

STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU

Minutes of 338th meeting of the State Expert Appraisal Committee (SEAC) held on 14.12.2022 (Wednesday) at SEIAA Conference Hall, 2nd Floor, PanagalMalligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects.

Agenda No: 338-01

(File No: 8447/2022)

Proposed Rough Stone & Gravel quarry Lease over an extent of 4.85.0 Ha at S.F.No. 478/2, 479/2B(P), 480/1A(P), 480/2B, 480/2C(P), 480/2D(P), 482/1, 482/2(P) & 483(P) in Chinnakallipatti Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu by Thiru.S.Palanisamy – For Environmental Clearance(SIA/TN/MIN/403228/2022 dated 15.10.2022)

The proposal was placed in 338th meeting of SEAC held on 14.12.2022. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.S.Palanisamyhas applied for Environmental Clearance for the proposed rough stone & gravel quarry lease over an extent of 4.85.0 Ha at S.F.No. 478/2,479/2B(P), 480/1A(P), 480/2B, 480/2C(P), 480/2D(P), 482/1, 482/2(P) & 483(P) in Chinnakallipatti Village, Mettupalayam Taluk, Coimbatore 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. The salient features of the proposal are as follows:

| Sl. No | Details of the Proposal | | |
|--------|---|---|--|
| 1 | Name of the Owner/Firm | Thiru.S.Palanisamy S/o. SennimalaiGounder No.3/84D, Kumarapalayam Thandukarampalayam Avinashi Taluk Tiruppur District-641655 | |
| 2 | Type of quarrying (Savudu/Rough Stone/Sand/Granite) | Rough stone and Gravel | |
| 3 | S.F No. Of the quarry site with area break-up | 478/2, 479/2B(P), 480/1A(P), 480/2B, 480/2C(P), 480/2D(P). | |


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| | | 482/1, 482/2(P) & 483(P) |
| 4 | Village in which situated | Chinnakallipatti |
| 5 | Taluk in which situated | Mettupalayam |
| 6 | District in which situated | Coimbatore |
| 7 | Extent of quarry (in ha.) | 4.85.0Ha |
| 8 | Latitude & Longitude of all corners of the quarry site | 11°22'03.70"N to 11°22'11.21"N 77°06'52.07"E to 77°07'01.22"E |
| 9 | Topo Sheet No. | 58-E/03 |
| 10 | Type of mining | Opencast Mechanized Mining |
| 11 | Period of quarrying proposed | 10 years |
| 12 | Production (Quantity in m ³) | 11,98,380m ³ of Roughstone & 84,312m ³ of gravel |
| 13 | Depth of quarrying | 47m below ground level |
| 14 | Depth of water table | 70m - 65m |
| 15 | Man Power requirement per day: | 49 Nos. |
| 16 | Water requirement: 1. Drinking & domestic purposes 2. Dust suppression 3. Green Belt | 7.5KLD 2.5 KLD 3.0 KLD 2.0 KLD |
| 17 | Power requirement | 9,72,754 Liters of HSD for the entire project life |
| 18 | Precise area communication approved by the Assistant Director, Dept. of G&M with date | Rc.No.779/Kanimam/2020, Dated: 24.11.2020 |
| 20 | Mining Plan approved by the Assistant Director of Geology and Mining with date | Rc.No.779/ Kanimam/2020 Dated: 31.12.2020 |
| 21 | 500m cluster letter issued by the Assistant Director of Geology and Mining with date | Rc.No.779/Mines/2020 Dated: 31.12.2020 |
| 22 | VAO certificate regarding habitations in 300m radius | Letter dated: 30.12.2020 |
| 23 | Project Cost (excluding EMP) | Rs.1,16,21,000/- |
| 24 | EMP cost | Capital cost: Rs.1,21,14,942/- Recurring cost: Rs.44,79,788/- |
| 25 | ToR Issued details | ToR Issued letter No. SEIAA-TN/F. No. 8447/SEAC/ToR-995/2021 |

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| | | Dated: 28.07.2021. |
| 26 | Public Hearing Details | Public hearing conducted on: 27.06.2022 |
| 27 | EIA Report Received | EIA received on: 20.10.2022 |

Earlier, the proposal was placed in 330th meeting of SEAC held on 17.11.2022. Based on the presentation and details furnished by the project proponent, the Committee noted that the data furnished in the EIA report submitted by the proponent is improper/irrelevant. Hence, after detailed discussions, the Committee decided to consider the proposal after the submission of a properly revised EIA report by the Proponent/consultant.

Based on the revised documents submitted by the proponent, the proposal is again placed for appraisal in this 338th SEAC meeting.

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 11,98,380m³ of Rough stone & 84,312m³ of gravel with an ultimate depth of 47m below ground level, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.


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4. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
5. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry without the prior permission of the Director of Mines Safety, Chennai Region.
6. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
7. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
8. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry.
9. Since few habitations are situated at a distance range of 340 m to 400 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Suitable blast parameters for reducing the cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarries in the cluster by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
10. The PP shall furnish a 'Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation in the cluster situation' by involving all the other operating quarries to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.

11. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
12. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
13. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
14. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus,. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
15. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
16. As accepted by the Project proponent the CER cost is **Rs. 10 lakhs** and the amount shall be spent towards two Schools for the activities as committed, before obtaining CTO from TNPCB.

Agenda No: 338-02

(File No: 8531/2021)

Proposed Rough Stone quarry lease area over an extent of 0.93.0Ha at S.F.Nos.304/3, 304/4, 304/5, 317/2B, 317/2C1, 317/2C2, 317/2C3, 318/1B2, 318/1C1 & 318/1C2 of Mallanampatti Village, Nilakottai Taluk, Dindigul District, Tamil Nadu by Thiru-M.Baskaran- For Environmental Clearance.(SIA/TN/MIN/209790/2021, dated: 20.04.2021).


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Earlier, this proposal was placed for appraisal in 231st meeting of SEAC held on 03.09.2021. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru-M.Baskaran, has applied for Environmental Clearance for the proposed Rough Stone quarry lease area over an extent of 0.93.0Ha at S.F.Nos. 304/3, 304/4, 304/5, 317/2B, 317/2C1, 317/2C2, 317/2C3, 318/1B2, 318/1C1 & 318/1C2 of Mallanampatti Village, Nilakottai Taluk, Dindigul District Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.

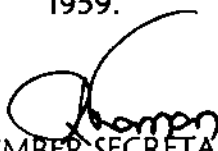
Based on the presentation and documents furnished by the project proponent, SEAC noted that there is a complaint from local Panchayat President on behalf of the village residents. Hence SEAC decided to conduct an on the spot site-inspection by the sub-committee members to verify the facts.

On receipt of the inspection report, the committee would further deliberate on this project and decide the further course of action.

The Sub-Committee of SEAC visited the project site on 28.02.2022 (Monday) 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 259th meeting of SEAC held on 31.03.2022 and the observations of the Sub-committee are as follows


Observations Made by the Sub-Committee:

1. This is an existing quarry and applied for fresh lease. There were no quarrying operations observed during the visit.
2. No effective Fencing has been installed around the boundary of the existing quarry, as per rule 36(4) of Tamil Nadu Minor Mineral Concession Rules, 1959.


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3. As per earlier lease deed conditions, the required safety distance of 7.5 and 10 m has not been provided to the adjacent Patta and Poramboke lands and quarrying had been carried out in the safety zone area also.
4. The Proponent has not maintained the 5m height and width with 45 degree slope from horizontal in order to avoid untoward incident as per regulation 106(2)(a) & 106(3) of the Metalliferrous Mines Regulations 1961 and also he has not carried out the quarrying operations in a skillful, scientific and systematic manner keeping in view of proper safety of the Labourers.
5. The owner of the mine, failed to appoint a duly qualified manager for overall management, supervision, direction and control of the mine resulting in contravention of regulation 34 of the Metalliferrous Mines Regulations 1961.
6. It was also observed that a family is living in a shed located at a distance of 325 m in South Eastern side from the existing quarry and the resident – Thiru. R. Dasan have informed that the blast-induced ground vibration and fly rock produced from the quarry blasting operations have been reduced since the NONEL shock tube initiation system is in practice but otherwise the blasts were not properly carried out in a scientific and safe manner earlier using the Detonating Fuse initiation system.
7. There is no habitation within a distance of 300 m. However, it has been noted that a Solar Energy Producing Unit is located just adjacent to the boundary of the existing quarry at a distance of 2 m covering around 0.80 Ha on the boundary of the quarry site which is against the Rule No. 36 (1-A) (a) of the Tamil Nadu Minor Mineral Concession Rules, 1959.
8. No intensive growth of the Green belt has been observed on the boundary of the existing quarry even though it is in the operation for 40 years.
9. During the interaction with Mr. K. Murugan, Panchayat President, Malanampatti Village who had earlier sent the letter of complaint to the SEAC have categorically replied that there was a resolution made by the ward members of the Panchayat favoring the closure of the quarry operations. He also added that no CER/CSR funds were spent from the quarry side during the last 2 and half years for the developmental activities in the village.


