

Minutes of the Meeting of 294th State Expert Appraisal Committee (SEAC) held on 14th July 2022 (Thursday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for Appraisal of Building and Construction Projects, Townships and Area Development Projects & Mining projects through online and offline mode.

Agenda No: 294-01

(File No: 6174/2021)

Existing Lime stone quarry lease over an extent of 4.09.5ha at S.F.Nos. 24/1F, 29/2B, 29/2F, 34/1, 34/2, 34/3, 34/4, 34/5, 34/6, 34/7, 34/8, 34/9, 34/10, 34/11, 34/12 & 34/13 in Pandapuli Village, Sankarankovil Taluk, Tirunelveli District, Tamil Nadu by M/s. Murali Enterprises - For Environmental Clearance under Violation.

(SIA/TN/MIN/59153/2020, dated: 19.12.2020)

1. The Proponent, M/s. Murali Enterprises has applied for Environmental Clearance for the Existing Limestone quarry lease over an extent of 4.09.5ha at S.F.Nos. 24/1F, 29/2B, 29/2F, 34/1, 34/2, 34/3, 34/4, 34/5, 34/6, 34/7, 34/8, 34/9, 34/10, 34/11, 34/12 & 34/13 in Pandapuli Village, Sankarankovil Taluk, Tirunelveli 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. Terms of Reference under violation issued by SEIAA-TN vide Lr No. SEIAA-TN/F.No.6174/ TOR-342/2018, dated: 14.05.2018.
4. Amendment to the Terms of Reference was issued vide SEIAA-TN vide Lr No. SEIAA- TN/F.No.6174/SEAC-CXVIII/TOR-342(A)/2018Dated:30.07.2018.
5. Public hearing was conducted on 26.11.2020 and the Minutes was received from TNPCB vide Lr.No.T2/TNPCB/F.24845/TNV/PH/2020 dated: 22.12.2020.
6. The project proponent submitted EIA report to SEIAA-TN on 24.12.2020.

The proposal was placed in 218th SEAC meeting held on 09.07.2021, 255th SEAC meeting held on 18.03.2022. The details of the minutes are given in the website (parivesh.nic.in).


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The subject was placed in 508th meeting of SEIAA held on 19.05.2022. The authority after detailed discussions decided to refer back to SEAC for reappraisal with the following remarks.


1. The proposal was placed in the 255th SEAC meeting held on 18.03.2022. The Committee decided to **recommend the proposal for the grant of Environmental Clearance** for the production for the Year 2022-2023 is not exceeding 15120 MT with an ultimate depth of 21m subject to the conditions as mentioned in 218th SEAC meeting held on 09.07.2021 in addition to the following conditions.
2. As accepted by the Project Proponent, the CER cost is fixed at Rs.2.5 lakhs and this amount shall be spent for the activities towards the construction/renovation of Girls toilets with 24/7 water facility in the Panchayath Union Primary School at Karisal Kulam, Pandhapuli Village before obtaining CTO from TNPCB.
3. As per approved review of Scheme of mining plan the production for the year 2022-23 was stated as 15960MT of Lime stone.

Now, the proposal was placed for examining the remarks of SEIAA in this 294th meeting of SEAC held on 14.07.2022. The Authority has pointed out the discrepancy between the production quantity recommended at 15120 MT and the quantity as per the mining plan at 15960 MT. The Project proponent made a presentation along with clarification for the above shortcomings observed by the SEIAA.

The PP has clarified that the EIA report was prepared based on the draft Review of Mining Plan, but later, the IBM made some corrections in the production table of ROMP and the corrected production was not reflected in the EIA. Based on the clarification, the committee decided to recommend the proposal for the grant of Environmental Clearance for the production not exceeding 15960 MT of Lime stone with an ultimate depth of 21m, subject to the conditions as mentioned in 218th SEAC meeting held on 09.07.2021. All other conditions stated in 255th SEAC meeting held on 18.03.2022 will remain unaltered.

Agenda No: 294-02


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(File No. 6583/2019)

Proposed Construction of Multistoried Residential group development by M/s. Nebula Infra Space LLP, at S.No399/1A,1B, 1C, 1D, 400/1A1B, 406/1A, 407/25 & 84, 413/5B & 413/6B of Chettipunyam Village, Chengalpet Taluk, Chengalpet District, Tamil Nadu, Tamil Nadu - For Environmental Clearance (SIA/TN/NCP/73378/2018, dated: 08.03.2018).

The proposal was placed in this 186th SEAC meeting held on 21.11.2020, 209th SEAC meeting held on 09.04.2021, 236th SEAC meeting held on 05.10.2021, 247th SEAC Meeting held on 18.2.2022, 276th SEAC Meeting held on 21.5.2022 and 464th authority meeting held on 27.09.2021. The details of the minutes are available in the website (parivesh.nic.in).

The subject was placed in 521st meeting of SEIAA held on 17.06.2022. After detailed deliberation, Authority noted from the 276th SEAC Minutes of the meeting held on 21.05.2022 that:

1. The Project Proponent M/s. Nebula Infra Space LLP has submitted application through online vide SIA/TN/NCP/73378/2018, dated: 08.03.2018 and submitted hard copy to SEIAA on 07.05.2018 for the proposed construction of Multi storied Residential Group Development project to a total build up area of 129830.21 sq.m at S.F. No. S.No399/1A, 1B, 1C, 1D, 400/1A1B, 406/1A, 407/25 & 84, 413/5B & 413/6B of Chettipunyam Village, Chengalpet Taluk, Chengalpet District.
2. Bases on the subcommittee inspection report on October 06, 2020 (Tuesday) and following were noticed:
 - a) During the time of inspection, SEAC Sub- committee found an excavation pit on the eastern side of the project site with a approximate depth of 15 ft with an area of 60 ft long and 20 ft width.
 - b) Model flat for single, 1.5 and double bedroom of built up area measuring approximately 400, 550 and 700 ft² was already built (fully furnished and operational) at the project site during the time of inspection.


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- c) Adjacent to the model flats there is a cafeteria along with reception office are also built and fully functional in addition to landscape work, children play area and concrete pavement (pathway).
 - d) Pavement block making industry was built and working in business mode during the time of inspection visit at the site along with storage for raw materials, finished pavement blocks lying at the site in addition to the machineries.
 - e) The project boundary on the northern side of the project site located at a distance of 20 m from the backside of the Paranur railway station track.
3. The subject was placed in the 209th SEAC meeting held on 09.04.2021. After detailed discussion based on the Project proponent reply, it clearly proves that the proponent has not obtained EC, but constructed the model flat, cafeteria, reception area, so this is a clear cut violation case as per MoEF&CC notification 2006. Hence SEIAA shall take action against the proposal as the project comes under violation case.
4. The project proponent has furnished reply vide its lr. Dt: 03. 08.2021 and requested the consider the project under violation category as per OM. Dt: 09.09. 2019 under low level ecological damage category and 0.75% of project cost as the damage assessment report.
5. In the 236th SEAC meeting held on 05.10.2021. SEAC concluded that notification dated 14.03.2017 & 08.03.2018, SEAC noted that the proposed project was applied under violation window period by the proponent.

Proposal has again been placed before 276th SEAC meeting held on 21.5.2022 and SEAC noted that, the MOEF&CC has issued the OM No. F. No. IA3-22/10/2022-1A.111 [E 177258] Dt. 29.3.2022 and issued the Clarification regarding activities which can be undertaken for securing the land prior to grant of Environmental Clearance.


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----. it has been decided by the Competent Authority in the Ministry to explicitly clarify that following activities can be undertaken by the project proponent for securing the land.

- i. Fencing of the project site by boundary wall using civil construction, barbed wire or precast/ prefabricated components.
- ii. Construction of temporary sheds using pre-fabricated / modular structure, for site office/guards and storing material and machinery.
- iii. Provision of temporary electricity and water supply for site office/guards only.

4. The above activities shall be undertaken subject to the following-----:

Based on the O.M model flat constructed in the project site is a permissible activity.

After detailed deliberations, Authority decided to refer back the proposal on the following points:

- (i) From the inspection report of Subcommittee report, it was noted that the project boundary on the northern side of the project site located at a distance of 20 m from the backside of the Paranur railway station track.
- (ii) As per Environmental Impact Assessment Guidance Manual for building, construction, townships and area development projects during February 2010 under Noise Environment Setting up the barriers: National Building Code 2005 suggests that design solutions such as barrier blocks should be used to reduce external LA10 noise levels to at least 60-70 dB (A) at any point 1.0 m from any inward looking façade. Green belts and landscaping could act as an effective means to control noise pollution. In case of railway tracks, a minimum distance of 50m to 70m may be provided between the buildings and the tracks. Thick belts of planting greater than 30 meters are useful for cutting the noise levels from road traffic. Strong leafy trees may be planted to act as noise baffles. Shrubs and creepers may also be planted for additional protection between tree trunks; artificial mounds and banks should be formed where practicable. As little hard paving and as much grass as possible


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may be used. The creation of green belt is particularly advisable on the perimeter of aerodromes, along railway lines and arterial roads, through or past built up areas and adjoining industrial zones.

- (iii) Further, Control of noise from railway lines: Wherever possible no residential or public building zone should be along the railway lines. The appropriate zones along side railway lines are industrial and commercial buildings other than office buildings.
- (iv) A plan of action on the above points may be obtained and considered.
- (v) Further, Vibration study on the above may be considered.
- (vi) It is a model house or constructed using modular structure and also constructed cafeteria, reception area also. In this regards, it is requested to examine whether constructed model house, cafeteria, reception area, which are allowed in OM issued by MOEF&CC vide. F. No. IA3-22/10/2022-1A.111 [E 177258] Dt. 29.3.2022.

Authority decided to refer back the proposal to SEAC to consider the above.

Now, the proposal placed for appraisal in this 294th meeting of SEAC held on 14.07.2022. The Project proponent made a presentation along with the following clarifications for the above shortcomings observed by the SEIAA.

1. The distance from railway track to the plot boundary varied from is 6 m (NW) to 35 m (SW) and averaging about 20 m (observed in sub-committee report - 521th SEIAA Minutes in para no. 4 pg.no 25).
2. The width of the OSRI Green Buffer is 30m.
3. The distance from the OSR / Green buffer to the future proposed Phase III block is 19.30m.
4. The total distance from the railway track to the future proposed Phase III block is 69.30m (20m + 30m + 19.30m = 69.30m).
5. The construction of future proposed Phase III block will commence only after construction of all other phases.
6. The buildings near to the railway line will be constructed using noise proof construction materials.


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7. The model flat is made of temporary structures and the cafeteria in the model flat is a small one, to serve tea and coffee for the visitors only. We will remove the Cafeteria and model house structures before the commencement of construction of Phase II.

Based on the above clarification, the committee **decided to reiterate the recommendation already made** in 276th SEAC meeting held on 21.05.2022. All the conditions prescribed will also remain unaltered.

