Earth quarry lease over an extent of 2.88.5Ha at S.F.No.212/3 of Seepalakottai Village, Uthamapalayam Taluk, Theni District, Tamil Nadu by Thiru.G.Karthik- For Environmental Clearance. (SIA/TN/MIN/ 199357/2021 Dt. 22.02.2021)

The proposal was placed in 252nd SEAC meeting held on 10.03.2022. The details of the minutes are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.G.Karthik has applied for Environmental Clearance for the proposed Earth quarry lease over an extent of 2.88.5 Ha at SF.No. 212/3 of Seepalakottai Village, Uthamapalayam Taluk, Theni 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 the mining plan, the lease period is for 3 years. The production for three years states that 48,048m³ of Earth with an ultimate depth of mining 2m BGL. The Annual peak production is 16,016m³ of Earth (1st, 2nd & 3rd year).

Again the proposal was placed in 317th SEAC Meeting held on 06.10.2022.

Based on the presentation made by the proponent, SEAC noted that Srivilliputhur Megamalai Tiger Reserve (SMTR) is located at a distance of 6.5km. SEZ for the newly

merged SMTR has not yet been notified and hence by default 10km from the boundary is the deemed SEZ. The PP shall, therefore, obtain and submit NBWL clearance, before further examination of the proposal is taken up.

Now the proposal was placed in 368th SEAC meeting held on 19.04.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

The PP has furnished letter from DD, Megamalai Division addressed to Principal Chief Conservator of Forests (HoD), which states that the said area falls in Odaipatti section/Odaipatti Beat of Chinnamanur range and it is located at 1.20km away from Megamalai Reserve Forests. Hence the proposed site is outside the Eco-sensitive Zone of Megamalai Wildlife Sanctuary, i.e., 7.6km from the sanctuary.

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru.G.Karthik S/o.Ganesan No.46C/Ward-31,Sukangalpatti Road Cumbam, Udthamapalayam Taluk Theni District-625516
2	Type of quarrying	Earth
3	S.F No. of the quarry site	212/3
4	Village in which situated	Seepalakottai
5	Taluk in which situated	Uthamapalayam
6	District in which situated	Theni
7	Extent of quarry (in ha.)	2.88.5 Ha
8	Latitude & Longitude of all corners of the quarry site	09°50'40" N to 09°50'46"N 77°27'27"E to 77°27'33"E
9	Topo Sheet No.	58 G/5,6,9 &10
10	Type of mining	Open cast Semi mechanized Mining method
11	Period of current mine plan	3 Years
12	Production (Quantity in m3)	As per the mining plan, the lease period is for


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		3 years. The production for three years states that 48,048m ³ of Earth with an ultimate depth of mining 2m BGL. The Annual peak production is 16,016m ³ of Earth for (1 st year, 2 nd year & 3 rd year).
13	Depth of mining	2m BGL
14	Depth of water table	26m BGL
15	Man Power requirement	8 Employees
16	Water requirement:	1.0 KLD
	4. Domestic & Flushing	0.3 KLD
	5. Dust suppression	0.4 KLD
	6. Green Belt	0.3 KLD
17	Power requirement	TNEB
18	Precise area communication approved by the District collector Director, Dept. of G&M with date	Rc.No.173/Mines/2019,Dated:06.11.2019
19	Mining Plan approved by the Assistant Director(i/c), Dept. of Geology and Mining with date	Roc.No.173/Mines/2019,Dated:06.01.2020
20	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	Roc.No.173/Mines/2019,Dated:18.09.2020
21	VAO certificate regarding habitations in 300m radius	Letter Dated :13.12.2019
22	Project Cost (excluding EMP)	Rs.18,63,000
23	EMP cost	Rs.7.39 lakhs
27	CER Cost	Rs.2 lakhs

Based on the presentation & documents furnished, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production of 48,048m³ of Earth and the annual peak production shall not exceed 16,016m³ of Earth by maintaining an ultimate depth of mining of 2m BGL subject to the standard conditions

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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. However, the execution of EC is subjected to replacement of the term 'Earth' with the term 'Ordinary Earth' in all the relevant documents as per the TN G.O. No. 244, dated. 14.12.2022 as approved by the competent authority.
3. The statutory competent persons shall be appointed within the purview of the provisions of Mines Act 1952.
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 meticulously carry out the mitigation measures as spelt out in the revised EMP.
7. 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.
8. 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.

9. 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.
10. As accepted by the Project proponent the CER cost is Rs.2 lakhs and the amount shall be spent for the Government Primary School, Seepalakottai Village as committed, before obtaining CTO from TNPCB.

Agenda No. 368-14

(File No. 9429/2022)

Proposed Rough stone and gravel quarry lease over an extent of 2.02.0 Ha at S.F.Nos. 2196/1, 2196/2, 2196/3, 2198/1, 2198/2 and 2201 of Allinagaram Village, Theni Taluk, Theni District, Tamil Nadu by Thiru V. Sivaraman - for Environmental Clearance. (SIA/TN/MIN/286752/2022 dated 05.08.2022).

The proposal was placed in 332nd Meeting of SEAC held on 25.11.2022 and 577th Authority Meeting held on 14.12.2022 & 15.12.2022. 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. Sivaraman has applied for Environmental Clearance for the proposed Rough stone and gravel quarry lease over an extent of 2.02.0 Ha at S.F.Nos. 2196/1, 2196/2, 2196/3, 2198/1, 2198/2 and 2201 of Allinagaram Village, Theni Taluk, Theni 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 the mining plan, the lease period is for 5 years. Production for Five years states that 1,59,120m³ of rough stone & 7332m³ of Gravel with an ultimate depth of mining 27m BGL. The annual peak production is 32,890m³ of rough stone (4th year) & 6240m³ of Gravel (1st year).

The Authority noted that this proposal was placed for appraisal in 332nd meeting of SEAC held on 25.11.2022 and SEAC decided that,

- (i) The PP shall furnish certified compliance report.
- (ii) A letter from the concerned DFO stating the proximity distance of Agamalai RF, WLS etc., located within 25 Km from the project site.
- (iii) The PP shall complete the tree plantation along the safety barrier and the fencing.


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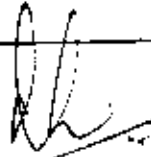
In view of the above, the Authority decided that the PP shall submit,

- (i) The impact of mining on biodiversity, agriculture and horticulture around the mining area, adjacent lands and land use.
- (ii) The impact on Ground water, surface water due to mining activity.
- (iii) Can the mining result in throughput of sulphides etc to result in H_2SO_4 affecting health and organisms.

Now the proposal was placed in 368th SEAC meeting held on 19.04.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC & SEIAA.

Sl.No	SEAC Query	Reply by PP
1.	The PP shall furnish certified compliance report.	We have obtained Certified compliance from Regional office MOEF& CC.
2.	A letter from the concerned DFO stating the proximity distance of Agamalai RF, WLS etc., located.	Letter has been received from DFO stating the proximity distance of Nearest Reserve forest Bodi North Hill Reserve forest at 1.10 Km.
3.	The PP shall complete the tree plantation along the safety barrier and the fencing.	Tree plantation and fencing has been carried out in the site.
4.	The impact of mining on biodiversity, agriculture and horticulture around the mining area, adjacent lands and land use.	<p><u>Bio – diversity</u></p> <p>> The core zone of the area is Patta Land, no forest land is involved in the project area. The area is covered by thorny bushes.</p> <p>> As per Wildlife Protection Act 1972, there is no Schedule I species of animals observed within the study area as well as no endangered red list species found in the study area as per IUCN.</p>


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➤ Kodaikanal wildlife sanctuary is located at a distance of 10.12 km from the project site area and Srivilliputhur Megamalai Tiger Reserve is located at a distance of 17.10 km from the project site area.

➤ The mining in the project site will not have any impact on the surrounding flora and fauna we have planned for the proper environmental Management during the execution of mining.

Agriculture

➤ The elevation of mining site is 275m above MSL and there is no agriculture practices for about 500m radius.

➤ The quarry will be operated during daytime and dust suppression measures will be done by water sprinkling.

➤ Greenbelt will be developed in periphery of project site. So, there will not be any adverse impacts on Agriculture and horticulture practices.

5. The Impact on Ground water, surface water due to mining activity.

The Ground Water levels from the 21 number of observation wells of TWAD have been analysed for Post-Monsoon and Pre-Monsoon. 5 years average Ground water level in m Below Ground Level for pre and post monsoon is as follows:

Jan 2017	Ma y 2017	Jan	Ma y	Jan 2019	Ma y 2019	Jan 2020	May 2020	Jan 2021	May 2021	5 Years Pre Monso on Averag e	5 Years Post Monso on Averag e
18.0	21.3	16.1	15.2	14.0	16.3	13.4	15.9	12.1	14.0	14.1	12.5

		(Source: TWAD Theni) The groundwater level is noticed at a depth of 53 to 56m. Presently the quarrying of Rough stone and Gravel is proposed depth is 37m BGL and hence, the quarrying operation may not affect the ground water and surface water in any circumstances. The nearest lake is situated at a distance of 2.5km and no lake is situated within 500m radius and so mining operation does not affect waterbodies.
6.	Can the mining result in throughput of sulphides etc to result in H_2SO_4 affecting health and organisms.	The proposed mining is open coast rough stone mine for the depth of 35 meters only, there will not be any release of sulphides to result H_2SO_4 release into the atmosphere and hence there will not be any impact in the proposed mining.

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru V Sivaraman S/o N Veerapathiran D.No.99, V.M. Savadi Street, Allingaram village Theni taluk Theni district
2	Type of quarrying	Rough Stone & Gravel
3	S.F No. of the quarry site	2196/1, 2196/2, 2196/3, 2198/1, 2198/2 and 2201
4	Village in which situated	Allinagaram
5	Taluk in which situated	Theni
6	District in which situated	Theni
7	Extent of quarry (in ha.)	2.02.0 Ha

8	Latitude & Longitude of all corners of the quarry site	10°02'14.25" N to 10°02'18.56"N 77°26'42.93"E to 77°26'51.46"E
9	Topo Sheet No.	58 F/08
10	Type of mining	Open cast Semi mechanized Mining method
11	Period of current mine plan	5 Years
12	Production (Quantity in m ³)	As per the mining plan, the lease period is for 5 years. Production for Five years states that 1,59,120m ³ of rough stone & 7332m ³ of Gravel with an ultimate depth of mining 27m BGL. The annual peak production is 32,890 m ³ of rough stone (4 th year) & 6240m ³ of Gravel (1 st year).
13	Depth of mining	27m BGL
14	Depth of water table	53m in Rainy season – 56m in summer season
15	Man Power requirement	17 Employees
16	Water requirement: 1. Domestic & Flushing 2. Dust suppression 3. Green Belt	1.50 KLD 0.5 KLD 0.5 KLD 0.5 KLD
17	Power requirement	TNEB 222656 litres of HSD will be utilized for the rough stone & Gravel
18	Precise area communication approved by the Assistant Director, Dept. of G&M with date	Na.ka.No.235/kannimam/2019,Dated:27.04.2022

19	Mining Plan approved by the Assistant Director(i/c), Dept. of Geology and Mining with date	Roc.No. 235/Mines/2019 dated 09.06.2022
20	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	Roc.No. 235/Mines/2019 dated 09.06.2022
21	VAO certificate regarding habitations in 300m radius	Letter Dated :10.06.2022
22	Project Cost (excluding EMP)	Rs.71,12,000
23	EMP cost	Rs.90 lakhs
24	CER Cost	Rs.5 lakhs

Based on the presentation & documents furnished, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production of 1,59,120m³ of Rough Stone & 7332m³ of Gravel and the annual peak production shall not exceed 32,890m³ of Rough Stone & 6240m³ of Gravel by maintaining the ultimate depth of mining of 27m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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


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3. 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.
4. The PP shall inform the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
5. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in DGMS approved Group Vocational Training Centre, Pandalgudi (or) Trichy.
6. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the development activities from west to east direction keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
7. 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.
8. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
9. The PP shall carry out maximum of TWO rounds of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 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.
10. 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.

11. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
12. 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.
13. 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.
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.


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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 in lieu of CER, the amount of Rs.2 lakhs shall be utilized for mitigation measures in SMTR in consultation with Deputy Director Megamalai Tiger reserve as committed, before obtaining CTO from TNPCB.

Agenda No. 368-15

(File No. 9869/2023)

Proposed Rough Stone & gravel quarry lease over an extent of 2.85.0 Ha in SF. No. 136 (Part-8), Venkateshapuram Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Tvl. Sri Vinayaka Enterprises - For Terms of Reference. (SIA/TN/MIN/419662/2023 dated 24.02.2023)

The proposal was placed in 273rd SEAC meeting held on 14.5.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Tvl. Sri Vinayaka Enterprises has applied for Terms for Reference for the proposed Rough stone & gravel quarry lease over an extent of 2.85.0 Ha in S.F. No. 136 (Part-8), Venkateshapuram Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. The production as per the mining plan for 5 years not to exceed 4,35,474m³ of Rough Stone & 2,277m³ of Top soil with an ultimate depth of Mining 56m (24m AGL + 32 BGL) (including existing depth). The Annual peak production as per mining plan is 2,00,285m³(1st year) of Rough Stone & 2277m³ of Top soil (1st year).

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.


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" ... 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 Athimugam I & II Reserve Forest are located within a distance of 1 km from this project site and the proposal is, therefore, hit by the above G.O. The Committee, therefore, decided not to recommend the proposal.

Now the proposal was placed in 368th SEAC meeting held on 19.04.2023.

As per the G.O. (Ms.) No. 243 industries, Investment promotion and Commerce (MMC.I) Department dated 14.12.2022, Amendment to the Tamil Nadu Minor Mineral Concession Rules, 1959 as follows,

"In the said rules, in rule 36, In Sub-rule (1-A), In Clause(e) for the expression "the National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors and Reserve Forests", the expression "National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors" shall be substituted".

The Proponent has resubmitted the same proposal on 24.02.2023 with all necessary supporting documents in order to obtain Environmental Clearance.

Description	Old File	New File
File No	8998	9869
Online Proposal No for EC	SIA/TN/MIN/71652/2022, Dated 29.01.2022	SIA/TN/MIN/419662/2023 Dated 24.02.2023

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

1. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and

(iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.

2. The proponent shall discuss the funds for mitigation measures to be included in the EMP.
3. The proponent shall adhere to the bench height - 5m as stated in the approved mining plan.
4. The proponent shall obtain Anna University Star rating system.
5. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Necessary data and documentation in this regard may be provided.
6. The proponent shall submit the details regarding the nature of blasting activity which will be carried out.
7. The PP shall furnish DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
8. The PP shall provide individual notice regarding the Public Hearing to the nearby house owners located in the vicinity of the project site.
9. In the case of proposed lease in an existing (or old) quarry where the benches are non-existent (or) partially formed critical of the bench geometry approved in the Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the 'highwall' benches to ensure slope stability in the proposed quarry lease which shall be vetted by the concerned Asst. Director of Geology and Mining, during the time of appraisal for obtaining the EC.

10. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
11. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure for carrying out the safe blasting operation while considering the adjacent quarries lies in a radial distance of 500 m from their quarry.
12. Details of Green belt & fencing shall be included in the EIA Report.
13. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
14. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines.
What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
Quantity of minerals mined out.
Highest production achieved in any one year
Detail of approved depth of mining.
Actual depth of the mining achieved earlier.
Name of the person already mined in that leases area.
If EC and CTO already obtained, the copy of the same shall be submitted.
Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
15. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).

16. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,
17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
20. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
21. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
22. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
23. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated.

Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

24. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
25. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact on local transport infrastructure due to the Project should be indicated.
28. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
29. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
30. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
31. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
32. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.

33. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
34. 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.
35. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
36. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
37. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
38. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

39. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
40. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
41. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
42. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
43. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
44. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
45. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda No: 368 -16

(File No: 9876/2023)

Proposed Construction of Building for Centre of Excellence for Cancer Diseases in Government Arignar Anna Memorial Cancer Hospital at S.No. 332/2, 333/2,3,4,5, 334/1,2,3,4,5,6,7,8,9, 347/2,3,4,5,7, 348/1,2,3,4,5,6 of Karapettai Village, Kanchipuram Taluk, Kanchipuram District, Tamil Nadu by M/s. Government Arignar Anna Memorial Cancer Hospital - For Terms of Reference under Violation.
(SIA/TN/INFRA2/417323/2023, Dated: 22.02.2023)


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The proposal was placed in 368th SEAC meeting held on 19.04.2023. 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. Government Arignar Anna Memorial Cancer Hospital has applied for Terms of Reference for the Proposed Construction of Building for Centre of Excellence for Cancer Diseases in Government Arignar Anna Memorial Cancer Hospital at S.No. 332/2, 333/2,3,4,5, 334/1,2,3,4,5,6,7,8,9, 347/2,3,4,5,7, 348/1,2,3,4,5,6 of Karapettai Village, Kanchipuram Taluk, Kanchipuram District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.
3. Total land area of Arignar Anna Memorial Cancer Hospital – 91,642 Sq.m (22.645 Acres). Proposed new building (COE) land area – 40,886 Sq.m (10.10 Acres).
4. Ground coverage – 10,272.00 Sq.m. Proposed construction built -up area (G+ 5 floor) – 61,921 Sq.m.

Based on the presentation & documents furnished, since the PP has started the project without obtaining EC (already constructed built up area – 30,893 Sq.m – G+ 2 floors) and has also not applied during the window period, this project has to be treated as violation case under SoP notified by the MoEF & CC outside the window period.

The SEAC noted that, the MoEF&CC has issued office memorandum Dated 28th January, 2022 regarding observation of Hon'ble Supreme Court with reference to the SoP dated 7th July 2021 for identification and handling of violation cases under EIA Notification 2006 and stated that "93. The interim order passed by the Madras High Court appears to be misconceived. However, this Court is not hearing an appeal from that interim order. The interim stay passed by the Madras High Court can have no application to operation of the Standard Operating Procedure to projects in territories beyond the territorial jurisdiction of Madras High Court. Moreover, final decision may have been taken in accordance with the Orders/ Rules prevailing prior to 7th July, 2021."

Hence SEAC decided to issue following Terms of Reference along with submission


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of assessment of ecological damage, remediation plan and natural and community resource augmentation plan, as per Notification vide S.O.804(E) Dt. 14.3.2017. Terms of Reference are issued subject to final orders of the Hon'ble High Court of Madras in the matter W.P.(MD) No. 11757 of 2021.

1. The PP shall furnish the details of land use conversion from Nanjai land to other classification fit for construction.
2. PP shall explore the feasibility of adding a hospice block as a part of the project.
3. The PP shall explore the possibility of increasing green belt. In this regard the PP shall incorporate the increased green belt layout in EIA Report.
4. The PP shall explore the possibility of minimizing fresh water requirements and the details shall be incorporated in the EIA report.
5. The PP shall cover the entire roof with solar panel.
6. The PP shall explore the possibility of using alternate fuel source instead of diesel.
7. Copy of the village map, FMB sketch and "A" register shall be furnished.
8. Detailed Evacuation plan during emergency/natural disaster/untoward accidents shall be submitted.
9. The treated/untreated sewage water shall not be let-out from the unit premises accordingly revised water balance shall be incorporated.
10. As per G.O. Ms. No. 142 approval from Central Ground Water Authority shall be obtained for withdrawal of water and furnish the copy of the same, if applicable.
11. Commitment letter from competent authority for supply of water shall be furnished.
12. The space allotment for solid waste disposal and sewage treatment plant shall be furnished.
13. Details of the Solid waste management plan shall be prepared as per solid waste management Rules, 2016 and shall be furnished.
14. Details of the E-waste management plan shall be prepared as per E-waste Management Rules, 2016, and shall be furnished.


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15. Details of the Rain water harvesting system with cost estimation should be furnished.
16. A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains and sub-drains in accordance with the contour levels of the proposed project considering the flood occurred in the year 2015 and also considering the water bodies around the proposed project site & the surrounding development. The storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.
17. The proposed OSR area should not be included in the activity area. The OSR area should not be taken in to account for the green belt area.
18. The project proponent shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
19. The layout plan shall be furnished for the greenbelt area earmarked with GPS coordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should not be less than 15% of the total land area of the project.
20. Cumulative impacts of the Project considering with other Infrastructure developments and industrial parks in the surrounding environment within 5 km & 10 km radius shall be furnished.

21. A detailed post-COVID health management plan for construction workers as per ICMR and MHA or the State Govt. guideline may be followed and report shall be furnished.
22. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modelling for the ground water, emission, noise and traffic.
23. As per the MoEF&CC Office Memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall furnish the detailed EMP mentioning all the activities as directed by SEAC.

Agenda No: 368-17

(File No: 9725/2022)

Proposed Rough stone & gravel quarry lease over an Extent of 2.13.0 Ha in S.F.Nos. 210/12C1A, 12C1B, 8A1A, 12B, 20 & 9C2 in Melur Village, Kulathur Taluk, Pudukkottai District and Tamil Nadu by Thiru.P.Arumugam- For Terms of Reference. (SIA/TN/MIN/412645/2022, dated 30.12.2022)

The proposal was earlier placed in 368th meeting of SEAC held on 19.4.2023. 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, **Thiru.P.Arumugam** has applied seeking Terms of Reference for proposed Rough stone & gravel quarry lease over an Extent of 2.13.0 Ha in S.F.Nos. 210/12C1A, 12C1B, 8A1A, 12B, 20 & 9C2 in Melur Village, Kulathur Taluk, Pudukkottai District and Tamil Nadu and 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, as amended.
3. As per the precise area communication the lease period is for 5 years. The mining plan is for 5 years. The production for 5 years shall not to exceed 185545m³ of Rough Stone and shall exceed the ultimate depth of 57m BGL.