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10. During the on-site enquiry with the villagers on 28.02.2022 by the sub-committee, namely, Mrs. Jaya Ponnukalai, Mr. Ganesan, Mrs. Valarmathi Selvaraj and MrKaruppuDevar who are residing at a distance of more than 500 m from the quarry site, have supported the quarrying operations as it provides the employment opportunities.
11. During the above on-site enquiry, Mrs Jayalakshmi, VAO (i/c) have revealed that more complaints have come against the quarrying operations only after the installation of the solar power panel unit.

Recommendations of the Sub committee

1. The Subcommittee observed that the Village Panchayat President had agreed about the complaint letter which has been sent to the SEIAA against the quarrying operations based on the resolution made in the panchayat council meeting. Now, he did not want to provide any letter supporting the quarrying operations without the knowledge of the panchayat council ward members.
2. Secondly, the Subcommittee observed that the Solar Panel Power unit is situated at a distance of 2 m from the boundary of existing quarry which is violating the Rule No. 36 (1-A) (a) of the Tamil Nadu Minor Mineral Concession Rules, 1959 as vide Dist Collector Letter No. 380/2020, dated. 24.05.2021. In this regard, the Asst Director/Geology & Mining, Dindigul District has instructed the local Govt administrative officials such as Revenue Official/Dindigul, Thasildar/Nilakottai, the Block Development Officer/Vathalakundu to stop and remove the installation of solar panels vide letter no.44/2022, dated. 31.01.2022.

Hence, the subcommittee opines the proposal for the grant of Environmental Clearance for Proposed Rough Stone quarry lease area over an extent of 0.93.0Ha of Thiru. M. Baskaran at S.F.Nos.304/3, 304/4, 304/5, 317/2B, 317/2C1, 317/2C2, 317/2C3, 318/1B2, 318/1C1 & 318/1C2 of Mallanampatti Village, Nilakottai Taluk, Dindigul District Tamil Nadu may not be considered unless (i) a letter of consent from the local panchayat president favoring the commencement of quarrying operations; (ii) a letter of confirmation from the Asst Director /Geology & Mining, Dindigul District stating that the quarrying operations can be carried out with the presence of


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Solar Panel Unit located within 300 m radial distance of quarry; (iii) copy of the notice of opening sent to the Director of Mines Safety, Chennai Region, Chennai-34 about the commencement of quarrying operations, are submitted to the SEAC.

Based on the Inspection report and documents furnished by the project proponent, SEAC decided that the project proponent shall furnish the following details as raised by the sub-committee during site inspection,

1. A letter of consent from the local panchayat president favoring the commencement of quarrying operations;
2. A letter of confirmation from the Asst Director /Geology & Mining, Dindigul District stating that the quarrying operations can be carried out with the presence of Solar Panel Unit located within 300 m radial distance of quarry;
3. Copy of the notice of opening sent to the Director of Mines Safety, Chennai Region, Chennai-34 about the commencement of quarrying operations, shall be submitted to the SEAC.

This proposal again been placed in 338th SEAC meeting held on 14.12.2022. The SEAC noted that the following

1. The Proposal No. 8531 (online No. 209790) and this proposal 8620 are located in the same area.
2. The Solar panel structure is situated in adjacent to the boundary of the proposed quarry lease in Northern side of the proposal. Further, as indicated in the 259th SEAC meeting, the PP had not submitted any letter of confirmation received from the Asst Director /Geology & Mining, Dindigul District stating that the quarrying operations can be carried out with the presence of Solar Panel Unit located within 300 m radial distance of quarry.
3. More habitations are located at a distance range of 200 m to 300 m from the southern side of the proposed quarry lease.
4. No benches were formed during the earlier operative period posing unsafe situation.
5. No green belt was developed for ensuring healthy environment considering the existence of habitations nearby.
6. In the Madurai Bench of Madras High Court verdict on W.P (MD) No. 2495, 2072, 2073 & 6623 of 2021 Dt. 8.10.2021 has stated that "The BDO also

reported that the villagers have been fighting to stop the quarry site for past 20 years. It indicates that the Local people have already raised their objections for the ongoing and proposed quarrying operations.

7. Besides the above, the PP had not submitted the adequate responses for the queries raised during the 259th Meeting, on the grant of permission by the competent authority while the structures such as solar panel is abetting the boundary of proposed quarry leasehold area and a clarification from Panchayat on the objections raised earlier.

In view of the above reasons, the SEAC decided that not to recommend the proposal for the grant of Environmental Clearance.

Agenda No: 338 - 03

(File No: 8565/2021)

Proposed Rough Stone quarry lease area over an extent of 2.00.0 Ha at S.F.Nos.7/1 (Part) of Veppalampatti Village, Uthangarai Taluk, Krishnagiri District, Tamil Nadu by Thiru.P.Govindasamy - For Environmental Clearance. (SIA/TN/MIN/214724/2021, dated: 11.06.2021).

The proposal was placed for appraisal in this 338th meeting of SEAC held on 14.12.2022. 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. Govindasamy, has applied for Environmental Clearance for the proposed Rough Stone quarry lease area over an extent of 2.00.0Ha at S.F.Nos.7/1 (Part) of Veppalampatti Village, Uthangarai Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The production for the five years states that the total quantity of recoverable as 1,80,858cu.m of Rough Stone and 20,586cu.m of Top Soil with annual peak production as 39,905cu.m (5th year) and 19,602cu.m (1st year) of top soil and the ultimate depth of mining is 35m below ground level.
4. Earlier, this proposal was placed in 231st meeting of SEAC held on 03.09.2021.

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

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SEAC that earlier EC obtained by the proponent is valid till November 2021. Hence SEAC decided the project proponent shall submit clarification letter from AD, mines on last quarry operated date.

5. On the receipt of the reply furnished by the PP, this proposal was again placed in 297th SEAC meeting held on 21.07.2022. The PP made a presentation along with above said details. Based on the presentation made by the proponent, SEAC decided to call for the following details from the PP.

i) The PP shall furnish DFO letter stating that the proximity distance of Onnakarai RF, other Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.

6. Subsequently, the proposal was again placed in 542nd SEIAA meeting held on 23.08.2022. The authority noted that the subject was appraised in 297th SEAC meeting held on 21.07.2022. In addition to these, SEIAA decided to obtain the following additional particulars from the project proponent.

a) Impact of mining on the water bodies and agricultural fields situated in the vicinity of the proposed lease area may be studied through an accredited Research Institute.

b) Impact of mining/blasting on the arterial roads, roadways/pathways situated in the vicinity of the proposed lease area may be studied through an accredited Research Institute.

Based on the reply furnished, the proposal was again placed in 338th SEAC meeting held on 14.12.2022.

During the presentation, EIA coordinator informed that PP was absent for the meeting. Hence, the proposal was not taken up for appraisal.

Agenda No: 338-4

(File No: 8575/2021)

Proposed Rough Stone quarry lease area over an extent of 0.64.5Ha at S.F.Nos. 302/2(P) of Mallanampatti Village, Nilakottai Taluk, Dindigul District, Tamil Nadu by Thiru.K.Sivan - For Environmental Clearance. (SIA/TN/MIN/215420/2021, dated: 16.06.2021).