Agenda No: 294-03
(File No: 6686/2018)

Proposed Construction of residential group development project at S.F.No.171/1A1 172/3A,177/3A2,177/2B,177/3A3B,177/3A3C,Vilankurichi Village,Coimbatore North Taluk,Coimbatore District,Tamil Nadu by M/s.Casa Grande Coimbatore LLP - For Environmental Clearance (Under Violation) (SIA/TN/MIS/87837/2018 dated: 07.12.2018)

The proposal was placed in this 123rd meeting of SEAC Meeting held on 21.12.2018, 22.12.2018, 126th SEAC meeting held on 26.02.2019, 128th SEAC meeting held on 15.04.2019, 142nd meeting of SEAC held on 21.01.2020, 234th meeting of SEAC held on 22.09.2021, 241st meeting of SEAC held on 03.11.2021 and 341st SEIAA meeting held on 21.03.2019, 345th meeting of SEIAA held on 18.06.2019, 420th meeting of SEIAA meeting held on 04.02.2020, 476th Authority meeting held on 27.10.2021, 484th Authority meeting held on 29.01.2022 & 31.01.2022. The details of the minutes are available in the website (parivesh.nic.in).

The proposal was placed in the 484th Authority meeting held on 29.01.2022 & 31.01.2022. After detailed discussion, the Authority noted as follows.

In the minutes of the 241st meeting of SEAC held on 03.11.2021, the SEAC reported as follows among others.

“However, this case does not fall before or within violation window period. Hence, SEAC after detailed deliberation has decided to request SEIAA that a legal opinion may be obtained (or) a clarification may be obtained from MoEF&CC and SEIAA may decide accordingly”.


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In view of the above, the Authority decided to request the Member Secretary, SEIAA to get the clarification from MoEF&CC by sending a detailed note, whether the recommendation of SEAC can be accepted even though there is no provision to consider the violation proposal filed after the violation window period, as per S.O.804 (E) dated 14th March 2017 & Notification S.O.1030 (E): dated 8th March, 2018. Since this proposal was filed after the violation window period in normal case, later it was noticed as violation category by the SEAC and the SEAC has recommended the proposal for grant of Environmental Clearance under violation category. In the event of receipt of clarification from MoEF&CC, the same may be placed before the Authority for taking further course of action

Based on the minutes of the 241st meeting of SEAC held on 03.11.2021 and 484th Authority meeting held on 29.01.2022 & 31.01.2022. A letter has been addressed to MoEF&CC for seeking aforesaid clarification vide this office letter 10.02.2022. MoEF&CC has issued clarification vide F.No.22-18/2018-IA.III (104306) dated 11.05.2022 received on 16.05.2022.

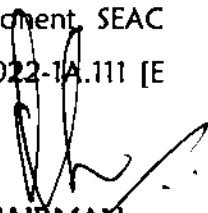
In view of the above, this proposal is placed before the Authority for further course of necessary action.

The proposal was placed in the 519th SEIAA meeting held on 14.06.2022. Authority after detailed discussion decided to refer back the proposal along with the clarification letters received from MoEF&CC vide F.No.22-18/2018-IA.III (104306) dated 11.05.2022 received on 16.05.2022 to SEAC for consideration as per the minutes of the 241st meeting of SEAC held on 03.11.2021.

Now, the proposal placed for appraisal in this 294th meeting of SEAC held on 14.07.2022. The Project proponent made a presentation along with clarification for the above shortcomings observed by the SEIAA.

Based on the presentation and document furnished by the project proponent, SEAC noted that, the MOEF&CC has issued the OM No. F. No. IA3-22/10/2022-IA.111 [E


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177258] Dt. 29.3.2022 and issued the Clarification regarding activities which can be undertaken for securing the land prior to grant of Environmental Clearance.

----, it has been decided by the Competent Authority in the Ministry to explicitly clarify that following activities can be undertaken by the project proponent for securing the land.

- iv. Fencing of the project site by boundary wall using civil construction, barbed wire or precast/ prefabricated components.*
- v. Construction of temporary sheds using pre-fabricated / modular structure, for site office/guards and storing material and machinery.*
- vi. Provision of temporary electricity and water supply for site office/guards only.*

Based on the letter from SEIAA, MoEF issued a clarification vide F.No.22-18/2018-IA.III [104306] dated: 11.05.2022,

"No activity relating to any project covered under this Notification including civil construction, can be undertaken at site without obtaining prior environmental clearance except fencing of the site to protect it from getting encroached and construction of temporary shed(s) for the guard(s)."

The committee also noted that the proponent has now demolished the constructed compound wall and submitted the photographic and video evidence for the same to the SEIAA office as well as to the SEAC vide letter Dated: 11.10.2021.

Based on the clarification submitted by the PP, the committee 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 project proponent shall provide STP of capacity 270 KLD and treated water shall be utilized for flushing, OSR and green belt proposed.
2. The project proponent shall achieve IGBC GOLD National Rating System in environmental performance of the proposed building.
3. The treated/untreated sewage water shall not be let-out from the unit


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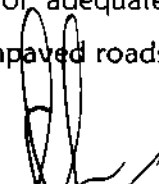
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premises.

4. The proponent shall provide adequate organic waste disposal facility such as organic waste convertor waste within project site as committed and non-Biodegradable waste to authorized recyclers as committed.
5. The height of the stacks of DG sets shall be provided as per the CPCB norms.
6. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc., to TNPCB before obtaining CTO.
7. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for toilet flushing, Green belt development & OSR and no treated water be let out of the premise.
8. 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.
9. The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.
10. 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. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
11. Taller/one year old saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted in proper escapement as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
12. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads


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as committed.

13. The excess runoff water shall be connected to a nearby water body.
14. 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.
15. 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.
16. No waste of any type to be disposed of in any other way other than the approved one.
17. 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.
18. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines.
19. 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.
20. 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.
21. 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.
22. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.


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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 the EMP as committed.

24. As accepted by the Project Proponent the CER cost is Rs. 75 Lakhs and the amount shall be spent in consultation with the Commissioner, Coimbatore Municipal Corporation before obtaining CTO from TNPCB.

Agenda No: 294 -04

(File No: 6802/2021)

Proposed gravel quarry lease area over an extent of 2.12.0Ha at S.F.No 221/1, 221/2, 221/3, 221/4 & 221/5, Sethurapatti Village, Srirangam Taluk, Tiruchirappalli District by Thiru.M. Rajasekar - For Environmental Clearance.

(SIA/TN/MIN/35648/2019, dated: 03.07.2019)

The proposal was placed for appraisal in 131st meeting of SEAC held on 6.5.2019 and 266th meeting of SEAC held on 27.4.2022. The details of the minutes are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. M. Rajasekar has applied for Environmental Clearance for Proposed gravel quarry lease area over an extent of 2.12.0Ha at S.F.No 221/1, 221/2, 221/3, 221/4 & 221/5, Sethurapatti Village, Srirangam Taluk, Tiruchirappalli District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 3 years, the production for 3 years not to exceed –27030 m³ of gravel, and the annual peak production is 9132 m³ of gravel (3rd year) with proposed depth of 2m(BGL).

The subject was placed in 266th meeting of SEAC held on 27.4.2022 for appraisal for seeking environmental clearance. During the meeting the PP has made the re presentation along with the clarification raised by the 131st SEAC meeting. Based on the presentation and document furnished by the project proponent, SEAC recommended


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the proposal for the grant of Environmental Clearance, subject to the following specific conditions in addition to normal conditions stipulated by MOEF&.CC:

The proposal was placed in the 511th SEIAA meeting held on 25.05.2022.

The Authority has noted that no study has been conducted in regard to ground water profile considering 2 nos. of ponds Poolan Kulam and Eaagudikulam are located adjacent to the project site and the KML file uploaded in the said online proposal was not accessible for verifying the environmental setting around the proposed mine lease area.

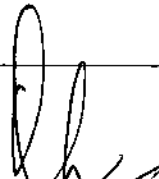
The Authority after detailed discussion decided to refer back the proposal to SEAC after the receipt of following additional particulars from the project proponent,

- i) To conduct hydrogeology study around the proposed mine lease area considering the nearby fresh water bodies & ground water sources.
- ii) To upload latest KML file of the proposed mine lease area.
- iii) The proponent shall furnish topo sheet of 300m, 500m & 1km radius in regard to water bodies, habitats, agricultural lands, etc.

Now, the proposal placed for appraisal in this 294th meeting of SEAC held on 14.07.2022. The Project proponent made a presentation along with clarification for the above shortcomings observed by the SEIAA.

S.No	Query by SEIAA	Reply
1	To conduct hydrogeology study around the proposed mine lease area considering the nearby fresh water bodies & ground water sources	The quarry is shallow quarry up to 2m depth. The quarry will not intersect ground water table and thereby no chance for depletion of water in the tank except evaporation. No impact is expected.
2	To upload latest KML file	Kml file is uploaded.
3	The proponent shall furnish Topo Sheet of 300m, 500m & 1km	Furnished.


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	radius in this regard to water bodies, habitations, agricultural lands, etc.	
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Based on the clarifications submitted by the PP, the committee decided to reiterate its earlier **recommendation made** in the 266th meeting of SEAC held on 27.4.2022. All the conditions prescribed will remain unaltered.

Agenda No: 294-05

(File No: 6896/2021)

Proposed Fire Clay quarry lease over an extent of 17.945 Ha in SF. Nos. 24/3B, 24/3H, 26/1, 26/3, 27/1 of Periyakoil Village and S.F.No. 122/1, 122/2B, 122/2C, 122/ 2D1 of Jaderi Village in Cheyyar Taluk, Tiruvannamalai District by M/s. Wienerberger India Private Limited - For Environmental Clearance. (SIA/TN/MIS/ 37641/2019, Dated: 12.01.2021)

This proposal was placed before 239th SEAC meeting held on 22.10.2021, 254th SEAC meeting held on 17.3.2022 & 277th Meeting of SEAC held on 26.5.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The project proponent gave detailed presentation.

The SEAC noted the following:

1. The Proponent, M/s. Wienerberger India Private Limited has applied for Environmental Clearance for Fire Clay quarry lease over an extent of 17.945 Ha in S. F. Nos. 24/3B, 24/3H, 26/1, 26/3, 27/1 of Periyakoil Village and S.F.No. 122/1, 122/2B, 122/2C, 122/ 2D1 of Jaderi Village in Cheyyar Taluk, Tiruvannamalai 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 10 years. The total production volume as per mining plan for 5 years is not to exceed 7,64,679 cu.m. of fire clay. The peak production - would be 183640 cu.m during the 3rd year of the mining activity with ultimate depth – 12.3m (1st five years).
4. Terms of Reference issued by SEIAA, Tamil Nadu vide letter SEIAA-TN/F.No.6896/SEEAC/TOR-682/2020 dated 22.01.2020.


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5. Public Hearing was held on 11.12.2020.

6. The proponent manufacturer has previous experience in the manufacture of wire cut bricks at Kunigal, Karnataka and is aware of the safety measures required both in mining and factory operations. The technology is evolved on the experience gained by the parent company based in Austria.

This proposal was again placed in 277th SEAC meeting held on 26.5.2022. After detailed discussions and perusal of the documents furnished by the project proponent, SEAC recommended the proposal for the grant of **Environmental Clearance for the total production volume for 5 years is not to exceed 7,64,679 cu.m of fire clay** after leaving safety distance 100m for Eri (no change in production for 1st five years) subject to the certain conditions.