Based on the presentation and details furnished by the project proponent, **SEAC** decided to grant **Terms of Reference (TOR)** with **Public Hearing** subject to the following TORs,


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in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The PP shall submit CCR for the earlier EC issued.
2. The PP shall submit photographs of fencing, greenbelt and garland drain.
3. AD mines letter for the existing pit with details of earlier lease period and pit dimension.
4. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
5. The study on impact of the dust & other environmental impacts due to proposed quarrying operations on the Rose flowers being cultivated through greenhouse nearby.
6. The Proponent shall furnish photographs of greenbelt, fencing and garland drain around the boundary of the proposed quarry.
7. The proponent shall furnish a revised EMP budget for entire life of proposed mining.
8. The revised and corrected version of the Production & Development Plan shall be produced with showing the safety berm width of 2m is maintained for the bench height of 2m distinctly in the gravel formation and it shall be duly signed by the concerned QP & approved by the concerned AD (Geology & Mining).
9. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease during the time of appraisal for obtaining the EC.
10. The Proponent shall submit a conceptual 'Slope Stability Plan' indicating the mitigating measures for the proposed quarry during the appraisal while obtaining the EC, as the depth of the proposed quarry working is extended beyond 30 m below ground level.


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11. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
12. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
13. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
14. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
 - a. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - b. Quantity of minerals mined out.
 - c. Highest production achieved in any one year
 - d. Detail of approved depth of mining.
 - e. Actual depth of the mining achieved earlier.
 - f. Name of the person already mined in that leases area.
 - g. If EC and CTO already obtained, the copy of the same shall be submitted.
 - h. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
15. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
16. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,


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17. The PP shall furnish the revised manpower including the statutory & competent persons as required under the provisions of the MMR 1961 for the prosed quarry based on the volume of rock handled & area of excavation.
18. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
19. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
20. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
21. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
22. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
23. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the

- Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
24. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
 25. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
 26. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
 27. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
 28. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
 29. Impact on local transport infrastructure due to the Project should be indicated.
 30. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
 31. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
 32. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard


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to the Office Memorandum of MoEF& CC accordingly.

33. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
34. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
35. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
36. 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 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.
37. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site-specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
38. A Disaster Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
39. A Risk Assessment and Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
40. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement


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

Agenda No: 368-18

(File No: 9767/2023)

Proposed Rough stone & gravel quarry lease over an Extent of 4.10.30Ha in SF.No. 181/3A2, 181/3B1A1(P), 181/3B1B, 181/3B2, 181/3C1, 181/3C2, 181/3D1 and 181/4 Keelnaickenpalayam Village, Vembakkam Taluk, Tiruvannamalai District and Tamil


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Nadu by Thiru.A.V.Sarathy – For Terms of Reference. (SIA/TN/MIN/415846/2023, dated 25.01.2023)

The proposal was earlier placed in 368th meeting of SEAC held on 19.4.2023. 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, Thiru.A.V.Sarathy has applied seeking Terms of Reference for proposed Rough stone & gravel quarry lease over an Extent of 4.10.30Ha in SF.No. 181/3A2, 181/3B1A1(P), 181/3B1B, 181/3B2, 181/3C1, 181/3C2, 181/3D1 and 181/4 Keelnaickenpalayam Village, Vembakkam Taluk, Tiruvannamalai 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, as amended.
3. As per the precise area communication the lease period is for 5 years. The mining plan is for 5 years. The production for 5 years shall not to exceed 471330 m³ of Rough Stone, 57622 m³ of weathered Rock & 60678m³ of Gravel with the ultimate depth of 44m BGL.

Based on the presentation and details furnished by the project proponent, **SEAC dedded to grant Terms of Reference (TOR) with Public Hearing** subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be Included in EIA/EMP Report:

1. The PP shall submit photographs of fencing, greenbelt and garland drain.
2. AD mines letter for the existing pit with details of earlier lease period and pit dimension.
3. The study on impact of the dust & other environmental impacts due to proposed quarrying operations on the Rose flowers being cultivated through greenhouse nearby.
4. The Proponent shall furnish photographs of greenbelt, fencing and garland drain around the boundary of the proposed quarry.
5. The proponent shall furnish a revised EMP budget for entire life of proposed mining.


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6. The revised and corrected version of the Production & Development Plan shall be produced with showing the safety berm width of 2m is maintained for the bench height of 2m distinctly in the gravel formation and it shall be duly signed by the concerned QP & approved by the concerned AD (Geology & Mining).
7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease during the time of appraisal for obtaining the EC.
8. The Proponent shall submit a conceptual 'Slope Stability Plan' indicating the mitigating measures for the proposed quarry during the appraisal while obtaining the EC, as the depth of the proposed quarry working is extended beyond 30 m below ground level.
9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
 - a. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - b. Quantity of minerals mined out.
 - c. Highest production achieved in any one year


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


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

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

26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact on local transport infrastructure due to the Project should be indicated.
28. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
29. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
30. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
31. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
32. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
33. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
34. 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 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.


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35. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site-specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
36. A Disaster Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
37. A Risk Assessment and Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
38. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
39. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
40. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
41. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
42. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
43. If any quarrying operations were carried out in the proposed quarrying site for

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

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

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

Agenda No: 368-19

(File No: 9870/2023)

Proposed Rough stone quarry lease over an Extent of 4.50.0 Ha in SF.No. 209(PART), Alur village, Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru.K.Jeeva– For Terms of Reference. (SIA/TN/MIN/416736/2023, dated 20.2.2023)

The proposal was earlier placed in 368th meeting of SEAC held on 19.04.2023. 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, Thiru.K.Jeeva has applied seeking Terms of Reference for proposed Rough stone quarry lease over an Extent of 4.50.0 Ha in SF.No. 209(PART), Alur village, Hosur Taluk, Krishnagiri 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, as amended.
3. As per the precise area communication the lease period is for 10 years. The mining plan is for 5 years. The production for 5 years shall not to exceed 1276230 m³ of Rough Stone & 45712 m³ of Top soil with the ultimate depth of 43m BGL.

Based on the presentation and details furnished by the project proponent, SEAC decided to grant Terms of Reference (TOR) with Public Hearing subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report.


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1. The PP shall include the mitigation measures for the RF located in the vicinity of the project site, in the EIA report.
2. The PP shall submit photographs of fencing, greenbelt and garland drain.
3. AD mines letter for the existing pit with details of earlier lease period and pit dimension.
4. The study on impact of the dust & other environmental impacts due to proposed quarrying operations on the Rose flowers being cultivated through greenhouse nearby.
5. The Proponent shall furnish photographs of greenbelt, fencing and garland drain around the boundary of the proposed quarry.
6. The proponent shall furnish a revised EMP budget for entire life of proposed mining.
7. The revised and corrected version of the Production & Development Plan shall be produced with showing the safety berm width of 2m is maintained for the bench height of 2m distinctly in the gravel formation and it shall be duly signed by the concerned QP & approved by the concerned AD (Geology & Mining).
8. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease during the time of appraisal for obtaining the EC.
9. The Proponent shall submit a conceptual 'Slope Stability Plan' indicating the mitigating measures for the proposed quarry during the appraisal while obtaining the EC, as the depth of the proposed quarry working is extended beyond 30 m below ground level.
10. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
11. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed

quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.

12. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
13. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
 - a. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - b. Quantity of minerals mined out.
 - c. Highest production achieved in any one year
 - d. Detail of approved depth of mining.
 - e. Actual depth of the mining achieved earlier.
 - f. Name of the person already mined in that leases area.
 - g. If EC and CTO already obtained, the copy of the same shall be submitted.
 - h. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
14. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
15. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
16. The PP shall furnish the revised manpower including the statutory & competent persons as required under the provisions of the MMR 1961 for the prosed quarry based on the volume of rock handled & area of excavation.
17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved

mining plan.

18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act 1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies,

human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
28. Impact on local transport infrastructure due to the Project should be indicated.
29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
31. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
32. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
33. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.


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34. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
35. 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 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.
36. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site-specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
37. A Disaster Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
38. A Risk Assessment and Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
39. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
40. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed

remedial measures should be detailed along with budgetary allocations.

41. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
42. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
44. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
45. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
46. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda No: 368-20

(File No: 9877/2032)

Proposed Expansion of Steel Melting & Steel Rolling Mill by M/s. Chennai United Metal Industries Private Limited at S.F. No. 501/1, 2, 3A, 3B, 3C, 502/1A, 2A, 2B, 2C, 2D, 2E in Gettnamalli Village and SF.No. 997/1A, 1B, 1C, 2A, 2B, 2C, 3A, 3B, 3C, 998/1A1, 1B, 2A, 2B, 2C, 2D, 3, 5A, 5B, 6, 7A, 7B, 8A, 8B, 9, 10, 11, 12A, 12B, 12C, 12D, 12E, 12F, 13A, 13B, 14, 15A, 15B, 16, 17, 1002/1, 2A, 2B, 2C, 2D, 2E, 3A, 3B, 3C, 4A, 4B, 5A, 5B, 5C, 5D, 5E, 6A, 6B, 7A, 7B, 8B, 9, 10A, 10B, 11, 12, 13, 15, 15A, 15B, 16, 17A, 17B, 18A, 18B, 18C, 18D, 19A, 19B, 19C, 19D, 19E, 19F, 19G, 19H, 20, 21, 22, 23, 1019/1, 2A, 2B, 3A, 3B, 13A1, 13A2, 14A, 22A, 22B, 22C, 23, 24, 25 in Sirupulapettai Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu - for Terms of Reference SlA/TN/IND1/419918/2023 dt: 06.03.2023


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The proposal was placed in the 368th SEAC Meeting held on 19.04.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent M/s. Chennai United Metal Industries Private Limited has Expansion of Steel Melting & Steel Rolling Mill by M/s. Chennai United Metal Industries Private Limited at S.F. No. 501/1, 2, 3A, 3B, 3C, 502/1A, 2A, 2B, 2C, 2D, 2E in Gettnamalli Village and SF.No. 997/1A, 1B, 1C, 2A, 2B, 2C, 3A, 3B, 3C, 998/1A1, 1B, 2A, 2B, 2C, 2D, 3, 5A, 5B, 6, 7A, 7B, 8A, 8B, 9, 10, 11, 12A, 12B, 12C, 12D, 12E, 12F, 13A, 13B, 14, 15A, 15B, 16, 17, 1002/1, 2A, 2B, 2C, 2D, 2E, 3A, 3B, 3C, 4A, 4B, 5A, 5B, 5C, 5D, 5E, 6A, 6B, 7A, 7B, 8B, 9, 10A, 10B, 11, 12, 13, 15, 15A, 15B, 16, 17A, 17B, 18A, 18B, 18C, 18D, 19A, 19B, 19C, 19D, 19E, 19F, 19G, 19H, 20, 21, 22, 23, 1019/1, 2A, 2B, 3A, 3B, 13A1, 13A2, 14A, 22A, 22B, 22C, 23, 24, 25 in Sirupulapettai Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 3(a) "Metallurgical industries (ferrous & non-ferrous)" of the Schedule to the EIA Notification, 2006.