The proposal was placed for appraisal in the 239th meeting of SEAC held on 22.10.2021, 263rd meeting of SEAC held on 09.04.2022 & 298th SEAC held on


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26.7.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

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

| Sl. No. | Details of the Proposal | |
|---------|---|--|
| 1. | Name of the Owner / Firm | K. Sivan, S/o. KuppuGounder, D. No. 1/559, Peddampatti, Pappireddipatti Taluk, Dharmapuri District - 636903 Viluppuram District - 605 502 |
| 2. | Type of quarrying (savudu / Rough stone / Sand / Granite) | Rough Stone quarry |
| 3. | S.F No. of the quarry site with area break-up | S. F. Nos. 302/2(P) |
| 4. | Village in which situated | Mallanampatty Village |
| 5. | Taluk in which situated | Nilakottai Taluk |
| 6. | District in which situated | Dindigul District |
| 7. | Extent of Quarry (in ha.) | 0.64.5Ha |
| 8. | Life of the Quarry | Five years |
| 9. | Lease period of the Quarry | Five years |
| 10. | Type of Mining | Opencast Mechanized Mining |
| 11. | Production (Quantity in m3) | The production for 5 years not to exceed 42936m3 of Rough stone. The Annual peak production as per mining plan is 9768m3 of rough stone (4 th year) with proposed depth – 38m (8m AGL + 30m BGL). |
| 12. | Latitude & Longitude of all corners of the quarry site | 10°10'23.96"N to 10°10'27.14"N 77°48'26.04"E to 77°48'29.97"E |
| 13. | Topo sheet No. | 58 F/16 |
| 14. | Man power requirement per day: | 27 Employees |
| 15. | Precise Area Communication approved by the District Collector Dindigul District with date | Rc.No. 117/2021/Mines, dated 27.05.2021 |
| 16. | Mining plan approved by the Assistant Director of Geology and Mining with date | Rc.No. 117/2021/Mines, dated 07.06.2021 |
| 17. | 500mts letter approved by the Assistant Director of Geology and | Rc.No. 117/2021(Mines), dated 07.06.2021 |

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| | Mining with date | |
|-----|---|---|
| 18. | Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression & Green Belt (in KLD) | 5.0KLD 1.25KLD Water vendor 2.0 KLD&1.75 KLD Existing Bore well |
| 19. | Power requirement: a. Domestic purpose b. Machinery works | TNEB 34336Liters of HSD |
| 20. | Depth of Mining | 38m (8m AGL + 30m BGL) |
| 21. | Depth of Water table | 60m |
| 22. | Whether any habitation within 300m distance | No |
| 23. | Project cost (excluding EMP cost) | 35.79 Lakhs |
| 24. | EMP cost | 69.4Lakhs |
| 25. | CER cost | 7 lakhs |
| 26. | VAO letter dated | Nil |

Based on the presentation and document furnished by the project proponent, SEAC decided to call for the following details from the project proponent

1. The project proponent shall furnish a letter from DFO stating that the details of nearest RF (Kadavakurichi) & its distance located with respect to the project site.

The project proponent has submitted detail vide in its letter dated 14.05.2022 received by SEIAA on 16.05.2022. The proposal was placed in this 298th Meeting of SEAC held on 22.07.2022. The project proponent presented along with the details requested in the 263th meeting of SEAC held on 09.04.2022. However, based on the presentation and the Approved Mining Plan furnished by the project proponent, SEAC had observed the following:

1. The layout of the working faces revealed in the section along X-Y and A-B of both the Plate –IV of Yearwise Development / Production Plan & Sections and the Plate – VI of the Conceptual Plan & Sections that the height of the proposed working bench is given as 6 m and breadth of the bench is given as 5 m.

The SEAC direct the NABET Coordinator to examine the Mining Plan precisely and the Plan shall be modified and the calculations should be reassessed afresh and the


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same should be approved by the competent authority which shall be then furnished to the SEAC for further course of actions.

It is also informed that the SEAC also insist the NABET Coordinator to check the Plan proposal in accordance with the law before submitting it to the SEAC before appraisal.

This proposal again been placed in 338th SEAC meeting held on 14.12.2022. The SEAC noted that the following

1. The Proposal No. 8531 (online No. 209790) and this proposal 8620 are located in the same area.
2. The Solar panel structure is situated in adjacent to the boundary of the existing quarry lease in Northern side of the proposal.
3. More habitations are located at a distance range of 200 m to 300 m from the southern side of the proposed quarry lease.
4. No benches were formed during the earlier operative period posing unsafe situation.
5. No fencing was installed by the PP during the previous EC period.
6. No green belt is existing around the quarry boundary for ensuring healthy environment considering the existence of habitations nearby.
7. In the Madurai Bench of Madras High Court verdict on W.P (MD) No. 2495, 2072, 2073 & 6623 of 2021 Dt. 8.10.2021 has stated that "The BDO also reported that the villagers have been fighting to stop the quarry site for past 20 years. It indicates that the Local people have already raised their objections for the ongoing and proposed quarrying operations.

In view of the above reasons, the SEAC decided that not to recommend the proposal for the grant of Environmental Clearance.

Agenda No: 338-05

(File No: 8620/2021)

Proposed Rough Stone Quarry lease over an Extent of 1.00.0Ha (Government land) in S.F.Nos. 173/1 (Part - 1) at Pattakurubarapalli Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru.K.Srinivasa – For Environmental Clearance. (SIA/TN/MIN/217548/2021, dated 30.06.2021)

The proposal was placed in this 338th meeting of SEAC held on 14.12.2022. The project proponent was absent for the meeting. SEAC decided to defer the subject to a


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later date directing the project proponent to furnish the reason for not attending the meeting.

Agenda No: 338 - 06

(File No: 8621/2021)

Proposed Rough Stone quarry lease over an extent of 1.16.0Ha at S.F.Nos. 173/1 (Part-2) at Pattakurubarapalli Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru.K.Srinivasa - For Environmental Clearance.(SIA/TN/MIN/217612/2021, dated: 01.07.2021)

The proposal was placed in this 338th meeting of SEAC held on 14.12.2022. The project proponent was absent for the meeting. SEAC decided to defer the subject to a later date directing the project proponent to furnish the reason for not attending the meeting.

Agenda No: 338-07

(File No: 8652/2021)

Proposed gravel laterite& Pebble Quarry lease over an Extent of 2.25.0Ha in S.F.Nos. 261/4(p), 262/3B & 262/4 C N palayam Village, Cuddalore Taluk, Cuddalore District, Tamil Nadu by Tmt P Indhumathi – For Environmental Clearance. (SIA/TN/MIN/221237)

The proposal was placed in this 338th meeting of SEAC held on 14.12.2022. 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 P Indhumathi has applied seeking Environmental Clearance for the Proposed gravel laterite& Pebble Quarry lease over an Extent of 2.25.0Ha in S.F.Nos. 261/4(p), 262/3B & 262/4 C N palayam Village, Cuddalore Taluk, Cuddalore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation and document furnished by the project proponent, SEAC decided to ask for the following additional details from the Project Proponent.

- (i) The project proponent shall enumerate the Trees, Age of trees & its yield details.


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- (ii) Irrigation potential of surrounding areas.
- (iii) Details of ground water table in the vicinity of the project site.
- (iv) DFO letter stating the proximity distance of nearest RF, WLS located within 25 Km radius from the project site.

Agenda No: 338-08

(File No: 8671/2022)

Proposed Rough Stone & Gravel quarry Lease over an extent of 3.26.0 Ha at S.F.No. 123/10, 123/11, 123/12, 123/14A, 123/14B, 123/15, 123/16, 123/17, 131/1, 131/2, 131/3, 131/4, 131/5A, 131/5B, 131/6, 131/7, 131/8, 131/9, 131/10A, 131/10B, 131/10C & 132/4B in Menallur Village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu by M/s. Sri Ganesh Blue Metals - II – For Environmental Clearance(SIA/TN/MIN/403228/2022 dated 15.10.2022)

The proposal was placed in 338th meeting of SEAC held on 14.12.2022. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. Sri Ganesh Blue Metals - II has applied for Environmental Clearance for the proposed rough stone & gravel quarry lease over an extent of 3.26.0 Ha at S.F.No. 123/10, 123/11, 123/12, 123/14A, 123/14B, 123/15, 123/16, 123/17, 131/1, 131/2, 131/3, 131/4, 131/5A, 131/5B, 131/6, 131/7, 131/8, 131/9, 131/10A, 131/10B, 131/10C & 132/4B in Menallur Village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the proposal are as follows:

| Sl. No | Details of the Proposal | |
|--------|---|--|
| 1 | Name of the Owner/Firm | M/s. Sri Ganesh Blue Metals-II S.F.No.127/2B & 129 Menallur Village, Vembakkam Taluk, Tiruvannamalai-631702 |
| 2 | Type of quarrying (Savudu/Rough Stone/Sand/Granite) | Rough stone & Gravel |
| 3 | S.F No. Of the quarry site with area break-up | 123/10, 123/11, 123/12, 123/14A, 123/14B, 123/15, 123/16, 123/17, 131/1, |