The proposal was placed in the 523rd SEIAA meeting held on 21.06.2022.

The authority after detailed discussion decided to refer back the proposal to SEAC for consideration on the receipt of following details from the project proponent.

- i) Revised mining area with revised SF. No. and revised mineable fire clay quantity as per the recommendation of SEAC that leaving a safety distance of 100m from the Eri on the Northern side.

Now, the proposal placed for appraisal in this 294th meeting of SEAC held on 14.07.2022. The Project proponent made a presentation along with clarification for the above shortcomings observed by the SEIAA as given below.

- As per approved mining plan, total mineable reserves after leaving 50m safety distance from the water body in the north is **17,30,035 cu.m** where in first 5 year production is **7,64,679 cu.m**
- The total mineable reserves after leaving 100m safety distance from the water body in the north is **14,89,535 Cu.m**. However there will be no change in first 5 year production of **7,64,679 cu.m**.

S.No	Year	As per the approved Mining leas(leaving a safety distance of 50m from Eri on the northern side) (m ³)	Revised mineable fire clay quantity (leaving a safety distance of 100m from Eri on the northern side)
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15


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			(m³)
Year wise quantity			
1	I year	107454	107454
2	II year	106901	106901
3	III year	183640	183640
4	IV year	183537	183537
5	V year	183147	183147
Sub Total (1 to 5)		7,64,679	7,64,679
VI th to XIth Year		9,65,356	7,24,856
Grand total		17,30,035	14,89,535

S.No	Particulars	Conceptual land use as per approved mining plan (leaving a safety distance of 50m from Eri on the northern side) (In Ha)	Conceptual land use (leaving a safety distance of 100m from Eri on the northern side) (In Ha)
1	Area of excavation (Revised Mining area)	11.350	8.273
2	Others (Green belt & Safety zone)	6.595	9.672
3	Total area of Mining lease	17.945	17.945


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 SEAC -TN


 CHAIRMAN
 SEAC- TN

Category	Revised SF.No falling in revised mining area (leaving a safety distance of 100m from Eri on the northern side)
Survey Numbers	26/1(P), 26/2(P), 26/3(P), 27/1, 27/2A(P), 27/2B(P), 27/2C(P), 28/1A, 28/1B, 28/1C, 28/1D, 28/2A, 28/2B(P), 28/2C(P), 29/1A, 29/1B, 29/1C, 29/1D, 29/2A7A(P), 29/2A7B(P), 29/2A7C(P), 29/3(P), 30/1, 30/2A, 30/2B, 31/8(P), 31/10(P), 31/11(P), 122/2D1(P), 122/2D2(P), 123/4A(P), 123/4B(P), 123/4C(P), 123/6, 123/7(P), 125/2(P), 127/3(P), 127/4(P), 127/5(P), 127/6(P), 127/7(P), 127/8(P), 127/9(P), 127/10, 127/11, 127/12, 127/13

Based on the clarifications submitted by the PP, the committee decided to reiterate its **recommendation made** in 277th SEAC meeting held on 26.5.2022. All other conditions stated will also remain unaltered.

Agenda No: 294-06

(File No: 7351/2021)

Proposed multi colour granite quarry lease area over an extent of 3.58.0 Ha at S.F.No 72/2, 72/3 & 72/5, Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Thiru.P.Selvam - For Environmental Clearance. (SIA/TN/MIN/48919/2019 Dt. 2.10.2021)

The proposal was placed for appraisal in 268th meeting of SEAC held on 29.4.2022. 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, Thiru P.Selvam has applied for Environmental Clearance for the proposed multi colour granite quarry lease area over an extent of 3.58.0 Ha at S.F.No 72/2, 72/3 & 72/5 Karandapalli Village, Denkanikottai Taluk, Krishnagiri 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 mining plan, the lease period is for 20 years. The Total excavation quantity for 5 years not to exceed 109475 m³ which includes the ROM quantity of 103225 m³ possessing the recoverable multicolour granite quantity of 36130 m³ & granite waste of 67095 m³; top soil of 4000 m³ and weathered rock of 2250 m³. The Annual peak total excavation as per mining plan is 24375 m³ and the Annual peak ROM & recoverable quantity of Multi Colour Granite is 20725 m³ & 7254 m³ respectively with maintaining an ultimate depth of 25m BGL.

Year	ROM (m ³)	Recovery @ 35% (m ³)	Granite Waste @ 65% (m ³)	Weathered Rock (m ³)	Top spoil (m ³)	Total Excavation (m ³)
I	20625	7219	13406			20625
II	20625	7219	13406			20625
III	20625	7219	13406	1350	2400	24375
IV	20725	7254	13471	900	1600	23225
V	20625	7219	13406			20625
Grand Total	103225	36130	67095	2250	4000	109475

4. The PP has issued with ToR vide Lr No. SEIAA-TN/F.No.7351/SEAC/TOR-716/2020 Dt. 17.6.2020.


Based on the presentation and document furnished by the project proponent, SEAC recommended the proposal for the grant of Environmental Clearance, subject to certain conditions.

The proposal was placed in the 513rd SEIAA meeting held on 30.05.2022.

The Authority after detailed discussion decided to refer back the proposal to SEAC after the receipt of following additional particulars from the project proponent with reference to project life (or) subject to a maximum of thirty years, whichever is earlier.


- i. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area from reputed research institutions on the following
 - a) Soil health & bio-diversity.


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SEAC- TN

- b) Climate change leading to Droughts, Floods etc.
 - c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
 - d) Possibilities of water contamination and impact on aquatic ecosystem health.
 - e) Agriculture, Forestry & Traditional practices.
 - f) Hydrothermal/Geothermal effect due to destruction in the Environment.
 - g) Bio-geochemical processes and its foot prints including environmental stress.
 - h) Sediment geochemistry in the surface streams.
- ii. 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) so as to assess the impacts on the nearby water bodies 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, covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
 - iii. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/unfavorable accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities.
 - iv. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.
 - v. Detailed Mine Closure Plan covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
 - vi. Detailed Environment Management Plan includes adaptation, mitigation & remedial strategies covering the project life (or) subject to a maximum of thirty years, whichever is earlier.

Now, the proposal was placed for examining the remarks of SEIAA in this 294th meeting of SEAC held on 14.07.2022. The PP has furnished a detailed reply covering the points raised by SEIAA in addition to the following.


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- The production targets are conservative and follow the statutory rules and regulations issued by the Govt to quarry the **Multi Colour granite** at this location and sold to international and domestic markets.
- The PP is also demarcated a dedicated area within the leasehold area for dumping of the non-saleable granite waste.
- The waste rock (or) overburden/side burden rock (or) other rejects excavated in the quarry is also dumped within the leasehold area and it will be used for constructing the safety berms, bunds for developing the green belt during the life of 20 years and the remaining waste at the end of life will be used for backfilling purposes into the mined-out area of the quarry during the final closure plan.
- In case of non-feasibility of backfilling, the waste dumps will suitably terraced and stabilised by planting adequate vegetation as stipulated by the SEAC, as a part of progressive mine closure plan & rehabilitation plan approved by the competent authority under the provisions of the Granite Conservation & Development Rules, 1999.
- Long term & shorter ecological and environmental impacts such as air pollution due to dust, exhaust emissions or fumes, the discharge of toxic and objectionable effluents, noise arising out during the mining operations of granite and related activities are adequately mitigated in the EMP.
- It is submitted that the environmental impact is directly linked to the total excavation quantity which includes the RoM being mined out from the mineralised zone of quarry and not restricted to saleable production quantity (recovery alone).
- In some period, the situation arises where the recovery falls down to even very low value as 2 to 3% of RoM which neither provides an economically viable operation in the interest of revenue generation for company as well as the State Government and also it is not conducive to protect the environment in a sustainable manner.
- Mining recoverable reserves may vary subject to the quality of Granite mining methodology and the existing Geological features such as structural, textural formations and very significantly, the current market demand for the Granite being mined.
- Further, it is well known that without extracting the Run of Mine (ROM) the recoverable production (recovery) is not possible.
- The total of quantity of granite waste produced during the life of the quarry period will be utilised / dumped as per the conditions stipulated in the approved Mining Plan. Here, in case of utilization of granite waste for further beneficial purposes as per market trend (or) the Govt directions, the company shall get a revised / modified Mining Plan along with Mine Closure Plan from the competent authority.
- The PP have informed that any one of the following five scenarios that will be focused on the reclamation planning of the proposed quarry, which are:
 - To use mined land as agricultural purpose as the stored water will be utilised for cultivation;
 - To reshape the quarry and design a residential area;
 - To use the area as a place for educational purposes;

- To revegetate the mined land with appropriate species for foresting and
- Using the area as a promenade site/eco park for tourists.

These criteria have been determined according to mine site properties studied earlier through EIA/EMP such as micro and macro climate conditions, hydrology and hydrogeology, chemical and physical properties of soil, geological and geotechnical parameters and etc.

- The PP had indicated that the final mine closure plan includes the action plan for protection of the quarry once it is completed its life (or) abandoned by installing necessary safety provisions such as fencing, etc is provided in the Mining Plan.

The PP have informed that the granite waste blocks produced from the quarry (non-saleable granite) will be transported taking adequate environmental mitigation measures similar to the recovered Granite blocks as stipulated in EMP, in case of processing plant is situated outside the leasehold area.

Based on the clarifications submitted by the PP, the Committee decided to reiterate its **recommendation made** in 268th meeting of SEAC held on 29.4.2022. All other conditions stated will remain unaltered.

Agenda No: 294-07

(File No: 7434/2021)

Proposed rough stone and gravel quarry lease area over an extent of 1.17.0 Ha at S.F.No 277/IC1A(Part) and 277/1B(Part), Servaikkaranpalayam Village, Pollachi Taluk, Coimbatore District by Thiru. P. Shanmugavadivelu - For Environmental Clearance amendment. (SIA/TN/MIN/140952/2020, dated: 11.02.2020)

The proposal was placed for appraisal in 266th meeting of SEAC held on 27.4.2022. 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, Thiru. P. Shanmugavadivelu has applied for the Environmental Clearance for proposed rough stone and gravel quarry lease area over an extent of 1.17.0 Ha at S.F.No.277/IC1A(Part) and 277/1B(Part), Servaikkaranpalayam Village, Pollachi Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.


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SEAC -TN

21


CHAIRMAN
SEAC- TN

3. As per the mining plan, the lease period is for 5 years. The production for 5 years not to exceed –125475 m³ of Rough stone and 8052 m³ of gravel. The Annual peak production as per mining plan is 27825 m³ of Rough stone (5th year) & 2706m³ of gravel (2nd & 3rd year) with ultimate depth of 36m(BGL).
4. Earlier, this proposal was placed in 157th SEAC meeting held 20.6.2020, during the meeting the PP has not turned up for the meeting.

This proposal was placed before 266th SEAC meeting held on 27.4.2022. The Project proponent made a presentation along with reason for absent on previous meeting.

Based on the presentation and document furnished by the project proponent, SEAC recommended **the proposal for the grant of Environmental Clearance** subject to certain conditions:

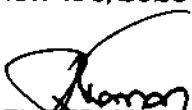
The proposal was placed in the 511th SEIAA meeting held on 25.05.2022.