Based on the presentation made by the proponent and the documents furnished, the SEAC decided to prescribe TOR for the preparation of detailed EIA report along with Public Hearing. The detailed EIA shall include standard ToR along with the following additional ToR:

1. The PP shall furnish the affidavit stating the there is no construction activity carried out after July 2022.
2. The PP shall include the actual material balance, water balance & scrap details etc., in EIA report.
3. The PP shall study in detail about various operational measures to reduce the specific energy consumption in the induction furnaces and re-heating furnaces.
4. The PP shall furnish panel board calculation for the existing and proposed expansion activity.
5. The PP shall explore possibilities to utilize renewable energy with respect to total power consumption.
6. The PP shall plant native trees 2 nos. of rows all along the site and within the proposed site adhering to 33% of Green belt of the total area and shall furnish

photographs of the same.

7. The PP shall furnish details of scrap imported and composition of scrap obtained from laboratory to ensure free from toxic contaminants.
8. The PP shall adopt Environmental manager for effective compliance on mitigation measures & monitoring of proposed expansion activity.
9. The PP shall consult DFO, Tirunelveli for adopting conservation/mitigation measures for the nearby protected areas.
10. Since the Periods of idling are inherent because of the following activities, the PP shall study in detail and the same shall be included in the EIA report.
 - i. Charging
 - ii. Slagging
 - iii. Sampling
 - iv. Charge material
 - v. Molten Heel Practice
 - vi. Furnace Cover Losses
11. The PP shall study in detail about Charging and operation of Melting for better and efficient operation of induction furnaces.
12. The proponent shall study in detail about various measures could be adopted during finishing and tapping of a heat.
13. The proponent shall study in detail about operational control measures to Minimize and control the refractory wall wearing.
14. The proponent shall explore the possibilities to Change from mains frequency to medium frequency furnaces.
15. Details of sand reclamation unit shall be incorporated in the EIA report.
16. The proponent shall explore the possibilities of utilizing state of the art technology with best global practice.
17. The proponent shall explore the possibilities of utilizing the industrial wastewater instead of fresh water.
18. The proponent shall elaborate on the state-of-the-art technology for induction furnace to control emissions (Fumes).
19. The proponent shall submit the Certified Compliance Report for existing plant.

20. The proponent must increase the solar and Wind Energy and must explore the possibilities of achieving Net Zero energy consumption.
21. The proponent shall submit the video and photograph of the operational details with particular reference to points of pollution in the existing plant.
22. Material balance and Water balance shall be furnished in accordance with MoEF&CC guidelines.
23. A detailed report on Solid waste management, hazardous waste shall be furnished.
24. Report on AAQ survey and proposed air pollution prevention and control measures shall be furnished in the EIA report.
25. The project proponent shall do the stoichiometric analysis of all the involved reactions to assess the possible emission of air pollutants in addition to the criteria pollutants, from the proposed project.
26. Adequacy report for ETP & STP for the proposed project obtained from any reputed Government institution such as IIT, Anna University, NIT shall be furnished.
27. Land use classification shall be obtained from the DTCP for the Survey Numbers of this project. Further, the project proponent shall submit the planning permission obtained from the DTCP, if any.
28. The proponent shall conduct the EIA study and submit the EIA report for the entire campus along with layout and necessary documents such as "A" register and village map.
29. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
30. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
31. The PP shall produce/display the EIA report, executive summary and other related information with respect to public hearing in Tamil.
32. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non- forest

purpose involved in the project.

33. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
34. The project proponent shall explore the possibilities of treating and utilizing the trade effluent and sewage within the premises to achieve Zero liquid discharge.
35. The layout plan shall be furnished for the greenbelt area earmarked with GPS coordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should be not less than 15 % of the total land area of the project.
36. As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
37. The proposal for Roof Top solar panel shall be included in the EIA Report.
38. 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 furnish the detailed EMP.

Agenda No: 368-21

(File No: 9705/2022)

Rough Stone and Gravel Quarry over an extent of 1.81.5Ha SF.No.428/2, 429/1 & 429/2 of Chikkarampalayam Village, Mettupalayam Taluk, Coimbatore District by Thiru.P.Chandramohan - For Terms of Reference. (SIA/TN/MIN/412754/2022 dated 06.01.2023)

The proposal was placed in the 368th SEAC Meeting held on 19.04.2023. The details of the minutes are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.P.Chandramohan has applied for Terms of Reference for the Rough Stone and Gravel Quarry over an extent of 1.81.5Ha SF.No.428/2, 429/1 & 429/2 of Chikkarampalayam Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu.


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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. As per the precise area communication the lease period is for 5 years. The mining plan is for 5 years. The production for 5 years shall not to exceed 70532m³ of Rough Stone & 1080m³ of Gravel and shall exceed the ultimate depth of 35m BGL.

Based on the presentation and details furnished by the project proponent, SEAC decided to grant Terms of Reference (TOR) with Public Hearing subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The PP shall submit CCR for the earlier EC issued Lr. No. SEIAA-TN/F.No.5642/1 (a)/EC.No.3901/2016 Dt:14.06.2017.
2. The PP shall submit photographs of fencing, greenbelt and garland drain.
3. AD mines letter for the existing pit with details of earlier lease period and pit dimension.
4. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
5. The study on impact of the dust & other environmental impacts due to proposed quarrying operations on the Rose flowers being cultivated through greenhouse nearby.
6. The Proponent shall furnish photographs of greenbelt, fencing and garland drain around the boundary of the proposed quarry.
7. The proponent shall furnish a revised EMP budget for entire life of proposed mining.
8. The revised and corrected version of the Production & Development Plan shall be produced with showing the safety berm width of 2m is maintained for the bench height of 2m distinctly in the gravel formation and it shall be duly signed by the concerned QP & approved by the concerned AD (Geology & Mining).


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9. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease during the time of appraisal for obtaining the EC.
10. The Proponent shall submit a conceptual 'Slope Stability Plan' indicating the mitigating measures for the proposed quarry during the appraisal while obtaining the EC, as the depth of the proposed quarry working is extended beyond 30 m below ground level.
11. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
12. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
13. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
14. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines.
 - a. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - b. Quantity of minerals mined out.
 - c. Highest production achieved in any one year
 - d. Detail of approved depth of mining.
 - e. Actual depth of the mining achieved earlier.
 - f. Name of the person already mined in that leases area.
 - g. If EC and CTO already obtained, the copy of the same shall be submitted.

- h. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
15. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
 16. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
 17. The PP shall furnish the revised manpower including the statutory & competent persons as required under the provisions of the MMR 1961 for the prosed quarry based on the volume of rock handled & area of excavation.
 18. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
 19. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
 20. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act 1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
 21. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may

clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.

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

30. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
31. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
32. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
33. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
34. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
35. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
36. 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 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.
37. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site-specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the

boundary of the project site with at least 3 meters wide and in between blocks in an organized manner

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

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

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

Agenda No: 368-22

(File No: 9810/2022)

Proposed Expansion of Steel Melting Shop & Steel Rolling Mill by M/s. Dindigul Steel Rolling Mills Private Limited at S.F. No. 4/2B3, 4/2B2A, 4/2B4, 4/2B5, 5/1A, 7/1, 8/1A, 8/1B, 8/1C, 8/1D, 8/1E, 8/2A, 8/2B, 8/2E, 8/2I, 9/1, 9/2, Sannathupudhukudi Village, Kayathar Taluk, Thoothukkudi District - for Terms of Reference

SIA/TN/IND1/416049/2023 dt: 28/01/2023

The proposal was placed in the 368th SEAC Meeting held on 19.04.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


The SEAC noted the following:

1. The Proponent M/s. Dindigul Steel Rolling Mills Private Limited has Proposed Expansion of Steel Melting Shop & Steel Rolling Mill at S.F. No. 4/2B3, 4/2B2A, 4/2B4, 4/2B5, 5/1A, 7/1, 8/1A, 8/1B, 8/1C, 8/1D, 8/1E, 8/2A, 8/2B, 8/2E, 8/2I, 9/1, 9/2, Sannathupudhukudi Village, Kayathar Taluk, Thoothukkudi District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 3(a) "Metallurgical industries (ferrous & non-ferrous)" of the Schedule to the EIA Notification, 2006.

Based on the presentation made by the proponent and the documents furnished, the SEAC decided to prescribe TOR for the preparation of detailed EIA report along with Public Hearing. The detailed EIA shall include standard ToR along with the following additional ToR:

1. The PP shall study in detail about various operational measures to reduce the specific energy consumption in the induction furnaces and re-heating furnaces.
2. The PP shall furnish panel board calculation for the existing and proposed expansion, activity.
3. The PP shall explore possibilities to utilize renewable energy with respect to total


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power consumption.

4. The PP shall plant native trees 2 nos. of rows all along the site and within the proposed site adhering to 33% of Green belt of the total area and shall furnish photographs of the same.
5. The PP shall furnish details of scrap imported and composition of scrap obtained from laboratory to ensure free from toxic contaminants.
6. The PP shall adopt Environmental manager for effective compliance on mitigation measures & monitoring of proposed expansion activity.
7. The PP shall consult DFO, Tirunelveli for adopting conservation/mitigation measures for the nearby protected areas.
8. Since the Periods of idling are inherent because of the following activities, the PP shall study in detail and the same shall be included in the EIA report.
 - i. Charging
 - ii. Slagging
 - iii. Sampling
 - iv. Charge material
 - v. Molten Heel Practice
 - vi. Furnace Cover Losses
9. The PP shall study in detail about Charging and operation of Melting for better and efficient operation of induction furnaces.
10. The proponent shall study in detail about various measures could be adopted during finishing and tapping of a heat.
11. The proponent shall study in detail about operational control measures to Minimize and control the refractory wall wearing.
12. The proponent shall explore the possibilities to Change from mains frequency to medium frequency furnaces.
13. Details of sand reclamation unit shall be incorporated in the EIA report.
14. The proponent shall explore the possibilities of utilizing state of the art technology with best global practice.
15. The proponent shall explore the possibilities of utilizing the industrial wastewater instead of fresh water.

16. The proponent shall elaborate on the state-of-the-art technology for induction furnace to control emissions (Fumes).
17. The proponent shall submit the Certified Compliance Report for existing plant.
18. The proponent must increase the solar and Wind Energy and must explore the possibilities of achieving Net Zero energy consumption.
19. The proponent shall submit the video and photograph of the operational details with particular reference to points of pollution in the existing plant.
20. Material balance and Water balance shall be furnished in accordance with MoEF&CC guidelines.
21. A detailed report on Solid waste management, hazardous waste shall be furnished.
22. Report on AAQ survey and proposed air pollution prevention and control measures shall be furnished in the EIA report.
23. The project proponent shall do the stoichiometric analysis of all the involved reactions to assess the possible emission of air pollutants in addition to the criteria pollutants, from the proposed project.
24. Adequacy report for ETP & STP for the proposed project obtained from any reputed Government institution such as IIT, Anna University, NIT shall be furnished.
25. Land use classification shall be obtained from the DTCP for the Survey Numbers of this project. Further, the project proponent shall submit the planning permission obtained from the DTCP, if any.
26. The proponent shall conduct the EIA study and submit the EIA report for the entire campus along with layout and necessary documents such as "A" register and village map.
27. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
28. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
29. The PP shall produce/display the EIA report, executive summary and other related


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information with respect to public hearing in Tamil.

30. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non- forest purpose involved in the project.
31. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
32. The project proponent shall explore the possibilities of treating and utilizing the trade effluent and sewage within the premises to achieve Zero liquid discharge.
33. The layout plan shall be furnished for the greenbelt area earmarked with GPS coordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should be not less than 15 % of the total land area of the project.
34. As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
35. The proposal for Roof Top solar panel shall be included in the EIA Report.
36. 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 furnish the detailed EMP.

Agenda No: 368-23

(File No: 9851/2022)

Rough Stone, Jelly and Gravel Quarry over an extent of 3.3350 Ha SF.No.919/I, 2A(P) of Nathikudi Village, Vembakottal Taluk, Virudhunagar District by Shri.J.Saipreetham - For Terms of Reference. (SIA/TN/MIN/418218/2023, dt: 15.02.2023)

The proposal was placed in the 368th SEAC Meeting held on 19.04.2023. The details of the minutes are available in the website (parivesh. nlc. in).

The SEAC noted the following:

1. The project proponent, Shri.J.Saipreetham has applied for Terms of Reference for the Rough Stone, Jelly and Gravel Quarry over an extent of 3.3350 Ha


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SF.No.919/1, 2A(P) of Nathikudi Village, Vembakottai Taluk, Virudhunagar 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. As per the precise area communication the lease period is for 5 years. The mining plan is for 5 years. The production for 5 years shall not to exceed 508494m³ of Rough Stone & 71127m³ of Weathered rock & 47418m³ of Topsoil and the ultimate depth of 35m BGL.

Based on the presentation and details furnished by the project proponent, SEAC decided to grant Terms of Reference (TOR) with Public Hearing subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The PP shall submit photographs of fencing, greenbelt and garland drain.
2. AD mines letter for the existing pit with details of earlier lease period and pit dimension.
3. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
4. The study on impact of the dust & other environmental impacts due to proposed quarrying operations on the Rose flowers being cultivated through greenhouse nearby.
5. The Proponent shall furnish photographs of greenbelt, fencing and garland drain around the boundary of the proposed quarry.
6. The proponent shall furnish a revised EMP budget for entire life of proposed mining.
7. The revised and corrected version of the Production & Development Plan shall be produced with showing the safety berm width of 2m is maintained for the bench height of 2m distinctly in the gravel formation and it shall be duly signed by the concerned QP & approved by the concerned AD (Geology & Mining).


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8. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease during the time of appraisal for obtaining the EC.
9. The Proponent shall submit a conceptual 'Slope Stability Plan' indicating the mitigating measures for the proposed quarry during the appraisal while obtaining the EC, as the depth of the proposed quarry working is extended beyond 30 m below ground level.
10. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
11. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
12. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
13. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
 - a. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - b. Quantity of minerals mined out.
 - c. Highest production achieved in any one year
 - d. Detail of approved depth of mining.
 - e. Actual depth of the mining achieved earlier.
 - f. Name of the person already mined in that leases area.
 - g. If EC and CTO already obtained, the copy of the same shall be submitted.

- h. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
14. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
15. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
16. The PP shall furnish the revised manpower including the statutory & competent persons as required under the provisions of the MMR 1961 for the proposed quarry based on the volume of rock handled & area of excavation.
17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may

clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.

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

29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc..) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
31. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
32. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
33. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
34. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
35. 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 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.
36. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site-specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the


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- boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
37. A Disaster Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
38. A Risk Assessment and Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
39. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
40. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
41. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
42. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
44. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.

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

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

Agenda No: 368-24

(File No: 9897/2022)

Proposed Rough Stone and Gravel Quarry lease over an extent of 4.50.0Ha S.F.No.207/1A1, 207/1A2A & 208/3 (P), Alur Village, Hosur Taluk, Krishnagiri District by M/s. B.M.Mines - For Terms of Reference. (SIA/TN/MIN/421183/2023, dt: 07/03/2023)

The proposal was placed in the 368th SEAC Meeting held on 19.04.2023. The details of the minutes are available in the website (parivesh. nic. in).

The SEAC noted the following:

1. The project proponent, M/s. B.M.Mines has applied for Terms of Reference for the Proposed Rough Stone and Gravel Quarry lease over an extent of 4.50.0Ha S.F.No.207/1A1, 207/1A2A & 208/3 (P), Alur Village, Hosur Taluk, Krishnagiri 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. As per the precise area communication the lease period is for 10 Years. The mining plan is for 10 Years. The production for 1st 5 Years shall not to exceed 439250m³ of Rough Stone & 141800m³ of Gravel Quarry & the production for 2nd 5 Years shall not to exceed 280,185 m³ of Rough Stone and the ultimate depth of 40m BGL.

Based on the presentation and details furnished by the project proponent, SEAC decided to grant Terms of Reference (TOR) with Public Hearing subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The PP shall submit cumulative EIA Impact study considering Crushers 500m radius around the vicinity of the proposed mining area.
2. The PP shall submit photographs of fending, greenbelt and garland drain.

3. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
4. The study on impact of the dust & other environmental impacts due to proposed quarrying operations on the Rose flowers being cultivated through greenhouse nearby.
5. The Proponent shall furnish photographs of greenbelt, fencing and garland drain around the boundary of the proposed quarry.
6. The proponent shall furnish a revised EMP budget for entire life of proposed mining.
7. The revised and corrected version of the Production & Development Plan shall be produced with showing the safety berm width of 2m is maintained for the bench height of 2m distinctly in the gravel formation and it shall be duly signed by the concerned QP & approved by the concerned AD (Geology & Mining).
8. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease during the time of appraisal for obtaining the EC.
9. The Proponent shall submit a conceptual 'Slope Stability Plan' indicating the mitigating measures for the proposed quarry during the appraisal while obtaining the EC, as the depth of the proposed quarry working is extended beyond 30 m below ground level.
10. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
11. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such

that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.

12. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
13. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
 - a. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - b. Quantity of minerals mined out.
 - c. Highest production achieved in any one year
 - d. Detail of approved depth of mining.
 - e. Actual depth of the mining achieved earlier.
 - f. Name of the person already mined in that leases area.
 - g. If EC and CTO already obtained, the copy of the same shall be submitted.
 - h. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
14. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
15. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
16. The PP shall furnish the revised manpower including the statutory & competent persons as required under the provisions of the MMR 1961 for the prosed quarry based on the volume of rock handled & area of excavation.
17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining

plan.

18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act 1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human

settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
28. Impact on local transport infrastructure due to the Project should be indicated.
29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
31. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
32. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
33. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.

34. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
35. 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 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.
36. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site-specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
37. A Disaster Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
38. A Risk Assessment and Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
39. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
40. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.

41. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
42. Details of litigation pending against the project, if any, with direction/order passed by any Court of Law against the Project should be given.
43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
44. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
45. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
46. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda No: 368-25.

(File No: 9405/2022)

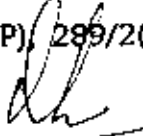
Proposed Rough Stone and Gravel quarry lease over an extent of 3.74.0 Ha at S.F.No. 289/1A(P), 289/2(P) and 161/1A(P), Irukkandurai Part-II Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu by Tvl. Hi Tech Rock Products & Aggregates Limited - for Environmental Clearance. (SIA/TN/MIN/ 421375/2023, Dt: 08.03.2023).

The proposal was placed in 367th SEAC meeting held on 31.03.2023. 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, Tvl. Hi Tech Rock Products & Aggregates Limited has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of 3.74.0 Ha at S.F.No. 289/1A(P), 289/2(P) and


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161/1A(P) of Irukkandurai Part-II Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. Production for Five years should not exceed 3,39,970m³ of Rough stone, 2,47,630m³ of Weathered Rock & 57,796m³ of Gravel. The annual peak production is 68,380m³ of Rough stone (5th year), 2,74,250m³ of Weathered Rock (1st year) & 57,796m³ of Gravel (1st year). The ultimate depth is 47 m BGL.
4. ToR issued vide Lr No.SElAA-TN/F.No.9405/ToR-1260/2022 Dated: 26.09.2022.
5. Public hearing conducted on 11.01.2023.

Now the proposal was placed in 368th SEAC meeting held on 19.04.2023.

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Tvl. Hi Tech Rock Products & Aggregates Limited P.B. No. 979 Mount Poonamalle Road Manpakkam Chennai - 600089
2	Type of quarrying	Rough Stone and Gravel
3	S.F No. of the quarry site	289/1A(P), 289/2(P) and 161/1A(P)
4	Village in which situated	Irukkandurai Part-II
5	Taluk in which situated	Radhapuram
6	District in which situated	Tirunelveli
7	Extent of quarry (in ha.)	3.74.0 Ha
8	Latitude & Longitude of all corners of the quarry site	08°11'48.79"N to 08°11'54.89"N 77°40'48.66"E to 79°54'54.37"E
9	Topo Sheet No.	58 H/12

10	Type of mining	Open cast Semi Mechanized Method Mining
11	Period of current mine plan	5 Years
12	Production (Quantity in m ³)	As per the mining plan, the lease period is for 5 years. Production for Five years should not exceed 3,39,970m ³ of Rough stone, 2,47,630m ³ of Weathered Rock & 57,796m ³ of Gravel. The annual peak production is 68,380m ³ of Rough stone (5 th year), 2,74,250m ³ of Weathered Rock (1 st year) & 57,796m ³ of Gravel (1 st year). The ultimate depth is 47 m BGL
13	Depth of mining	47 m BGL
14	Depth of water table	66m BGL
15	Man Power requirement	38 Employees
16	Water requirement: 4. Domestic & Flushing 5. Dust suppression 6. Green Belt	10.0 KLD 1.0 KLD 8.0 KLD 1.0 KLD
17	Power requirement	TNEB
18	Precise area communication approved by the Assistant Director, Dept. of G&M with date	Rc.No.M2/38650-3/2019 Dated:11.05.2022
19	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.M2/38650-3/2019 Dated:14.05.2022
20	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.M2/38650-3/2019 Dated:14.05.2022

21	VAO certificate regarding habitations in 300m radius	Letter Dated :19.07.2022
22	Project Cost (excluding EMP)	Rs.1,03,24,000
23	EMP cost	Rs.47.28 lakhs
24	ToR details	Lr.No.SEIAA-TN/F.No.9405/ToR-1260/2022 Dated: 26.09.2022.
25	Public hearing details	Public hearing conducted on 11.01.2023
26	EIA report submitted on	Dated: 10.03.2023
27	CER Cost	Rs.5 lakhs

Based on the presentation & documents furnished, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production of 3,39,970m³ of Rough Stone, 2,47,630m³ of Weathered Rock & 57,796m³ of Gravel and the annual peak production shall not exceed 68,380m³ of Rough Stone, 2,74,250m³ of Weathered Rock & 57,796m³ of Gravel by maintaining the ultimate depth of mining of 47m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. As per minutes of public hearing the PP shall upgrade the condition of the existing motorised road leading to/passing through the village and state highway as per the IRC Guidelines with good pavements at the both sides, within one year from the commencement of quarrying operations.
3. The PP shall also install the well-designed, comfortable bus-stop shelters along with the solar street lighting in the haul road beside maintaining the

greenish road side plantation within one year from the commencement of quarrying operations.