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| | | 131/2, 131/3, 131/4, 131/5A, 131/5B, 131/6, 131/7, 131/8, 131/9, 131/10A, 131/10B, 131/10C & 132/4B |
| 4 | Village in which situated | Menallur |
| 5 | Taluk in which situated | Vembakkam |
| 6 | District in which situated | Tiruvannamalai |
| 7 | Extent of quarry (in ha.) | 3.26.0Ha |
| 8 | Latitude & Longitude of all corners of the quarry site | 12°44'17.75" N to 12°44'24.44" N 79°42'17.81"E to 79°42'26.01"E |
| 9 | Topo Sheet No. | 57 P/10 |
| 10 | Type of mining | Opencast Mechanized Mining |
| 11 | Period of quarrying proposed | 10 years |
| 12 | Production (Quantity in m ³) | 6,20,600m ³ of Roughstone & 53,432m ³ of gravel |
| 13 | Ultimate Depth of quarrying | 42m below ground level |
| 14 | Depth of water table | 60-65m |
| 15 | Man Power requirement per day: | 42 Nos. |
| 16 | Source of Water Requirement | water vendors & Existing bore well |
| 17 | Water requirement: 1. Drinking & domestic purposes 2. Dust suppression 3. Green Belt & Wet Drilling | 4.0 kLD 1.0 kLD 2.0 kLD 1.0 kLD |
| 18 | Power requirement | 5,05,390 Liters of HSD |
| 19 | Precise area communication approved by the Deputy Director with date | Rc.No.628/Kanimam/2021 dated: 12.07.2021 |
| 20 | Mining Plan approved by the Deputy Director of Geology and Mining with date | Rc.No.628/Kanimam/2021 dated: 23.07.2021 |
| 21 | 500m cluster letter issued by Deputy Director, Dept.of G&M with date | Rc.No.628/Kanimam/2021 dated: 23.07.2021 |
| 22 | VAO certificate regarding habitations within 300m radius | Letter dated: 22.03.2021 |
| 23 | Project Cost (excluding EMP) | Rs.67.23 Lakhs |
| 24 | EMP cost | Capital cost: Rs.64,95,815/- Recurring cost: Rs.20,81,380/- |
| 25 | Tor Issued details | Tor Issued letter No. SEIAA-TN/F. No. |

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| | | 8671/SEAC/ToR-1043/2022 Dated: 31.01.2022. |
| 26 | Public Hearing Details | Public hearing conducted on: 24.06.2022 |
| 27 | EIA Report Received | EIA received on : <u>26.08.2022</u> |

4. As per the mining plan, the lease period is for 10 years. The mining plan is for the period of 10 years. The total production for 10 years not to exceed 6,20,600m³ of Rough stone & 53,432m³ of gravel with an ultimate depth of 42m below ground level.

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, **SEAC considering the safety aspects** decided to recommend the proposal for the grant of Environmental Clearance for the **restricted quantity** of 6,19,600m³ of Rough stone & 53,432m³ of gravel after leaving the 9th bench in XY-EF section, for an ultimate depth of 42m below ground level, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the

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commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.

5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall schedule the timing for the movement of trucks taking into consideration of school, etc.
7. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
8. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
9. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
10. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
11. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry.
12. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
13. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.

14. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
15. Since the proposed quarry is situated in a cluster environment, the PP shall carry out the scientific studies within one year from the commencement of mining operations, on 'Design of Suitable blast parameters for reducing the cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarries in the cluster by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
16. The PP shall furnish a 'Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation in the cluster situation' by involving all the other operating quarries to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
17. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
18. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
19. As accepted by the Project proponent the CER cost is **Rs. 8 lakhs** and the amount shall be spent towards Schools for the activities as committed, before obtaining CTO from TNPCB.

Agenda No: 338-09


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(File No: 8686/2021)

proposed Rough stone & Gravel Quarry lease over an extent of 2.50.0Ha in S.F.Nos. 180/4, 180/5, 180/8, 180/9, 180/10 & 180/11 of Periyavenmani Village, Maduranthagam Taluk, Kanchipuram District, Tamil Nadu by Thiru.S.Raju - for Environmental Clearance.(SIA/TN/MIN/401729/2022, dated 29.09.2022)


The proposal was placed in 338th Meeting of SEAC held on 14.12.2022. The details of the minutes are available in the website (www.parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.S.Raju has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of 2.50.0 Ha at S.F.Nos.180/4, 180/5, 180/8, 180/9, 180/10 & 180/11 of Periyavenmani Village, Maduranthagam Taluk, Kanchipuram 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 mining plan, the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 3,19,840 m³ of Rough Stone and 7,338 m³ of Gravel with an ultimate depth of mining 37m (2m Gravel + 35m Rough stone) Below Ground level. The annual peak production 72243 m³ of Rough Stone (3rd year) and 3484 m³ of Gravel (1st year).
4. ToR was issued - Lr. No. SEIAA-TN/F.No.8686/SEAC/ToR-1045/2022 Dated: 27.01.2022.
5. Public hearing was conducted on Dated:14.06.2022.

Now the proposal was placed in this 338th Meeting of SEAC held on 14.12.2022.

| Sl. No | Details of the Proposal | |
|--------|-------------------------|---|
| 1 | Name of the Owner/Firm | Thiru. S.Raju S/o.Sivaji No.17/7, Tholkappiyam Street Chitlapakkam Kanchipuram Kanchipuram District-600064 |
| 2 | Type of quarrying | Rough stone & Gravel |


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|----|--|---|
| 3 | S.F No. Of the quarry site with area break-up | 180/4, 180/5, 180/8, 180/9, 180/10 & 180/11 |
| 4 | Village in which situated | Periyavenmani Village |
| 5 | Taluk in which situated | Maduranthagam Taluk |
| 6 | District in which situated | Kanchipuram District |
| 7 | Extent of quarry (in ha.) | 2.50.0Ha |
| 8 | Period of quarrying proposed | 5 years |
| 9 | Type of mining | Opencast mechanized Mining |
| 10 | Production (Quantity in m ³) | As per mining plan, the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 3,19,840 m ³ of Rough Stone and 7,338 m ³ of Gravel with an ultimate depth of mining 37m (2m Gravel + 35m Rough stone) Below Ground level. The annual peak production 72243 m ³ of Rough Stone (3 rd year) and 3484 m ³ of Gravel (1 st year). |
| 11 | Latitude & Longitude of all corners of the quarry site | 12°24'03.58" N to 12°24'09.72" N 79°58'15.82"E to 79°58'23.00"E |
| 12 | Top Sheet No. | 57 P/15 |
| 13 | Man Power requirement per day: | 26 Employees |
| 14 | Precise area communication approved by the District Collector, with date | Na.Ka.No.269/Q2/2017 dated: 18.11.2019 |
| 15 | Mining Plan approved by the Assistant Director(i/c), Department of Geology and Mining, Chengalpattu with date | Rc.No.269/Q2/2017 dated: 29.06.2021 |
| 16 | AD mines 500m cluster letter by the Assistant Director, Department of Geology and Mining, Chengalpattu with date | Rc. No.269/Q2/2017 dated: 09.07.2021 |
| 17 | Water requirement: 5. Drinking & domestic purposes (in KLD) 6. Dust suppression 7. Green Belt (in KLD) | 2.964 KLD 0.864KLD 0.90KLD 1.20 KLD |



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| 18 | Power requirement a. Domestic Purpose b. Industrial purpose | TNEB 257095 Liters of HSD |
| 19 | Depth of quarrying | 37m |
| 20 | Depth of water table | 47-50m |
| 21 | Whether any habitation within 300m distance | No |
| 22 | Project Cost | Rs. 68.78 Lakhs |
| 23 | EMP cost | Rs.159 Lakhs |
| 24 | CER cost | Rs.5 Lakhs |
| 25 | VAO certificate regarding 300m radius cluster | |

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 3,19,840m³ of Rough Stone and 7,338m³ of gravel not exceeding the annual peak production of 72243m³ of Rough Stone and 3484m³ of gravel with maintaining an ultimate pit depth of 37m bglsubject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

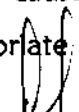
1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.


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4. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
7. The PP shall schedule the timing for the movement of trucks taking into consideration of nearby village, etc.
8. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
9. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
10. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
11. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry.
12. Since the proposed quarry is situated in a cluster environment, the PP shall carry out the scientific studies within one year from the commencement of mining operations, on 'Design of Suitable blast parameters for reducing the cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarries in the cluster by adopting appropriate controlled


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blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.

13. The PP shall furnish a 'Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation in the cluster situation' by involving all the other operating quarries to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
14. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
17. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
18. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
19. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent towards the Panchayat Union Middle School, Periyavenmani

Village, Maduranthagam for the activities as committed, before obtaining CTO from TNPCB.