The Authority noted that the Koraiyar River is 22m from the proposed site. Koraiyar River is a rich riverine ecosystem. Quarrying activity close to such a river can result in ecological disaster. The free ranging wild life and the flow of water in the river may get impacted. Hence, such environmentally fragile areas, rich in water and Agriculture /Horticulture ecosystem should be completely protected.

In view of the above, the Authority after detailed discussion decided to refer back the proposal to SEAC for re-appraisal.

Now, the proposal placed for appraisal in this 294th meeting of SEAC held on 14.07.2022. The PP requested time to prepare a detailed report on the points raised by the Authority. Hence the committee **decided to defer the project**.

Agenda No. 294-08
File No.7456/2020


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Proposed development of "North Mall" at S.F.No New survey number T.S.No. 15(old survey No.R.S. Nos. 169/1B 1pt, 170/2A pt, 170/2B pt & 1733 2pt) , Thiruvottiyur Village, Thiruvottiyur Taluk, Chennai District by M/s. Alwarpet properties private Limited – For Environmental Clearance. (SIA/TN/MIS/143805/2020).

The proposal was placed in the 149th SEAC Meeting held on 14.03.2020, 168th SEAC meeting held on 29.5.2022, 268th SEAC Meeting held on 29.4.2022. The details of the minutes are available in the website (parivesh.nic. in).

The SEAC noted the following:

1. The Proponent, M/s. Alwarpet properties private Limited has applied for Environmental Clearance for the proposed development of "North Mall" at S.F.No New survey number T.S.No. 15(old survey No.R.S. Nos. 169/1B 1pt, 170/2A pt, 170/2B pt & 1733 2pt) in, Thiruvottiyur Village, Thiruvottiyur Taluk, Chennai District.
2. The project/activity is covered under category "B" of Item 8 (a) "Building and Construction" of the schedule to the EIA Notification, 2006.
3. The Project consists B+G+4 Floors with 9 level MLCP. Total built up area- 106264.06 Sq.m with total plot area – 26,454.63 Sq.m
4. The site falls in CRZ - I zone. Hence, the project proponent has obtained CRZ Clearance from TNSCZMA has been obtained vide TNCZMA Proc.No.P1/212/2019 dated: 08.03.2019 subject to certain conditions.

This proposal was placed in 168th SEAC meeting held on 29.5.2022. The PP made a presentation along with response for above said short comings raised by 157th SEAC meeting. Based on the presentation made and documents furnished by the project proponent, SEAC recommended the proposal for the grant of Environmental Clearance subject to certain conditions.

The proposal was placed in the 513th SEIAA meeting held on 30.05.2022.

The Authority noted the following,

On perusal of the application and the copy of Power Point presentation received from SEAC it was noted that, the data such as number of floors, plot area split up sewage quantity, solid waste details, number of car parking and the car parking levels do not


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SEAC- TN

match. Hence, the SEAC may furnish the approved correct tabulated data for further course of action by SEIAA.

Now, the proposal placed for appraisal in this 294th meeting of SEAC held on 14.07.2022. The committee noted that the PP has not turned up for the meeting. Hence the committee **decided that PP shall furnish the reason for his absence.**

Agenda No: 294-09


(File No: 7574/2022)

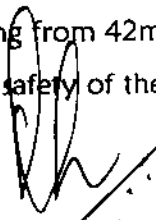
Proposed Rough stone & gravel quarry lease area over an extent of 1.97.88 Ha at S.F. Nos 10/11, 10/12, 11/1, 11/2A, 11/3 (Nalmukkal Village) 8/4C1, 8/7, 8/8 & 8/9 (Chokkanthangal Village), Marakkanam Taluk , Viluppuram District, Tamil Nadu by Thiru. P. Yuvaraj - For Environmental Clearance. (SIA/TN/MIN/60925/2021 Dt.21.2.2022)

The proposal was placed for appraisal in this 268th meeting of SEAC held on 29.4.2022. 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, Thiru. P. Yuvaraj has applied for Environmental Clearance for the Proposed Rough stone & gravel quarry lease area over an extent of 1.97.88 Ha at S.F. Nos 10/11, 10/12, 11/1, 11/2A, 11/3 (Nalmukkal Village) 8/4C1, 8/7, 8/8 & 8/9 (Chokkanthangal Village), Marakkanam Taluk , Viluppuram 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 production for 5 years not to exceed 154490 m³ of rough stone and 21784 m³ of gravel. The Annual peak production as per mining plan is 32025 m³ of rough stone (3rd year) & 10800 m³ of gravel (3rd year) with ultimate depth of 42m BGL.
4. The PP has issued with ToR vide Lr No.SEIAA-TN/F.No.7574/SEAC/ToR-969/2021 Dated: 5.7.2021, restricting the maximum depth of mining from 42m to 32m considering the environmental impacts due to the mining, safety of the


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SEAC -TN


CHAIRMAN
SEAC- TN

working personnel and following the principle of the sustainable mining and consequently the maximum minable quantities of 153440 m³ of Rough stone & 21784 m³ of Gravel are permitted for mining over five years.

Based on the presentation and document furnished by the project proponent, SEAC **recommended the proposal for the grant of Environmental Clearance**, subject to the certain conditions stated therein.

The proposal was placed in the 513th SEIAA meeting held on 30.05.2022.

Authority noted the following.

The proposal was placed in the 268th meeting of SEAC held on 29.04.2022. SEAC has furnished its recommendations to the Authority for **granting Environmental Clearance to the Project** subject to the conditions stated therein.

The Authority after detailed discussions the Authority decided to refer back the proposal to SEIAA after the receipt of detailed study report on the impact of mining from the proponent.

1. Aquifer in the vicinity
2. Ground water potential and impact
3. Water bodies which includes Eri/Odai/Lake located in the vicinity
4. Biodiversity
5. Marine/Coastal ecosystem
6. Change in land use and land cover
7. The EMP has to provide detailed mitigation strategies
8. Detailed Disaster management plan

Now, the proposal placed for appraisal in this 294th meeting of SEAC held on 14.07.2022. The Project proponent made a presentation along with clarification for the above shortcomings observed by the SEIAA.

Based on the clarification submitted by the PP, the committee decided to **recommend the proposal for the grant of Environmental Clearance**. All other conditions stated in 268th meeting of SEAC held on 29.04.2022 will remain unaltered.

Agenda No: 294-10


MEMBER SECRETARY
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(File No: 7583/2022)

Proposed Rough stone & gravel quarry lease area over an extent of 2.24.5 Ha at S.F.No. 494/2 (P) of Kuppam Village, Aravakurichi Taluk Karur District Tamil Nadu by Tvl.NTC Infra Projects Private Limited - For Environmental Clearance. (SIA/TN/MIN/153716/2020 Dt. 19.5.2020)

The proposal was placed for appraisal in 161st SEAC Meeting held on 26.06.2020 and 268th meeting of SEAC held on 29.4.2022. 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.NTC Infra Projects Private Limited has applied for Environmental Clearance for the Proposed Rough stone & gravel quarry lease area over an extent of 2.24.5 Ha at S.F.No. 494/2 (P) of Kuppam Village, Aravakurichi Taluk Karur District Tamil Nadu.
2. The project/activity is covered under category "B2" of Item I (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. The production for 5 years not to exceed 237750m³ of rough stone. The Annual peak production as per mining plan is 48900 m³ of rough stone (4th year) with ultimate depth – 25m BGL.
4. Earlier, this proposal was placed before 161st SEAC Meeting held on 26.06.2020. After verifying the office file, the SEAC noted that the EDS sought by SEIAA were not replied by the project proponent. Hence, the SEAC decided to refer back the subject to SEIAA office and place the subject after obtaining the essential details.

The proposal was placed in the 513th SEIAA meeting held on 30.05.2022.

The Authority noted the following:

The proposal was placed in the 268th meeting of SEAC held on 29.04.2022. SEAC has furnished its recommendations to the Authority for granting Environmental Clearance to the Project subject to the conditions stated therein.


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CHAIRMAN
SEAC- TN

Subsequently, the subject was placed before the Authority in its 512th meeting held on 30.05.2022. After detailed discussions the Authority decided to request the Member Secretary, SEIAA TN to refer back the proposal to SEAC TN stating the following reasons:

On perusal of the mining plan, it was noticed that the maximum **depth of the mining proposed** (year-wise production table) is **25m BGL** for a period of 5 years and only the ultimate depth is mentioned as 51m. The said facts may be ascertained.

Now, the proposal was placed for appraisal in this 294th meeting of SEAC held on 14.07.2022. The Project stated that he wished to withdraw the proposal.

Based on the above, the committee decided that SEIAA may watch the withdrawal of the proposal by the PP.

Agenda No: 294-11

(File No: 7586/2022)

Proposed Rough stone & gravel quarry lease area over an extent of 1.84.5 Ha at S.F. No. 49/1B, 49/2, 49/4B, 49/5A, 49/6, 49/7 & 49/12, 49/13 Brammadesam Village, Marakkanam Taluk, Viluppuram District Tamil Nadu by Thiru. S. Jagadeesan - For Environmental Clearance. (SIA/TN/MIN/53651/2020 Dt. 22.2.2022)

The proposal was placed for appraisal in 268th meeting of SEAC held on 29.4.2022. 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, Thiru. S. Jagadeesan has applied for Environmental Clearance for the Proposed Rough stone & gravel quarry lease area over an extent of 1.84.5 Ha at S.F. No. 49/1B, 49/2, 49/4B, 49/6, 49/7, 49/12 & 49/13, Brammadesam Village, Marakkanam Taluk, Viluppuram 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.


**MEMBER SECRETARY
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SEAC- TN**

3. As per the mining plan, the lease period is for 5 years. The production for 5 years not to exceed 64125m³ of rough stone and 14232 m³ of gravel. The Annual peak production as per mining plan is 15690 m³ of rough stone (5th year) & 5370 m³ of gravel (3rd year) with ultimate depth – Pit -1- 12m BGL & pit -2 – 22m BGL.
4. The PP has issued with ToR vide Lr No.SEIAA-TN/F.No.7586/SEAC/ToR-752/2020 Dated: 15.09.2020.

The proposal was placed in the 513th SEIAA meeting held on 30.05.2022.

The Authority noted the following:

The proposal was placed in the 268th meeting of SEAC held on 29.04.2022. SEAC has furnished its recommendations to the Authority for **granting Environmental Clearance to the Project** subject to the conditions stated therein.

The Authority after detailed discussions the Authority decided to refer back the proposal to SEIAA after the receipt of detailed study report on the impact of mining from the proponent.

1. Aquifer in the vicinity
2. Ground water potential and impact
3. Water bodies which includes Eri/Odai/Lake located in the vicinity
4. Biodiversity
5. Marine/Coastal ecosystem
6. Change in land use and land cover
7. The EMP has to provide detailed mitigation strategies
8. Detailed Disaster management plan

Now, the proposal placed for appraisal in this 294th meeting of SEAC held on 14.07.2022. The Project proponent made a presentation along with clarifications for the above shortcomings observed by the SEIAA.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

Based on the clarification submitted by the PP, the committee decided to **recommend the proposal for the grant of Environmental Clearance**. All other conditions stated in 268th meeting of SEAC held on 29.04.2022 will remain unaltered.