4. The PP shall completely adopt the 'Electronic detonators' technology instead of 'NONEL shock tube' as the initiation system in all the blasts to be carried out in the quarry so as to provide precise delay timing for effective control of the environmental impacts due to blasting such as fly rock, blast-induced ground vibrations.
5. 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.
6. 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.
7. The PP shall Inform the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
8. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in DGMS approved Group Vocational Training Centre, Pandaigudi (or) Trichy.
9. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the development activities from west to east direction keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
10. 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.

11. 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.
12. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
13. The PP shall carry out maximum of TWO rounds of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 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 a day to reduce the environmental impacts effectively.
14. 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 cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarries in a cluster situation by adopting appropriate controlled blasting techniques', by involving any of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM/Bangalore, 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.
15. The PP shall obtain necessary permission for carrying out the 'Deep-hole large diameter drilling and blasting' from the DMS, Chennai Region without fail.

16. The PP shall make necessary arrangements for continuous monitoring of the blast-induced ground vibration at the sensitive structures located within 500 m from the site of the blasting such as wind mill, etc and the compliance report on the aforesaid vibration monitoring shall be send to the AD (Mines) & the DMS, Chennai Region once in six months.
17. 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.
18. 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.
19. The PP shall prepare a Standard Operating Procedure that the blasting operations shall be carried out in the cluster situation 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.
20. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
21. 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.
22. 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.
23. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.

24. As accepted by the Project proponent the CER cost is Rs.5 lakhs and the amount shall be spent for (i) Carrying out plantation in 5 acres identified land near KKNPP (ii) Carrying out plantation and development of infrastructural facilities in the nearby Government school as committed, before obtaining CTO from TNPCB.

Agenda No: 368-26

(File No: 9406/2022)

Proposed Rough Stone and Gravel quarry lease over an extent of 3.98.1 Ha at S.F.No. 282/3B(P), 283/2(P), 278/2(P), 277/1B(P), 284/1A1(P) & 284/2(P), Irukkandurai Part-II Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu by Tvl. Hi Tech Rock Products & Aggregates Limited - for Environmental Clearance. (SIA/TN/MIN/421303/2023, Dt: 08.03.2023).

Earlier, this proposal was placed in 367th SEAC meeting held on 31.03.2023. 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, Tvl. Hi Tech Rock Products & Aggregates Limited has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of 3.98.1 Ha at S.F.No. 282/3B(P), 283/2(P), 278/2(P), 277/1B(P), 284/1A1(P) & 284/2(P), Irukkandurai Part-II Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. Production for Five years 509875m³ of rough stone, 295390m³ of Weathered Rock & 67550 m³ of Gravel. The annual peak production is 143375 m³ of rough stone (2nd year), 295390m³ of Weathered Rock (1st year) & 67550m³ of Gravel (1st year). The ultimate depth is 57 m BGL.
4. ToR issued vide Lr No. SEIAA-TN/F.No.9406/ToR-1262/2022 Dated: 26.09.2022.
5. Public hearing conducted on 11.01.2023.

Based on the presentation, SEAC decided to defer the project and to take up the proposal in the forthcoming meeting.


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Now, the PP has furnished the Revised production quantity for the period of five years after leaving safety distance 150m from windmill should not exceed 4,63,470 cu.m of Rough Stone, 2,91,930m³ of Weathered Rock and 67,164 m³ of Gravel. The annual peak production is 143375 cu.m of rough stone (2nd year), 295390 cu.m of Weathered Rock & 67550 Cu.m of Gravel (1st year). The ultimate depth is 47m BGL

The salient features of the proposed mining project are given below.


Sl. No	Details of the Proposal	Data Furnished
1.	Name of the Owner/Firm	Tvl. Hi-Tech Rock Products & Aggregates Limited, P.B. No. 979, Mount Poonamalee Road, Manapakkam, Chennai - 600 089.
2.	Type of quarrying	Rough Stone and Gravel
3.	S.F No. of the quarry site	282/3B(P), 283/2(P), 278/2(P), 277/1B(P), 284/1A1(P) and 284/2(P)
4.	Village in which situated	Irukkandurai Part-II
5.	Taluk in which situated	Radhapuram
6.	District in which situated	Tirunelveli
7.	Extent of quarry (in ha.)	3.981 Ha
8.	Latitude & Longitude of all corners of the quarry site	08°11'48.80"N to 80°11'56.76"N 79°39'54.64"E to 79°40'01.59"E
9.	Topo Sheet No.	58-H/12
10.	Type of mining	Opencast Mechanized Mining
11.	Period of current mine plan	5 Years
12.	Production (Quantity in m ³)	4,63,470 m ³ of Rough Stone, 2,91,930m ³ of Weathered Rock and 67,164 m ³ of Gravel
13.	Depth of mining	47m
14.	Depth of water table	66m BGL
15.	Man Power requirement	38 Nos
16.	Water requirement: 4. Domestic & Flushing 5. Dust suppression 6. Green Belt	10.0 KLD 1.0 KLD 8.0 KLD 1.0 KLD
17.	Power requirement a. Domestic purpose	TNEB

18.	Precise area communication approved by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.M2/38650-1/2019, dated: 11.05.2022
19.	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.M2/38650-1/2019, dated: 14.05.2022
20.	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.M2/38650-1/2019, dated: 14.05.2022
21.	VAO certificate regarding habitations in 300m radius	Letter dated 27.02.2023
22.	Project Cost (excluding EMP)	Rs. 98,88,600/-
23.	EMP cost	Capital Cost – Rs. 32.26 lakhs Recurring Cost – Rs. 28.35 lakhs
24.	CER cost	Rs. 5,00,000/-

Based on the presentation & documents furnished. SEAC decided to recommend the proposal for the grant of Environmental Clearance **after leaving safety distance 150m from windmill** for the period of 5 Years and the ultimate depth of mining is upto 47m BGL and for the production not exceed 4,63,470 cu.m of Rough Stone, 2,91,930m³ of Weathered Rock and 67,164 m³ of Gravel. The annual peak production is 143375 cu.m of rough stone (2nd year), 295390 cu.m of Weathered Rock & 67550 Cu.m of Gravel (1st year) subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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. As per minutes of public hearing the PP shall upgrade the condition of the existing motorised road leading to/passing through the village and state highway as per the IRC Guidelines with good pavements at the both sides, within one year from the commencement of quarrying operations.


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3. The PP shall also install the well-designed, comfortable bus-stop shelters along with the solar street lighting in the haul road beside maintaining the greenish road side plantation within one year from the commencement of quarrying operations.
4. The PP shall completely adopt the 'Electronic detonators' technology instead of 'NONEL shock tube' as the initiation system in all the blasts to be carried out in the quarry so as to provide precise delay timing for effective control of the environmental impacts due to blasting such as fly rock, blast-induced ground vibrations.
5. 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.
6. 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.
7. The PP shall inform the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
8. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in DGMS approved Group Vocational Training Centre, Pandalgudi (or) Trichy.
9. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the development activities from west to east direction keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
10. 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.

11. 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.
12. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
13. The PP shall carry out maximum of TWO rounds of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 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 a day to reduce the environmental impacts effectively.
14. 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 cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarries in a cluster situation by adopting appropriate controlled blasting techniques', by involving any of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM/Bangalore, 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.


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15. The PP shall obtain necessary permission for carrying out the 'Deep-hole large diameter drilling and blasting' from the DMS, Chennai Region without fail.
16. The PP shall make necessary arrangements for continuous monitoring of the blast-induced ground vibration at the sensitive structures located within 500 m from the site of the blasting such as wind mill, etc and the compliance report on the aforesaid vibration monitoring shall be send to the AD (Mines) & the DMS, Chennai Region once in six months.
17. 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.
18. 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.
19. The PP shall prepare a Standard Operating Procedure that the blasting operations shall be carried out in the cluster situation 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.
20. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
21. 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.
22. 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.


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

24. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the plantation in 5 acres identified land nearby KKNPP and to carry out plantation and infrastructural development in the nearby schools and model road with Bus stop shelter facility for the village road as committed, before obtaining CTO from TNPCB

Agenda No: 368-27

(File No: 9407/2022)

Proposed Rough Stone and Gravel quarry lease over an extent of 4.71.40Ha at S.F.No.290/1B(P), 290/2(P), 291/2B(P), 287/3(P), 160/1A(P), 289/1A(P) & 289/2(P) Irukkandurai Part-II Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu by Tvl. Hi Tech Rock Products & Aggregates Limited - for Environmental Clearance.

(SIA/TN/MIN/421328/2023, Dt: 08.03.2023).

Earlier, the proposal was placed in the 367th Meeting of SEAC held on 31.03.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to defer and to take up the proposal in the forthcoming Committee meeting.

The proposal was again placed in the 368th SEAC Meeting held on 19.04.2023. 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, Tvl. Hi Tech Rock Products & Aggregates Limited has applied for Environmental Clearance along with EIA/EMP report for the proposed Rough Stone and Gravel quarry lease over an extent of 4.71.40 Ha at S.F.No.290/1B(P), 290/2(P), 291/2B(P), 287/3(P), 160/1A(P), 289/1A(P) & 289/2(P) Irukkandurai Part-II Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. 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 678900 cu.m of rough stone, 359325 Cu.m of Weathered Rock & 81618 Cu.m of Gravel. The annual peak production is 199740 cu.m of


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rough stone (3rd year), 359325 Cu.m of Weathered Rock (1st year) & 81618 Cu.m of Gravel (1st year). The ultimate depth is 57 m BGL.

4. Terms of Reference (ToR) along with public hearing issued vide Lr.No. SEIAA-TN/F.No.9407/ToR-1261/2022 Dated: 26.09.2022.
5. Public Hearing meeting held on 10.01.2023.
6. As per ToR issued, production quantity for the period of five years should not exceed 625475 cu.m of Rough Stone, 359325 cu.m of Weathered Rock & 81618 Cu.m of Gravel. The ultimate depth is 47m BGL.
7. Revised production quantity for the period of five years after leaving safety distance 150m from windmill should not exceed 5,39,175 cu.m of Rough Stone, 3,24,805 cu.m of Weathered Rock & 74,472 Cu.m of Gravel. The annual peak production is 108475 cu.m of rough stone (4th year), 324805 cu.m of Weathered Rock & 74472 Cu.m of Gravel (1st year). The ultimate depth is 47m BGL.

The salient features of the proposed mining project are given below.