Agenda No: 338-10

(File No: 8698/2021)

Proposed Expansion of API Manufacturing facility at S.F. No:155Pt, Plot No C-29B, SIPCOT Industrial Complex, Cheyyar Phase-II of Mathur Village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu by M/s. Global Pharma Health Care Private Limited- For Environmental Clearance. (SIA/TN/IND2/223559/2021 Dt. 09.02.2022)

The proposal was placed in 338th SEAC meeting held on 14.12.2022. 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, M/s.Global Pharma Health Care Private Limited has applied for Environmental Clearance for the proposed expansion of API Manufacturing facility at S.F.No: 155Pt, Plot No C-29B, SIPCOT Industrial Complex, Cheyyar Phase-II of Mathur Village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 5(f) "synthetic organic chemicals" of the Schedule to the EIA Notification, 2006.
3. As per S.O.2859(E) dated 16.07.2021, "*All proposals for projects or activities in respect of Active Pharmaceutical Ingredients(API), received from 16th July, 2021 to 31st December, 2021, shall be appraised, as Category 'B2' projects, provided that any subsequent amendment or expansion or change in product mix, after the 31st December, 2021, shall be considered as per the provisions in force at that time.*"
4. Earlier the proposal was placed in 254th SEAC meeting held on 17.03.2022. Based on the presentation and document furnished by the project proponent SEAC decided that, the project proponent shall conduct public consultation and shall submit a fresh EIA study report. On receipt of the above documents along with public hearing report and EIA study report, the committee would further deliberate on this project and decide the further course of action.
5. Subsequently, the proposal was placed in the 307th SEAC meeting held on 26.08.2022. The PP had requested time to furnish the Additional Details called

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for in the 254th SEAC meeting held on 17.03.2022.

| S. No | Description | Details | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|----------------------------------|---|--------|--------|---------------------------|---|------------------|--------|--|--------------|--------|--|-------------|--------|--|--------------------|--------|--|----------------------------------|----|--|---------------|--------|--|-----|--------|--|-----|-------|--|---------|----|--|---------------------|-------|--|----------------|------|
| 1 | Name of the Project | Proposed of API Manufacturing capacity of 750 TPA by M/s. M/s. Global Pharma Healthcare Pvt Ltd | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Location | Survey No 155pt Plot No C 29B SIPCOT Industrial Complex, Cheyyar Phase II, Mathur Village Vembakkam Taluk Tiruvannamalai Tamil Nadu | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Type of Project | Schedule 5(f) - Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Total Area | 10117.09 Sq.m (2.50 Ha) <table border="1"> <thead> <tr> <th>Sl.No.</th><th>Blocks</th><th>Ground cover area in Sq.m</th></tr> </thead> <tbody> <tr> <td>1</td><td>Production Block</td><td>606.21</td></tr> <tr> <td></td><td>RM/PM stores</td><td>145.29</td></tr> <tr> <td></td><td>QC/QA/Admin</td><td>170.34</td></tr> <tr> <td></td><td>R & D/ Pilot plant</td><td>143.62</td></tr> <tr> <td></td><td>Solvent Recovery & Storage tanks</td><td>72</td></tr> <tr> <td></td><td>Utility block</td><td>359.73</td></tr> <tr> <td></td><td>ETP</td><td>108.72</td></tr> <tr> <td></td><td>STP</td><td>41.04</td></tr> <tr> <td></td><td>EB Yard</td><td>40</td></tr> <tr> <td></td><td>Two wheeler parking</td><td>20.46</td></tr> <tr> <td></td><td>Security Cabin</td><td>12.5</td></tr> </tbody> </table> | Sl.No. | Blocks | Ground cover area in Sq.m | 1 | Production Block | 606.21 | | RM/PM stores | 145.29 | | QC/QA/Admin | 170.34 | | R & D/ Pilot plant | 143.62 | | Solvent Recovery & Storage tanks | 72 | | Utility block | 359.73 | | ETP | 108.72 | | STP | 41.04 | | EB Yard | 40 | | Two wheeler parking | 20.46 | | Security Cabin | 12.5 |
| Sl.No. | Blocks | Ground cover area in Sq.m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Production Block | 606.21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RM/PM stores | 145.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | QC/QA/Admin | 170.34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | R & D/ Pilot plant | 143.62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Solvent Recovery & Storage tanks | 72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Utility block | 359.73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ETP | 108.72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | STP | 41.04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | EB Yard | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Two wheeler parking | 20.46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Security Cabin | 12.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|----------------------------------|--|-----------------------------|-------------|---|
| | | | Total (A) | 1719.91 | |
| | | 2 | Road (B) | 1253.17 | |
| | | 3 | Green area (C) | 1999.72 | |
| | | Total (A+B+C) (For API Unit)- I | | 4972.80 | |
| | | Area allotted for formulation (Separate unit within allotted plot separated by internal wall)-II | | 5144.29 | |
| | | Total (I+II) | | 10117.09 | |
| 5 | Cost of Project (INR) | Rs. 9.0 Crores | | | |
| 6 | Brief description of the project | Proposed of API Manufacturing capacity of 750 TPA | | | |
| | | Sl.No | Products | Total (TPA) | Drug Usage |
| | | | Ofloxacin | 250 | To treat bacterial infections of the skin, lungs, prostate, or urinary tract (bladder and kidneys) and pelvic inflammatory disease and chlamydia and /or gonorrhoea |
| | | | Ciprofloxacin Hydrochloride | 200 | To treat prevent certain infections caused by bacteria such as pneumonia; gonorrhoea (a sexually transmitted disease) and typhoid fever |
| | | | Moxifloxacin | 100 | To treat pneumonia and skin and abdominal (stomach area) infections |
| | | | Norfloxacin | 200 | Quinolone antibiotics |
| | | Total | | 750 | |

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Mass balance

| Name of the product | Input Qty In Kg/ Batch | Recycle Qty In Kg/ Batch | Liquid Effluent Qty In Kg/ Batch | Solid Waste Qty In Kg/ Batch | Emission Qty In Kg/ Batch | Output Qty In Kg/ Batch | Purification Loss of Recycled Qty In Kg/ Batch | |
|-----------------------------|------------------------|--------------------------|----------------------------------|------------------------------|---------------------------|---|--|----------------|
| | | | | | | | Residue | Spent solvents |
| Ofloxacin | 4016 | 1109 | 1189 | 3 | 47 | Q.Acid = 658 Ofloxacin=846 Total=1504 | 16.84 | 147.16 |
| Ciprofloxacin Hydrochloride | 5700 | 2928 | 1480 | 2 | - | 878 | 42.31 | 369.69 |
| Moxifloxacin | 4613 | 1800 | 2000 | 2 | 25 | 500 | 29.37 | 256.63 |
| Norfloxacin | 4267.5 | 2838 | 562 | 15 | 57 | 495 | 30.86 | 269.64 |
| Total | 18596.5 | 8675 | 5231 | 22 | 129 | <u>3377</u> | 119.38 | 1043.12 |

Water requirement

| Water Requirement | Fresh (KLD) | Recycle (KLD) | Total (KLD) |
|---|---|---------------|-------------|
| Boiler | 0 | 14.5 | 14.5 |
| Purified Water DM Water Generation for: Process and Equipment Cleaning Qc & R&D Pilot Plant Use | 15.0* (in which 5 KLD is Reject, 5.0 KLD for process, 2.0 KLD for QC and 3.0 KLD for Pilot | 0 | 15.0 |
| Pilot Plant Use | 2 | 0 | 2 |