Agenda No: 294-12

(File No: 7602/2022)

Proposed Rough stone & gravel quarry lease area over an extent of 1.85.0 Ha at S.F. Nos. 27/6, 27/7, 27/8 & 29/1, Nalmukkal Village, Marakkanam Taluk and Viluppuram District Tamil Nadu by Thiru. D.Durai- For Environmental Clearance. (SIA/TN/MIN/59144/2020 Dt.21.2.2022)

The proposal was placed for appraisal in 268th meeting of SEAC held on 29.4.2022. 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, Thiru. D.Durai has applied for Environmental Clearance for the Proposed Rough stone & gravel quarry lease area over an extent of 1.85.0 Ha at S.F. Nos. 27/6, 27/7, 27/8 & 29/1, Nalmukkal Village, Marakkanam Taluk and Viluppuram 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 production for 5 years not to exceed 187420 m³ of rough stone and 24616 m³ of gravel. The Annual peak production as per mining plan is 39250 m³ of rough stone (2nd year) & 9130 m³ of gravel (2nd year) with ultimate depth – 37m BGL.
4. The PP has issued with ToR vide Lr No.SEIAA-TN/F.No.7602/SEAC/ToR-985/2020 Dated: 5.7.2021.

The proposal was placed in the 513th SEIAA meeting held on 30.05.2022.

Authority noted the following:

The proposal was placed in the 268th meeting of SEAC held on 29.04.2022. SEAC has furnished its recommendations to the Authority for **granting Environmental Clearance to the Project** subject to the conditions stated therein.


MEMBER SECRETARY
SEAC -TN

29


CHAIRMAN
SEAC- TN

The Authority after detailed discussions the Authority decided to refer back the proposal to SEIAA after the receipt of detailed study report on the impact of mining from the proponent.

1. Aquifer in the vicinity
2. Ground water potential and impact
3. Water bodies which includes Eri/Odai/Lake located in the vicinity
4. Biodiversity
5. Marine/Coastal ecosystem
6. Change in land use and land cover
7. The EMP has to provide detailed mitigation strategies
8. Detailed Disaster management plan

Now, the proposal placed for appraisal in this 294th meeting of SEAC held on 14.07.2022. The Project proponent made a presentation along with clarifications for the above shortcomings observed by the SEIAA.

Based on the clarification submitted by the PP, the committee decided to **recommend the proposal for the grant of Environmental Clearance**. All other conditions stated in 268th meeting of SEAC held on 29.04.2022 will remain unaltered.

Agenda No: 294-13

(File No: 7676/ 2020)

Proposed Rough stone and Gravel quarry over an extent of 4.94.0 Ha in S.F.No. 216/2B (P), 217/1, 217/2, 217/3A and 217/3B at Gudalur Melpagam Village, Aravakurichi Taluk, Karur District, Tamil Nadu by M/s. Sri Bhagavathi Amman Blue Metals- For Environmental Clearance. (SIA/TN/MIN/ 52438/ 2020 dated: 05.05.2022)

The SEAC noted the following:

1. The project proponent, M/s. Sri Bhagavathi Amman Blue Metals has applied for Environmental Clearance for the proposed Rough stone and Gravel quarry over an extent of 4.94.0 Ha at S.F.No. 216/2B (P), 217/1, 217/2, 217/3A and 217/3B, Gudalur Melpagam Village, Aravakurichi Taluk, Karur 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.


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CHAIRMAN
SEAC- TN

3. As per mining plan the the lease period is for 5 years. The production for the five years states that the total quantity of recoverable should not exceed 5,38,638 cu.m of Rough stone, 12,516 cu.m of Gravel with an ultimate depth of mining is 42m. The Annual peak production as per mining plan is 17,1075cu.m of rough stone.
4. ToR issued vide Lr.No.SEIAA-TN/F.No.7676/SEAC/ToR-768/2020 dated 06.10.2020.
5. Public hearing conducted on 26.08.21.

The proposal was placed in the 510th SEIAA meeting held on 23.05.2022.

The authority noted that this proposal was placed for appraisal in this 265th meeting of SEAC held on 21.4.2022 and the SEAC decided to recommend for grant of Environmental Clearance subject to the certain additional conditions stated therein along with the following condition that the project proponent shall submit certified compliance report for previous EC before obtaining EC.


Further, the authority noted that a complaint Dt: 24.11.2021 received to this office dt: 26.11.2021 regarding illegal mining operation.

In view of the above, the authority decided to refer back the proposal to SEAC for re-appraisal.

Now, the proposal was placed for appraisal in this 294th meeting of SEAC held on 14.07.2022. The Project proponent made a presentation along with clarifications for the above shortcomings observed by the SEIAA. PP also produced a letter indicating that the complainant has since withdrawn the complaint.

The PP has submitted certified compliance report from MoEF&CC vide E.P/12.1/2022-23/SEIAA/9/TN/525 dated 18.05.22, although it related to different survey numbers not connected to the present proposal.

Based on the clarification submitted by the PP, the committee decided to **recommend the proposal for the grant of Environmental Clearance**. All other conditions stated in 268th meeting of SEAC held on 29.04.2022 will remain unaltered.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

Agenda No: 294-14

(File No: 7805/2021)

Proposed Rough stone quarry lease area over an extent of 1.00.0Ha at S.F.No's. 200/1C (Block – 11) Vengalam Village, Veppanthattai Taluk, Perambalur District, Tamil Nadu by Thiru G. Jegadeesan - For Environmental Clearance. (SIA/TN/MIN/171000/2020 Dt.22.7.2021)

The proposal was placed for appraisal in this 264th meeting of SEAC held on 19.4.2022. 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, Thiru G. Jegadeesan has applied for Environmental Clearance for the proposed Rough stone quarry lease area over an extent of 1.00.0Ha at S.F.No's. 200/1C (Block – 11) Vengalam Village, Veppanthattai Taluk, Perambalur District, Tamil Nadu. It is a Govt. poromboke land.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. The production for 5 years not to exceed 231590m³ of Rough stone and 10000 m³ of top soil. The Annual peak production as per mining plan is 51200 m³ of rough stone (3rd year) with ultimate depth – 86m (46m AGL + 40m BGL).

The proposal was placed in the 509th SEIAA meeting held on 20.05.2022.

The Authority Noted that in the 227 SEAC meeting, SEAC decided to direct proponent to obtain clarification from AD, Geology & Mining in regard to assess whether the status of cluster exceeds 500m radius of the proposed site along with details of validity of lease period for the existing & proposed mining area considering blocks at S.F No. 200.

In this connection, the proponent has furnished reply for 227th SEAC meeting minutes vide Lr. Dt:15.09.2021 followed by cluster certificate letter from AD, Geology & Mining, Perambalur Dt:06.09.2021.


**MEMBER SECRETARY
SEAC -TN**


**CHAIRMAN
SEAC- TN**

The proposal was again placed in this 236th SEAC meeting held on 05.10.2021 and the SEAC noted that the cluster certificate letter from AD, Geology & Mining, Perambalur Dt:06.09.2021 furnished by the proponent was not genuine. Hence, the SEAC after the detailed deliberations has decided that SEIAA shall address DD/AD, Geology & Mining, Perambalur District regarding the genuinity of the above said cluster certificate letter from AD letter dt: 06.09.2021 furnished the proponent.

After the receipt of reply from the DD/AD, Geology & Mining, Perambalur District, the SEIAA shall verify same and forward the said application to SEAC for appraisal so as to place said proposal in the forthcoming ensuing meeting.

The proposal was placed in the 264th meeting held on 19.4.2022 and the SEAC has decided to recommend the proposal for issue of Environmental Clearance subject to certain conditions stated therein.

In this regard, the Authority noted that SEAC has not addressed the above points in the 264th SEAC minutes. Also, a complaint was received against the project proponent regarding fake documents.

In view of the above, the Authority after detailed discussion decided to address AD/DD Mines Department after obtaining reply place it before authority for further course of actions.

Now, the proposal placed for appraisal in this 294th meeting of SEAC held on 14.07.2022. The Project proponent made a presentation along with clarifications for the above shortcomings observed by the SEIAA.

The AD, Geology & Mining, Perambalur District in his letter Rc.No.140/G&M/2021 dated 07.03.2022, has stated that the impugned letter has been verified and found to be correct. The Committee in its 264th meeting held on 19.4.2022 has discussed the letter in detail already and recommended the proposal for the grant of Environmental Clearance and the details of the same is available in the file.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

Based on the above clarification, the Committee reiterated its earlier recommendation made in the 264th SEAC meeting.

Agenda No: 294-15

(File No: 7923/2020)

Proposed Rough Stone quarry lease area over an extent of Extent 1.00.0 Ha at SF.No. 705 (PART.2), Ponnai Village, Katpadi Taluk, Vellore District, Tamil Nadu by Thiru.C.N.Moorthy - For Environmental Clearance. (SIA/TN/MIN/175686/2020 Dt.8.10.2020)

The proposal was placed for appraisal in 263rd meeting of SEAC held on 9.4.2022. 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, Thiru.C.N.Moorthy has applied for Environmental Clearance for the proposed Rough Stone quarry lease area over an extent of Extent 1.00.0 Ha at SF.No. 705 (Part.2), Ponnai Village, Katpadi Taluk, Vellore District, Tamil Nadu. It is a Govt. Promboke land.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 10 years. The production for 5 years not to exceed 1,39,588 m³ of Rough stone. The Annual peak production as per mining plan is 28288m³ of rough stone (3rd year) with proposed depth of 45.5 m (13m AGL+ 32.5m BGL).

Based on the presentation and document furnished by the project proponent, SEAC recommended the proposal for the grant of Environmental Clearance with certain conditions.

The proposal was placed in the 508th SEIAA meeting held on 19.05.2022.

After detailed discussion, the Authority decided to refer back the proposal to SEAC, after the receipt of following additional particulars with reference to project life (or) subject to a maximum of thirty years, whichever is earlier.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

- a) Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the following
- b) Soil health & bio-diversity.
 - c) Climate change leading to Droughts, Floods etc.
 - d) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature & Livelihood of the local people.
 - e) Possibilities of water contamination and impact on aquatic ecosystem health.
 - f) Agriculture, Forestry & Traditional practices.
- I. 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) so as to assess the impacts on the nearby waterbodies 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, covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
- II. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/unfavorable accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities.
- III. Detailed Mine Closure Plan covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
- IV. Detailed Environment Management Plan covering the project life (or) subject to a maximum of thirty years, whichever is earlier.

Now, the proposal placed for appraisal in this 294th meeting of SEAC held on 14.07.2022. The Project proponent made a presentation along with clarifications for


MEMBER SECRETARY
SEAC -TN

35


CHAIRMAN
SEAC- TN

the above shortcomings observed by the SEIAA.

Based on the clarification submitted by the PP, the committee decided to reiterate its recommendation made in 263rd meeting of SEAC held on 9.4.202. All other conditions stated will remain unaltered.