Sl. No	Details of the Proposal	:	Data Furnished
1	Name of the Owner/Firm	:	TVL. Hi-Tech Rock Products & Aggregates Limited, Mount poonamalee Road, Manapakkam, P.B.No.979, Chennai – 600089.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Rough Stone & Gravel
3	S.F No. of the quarry site with area break-up	:	290/1B(P), 290/2(P), 160/1A(P), 289/1A(P), 289/2(P)
4	Village in which situated	:	Irukkandurai Part-II
5	Taluk in which situated	:	Radhapuram
6	District in which situated	:	Tirunelveli
7	Extent of quarry (in ha.)	:	4.71.4Ha
8	Latitude & Longitude of all corners of the quarry site	:	08°11'55.56"N to 08°12'02.74"N 79°40'09.98"E to 79°40'18.79"E
9	Topo Sheet No.	:	58 – H/12

10	Type of mining	Opencast Semi-Mechanized Mining
11	Period of quarrying proposed	: 5 years
12	Production (Quantity in m ³)	: 5,39,175 cu.m of Rough Stone, 3,24,805 cu.m of Weathered Rock & 74,472 Cu.m of Gravel
13	Depth of quarrying	: 47m BGL
14	Depth of water table	: 66m-63m BGL
15	Man Power requirement per day:	44Nos.
16	Source of Water Requirement	water vendors
17	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	: 10.0 KLD 1.0 KLD 8.0 KLD 1.0 KLD
18	Power requirement	TNEB
19	Whether any habitation within 300m distance	: No
20	Precise area communication approved by the, District Collector, with date	: Rc.No.M2/38650-2/2019, dt:11.05.2022
21	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Rc.No.M2/38650-2/2019, dt:14.05.2022
22	Assistant Director, Department of Geology and Mining 500m cluster letter	Rc.No.M2/38650-2/2019, dt:14.05.2022
23	VAO certificate regarding 300m radius cluster	Letter dt: 19.07.2022
24	Project Cost (excluding EMP cost)	: Rs.119.28 Lakhs
25	EMP cost	: Rs.193.45 Lakhs/5 Years including capital cost & 5% inflation cost for every year of recurring cost.
26	CER cost	Rs.5.00 Lakhs

Based on the presentation & documents furnished. SEAC decided to recommend the proposal for the grant of Environmental Clearance **after leaving safety distance 150m from windmill** for the period of 5 Years and the ultimate depth of mining is upto 47m BGL and for the production of 5,39,175 cu.m of Rough Stone, 3,24,805 cu.m of


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Weathered Rock & 74,472 Cu.m of Gravel and the annual peak production shall not exceed 108475 cu.m of rough stone, 324805 cu.m of Weathered Rock & 74472 Cu.m 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. As per minutes of public hearing the PP shall upgrade the condition of the existing motorised road leading to/passing through the village and state highway as per the IRC Guidelines with good pavements at the both sides, within one year from the commencement of quarrying operations.
3. The PP shall also install the well-designed, comfortable bus-stop shelters along with the solar street lighting in the haul road beside maintaining the greenish road side plantation within one year from the commencement of quarrying operations.
4. The PP shall completely adopt the 'Electronic detonators' technology instead of 'NONEL shock tube' as the initiation system in all the blasts to be carried out in the quarry so as to provide precise delay timing for effective control of the environmental impacts due to blasting such as fly rock, blast-induced ground vibrations.
5. 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.
6. 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 DGM5 Circular.


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11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.

7. The PP shall inform the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
8. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in DGMS approved Group Vocational Training Centre, Pandalgudi (or) Trichy.
9. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the development activities from west to east direction keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
10. 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.
11. 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.
12. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
13. The PP shall carry out maximum of TWO rounds of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the

houses/structures located at a distance of 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 a day to reduce the environmental impacts effectively.

14. 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 cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarries in a cluster situation by adopting appropriate controlled blasting techniques'. by involving any of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM/Bangalore, 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.
15. The PP shall obtain necessary permission for carrying out the 'Deep-hole large diameter drilling and blasting' from the DMS, Chennai Region without fail.
16. The PP shall make necessary arrangements for continuous monitoring of the blast-induced ground vibration at the sensitive structures located within 500 m from the site of the blasting such as wind mill, etc and the compliance report on the aforesaid vibration monitoring shall be send to the AD (Mines) & the DMS, Chennai Region once in six months.
17. 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.
18. 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.
19. The PP shall prepare a Standard Operating Procedure that the blasting operations shall be carried out in the cluster situation 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.

20. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
21. 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.
22. 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.
23. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
24. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the plantation in 5 acres identified land nearby KKNPP and to carry out plantation and Infrastructural development in the nearby schools and model road with Bus stop shelter facility for the village road as committed, before obtaining CTO from TNPCB.

Agenda No: 368 – TA-1

(File No: 8159/2020)

Proposal to utilize the existing buildings & the additional buildings are proposed for the purpose of Hospital Building Complex in the name of "PSP Medical College Hospital and Research Institute" at S.F.No. 527/1, 527/2A, 527/2B, 527/3, 530/1A1, 530/2, 531/1B1, 531/2A, 532/1A, 532/1B, 532/2, 533/1, 533/3 of Panruti B Village, Sriperumbudur Taluk, Kancheepuram District by M/s. Periyasamy Pillai Educational Trust - For Environmental clearance. (SIA/TN/MIN/188098/2020 dated 15.12.2020)

The proposal was placed in the ^{368th} SEAC Meeting held on ^{19.} .04.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


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The SEAC noted the following:

1. The Project Proponent, M/s. Periyasamy Pillai Educational Trust has applied seeking Environmental Clearance to utilize the existing buildings & the additional buildings are proposed for the purpose of Hospital Building Complex in the name of "PSP Medical College Hospital and Research Institute" at S.F.No. 527/1, 527/2A, 527/2B, 527/3, 530/1A1, 530/2, 531/1B1, 531/2A, 532/1A, 532/1B, 532/2, 533/1, 533/3 of Panruti B Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, this proposal was placed before 194th SEAC held on 18.01.2021 and the SEAC decided to seek the following from the Proponent:
 - a. Whether this place is suitable for Hospital? Copy of approval for shifting the Polytechnic from this location and converting the Polytechnic to Hospital shall be furnished.
 - b. It is not clear how many blocks are to be demolished, how many are going to be reconstructed, quantum of demolition waste and the mode of disposal as per Construction and Demolition Waste Rules 2016, etc shall be furnished.
 - c. Certificate of Demolition of existing buildings obtained from Competent Authority shall be furnished.
 - d. As the existing buildings have been proposed to be used as Hospital, the Proponent shall obtain Stability Certificate from a reputed Government Institution like IIT, Anna University etc
 - e. The proponent shall furnish the design details of Sewage Treatment Plant, Effluent Treatment and Grey water Treatment Plant.
 - f. Grey water Treatment Plant and dual pipeline system shall be provided in the new buildings, and the detailed reuse plan of the treated wastewater may be provided.
 - g. A detailed storm water plan to drain out the water entering the site during heavy rain shall be prepared in accordance with the contour levels of the

proposed project considering the surrounding development.

- h. The Proponent shall furnish the average value of Ambient Noise Level Monitoring survey conducted for 24 hrs and mention the distance from the site where the survey has been carried out.
 - i. The Proponent shall obtain and furnish building plan for all the buildings proposed.
 - j. The Proponent shall obtain and furnish Fire and Safety NOC for the project.
 - k. Detailed report on Biomedical waste storage, handling and management shall be provided.
 - l. Solar energy utilization should be at least 10% of total energy consumption. Solar energy usage mainly for the illumination of common areas, street lighting etc.,
4. Subsequently, the proponent vide Lr Dt. 10.3.2021 has furnished the reply along with clarification on above said quires raised by SEAC.
5. Under the above circumstance the proposal was again placed in 255th SEAC Meeting held on 18.3.2022. Based on the presentation, document furnished and clarification given by the proponent, SEAC noted that the project proponent has obtained structural stability certificate from Dept. of Civil Engineering, Anna University, Chennai with the following conditions a). Rehabilitation shall be carried out as per the methodologies specified by M/s Hitech Concrete Solutions to satisfy the requirements of latest Indian Standards and b). No additional loads shall be added to the structure until rehabilitations are carried out.
6. Since the proposed hospital building project to be carried out in the existing structure, the Committee instructed the project proponent to comply with the above measures to strengthen the existing structure and get a certificate from Annan University that the modifications have been carried out as stipulated and the stability of the structural is ensured. The proponent shall also produce an affidavit stating that no additional load will be added to the old structure during its lifetime.
7. Further, during the appraisal proponent requested to exclude the following S.F.No. as these covered educational institutions for which EC is not required.

The survey numbers as mentioned in the original application seeking Environmental Clearance for the hospital building complex and the survey numbers corresponding to the educational institution campus are as follows:

S.F. Nos. as per EC Application	S.F. Nos. falling under hospital building complex	S.F. Nos. falling under educational institution
S.F.Nos. 524/1, 526, 527/1, 527/2A, 527/2B, 527/3, 530/1, 530/1A1, 530/2, 531/1B, 531/1B1, 531/2, 531/2A, 532/1A, 532/1B, 532/2, 533/1, 533/2, 533/3, 535, 536/1, 536/2, 537/1A, 537/1B, 537/2, 537/3A, 537/3, 537/3B, 538/1, 538/2, 538/3, 538/4, 539, 540/6, 540/7	S.F.Nos. 524/1, 526, 527/1, 527/2A, 527/2B, 527/3, 530/1, 530/1A1, 530/2, 531/1B, 531/1B1, 531/2, 531/2A, 532/1A, 532/1B, 532/2, 533/1, 533/2, 533/3, 537/1A, 537/1B, 537/2, 537/3A, 537/3, 537/3B, 538/1, 538/2, 538/4, 539, 540/6, 540/7	S.F. Nos. 535, 536/1, 536/2, 538/3

8. Earlier the proposal was placed in 351st SEAC meeting held on 03.02.2023. Based on the presentation and documents furnished by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance.
9. Subsequently, the proposal was placed in 596th SEIAA meeting held on 22.02.2023 & 23.02.2023. The Authority after detailed deliberation, decided to call for additional details
 1. The proponent is requested to submit the CMDA/DTCP approval and completion certificate for the educational institution located within the hospital building premises.
 2. The proponent is requested to submit the built – up area of the educational institution located within the hospital building premises and further the proponent is requested to submit the individual built up area of the educational institution located in the premises owned by the proponent.
 3. The PP shall furnish the Traffic analysis report.
 4. The PP shall furnish the gap-analysis studies undertaken by the concerned SPCBs/PCCs duly highlighting the difference in the BMW generated vis-à-vis the treatment capacity available.

5. The PP shall furnish the agreement made with the HCFs/CBWTFs to prevent illegal dumping of BMW.

Upon the receipt of aforesaid details, further deliberation shall be done.

10. Subsequently, based on the reply furnished by the proponent, the proposal was placed for deliberation in 610th SEIAA meeting held on 11.04.2023. Based on the reply furnished by the proponent, SEIAA noted that

1. The proponent had obtained the planning permission from DTCP vide Rc.No.1148/2020/Ka.Ma.2 Dated: 08.012021 for the construction of medical college, nursing college and administrative buildings in the total land extent of 1,02,920 Sq.m. with total built-up area of 1,08,1275.74 Sq.m.
2. From the KML file uploaded by the proponent in Parivesh Portal, it is ascertained that the proponent had carried out construction activity in the southern portion of the proposed site. As per the Form – 1A submitted by the proponent in Parivesh Portal, the project site consists of existing building and three additional buildings & Other utility buildings are proposed in the said location.

Further from the area statement submitted by the proponent through letter received on 05.04.2023 to O/o SEIAA, it is ascertained that Block A, Block B and Block C are existing structures and Block D, Block E, Block F and Other Utilities are proposed additional buildings.