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| | Cooling Water | 0 | 3 | 3 | | | | | | | | | | | | | | | | | | | |
|--|---|---|----------------------|------------------------------------|--------|-------------|----------|----------------------|--------------------|---|---------------|----|----------|------------------------------------|---|-----------------|----|----------------------------|--|--|--|--|--|
| | Scrubber | 2 | 0 | 2 | | | | | | | | | | | | | | | | | | | |
| | Domestic | 6 | 0 | 6 | | | | | | | | | | | | | | | | | | | |
| | Green Belt | 1.4 | 5.4 | 6.8 | | | | | | | | | | | | | | | | | | | |
| | Total | 26.4 | 22.9 | 49.3 | | | | | | | | | | | | | | | | | | | |
| | b) Source of water | SIPCOT | | | | | | | | | | | | | | | | | | | | | |
| 9 | Sewage generation, treatment and disposal | STP Capacity-10 kLD ETP Capacity-20 kLD | | | | | | | | | | | | | | | | | | | | | |
| 11 | Quantity of Solid Waste generated per day (in Kgs), Mode of treatment and Disposal of Solid Waste | <table><tr><th>Sl. No</th><th>Description</th><th>Quantity</th><th>Method of Collection</th><th>Method of Disposal</th></tr><tr><td>1</td><td>Organic Waste</td><td>54</td><td rowspan="2">In Drums</td><td>Local panchayat bin through SIPCOT</td></tr><tr><td>2</td><td>Inorganic Waste</td><td>36</td><td>Authorized TNPCB Recyclers</td></tr><tr><td colspan="5">For Construction Phase Quantity – 5.0 kg/day (disposed through bins)</td></tr></table> | | | Sl. No | Description | Quantity | Method of Collection | Method of Disposal | 1 | Organic Waste | 54 | In Drums | Local panchayat bin through SIPCOT | 2 | Inorganic Waste | 36 | Authorized TNPCB Recyclers | For Construction Phase Quantity – 5.0 kg/day (disposed through bins) | | | | |
| Sl. No | Description | Quantity | Method of Collection | Method of Disposal | | | | | | | | | | | | | | | | | | | |
| 1 | Organic Waste | 54 | In Drums | Local panchayat bin through SIPCOT | | | | | | | | | | | | | | | | | | | |
| 2 | Inorganic Waste | 36 | | Authorized TNPCB Recyclers | | | | | | | | | | | | | | | | | | | |
| For Construction Phase Quantity – 5.0 kg/day (disposed through bins) | | | | | | | | | | | | | | | | | | | | | | | |


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| 12 | Hazardous waste Management: | | | |
| | Heading as per HWM rules | Sub heading | Quantity (Ann) | Mode of Disposal |
| | 5. Industrial operation using minerals/synthetic oil as lubricants | 5.1 used oil/spent oil | 100 liters | Collection and storage disposal to TNPCB Authorized Recyclers |
| | 5. Industrial operations using Minerals/synthetic oil as lubricant | 5.2wastages/ residue containing oil | 10 liters | Collection and storage disposal for co-processing |
| | 20. production/industrial use of solvents | 20.3 distillation residues | 32.0 MT | |
| | 28. production/ formulation of drugs/ pharmaceuticals and health care products | 28.2 Spent catalyst | None | Collection , storage , Transport |
| | | 28.3 spent carbon | 0.76 MT | Disposal to authorized recycler |
| | | Spent Organic waste | 3.256 MT | Collection , storage , Transport Disposal through TWML, Gummidipoondi |
| | 28.Production/ formulation of drugs/pharmaceuticals and health care products | 28.5 date expired | 0.10 MT | Collection , storage , Transport Disposal to authorized recycler |
| | | 28.4 off specification drug | - | |
| | | 28.6 Spent solvents | 279.53 MT | |
| | 35. purification and | 35.3 chemical sludge | 0.600 MT | Collection , storage , |

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| | treatment of exhaust air, water, waste water from the processes in this schedule and common industrial effluent treatment | from waste water 35.3 MEE salts | 3.0 MT | Transport Disposal to authorized recycler/ Collection , storage , Transport Disposal through TWML, Gummidipoondi |
| | 33. Diposal of barrels, containers used for handling of hazardous wastage chemicals Empty Container | 33.1 Discarded containers/ barrels liners contaminated with hazardous | Barrels 1000 nos 500 kg | TNPCB Authorized Recyclers |
| | Empty bags | wastes/ chemicals | 3200 Nos | Empty bags will be taken back by suppliers |
| 13 | Power requirement | 300 kVA (TANGEDCO) Boiler – 1 X 3.0 Ton/Hr, Source – Bio Briquette Bio Briquette – 2.2 TPD, Source – Local Supply | | |
| 14 | Details of D.G. set with Capacity | 1 X 350 kVA, Source – Fuel - HSD | | |
| 15 | Fuel requirement | Fuel Type | Source | Requirement |
| | | HSD | Local | 80 Ltrs/Hr |


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|--|--|---|----------------|----------------|------------|--------|------|---------------|--|---------------|------------|------------------------|-----|---|----|------------------------|---------------|---|----|----------------------------|---|---|----|
| 16 | Air Pollution Control Measures (Stack) | <table><tr><td rowspan="2">Source</td><td rowspan="2">Fuel</td><td colspan="2">Stack Details</td></tr><tr><td>NO. of stacks</td><td>Height (m)</td></tr><tr><td>DG Set – 350 kVA (API)</td><td>HSD</td><td>1</td><td>19</td></tr><tr><td>3 TPH - Boiler * (API)</td><td>Bio Briquette</td><td>1</td><td>30</td></tr><tr><td>Reactor 1 & 2, 3 & 4-API**</td><td>-</td><td>4</td><td>19</td></tr></table> | | | | Source | Fuel | Stack Details | | NO. of stacks | Height (m) | DG Set – 350 kVA (API) | HSD | 1 | 19 | 3 TPH - Boiler * (API) | Bio Briquette | 1 | 30 | Reactor 1 & 2, 3 & 4-API** | - | 4 | 19 |
| | | Source | Fuel | Stack Details | | | | | | | | | | | | | | | | | | | |
| | | | | NO. of stacks | Height (m) | | | | | | | | | | | | | | | | | | |
| | | DG Set – 350 kVA (API) | HSD | 1 | 19 | | | | | | | | | | | | | | | | | | |
| | | 3 TPH - Boiler * (API) | Bio Briquette | 1 | 30 | | | | | | | | | | | | | | | | | | |
| Reactor 1 & 2, 3 & 4-API** | - | 4 | 19 | | | | | | | | | | | | | | | | | | | | |
| Note: | | | | | | | | | | | | | | | | | | | | | | | |
| *3000 kg/Hr boiler (cyclone dust collector) will be provided with a stack of 30m AGL. | | | | | | | | | | | | | | | | | | | | | | | |
| **All the reactors will be connected to a double stage scrubber with stack height of 19m height. | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | Details of man power | Stage | Permanent (No) | Temporary (No) | Total (No) | | | | | | | | | | | | | | | | | | |
| | | Construction | 5 | 30 | 35 | | | | | | | | | | | | | | | | | | |
| | | Operation | | | | | | | | | | | | | | | | | | | | | |
| | | EC Process | 30 | 70 | 100 | | | | | | | | | | | | | | | | | | |
| 18 | Details of Green Belt Area | 1999.72Sq.m | | | | | | | | | | | | | | | | | | | | | |
| 19 | Details of Parking Area | 20.46 Sq.m. | | | | | | | | | | | | | | | | | | | | | |
| 20 | Provision for rain water harvesting | Rain water harvesting pits– 5 Nos. | | | | | | | | | | | | | | | | | | | | | |
| 21 | EMP Cost | Capital Cost - Rs. 1.42 Crores | | | | | | | | | | | | | | | | | | | | | |

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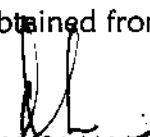
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| | (INR) | Recurring Cost - Rs. 0.16 Crores | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--------------------|--------------------|--------------------|--------------------|--------------------|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|-----------|--|---|---|---|-------------|--|----|--|--|
| 22 | CER activity | As per CER Notification, the 2.0% of project Cost (INR 9.00Crore) i.e. INR 18.00 lakhs need to spend for CER activities. As per the Latest OM F.No. 22-65/2017-IA.III dated: 30.09.2020, it will be spent as per EAC recommendation and our proposal as follows: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th>S. No</th><th>Activities</th><th>2021 (In lakhs)</th><th>2022 (In lakhs)</th><th>2023 (In lakhs)</th></tr><tr><td>1</td><td>Medical camp setup to Nearby Habitation</td><td>6</td><td>-</td><td>-</td></tr><tr><td>2</td><td>De-silting and bend formation of Lake near Mangal</td><td>-</td><td>4</td><td>-</td></tr><tr><td>3</td><td>Sanitation and Drinking water facility to Government Higher Secondary School, Sodiymbakkam</td><td>2</td><td>2</td><td>-</td></tr><tr><td>4</td><td>Sanitation and Drinking water facility to Government School, Mamandur</td><td>-</td><td>2</td><td>2</td></tr><tr><td colspan="2">Sub Total</td><td>8</td><td>8</td><td>2</td></tr><tr><td colspan="2">Grand Total</td><td colspan="3">18</td></tr></table> | | | S. No | Activities | 2021 (In lakhs) | 2022 (In lakhs) | 2023 (In lakhs) | 1 | Medical camp setup to Nearby Habitation | 6 | - | - | 2 | De-silting and bend formation of Lake near Mangal | - | 4 | - | 3 | Sanitation and Drinking water facility to Government Higher Secondary School, Sodiymbakkam | 2 | 2 | - | 4 | Sanitation and Drinking water facility to Government School, Mamandur | - | 2 | 2 | Sub Total | | 8 | 8 | 2 | Grand Total | | 18 | | |
| S. No | Activities | 2021 (In lakhs) | 2022 (In lakhs) | 2023 (In lakhs) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Medical camp setup to Nearby Habitation | 6 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | De-silting and bend formation of Lake near Mangal | - | 4 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Sanitation and Drinking water facility to Government Higher Secondary School, Sodiymbakkam | 2 | 2 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Sanitation and Drinking water facility to Government School, Mamandur | - | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub Total | | 8 | 8 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grand Total | | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Under the above circumstance the proposal was again placed in 338th SEAC Meeting held on 14.12.2022. Based on the presentation, document furnished and clarification given by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the above notings, subject to the following specific conditions in addition to normal conditions stipulated by MOEF&CC