Agenda No: 294-16

(File No: 7930/2022)

Proposed rough stone and gravel quarry lease area over an extent of 2.23.0 Ha at Sf.No.389/1B Melathattaparai Village, Thoothukudi Taluk, Thoothukudi District, Tamil Nadu by Tmt.T.Palavesammal - For Environmental Clearance (SIA/TN/MIN/57381/2020 Dt.28.2.2022)

The proposal was placed for appraisal in 269th meeting of SEAC held on 5.5.2022. 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, Tmt.T.Palavesammal has applied for the Environmental Clearance for proposed rough stone and gravel quarry lease area over an extent of 2.23.0 Ha at Sf.No.389/1B Melathattaparai Village, Thoothukudi Taluk, Thoothukudi 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 production for 5 years not to exceed -194570 m³ of Rough stone and 79170 m³ of gravel and 72270 weathered rock. The annual peak production as per mining plan is 39050 m³ of rough stone (4th year) & 50700 m³ of gravel (1st year) and 46720 m³ of weathered rock with ultimate depth of 40m BGL.
4. The PP was issued with ToR vide Lr No.SEIAA-TN/F.No.7930/SEAC/ToR-884/2020 Dated: 16.03.2021 with restricting the depth of mining from 40m to 35m ultimate depth and quantity of 185600 m³ of rough stone, 72270 m³ of weathered rock & 79170 m³ of gravel for five years with a bench height of 5m as per the approved mining plan considering the hydro geological regime of the surrounding area.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

5. ToR issued vide TN/F.No.7930/SEAC/ToR-884/2020 dated 16.03.2021.

6. Public hearing conducted on 29.10.2021.

The proposal was placed in the 514th SEIAA meeting held on 31.05.2022.

Authority noted that the proposal was placed in the 269th meeting of SEAC held on 05.05.2022. SEAC has furnished its recommendations to the Authority for granting Environmental Clearance to the Project subject to the conditions stated therein.

After detailed discussions the Authority decided to request the Member Secretary, SEIAA-TN to refer back to the proposal to SEAC for the following reason.

1. On perusal of the mining plan it was noticed that the depth of mining proposed stated as 22m for a period of 5 years.
2. On perusal of the KML file, it was noticed that only a white patch at the mine lease area is visible. There is no distance GPS coordinate, demarcating the boundary.

The above fact may be ascertained.

Now, the proposal placed for appraisal in this 294th meeting of SEAC held on 14.07.2022. The Project proponent made a presentation along with clarifications for the above shortcomings observed by the SEIAA.

S.No	Query	Reply
1	On perusal of the mining plan it was noticed that the depth of mining proposed stated as 22m for a period of 5 years.	As per Approved Mining plan it was recorded as 40m in page No.3,7,10,15 & 17. However mistakenly it was typed 22m in page no.9 only. The PP assured that this type of mistake will not happen again.
2	On perusal of the KML file, it was noticed that only a	Generally kml file will be uploaded as polygon and its fill style will be No brush.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC - TN

	white patch at the mine lease area in visible. There is no distance GPS coordinate, demarcating the boundary.	But in this project kml file is uploaded as polygon with its fill style as solid. This can be corrected by right click the kml file and in properties the fill style can be changed by clicking the No brush. The GPS coordinates is available in the lease plan given as plate no.2 of the approved mining plan report.
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Based on the clarifications submitted by the PP, the committee **decided to recommend the proposal for the grant of Environmental Clearance for the production for 5 years not to exceed 185600m³ of Rough stone, 79170 m³ of gravel and 72270 m³ of weathered rock, with the ultimate depth restricted to 35 m.** All other conditions stated in 269th meeting of SEAC held on 5.5.22 will remain unaltered.

Agenda No: 294-17

(File No: 7971/2021)

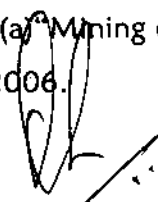
Proposed rough stone and gravel quarry lease area over an extent of 1.30.0 Ha at S.F.Nos. 20/2 (P) and 21/2 of T.Nallalam Village, Marakkanam Taluk, Villuppuram District, Tamilnadu by Thiru V. Narendiran -For Environmental Clearance. (SIA/TN/MIN/57654/2020 Dt. 23.2.2022)

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, Thiru V. Narendiran has applied for the Environmental Clearance for proposed rough stone and gravel quarry lease area over an extent of 1.30.0 Ha at S.F.Nos. 20/2 (P) and 21/2 of T.Nallalam Village, Marakkanam Taluk, Villuppuram 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.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

3. As per the mining plan, the lease period is for 5 years. The production for 5 years not to exceed –68085 m³ of Rough stone and 7963 m³ of Top Soil. The Annual peak production as per mining plan is 22755 m³ of Rough stone (1st year) & Top Soil 2982m³ with ultimate depth of 21mBGL.
4. The PP was issued with ToR vide Lr No.SEIAA-TN/T.No.7971/SEAC/ToR-923/2020 Dated: 16.04.2021.
5. Public hearing conducted on 26.11.2021.

The proposal was placed in the 514th SEIAA meeting held on 31.05.2022.

The Authority noted that the proposal was placed in the 269th meeting of SEAC held on 05.05.2022. SEAC has furnished its recommendations to the Authority for granting Environmental Clearance to the Project subject to the conditions stated therein.

After detailed discussions the Authority decided to request the Member Secretary, SEIAA TN to refer back the proposal to SEAC TN after obtaining the following details from the Project Proponent.

On perusal of the Google imagery, it was noticed that numerous trees are located at the proposed mine lease area and its vicinity. Hence the Proponent shall furnish a proposal for translocation of the aforesaid trees and a detailed study report on the impact of the proposed mining on the biodiversity.

Now, the proposal placed for appraisal in 294th meeting of SEAC held on 14.07.2022. The Project proponent made a presentation along with clarifications for the above shortcomings observed by the SEIAA.

The PP stated that *“The Committee noted that the PP had done a tree survey study in the mining lease applied area and its management during mining activity under Specific Condition No. 7 of ToR Compliance and presented before the 269th SEAC Meeting. There are 5 Nos of Tamarind Trees, 7 Nos of Neem Trees and mostly scattered Julia flora within the Lease Applied Area. The PP agreed to translocate 12 nos of trees and it*


MEMBER SECRETARY
SEAC -TN

39


CHAIRMAN
SEAC- TN

is also proposed to plant about 625 Nos of trees (native) during the Mining plan period for the proposed project which will be carried out during the first year plan period. This greenbelt development plan shall form an acoustic barrier for reducing dust propagation into the adjacent fields and will have no significant impact on the surrounding biodiversity."

Based on the clarifications submitted by the PP, the committee **decided to reiterate its recommendation made** in 269th meeting of SEAC held on 5.5.22. All other conditions stated will remain unaltered.

Agenda No: 294-18

(File No: 8013/2020)

Proposed Rough Stone quarry lease over an extent of 1.28.41 Ha at S.F.Nos. 507/3A2, 507/3A3, 507/3D2, 50A/2B6, 507/3B, 507/3C, 507/4, 507/3D1B, 508/4, 507/3A1A1A (P), 507/3D1C, 507/3A1B & 507/3E of Thengappattanam Village, Killloor Taluk, Kanniyakumari District by Thiru. K.P. Ravichandran - For Environmental Clearance. (SIA/TN/MIN/182815/2020, dated: 10.11.2020)

The details of the Project furnished by the Proponent are available on the website (pariverh.nic.in).

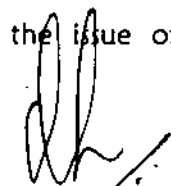
The project proponent gave detailed presentation, SEAC noted the following:

1. The Project Proponent, Thiru K.P. Ravichandran has applied seeking Environmental Clearance for the proposed Rough Stone quarry lease over an extent 1.28.41 Ha at S.F.Nos. 507/3A2, 507/3A3, 507/3D2, 50A/2B6, 507/3B, 507/3C, 507/4, 507/3D1B, 508/4, 507/3A1A1A (P), 507/3D1C, 507/3A1B & 507/3E of Thengappattanam Village, Killloor Taluk, Kanniyakumari District.
2. The Project/activity is covered under Category "B2" of item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

The proposal was placed in the 515th SEIAA meeting held on 01.06.2022.

The authority noted that this proposal was placed for appraisal in 270th meeting of SEAC held on 06.05.2022 and the SEAC decided to recommend the issue of Environmental Clearance subject to certain conditions stated therein.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

The authority noted that the proposed mine lease area nearby water bodies such as Coastal area (Arabian Sea), Channel & habitats.

The authority after detailed discussion decided to refer back the proposal after the receipt of following details from the project proponent.

1) Study on impact of proposed mining activity on nearby habitats, sea water intrusion & marine ecosystem.

Now, the proposal placed for appraisal in 294th meeting of SEAC held on 14.07.2022.

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

The PP stated that the saltwater intrusion is the movement of saline water into freshwater aquifers, which can lead to ground water quality degradation, including drinking water sources, and other consequences. Salt water intrusion can naturally occur in coastal aquifers, owing to the hydraulic connection between ground water and seawater. Because saline water has a higher mineral content than freshwater, it is denser and has a higher water pressure. As a result, saltwater can push inland beneath the freshwater. This proposed quarry for a depth of 27 m (2 m Gravel + 25 m Rough Stone) is proposed for quarrying on a hard batholith formation of Charnockite and the same is inferred from the Hydrogeological Study Report Submitted by Prof. S.M. Hussain, M.Sc., M.Phil., Ph.D., (University of Madras) and concluded that there is no possibility to direction of water flow from sea to quarry area and the formation will act as barrier for movement of water and the proposed depth of mining will not intersect the ground water regime.

Based on the clarification submitted by the PP, the Committee decided to direct the PP to submit a detailed study on the structures located around the proposed site. The structures within 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, places of worship, etc.,. On receipt of the additional details, SEAC will further examine the proposal.

Agenda No: 294-19


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

(File No: 8053/2021)

Proposed Rough stone quarry lease area over an extent of 1.34.5.0Ha at S.F. No. 95(Part) Muthur Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Thiru. S.Rangasamy - For Environmental Clearance. (SIA/TN/MIN/56792/2020 Dt. 25.1.2022)

The proposal was placed for appraisal in this 264th meeting of SEAC held on 19.4.2022. 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, Thiru S.Rangasamy has applied for Environmental Clearance for the proposed Rough stone quarry lease area over an extent of 1.43.5Ha at S.F. No. 95(Part) Muthur Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu. It is a Govt. poromboke land.
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 10 years. The production for 5 years not to exceed 2,42,233m³ of Rough stone. The Annual peak production as per mining plan is 59178 m³ of rough stone (1st year) with ultimate depth – 50m (15mAGL+35m BGL).
4. The PP was issued with ToR vide SEIAA-TN/F.No.8053/SEAC/TOR-901/2020 Dt.16.3.2021 with the restricted production of Rough stone as per mining plan 2,32,393m³/ - with ultimate depth of 45m (15m AGL + 30m BGL) and the same was accepted by the PP.

Based on the presentation and document furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance** subject to the certain conditions.

The proposal was placed in the 509th SEIAA meeting held on 20.05.2022.

The Authority after detailed discussion decided to refer back the proposal to SEAC after


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

the receipt of following additional particulars from the project proponent with reference to project life (or) subject to a maximum of thirty years, whichever is earlier.