Area Statement - Hospital Components:

Block Name	Number of Floors	Existing (Sq.m)	Proposed (Sq.m)	Built-up Area (Sq.m)
Block A (Main Hospital)	G+3	2,049	15,593	17,644
Block B (IPD)	G+2	9,891		9,891
Block C (OPD)	G+2	5,066		5,066
Block D (IPD 2)	G+4		12,436	12,436
Block E (Hospital Service Block)	G+3		6,202	6,202
Block F (Manifold)	G+2		264	264
Other Utilities (Security Room, STP, ETP Pump Room, Power House, Laundry, OWC Area, Biomedical Waste Handling Room, DO Room)			1,000	1,000
Total Built-up Area (Sq.m)		17,006	35,497	52,503

Based on the above area statement and Master Plan submitted by the proponent, it is ascertained that

- a) Block A, B & C are existing structures and Block D, E & F are proposed to be constructed after obtaining EC.
- b) Further, an additional building has been constructed by the proponent to the West of Block D and North of Block E & proposed Green Belt Area.
- c) The proponent has proposed to develop Green Belt area in the south west side of the tail end portion as per the master plan. Subsequently, proponent had completed construction in the area earmarked for Green Belt Development. Further, the proponent has stated in Form 1A that 15% of the project site area is proposed for Green Belt development. Hence, the proponent is requested to clarify.

3. The proponent has not uploaded the annexure copies from I to XVI in Parivesh Portal. Hence, the proponent may be requested to upload the annexures online in Parivesh portal.

In the view of the above, Authority decided to refer back to SEAC for examination and recommendation.

11. Area Breakup – Built-up Area

Block Name	Number of Floors	Existing (Sq.m)	Proposed (Sq.m)	Built-up Area (Sq.m)
Block A (Main Hospital)	G+3	2,049	15,595	17,644
Block B (IPD)	G+2	9,891	-	9,891
Block C (OPD)	G+2	5,066	-	5,066
Block D (IPD 2)	G+4	-	12,436	12,436


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Other Utilities (Security Room, STP, ETP Pump Room, Power House, Laundry, OWC Area, Biomedical Waste Handling Room, DG Room)	-	-	1,000	1,000
Total Built-up Area (Sq.m)	-	17,006	29,031	46,037

12. Area Breakup – Land Use

Description	Area in (Sq.m)	Percentage (%)
a) Total Land Area	52,205	100
b) Total Ground Coverage Area of Hospital Buildings (Requiring EC)	12,572	24.1
c) Roads and Pavements Area	12,530	24.0
d) OWC Area, Security Room and Other Utilities Area (Transformer Yard, HSD Yard)	1,000	1.9
e) Greenbelt Area	7,935	15.2
f) Surface Parking	3,609	6.9
g) OSR Area	5,220	10.0
h) Institution Building Area (Not required Environmental Clearance)	9,339	17.9

13.

Survey Nos. (Hospital Buildings - Requiring EC)	S. F. Nos. 531/1B1, 531/2A, 530/1A1, 530/2, 532/1A, 532/1B, 532/2, 533/1, 533/3, 527/1, 527/2B, 527/2A, 527/3
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S.No.	QUERY	REPLY
1.	Block A, B and C are existing structures and Block D, E & F are proposed to be constructed after obtaining EC.	<ul style="list-style-type: none"> • We wish to inform you that Block A Partly Existing and additional area is proposed. Block B and Block are existing structures. • Block D are proposed for hospital complex and the block will be constructed after obtaining Environmental Clearance. • Block E & F are meant for housing institutional components (lab and research facilities) for the college departments with total built-up area of 6,466 Sq.m. • Hence, we request Environmental Clearance for the hospital blocks (Block A, B, C and D) with total built-up area of area of 46,037 Sq.m.
2.	Further, an additional building has been constructed by the proponent to the West of Block D and North of Block E & proposed Green belt Area.	<ul style="list-style-type: none"> • We wish to inform you that blocks constructed are part of educational institution. • We have obtained planning permission from DTCP for the construction of medical college, nursing college and administrative buildings in the total land extent of

		<p>1,02,920 Sq.m. with total built-up area of 1,08,275.74 Sq.m.</p> <ul style="list-style-type: none"> We are requesting Environmental Clearance only for the hospital blocks based on the MoEF&CC Office Memorandum dated 09.06.2015.
3.	<p>The proponent has proposed to develop Green belt area in the south west side of the tail end portion as per the master plan. Subsequently, proponent had completed construction in the area earmarked for Green belt Development. Further, the proponent has stated in Form 1A that 15% of the project site area is proposed for Green belt development. Hence, the proponent is requested to clarify.</p>	<ul style="list-style-type: none"> We wish to inform you that blocks constructed are part of educational institution. We will maintain the greenbelt as 15 % of total plot area (7,935 Sq.m) and the revised greenbelt drawing is furnished herewith.
4.	<p>The proponent has not uploaded the annexure copies from I to XVI in Parivesh Portal. Hence, the proponent may be requested to upload the annexures online in Parivesh Portal.</p>	<ul style="list-style-type: none"> We have uploaded the Annexure copies from I to XVI in the parivesh portal.

Now the proposal was placed in the ^{368th} SEAC meeting held on ^{19.} .04.2023. Based on the presentation and documents furnished and SEAC after carefully examining the reply furnished by the proponent, decided to reiterate its recommendation already made in its 351st SEAC meeting held on 03.02.2023 with all the other conditions remaining unaltered.

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.
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 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 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.

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.
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>	Marjedi	மஞ்சள், ஆனந்தகுந்தியை
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Maruthurai	மந்திரை
6	<i>Bauhinia racemosa</i>	Aathi	அத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவத்தி
8	<i>Buchanania axillaris</i>	Kattuma	கட்டும்
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murakkamarum	முருக்கமரம்
11	<i>Bolus caba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Celophyllum inophyllum</i>	Pinnai	பினை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொண்டை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொண்டை
15	<i>Chloroxylon swietenia</i>	Purasamaram	புரசம் மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Marjallavu	கொங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvali	நருவலி
18	<i>Creteia adansoni</i>	Mavalingum	மாவலிங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sebenum</i>	Karungali	கருங்கலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகை
23	<i>Ficus amplissima</i>	Kallitchi	கல் இச்சி
24	<i>Hibiscus tiliaceus</i>	Aatrupoovarasu	அத்தர்புலக
25	<i>Hardwickia binata</i>	Aacha	அச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயில் மரம், ஆயிலி
27	<i>Lannea coromandelica</i>	Odham	ஒதம்
28	<i>Lagerstrœmia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lapianthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	வில்லா மரம்
31	<i>Litsea glutinos</i>	Plainpattai	அழகில் பிளம்பட்டை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UllakkiPaalai	உல்லக்கை பழை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனா
38	<i>Phoenix sylvestre</i>	Eachai	எச்சை
39	<i>Pongamia pinnat</i>	Pungam	புளம்

40	<i>Prunus mollissima</i>	Minnai	முண்டை
41	<i>Prunus serratifolia</i>	Narumalai	நடி முண்டை
42	<i>Prunus tomentosa</i>	Malaipoovaram	மலைப் பூங்கா
43	<i>Prosopis cinerea</i>	Vanni maram	வண்டி மரம்
44	<i>Pterocarpus marsipium</i>	Vengai	வேங்கை
45	<i>Pterospermum comosum</i>	Vennangu, Tada	வேண்டாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Putterlickia ruxbergii</i>	Karipala	கரிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புளன் சோபுகை
50	<i>Sarcia asoca</i>	Asoca	அசோகா
51	<i>Strobilus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேர்தங்க கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாந்தரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேன் மருது
57	<i>Toona ciliata</i>	Sandhura vembu	சந்தூர் வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecollobium dulce</i>	Kodukkapuli	கோடுக்கப்பூரி


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

-----சாரங்கம்

சுற்றுச்சூழல் குவாடி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வரங்கப்பட்டிருக்கிறது SEAC-TN, தேதி: 21.01.2023, சுற்றுச்சூழல் அனுமதி _____ தேதி வரை செல்லத்தக்கதாக உள்ளது.

பயணப் பகுதி வகைப்பாடு செயல்பாடுகளுக்கான சுற்றுச்சூழல் திட்டம்	குவாடியின் எல்லைகளால் சுற்றி கோடி அமைக்க வேண்டும். வழங்கப்படுகின்ற ஆழம் தரமான திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும்.
நடவடிக்கை புறநகரில் உள்ள வேளாண் மரங்களின் எண்ணிக்கை:	கனத்தில் மரம் ஏற்படாதவாறு வடிகால் பாய்ச்சலை மேற்கொள்ள வேண்டும். வாகனங்கள் செல்லும் பாதையில் மரம் ஏற்படாத அளவிற்கு நவீனவியல் முறைகளாக நவீனவியல் வகையில் மரங்கள் அமைப்பதோடு தெரிக்க வேண்டும்.
சுற்றுச்சூழல் அமைப்புகள் சுற்றுச்சூழல் தரமான திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும்.	இனங்கள் அமைப்புகள் தரமான திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும். குவாடியின் எல்லைகளால் சுற்றி அடக்கப்பட்ட பயணப் பகுதியை ஏற்படுத்த வேண்டும்.
சுற்றுச்சூழல் திட்டம் சுற்றுச்சூழல் திட்டம்	சுற்றுச்சூழல் திட்டம் தயார் செய்து திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும். சுற்றுச்சூழல் திட்டம் தயார் செய்து திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும்.
சுற்றுச்சூழல் திட்டம் சுற்றுச்சூழல் திட்டம்	சுற்றுச்சூழல் திட்டம் தயார் செய்து திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும். சுற்றுச்சூழல் திட்டம் தயார் செய்து திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும்.
சுற்றுச்சூழல் திட்டம் சுற்றுச்சூழல் திட்டம்	சுற்றுச்சூழல் திட்டம் தயார் செய்து திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும். சுற்றுச்சூழல் திட்டம் தயார் செய்து திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும்.
சுற்றுச்சூழல் திட்டம் சுற்றுச்சூழல் திட்டம்	சுற்றுச்சூழல் திட்டம் தயார் செய்து திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும். சுற்றுச்சூழல் திட்டம் தயார் செய்து திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும்.
சுற்றுச்சூழல் திட்டம் சுற்றுச்சூழல் திட்டம்	சுற்றுச்சூழல் திட்டம் தயார் செய்து திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும். சுற்றுச்சூழல் திட்டம் தயார் செய்து திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும்.
சுற்றுச்சூழல் திட்டம் சுற்றுச்சூழல் திட்டம்	சுற்றுச்சூழல் திட்டம் தயார் செய்து திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும். சுற்றுச்சூழல் திட்டம் தயார் செய்து திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும்.
சுற்றுச்சூழல் திட்டம் சுற்றுச்சூழல் திட்டம்	சுற்றுச்சூழல் திட்டம் தயார் செய்து திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும். சுற்றுச்சூழல் திட்டம் தயார் செய்து திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும்.
சுற்றுச்சூழல் திட்டம் சுற்றுச்சூழல் திட்டம்	சுற்றுச்சூழல் திட்டம் தயார் செய்து திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும். சுற்றுச்சூழல் திட்டம் தயார் செய்து திட்டமிடப்பட்ட பிளாட்டில் இருக்க வேண்டும்.


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