1. The project proponent shall provide the Green belt area not less than 40% of the land area all along the periphery of the unit and maximum green belt shall be maintained in the down wind direction as reported. Selection of plant species shall (As per Appendix).
2. The project proponent shall operate and maintain the Sewage treatment Plant and Effluent treatment plant effectively to meet out the standards prescribed by the CPCB.
3. Necessary permission letter for the supply of water shall be obtained from the competent authority before obtaining CTO from TNPCB.


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4. The effluent generated from the process should be treated through the ETP to achieve the treated effluent standards prescribed by the CPCB/TNPCB.
5. The proponent shall ensure the zero-liquid discharge.
6. The proponent shall continuously operate and maintain adequate Air-pollution control measures for the process area.
7. The proponent should continuously monitor the VOC and ensure that VOC levels are within permissible limits.
8. The proponent shall obtain and maintain valid safety licenses for the concerned department for boiler, solvent/fuel/raw material storage areas etc.
9. The proponent shall ensure that the area earmarked for the boiler, further the proponent may submit the safety measures on the same to TNPCB before obtaining CTO.
10. The proponent shall strictly follow the norms and guidelines mentioned in the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 for the handling and disposal of Hazardous waste to be generated.
11. The proponent shall periodically conduct and submit fire safety study, emergency evacuation plan, risk assessment study, occupational health safety study for the worst case scenario in regard to existing safety measures/standard operating procedures adopted for the process/equipment/utilities for operation & maintenance and the storage areas of products, raw materials, solvent, fuel, etc. in the different operating zones of the plant at least once in a year to regularly identify safety fragile areas within the plant which requires regular monitoring and the proponent shall submit the same along with timeline for implementation of the said recommendations to the concerned departments.
12. A detail report on the safety measure and health aspects including periodical audiometry, pulmonary lung function etc. test reports once in a year for all the workers shall be submitted to TNPCB.
13. As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the

outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.

14. 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.
15. The CER cost is Rs. 18 lakhs and the amount shall be spent for activities of

| S. No | Activities | 2021 (In lakhs) | 2022 (In lakhs) | 2023 (In lakhs) |
|--------------------|--|--------------------|--------------------|--------------------|
| 1 | Medical camp setup to Nearby Habitation | 6 | - | - |
| 2 | De-silting and bend formation of Lake near Mangal | - | 4 | - |
| 3 | Sanitation and Drinking water facility to Government Higher Secondary School, Sodiymbakkam | 2 | 2 | - |
| 4 | Sanitation and Drinking water facility to Government School, Mamandur | - | 2 | 2 |
| Sub Total | | 8 | 8 | 2 |
| Grand Total | | 18 | | |

before obtaining CTO from TNPCB.

Agenda No: 338-11

(File No: 8728/2021)

proposed Earth (Savudu) Quarry lease over an extent of 1.82.5Ha in S.F.Nos. 133/4C2 (P), 133/11, 133/13, 134/1A1, 134/1A2, 134/2A & 134/2C of Velangipattu Village, Bhuvanagiri Taluk, Cuddalore District, Tamil Nadu by Thiru.R.Rajendiran- for Environmental Clearance. (SIA/TN/MIN/223888/2021,Dated 09.08.2021)

The proposal was placed in this 338th Meeting of SEAC held on 14.12.2022.

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

The SEAC noted the following:

1. The Project Proponent, Thiru.R.Rajendiran has applied for Environmental Clearance for the proposed Earth (Savudu) quarry lease over an extent of 1.82.5 Ha at S.F.Nos.133/4C2 (P), 133/11, 133/13, 134/1A1, 134/1A2, 134/2A & 134/2C of Velangipattu Village, Bhuvanagiri Taluk, Cuddalore District,Tamil Nadu.


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2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the Notification issued by the Industries Department dated. 14.12.2022 which states that

In exercise of the powers conferred by sub-sections (1) and (1A) of section 15 of the Mines and Minerals (Development and Regulation) Act, 1957 (Central Act 67 of 1957), the Governor of Tamil Nadu hereby makes the following amendments to the Tamil Nadu Minor Mineral Concession Rules, 1959, namely: -

In the said Rules, -

- (1) In rule, 7, in sub-rule (5), for the expression "Earth commonly called as savadu", the expression "ordinary earth which is used for filling or levelling purpose in construction work, embankments, roads, railways and building" shall be substituted;*
- (2) In rule 12,*
 - (a) The expression "savadu" wherever it occurs shall be omitted;*
 - (b) In sub-rule (2),-*
 - (c) (ii) in the second provision to clause claise (b), for the expression "earth", the expression "ordinary earth" shall be substituted;*
 - (d) In sub-rule (4), for the expression "earth", the expression "ordinary earth" shall be substituted;*
- (4) In rule 36-A, for the expression "earth", wherever it occurs, the expression "ordinary earth" shall be substituted;*
- (5) In rule 36-B, in the proviso to sub-rule (1), for the expression "earth", the expression "ordinary earth" shall be substituted; and*
- (6) In APPEDIX II, under the heading "A. SEIGNIORAGE FEE", in tabular column, in column (2). against Serial Number 4 in column (1), for the expression "Earth", the expression "Ordinary Earth" shall be substituted....."*

Considering the above legal implications, the SEAC Committee, therefore directed the proponent to submit the following additional details for further processing the proposal.


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1. The composition/component of the minerals proposed to be quarried shall be tested in any of the laboratories authorized by the Dept of Geology & Mining as directed in the above Judgment.
2. The proponent should produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the above Judgment.
3. On viewing the google map, the SEAC observed that there is an existing pit. Hence the AD (Geology & Mines) shall visit the site to submit the report on details of any excavation made earlier by the PP.
4. It was found two non-contiguous site present and EC shall be given for only for one contiguous site, hence the PP revise all the documents accordingly.

On receipt of the aforesaid details, the proposal will be considered for further deliberations.

Agenda No: 338 - 12

(File No: 8761/2021)

Proposed rough stone and gravel quarry lease area over an extent of 0.94.5 Ha at S.F. Nos. 95/22, 94/23 & 95/24 Chithannavasal Village, Illuppur Taluk, Pudukkottai District, Tamil Nadu by Thiru. R. Sathiyamoorthy-For Environmental Clearance amendment

(SIA/TN/MIN/226014/2021 Dt: 25.08.2021)

The proposal was placed in this 338th SEAC Meeting held on 14.12.2022. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. R. Sathiyamoorthy has applied for the Environmental Clearance for proposed rough stone and gravel quarry lease area over an extent of 0.94.5 Ha at S.F. Nos. 95/22, 94/23 & 95/24 Chithannavasal Village, Illuppur Taluk, Pudukkottai 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 5 years. The production for 5


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years not to exceed 30335m³ of rough stone. The annual peak production as per mining plan is 6445m³ of rough stone (2nd year) with ultimate depth of 22m BGL

4. Earlier the proposal was placed in the 271st SEAC Meeting held on 12.5.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following details from the project proponent. The project proponent shall furnish a NOC from Archaeological Survey of India, since the Chithannavasal Archaeological site is located in the vicinity of the proposed site.
5. Based on the reply furnished by the PP, the proposal was placed in the 307th SEAC meeting held on 26.08.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance.
6. Subsequently, the proposal was placed in 552nd Authority meeting held on 19.09.2022. The proponent was requested to furnish NOC from Archeological Survey of India. But the proponent had obtained Site report from the Assistant Director, Department of Geology and Mining, Pudukottai.