- i. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area from a reputed research institutions on the following
 - a) Soil health & bio-diversity.
 - b) Climate change leading to Droughts, Floods etc.
 - c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
 - d) Possibilities of water contamination and impact on aquatic ecosystem health.
 - e) Agriculture, Forestry & Traditional practices.
 - f) Hydrothermal/Geothermal effect due to distraction in the Environment.
 - g) Bio-geochemical processes and its foot prints including environmental stress.
 - h) Sediment geochemistry in the surface streams.
- ii. 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) so as to assess the impacts on the nearby waterbodies 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, covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
- iii. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities.
- iv. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.
- v. Detailed Mine Closure Plan covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
- vi. Detailed Environment Management Plan including adaption mitigation & remedial strategies covering the project life (or) subject to a maximum of thirty years, whichever is earlier.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

Now, the proposal placed for appraisal in 294th meeting of SEAC held on 14.07.2022. The Project proponent made a presentation along with clarifications for the above shortcomings observed by the SEIAA.

Based on the clarification submitted by the PP, the committee **decided to recommend the proposal for the grant of Environmental Clearance**. All other conditions stated in 264th meeting of SEAC held on 19.4.2022 will remain unaltered.


Agenda No: 294-20
(File No: 8174/2020)

Proposed Multi colour Granite quarry lease over an extent of 1.00.0Ha at S.F.Nos. 97/1(Part) & 97/3A(Part) of Sandhaiyur Village, Sattur Taluk, Virudhunagar District, Tamil Nadu by M/s. Siva Jeyam Granites - For Environmental Clearance.(SIA/TN/MIN/188239/2020, dated: 16.12.2020).

The proposal was placed in 205th SEAC Meeting held on 03.03.2021, 223rd SEAC meeting held on 30.07.2021, 459th Authority held on 9.9.2021. The details of the minutes are given in the website (www.parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. Siva Jeyam Granites has applied for Environmental Clearance for the proposed Multi colour granite quarry lease over an extent of 1.00.0Ha at S.F.Nos. 97/1(P) & 97/3A(P) of Sandhaiyur Village, Sattur Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Project" of the Schedule to the EIA Notification, 2006.
3. As per the approved mining plan, the lease period is for **20** years but the estimated life of the quarry is **10** years as provided during the review / scheme of mining and the Total excavation quantity for 5 years not to exceed **77645 m³** which includes the ROM quantity of **60865 m³** possessing the recoverable multi colour granite quantity of **24346 m³** & granite waste of **36519 m³**; top soil of **280 m³** and side burden of **16500 m³**. The Annual peak total excavation as per mining plan is **18934 m³** and the Annual peak ROM & recoverable quantity of Multi Colour Granite is **1199 m³** & **4800 m³** respectively with maintaining an ultimate depth of **61 m BGL**.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

Year	ROM (m ³)	Recovery @ 40% (m ³)	Granite Waste @ 60% (m ³)	Side Burden (m ³)	Top spoil (m ³)	Total Excavation (m ³)
2018-19	11999	4800	7199	6655	280	18934
2019-20	12490	4996	7494	2695	0	15185
2020-21	12176	4870	7306	1650	0	13826
2021-22	12160	4864	7296	3355	0	15515
2022-23	12040	4816	7224	2145	0	14185
Grand Total	60865	24346	36519	16500	280	77,645

Note: This Scheme was submitted on 25.09.2020 for the period from 2018-19 to 2022-23

Whereas, the Scheme was approved on 22.10.2020 and approval was accorded only for the remaining period on the date of approval i.e., 3rd, 4th & 5th Year.

As per the Approval Letter, the total excavation quantity for a period of 3 years not to exceed **43526 m³** which includes the ROM quantity of **36376 m³** possessing the recoverable multi colour granite quantity of **14550 m³** & granite waste of **21826 m³**; top soil of **0 m³** and side burden of **7150 m³**. The Annual peak total excavation as per Approval Letter is **15515 m³** and the Annual peak ROM & recoverable quantity of Multi Colour Granite is **12160 m³** & **4864 m³** respectively with Approval period of from **29.12.2020 to 28.12.2023**.

Year	ROM (m ³)	Recovery @ 40% (m ³)	Granite Waste @ 60% (m ³)	Side Burden (m ³)	Top spoil (m ³)	Total Excavation (m ³)
2018-19						
2019-20						
2020-21	12176	4870	7306	1650	0	13826
2021-22	12160	4864	7296	3355	0	15515
2022-23	12040	4816	7224	2145	0	14185
Grand Total	36376	14550	21826	7150	0	43,526

The proposal was placed in the 515th SEIAA meeting held on 01.06.2022.

- The Authority noted that the AD/G&M/Virudhunagar District vide letter Dt.04.02.2022 has recommended the production of 14,550 CBM of Multi


MEMBER SECRETARY
SEAC -TN


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SEAC- TN

Colour granite and 280 CBM of Topsoil. In this connection, the proponent vide its letter dt 07.02.2022 has requested the SEIAA for grant of EC for the above recommended production quantity of 14,550 CBM of multi colour Granite for the remaining period of 2020-2023.

The Proposal was placed for appraisal in the 270th meeting of SEAC held on 06.05.2022 and the SEAC decided to recommend the issue of Environmental Clearance subject to the condition that

"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"

Also, authority noted that it was noted that mining lease was granted vide G.O.(3D) No.109, Industries (MMB-2) Dept. Dt 10.12.2008 valid upto 28.12.2028.

In view of the above, the Authority after detailed discussion decided to refer back the proposal to SEAC after the receipt of following additional particulars from the project proponent with reference to project life (or) subject to a maximum of thirty years, whichever is earlier.

i. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area from reputed research institutions on the following

- a) Soil health & bio-diversity.
- b) Climate change leading to Droughts, Floods etc.
- c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
- d) Possibilities of water contamination and impact on aquatic ecosystem health.
- e) Agriculture, Forestry & Traditional practices.
- f) Hydrothermal/Geothermal effect due to destruction in the Environment.



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SEAC- TN

- g) Bio-geochemical processes and its foot prints including environmental stress.
- h) Sediment geochemistry in the surface streams.
- ii. 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) so as to assess the impacts on the nearby water bodies 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, covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
- iii. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities.
- iv. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.
- v. Detailed Mine Closure Plan covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
- vi. Detailed Environment Management Plan includes adaptation, mitigation & remedial strategies covering the project life (or) subject to a maximum of thirty years, whichever is earlier.

Now, the proposal placed for appraisal in 294th meeting of SEAC held on 14.07.2022. The Project proponent made a presentation along with the following clarifications for the above shortcomings observed by the SEIAA.


- The production targets are conservative and follow the statutory rules and regulations issued by the Govt to quarry the **Multi Colour granite** at this location and sold to international and domestic markets.
- The PP is also demarcated a dedicated area within the leasehold area for dumping of the non-saleable granite waste.

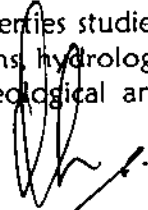

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SEAC- TN

- The waste rock (or) overburden/side burden rock (or) other rejects excavated in the quarry is also dumped within the leasehold area and it will be used for constructing the safety berms, bunds for developing the green belt during the life of 20 years and the remaining waste at the end of life will be used for backfilling purposes into the mined-out area of the quarry during the final closure plan.
- In case of non-feasibility of backfilling, the waste dumps will suitably terraced and stabilised by planting adequate vegetation as stipulated by the SEAC, as a part of progressive mine closure plan & rehabilitation plan approved by the competent authority under the provisions of the Granite Conservation & Development Rules, 1999.
- Long term & shorter ecological and environmental impacts such as air pollution due to dust, exhaust emissions or fumes, the discharge of toxic and objectionable effluents, noise arising out during the mining operations of granite and related activities are adequately mitigated in the EMP.
- It is submitted that the environmental impact is directly linked to the total excavation quantity which includes the RoM being mined out from the mineralised zone of quarry and not restricted to saleable production quantity (recovery alone).
- In some period, the situation arises where the recovery falls down to even very low value as 2 to 3% of RoM which neither provides an economically viable operation in the interest of revenue generation for company as well as the State Government and also it is not conducive to protect the environment in a sustainable manner.
- Mining recoverable reserves may vary subject to the quality of Granite mining methodology and the existing Geological features such as structural, textural formations and very significantly, the current market demand for the Granite being mined.
- Further, it is well known that without extracting the Run of Mine (ROM) the recoverable production (recovery) is not possible.
- The total of quantity of granite waste produced during the life of the quarry period will be utilised / dumped as per the conditions stipulated in the approved Mining Plan. Here, in case of utilization of granite waste for further beneficial purposes as per market trend (or) the Govt directions, the company shall get a revised / modified Mining Plan along with Mine Closure Plan from the competent authority.
- The PP have informed that any one of the following five scenarios that will be focused on the reclamation planning of the proposed quarry, which are:
 - To use mined land as agricultural purpose as the stored water will be utilised for cultivation;
 - To reshape the quarry and design a residential area;
 - To use the area as a place for educational purposes;
 - To revegetate the mined land with appropriate species for foresting and
 - Using the area as a promenade site/eco park for tourists.

These criteria have been determined according to mine site properties studied earlier through EIA/EMP such as micro and macro climate conditions, hydrology and hydrogeology, chemical and physical properties of soil, geological and


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SEAC -TN


CHAIRMAN
SEAC- TN

- geotechnical parameters and etc.
- The PP had indicated that the final mine closure plan includes the action plan for protection of the quarry once it is completed its life (or) abandoned by installing necessary safety provisions such as fencing, etc is provided in the Mining Plan.
- The PP have informed that the granite waste blocks produced from the quarry (non-saleable granite) will be transported taking adequate environmental mitigation measures similar to the recovered Granite blocks as stipulated in EMP, in case of processing plant is situated outside the leasehold area.

Based on the clarification submitted by the PP, the committee **decided to recommend the proposal for the grant of Environmental Clearance.** All other conditions stated in 270th meeting of SEAC held on 06.05.2022 will remain unaltered.


Agenda No: TA-01
(File No: 9231/2021)

Proposed Sand quarry over an extent of 4.90.0 Ha in Vellar river located at S.F.No: S.F.Nos. 93 (P), Kiliyanur village, Chidambaram Taluk, Cuddalore District, Tamil Nadu by the Executive Engineer, PWD/WRD- For Environmental Clearance. (SIA/TN/MIN/270435/2022 Dt. 4.5.2022)

The proposal was placed for appraisal in 293rd SEAC Meeting held on 8.7.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Executive Engineer, PWD/WRD, has applied for Environmental Clearance proposed Sand quarry over an extent of 4.90.0 Ha in Vellar river located at S.F.No: S.F.Nos. 93 (P), Kiliyanur village, Chidambaram Taluk, Cuddalore District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is one year and the mining plan for the period of one year & mining quantity should not exceed 69638 cu.m. of sand. The ultimate depth 1 metres below bed level.


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SEAC- TN

Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Subcommittee constituted by SEAC to assess the present Environmental Condition.

The Sub-Committee of SEAC visited the project site on 12.07.2022 to collect the factual information and took photographs of the salient features of the site to get the first-hand information of the site. The Sub-Committee inspection report was placed in this 294th meeting of SEAC held on 14.07.2022 and the observations of the Sub-committee are as follows,

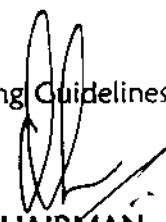
Observations Made by the Sub-Committee:

1. Proposed sand quarry is located on the northern side of the Kiliyanur Village in SF. No.93(P) in the river bed of Vellar. It is close to the right bank of Vellar river.
2. The dimension of the proposed sand quarry is 980m(avg) in length and 50m in width.
3. It is located about 8.9 km downstream of Sethiyathope Anicut (Sill +8.765m) and 9.7 km upstream of SH215(Bhuvanagiri-Chidambaram) road bridge.
4. Two numbers of abandon wells were located @8.4km upstream of Proposed quarry site and NH45C road bridge is located @8.7km upstream of Proposed quarry site.
5. Bay of Bengal sea lies 30km East of proposed sand quarry site.
6. The sand at the proposed site is replenished well and sand is deposited above the bed level (Theoretical bed level +5.105m).
7. It was informed by the PWD officials that a temporary road with bio-degradable material will be formed along the banks of river to transport the sand to the yard.
8. Paddy fields are seen enroute sethiathope to Kiliyanur village.
9. The kiliyanur sand quarry site is proposed on rightside(deposition side) bed of vellar river. It helps to regulate the flood water to flow freely to avoid further meandering on leftside (erosion side).

Recommendations of the Sub committee:

1. The following recommendations of the Enforcement & Monitoring Guidelines


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SEAC- TN

for Sand Mining, 2020 of the MoEFCC, Government of India (Annexure VIII Salient provision for sand mining in the state of Tamil Nadu) can be implemented.

2. "To monitor the groundwater level during sand quarrying operations, a network of existing wells may be established around the sand quarrying area and new piezometers must be installed at all sand quarry sites. Monitoring of Ground Water Quality in the vicinity (one Km radius from the sand quarrying site) shall be carried out once in two months".
3. In this endeavour, Groundwater Wing of the Water Resources Department of the PWD may be engaged.
4. As per Rule 36 of the Tamil Nadu Minor Mineral Concession Rules 1956, no sand quarry should be allowed within 500m radial distance from the location of any bridge, water supply system, infiltration well or pumping installation.
5. In as much as within 8.00km on either side no such structures or installation are available, the mining of sand at the proposed sand quarry in SF No.93 (P) of Kiliyanur village, Chidambaram Taluk, Cuddalore District .

In view of the above, it is submitted and recommended that the grant of environmental clearance for the proposed sand quarry covering the lease over an extent of 4.90 Hectare in S.F. No:93 (P) at Kiliyanur village, Chidambaram Taluk, Cuddalore District may kindly be considered.

Based on the recommendations of the sub-committee and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance** subject to the normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

1. The Project Proponent shall initiate a "Replenishment Study" as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020, through any reputed institution like Anna University and IIT Madras.
2. 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

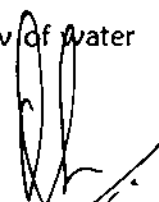

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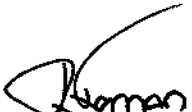
approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.

3. 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.
4. As accepted by the Project Proponent the CER cost is Rs.2 Lakhs and the amount shall be spent to the committed activities for Government High school, Mullangudi Village before obtaining CTO from TNPCB.
1. The proponent shall fix flag posts at boundaries for the proposed mining area covering an extent of 4.90.0 Ha. There should be no deviation/ violation with respect to the area demarcated for quarrying.
2. The depth of sand quarrying shall be restricted to 1 m from the theoretical bed level.
3. The project proponent shall monitor the groundwater level during sand quarrying operations, a network of existing wells may be established around the sand quarrying area and new piezometers must be installed at all sand quarry sites. Monitoring of Ground Water Quality in the vicinity (one Km radius from the sand quarrying site) shall be carried out once in two months by engaging Groundwater Wing of the Water Resources Department.
4. To prevent dust pollution, suitable working methodology needs to be adopted taking wind direction into consideration.
5. At no cost the impact of sand mining should interfere with the habitation and cultivation in the nearby area along the river bed.
6. The mining area must be demarcated leaving at least 50m from the river embankment on either side.
7. Contouring of the river bed has to be taken to ascertain the relative levels of sand in the river and also to suggest the depth of sand mining.
8. To ensure safety measures along the boundary of the quarry site, security guards are to be engaged during the entire period of mining operation.
9. Wherever irrigation channels take off from the river within the boundary of the mining project, the mining operation should not affect the flow of water in the irrigation channels.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

10. The entire sand mining operation should be as per the guidelines for sustainable sand mining issued in 2016 by the MoEF & CC, GOI, New Delhi.
11. If the agricultural activities (or) thick greeneries are being carried out around all the sand mining projects, the mining operation should not affect the greeneries (or) agricultural activities as well as it should not lead to depletion of water in the open wells located nearby.
12. The approach road and loading of the sand in the vehicles, movement of the vehicle should be planned and implemented in such a way that there is no noise and dust pollution in the nearby habitation. We recommend that PWD should maintain at least a safe distance of 300m from the habitations while planning the approach road and the loading operation. Wherever necessary and near the habitation in particular dust suppression measures to be adopted. While the loaded vehicle move on the road that should be fully covered with tarpaulin.
13. The pathway used by all machineries should be properly constructed and maintained by the PWD in order to avoid pollution.
14. The mining operation should be above the ground water table.
15. Adequate statutory manpower to be deployed for complying with the provisions to use heavy machineries as per Mines Safety Regulations (MCDR, 2017 & MMR, 1961).
16. The Proponent shall provide Provision of bio-toilet to be ensured and confirmed.
17. During the sand mining work, appropriate progressive mine closure activities must be implemented to restore the river bed to its original status for ensuring the free flow.


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ANNEXURE

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


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SEAC- TN

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.


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SEAC- TN

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.


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SEAC- TN

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>Adenanthura pavonina</i>	Manjadi	மஞ்சாடி, ஆனைக்குன்றிமணி
3	<i>Albizia lebeck</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentos</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweetenia</i>	Purasamaram	புரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Maryallavu	கோங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvu	நருவூர்
18	<i>Creteva adansonii</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உசா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உசா
21	<i>Diospyro sebenum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகனை
23	<i>Ficus amplissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பூவரசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம், ஆயிலி
27	<i>Lanea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விலா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	அரம்பா பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Illupai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுணா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுணா
38	<i>Phoenix sylvestre</i>	Eachai	எச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	பங்கம்


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SEAC -TN


CHAIRMAN
SEAC- TN

40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunnai	தறு முன்னை
42	<i>Premna tomentosa</i>	Malaipoovarasu	மலை பூவரக
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வெண்ணங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கறிபரலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புங்கன் சோப்புக்காய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தான் கொட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்ட்ரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வெண் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சத்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூவரக
59	<i>Walsuratrifoliata</i>	valsura	வால்குரா
60	<i>Wrightia tinctoria</i>	Veppalai	வெப்பாலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்புளி


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Appendix –II

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

கரங்கம்

கரங்கங்களில் சுவாரி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEIAA/____, தேதி____, சுற்றுச்சூழல் அனுமதி____ தேதி வரை செல்லத்தக்கதாக உள்ளது

பகலும் பகலுதி வளர்ச்சி	சுவாரிவின் எல்லையைச் சுற்றி வேலி அமைக்க வேண்டும்
மேம்பாட்டுக்கான கரங்கத் திட்டம்	கரங்கப்பாசனத்தின் ஆழம் தளமாட்டத்தில் குந்து..... மீட்டர்க்கு கிளாமல் இருக்க வேண்டும்
	காற்றில் மாக ஏற்படாதவாறு கரங்க பணிகளை மேற்கொள்ள வேண்டும்.
நடப்பட்டு	வாகனங்கள் செல்லும் பாதையில் மாக ஏற்படாத அளவிற்கு தண்ணீரை முறைப்பாக தண்ணீர் லாசிகளின் மூலமாக அவ்வப்போது தெளிக்க வேண்டும்.
பராமரிக்கப்பட வேண்டிய மரங்கள் எண்ணிக்கை.	இடைச்சேல் அமைப்பதும் தூசி மாகபாட்டையும் சுவாஸ்யத்திற்காக சுவாரிவின் எல்லையை சுற்றி அடர்த்தியான பகலும் பகலுதியை ஏற்படுத்த வேண்டும்.
கரங்கத்தில் வெடி வைக்கும்பொழுது நிலஅதிர்வுகள் ஏற்படாதவாறும் மற்றும் கற்கள் பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை உண்ணிப்பாக செயல்படுத்தப்பட வேண்டும்	
கரங்கத்தில் இருந்து ஏற்படும் இடைச்சேல் அளவு 83 டெசிபெல்ஸ் (dBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற் கொள்ள வேண்டும்.	
கரங்க சட்ட விதிகள் 1955ன் கீழ் கரங்கத்தில் உள்ள பணியாங்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு ககாதாரமுள்ள கழிப்பறை வசதிகளை செய்ய தர வேண்டும்.	
கிளாமல் அல்லது பஞ்சாயத்து வாரியாக வாகனங்கள் செல்லும் சாலைகளை தொடர்த்து தன்கு பராமரிக்க வேண்டும்.	
கரங்கப்பணிகளால் அருகில் உள்ள விவசாயப் பணிகள் மற்றும் தீர்நிலைகள் பாதிக்கப்படக் கூடாது.	
தீர்நிலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் திரைத் திரைத் திரைத் தொடர்த்து கண்காணிக்க வேண்டும்.	
கரங்கத்திலிருந்து கனிய பொருட்களை எடுத்துச் செல்லுது கிராம மக்களுக்கு எந்தத் சிரமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் சுற்றுச்சூழல் பாதிக்கவாத வண்ணம் வாகனங்களை இயக்க வேண்டும்.	
கரங்கப்பணிகள் முடிக்கப்பட்டவுடன் கரங்க மூடல் திட்டத்தில் உள்ளவாறு கரங்கத்தினை மூட வேண்டும்.	
கரங்க நடவடிக்கைகளை முடித்தபின்னர் கரங்கப் பகலுதி மற்றும் கரங்க நடவடிக்கைகளால் இடைபுறு ஏற்படக்கூடிய வேறு எந்தப் பகலுதியையும் மறுகட்டுமானம் செய்ய தாவரங்கள் விவங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பகலும் பகலுதியை உருவாக்க வேண்டும்.	
முழுமையான நிபந்தனைகளை அறிய பாரிவேஷ் (http://parivesh.nic.in) என்விர இணையதளத்தைப் பார்வைகூடவும் மேலும் சுத்தவித சுற்றுச்சூழல் சார்ந்த புகர்களுக்கு சென்னையில் உள்ள சுற்றுச்சூழல் மற்றும் வன அமைச்சகத்தின் ஒருங்கிணைந்த வட்டார அலுவலகம்: 044 - 28222325 (அல்லது) தமிழ்நாடு மாக கட்டுப்பாடு வாரியத்தின் மாவட்ட சுற்றுச்சூழல் பொறியாளரை அணுகவும்	

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61

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