The Authority after detailed discussion, decided that

1. As per the amendment to the Tamil Nadu Minor Mineral Concession Rules, 1959 [G.O. MS. No. 295, industries (mmc.1), 3rd November 2021, In the said Rules, -(4) in rule 36, in sub-rule (1-A),-

(d) *"Notwithstanding anything contained in any law for the time being in force, no lease or licence shall be granted for quarrying of any mineral within 500 metres radial distance from the boundaries of an archaeological site or remains and ancient Monument;"*

The proponent had submitted the village map indicating the distance from the centre of the proposed mine lease area and the archaeological site. Hence, the proponent is requested to submit the radial distance from the boundary of the archaeological site to the nearest mine lease boundary.


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2. Further, the assistant director has recommended the report based on the observations of the VAO. Hence, AD/Mines is directed to inspect the site and measure the shortest distance between the Archeological site and the nearest mine lease boundary and shall issue a letter regarding the same.
3. The proponent must submit the NOC letter obtained from the Archeological Survey of India as per the additional details sought in the 271st SEAC meeting held on 12.05.2022.

In the view of the above, SEAC may examine with the above-mentioned points and furnish the remarks to SEIAA.

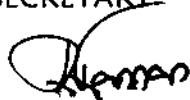
Based on the reply furnished by the proponent, the proposal was again placed in the 322nd SEAC meeting held on 19.10.2022. Based on the presentation made by the proponent, SEAC decided to call for additional details

1. The proponent shall clarify regarding the boundary of the Chithannavasal cave from the competent authority. Further, the proponent is requested to obtain the distance from the boundary of the Archeological site to the nearest proposed mine lease area boundary from the competent authority.
2. The proponent shall submit the detailed study report regarding the impact on the archeological site due to blasting.
3. Further, the assistant director has recommended the report based on the observations of the VAO. Hence, AD/Mines is directed to inspect the site and measure the shortest distance between the Archeological site and the nearest mine lease boundary and shall issue a letter regarding the same.
4. The proponent shall submit a report regarding the impacts of quarrying on the paintings inside the Archeological site considering the dust pollution, vibrations, noise etc., and further shall discuss the mitigation measures to be adopted to conserve the archeological site.

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

Now, the proposal was again placed in the 338th SEAC meeting held on 14.12.2022. During the presentation the PP requested for want of time for submitting the ADS

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queries asked in the previous SEAC meeting and SEAC therefore decided to defer the proposal.

Agenda No: 338-13

(File No: 8847/2021)

Proposed Rough Stone and Gravel quarry project over an extent of 3.40.5 Ha in S.F.No. 64/3A, 3B, 3D, 65/2A, 65/2B, 65/3A, 65/6, 66/1A1, 66/1A2, 66/1B2, 66/2A2, 66/2B1, 66/2B2, 67/3A1, 65/3B1, 66/3B2, 66/1B1, 66/2A1, 64/6A, 64/7A, 64/6B, 64/7B at Sundakottai Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu by Thiru.M.Thiruvappu - For Environmental Clearance. (SIA/TN/MIN/77342/2021 dated: 29.09.2021)

Earlier, this project proposal was placed in the 303rd SEAC meeting held on 18.08.2022. 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.M.Thiruvappuhas applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of 3.40.5ha at S.F.No64/3A, 3B, 3D, 65/2A, 65/2B, 65/3A, 65/6, 66/1A1, 66/1A2, 66/1B2, 66/2A2, 66/2B1, 66/2B2, 67/3A1, 65/3B1, 66/3B2, 66/1B1, 66/2A1, 64/6A, 64/7A, 64/6B, 64/7B of Sundakottai Village, Aruppukottai Taluk, Virudhunagar 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. As per mining plan, the lease period is for 10 years and the mining plan is for the period of five years the total quantity of recoverable should not exceed 502843m³ of Rough Stone for five years & 48210m³ Gravel for two years with an ultimate depth of mining is 39.5m BGL [as per approved ToR]. The annual peak production 130933 m³ of Rough Stone (2nd year) and 37,038 m³ of Gravel (1st year).
4. ToR issued vide Lr No.SEIAA-TN/F.No.8847/SEAC/TOR-1103/2021 Dated : 21.03.2022.
6. Public hearing was conducted on 03.11.2022.


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5. Certain survey nos of the land possessing the quarry site indicates the existence of 'Nanjai' land classification.

Based on the presentation & details furnished by the PP, the SEAC decided to call for the following details.

1. Project Proponent shall conduct Public Hearing as imposed in the TOR granted for the Project and revise EIA/EMP reports based on public hearing accordingly.
2. The PP shall provide the information on land classification changes.

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

| S.No | ADS by SEAC | Reply by PP |
|------|--|--|
| 1 | Project Proponent shall conduct Public Hearing as imposed in the TOR granted for the Project and revise EIA/EMP reports based on public hearing accordingly. | Now the PP has conducted public hearing on 03.11.2022. |
| 2 | The PP shall provide the information on land classification changes. | The PP has obtained letter from VAO dated 09.12.2022 stating that " in the past 5 fasli year from 1428 to 1432 agricultural activities was not carried out". We discussed that Tahsildar or RDO certificate needed with regard to utilisation of Nanjai land for quarry. It is only VAO observation. It was decided for ADS to get certificates from Tahsildar or RDO only during the meeting. Redraft please |

Now the proposal was placed in this 338th Meeting of SEAC held on 14.12.2022.

| Sl. No | Details of the Proposal | |
|--------|-------------------------|--|
| 1 | Name of the Owner/Firm | Thiru.M.Thiruvappu S/o.Muniyasamy Devarkurichi Village Kadaladi Taluk Ramanathapuram District-623704 |

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| | | |
|----|---|--|
| 2 | Type of quarrying | Rough stone & Gravel |
| 3 | S.F No. Of the quarry site with area break-up | S.F Nos 64/3A, 3B, 3D, 65/2A, 65/2B, 65/3A, 65/6, 66/1A1, 66/1A2, 66/1B2, 66/2A2, 66/2B1, 66/2B2, 67/3A1, 65/3B1, 66/3B2, 66/1B1, 66/2A1, 64/6A, 64/7A, 64/6B, 64/7B |
| 4 | Village in which situated | Sundakottai |
| 5 | Taluk in which situated | Aruppukottai |
| 6 | District in which situated | Virudhunagar |
| 7 | Extent of quarry (in ha.) | 3.40.5Ha |
| 8 | Period of quarrying proposed | 5 years |
| 9 | Type of mining | Opencast Semi mechanized Mining |
| 10 | Production (Quantity in m ³) | As per mining plan, the lease period is for 10 years and the mining plan is for the period of five years the total quantity of recoverable should not exceed 502843m ³ of Rough Stone for five years & 48210m ³ Gravel for two years with an ultimate depth of mining is 39.5m BCL. The annual peak production is 130933m ³ of Rough Stone and 37,038 m ³ of Gravel. |
| 11 | Latitude & Longitude of all corners of the quarry site | 9°28'7.09" N to 9°28'14.50" N 78°11'4.71"E to 78°11'11.81"E |
| 12 | Top Sheet No. | 58 K/3 |
| 13 | Man Power requirement per day: | 20 Employees |
| 14 | Precise area communication approved by the Assistant Director, Department of Geology and Mining with date | Na.Ka.No:KV1/666/2020/Kanimam dated: 08.01.2021 |
| 15 | Mining Plan approved by the Deputy Director, Department of Geology and | Roc. No.KV1/666/2020 dated: 13.01.2021 |

| | | |
|----|---|--|
| | Mining, with date | |
| 16 | AD mines 500m cluster letter by the Assistant Director, Department of Geology and Mining, with date | Roc. No.KV1/666/2020 dated: 24.09.2021 |
| 17 | Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression 3. Green Belt (in KLD) | 5 KLD 1.5 KLD 2.0KLD 1.5 KLD |
| 18 | Power requirement a. Domestic Purpose b. Industrial purpose | TNEB Nil |
| 19 | Ultimate Depth of quarrying | 39.5m BGL |
| 20 | Depth of water table | 50m Below ground level |
| 21 | Whether any habitation within 300m distance | Nil |
| 22 | Project Cost | Rs. 50 Lakhs |
| 23 | EMP cost | Rs.121.4 Lakhs |
| 24 | CER cost | Rs. 5 Lakhs |
| 25 | VAO certificate regarding 300m radius cluster | 12.01.2021 |
| 26 | ToR Issued | Lr No.SEIAA-TN/F.No.8847/SEAC/TOR-1103/2021 Dated : 21.03.2022. |
| 27 | Public Hearing details | Public Hearing Conducted on 03.11.2022 |

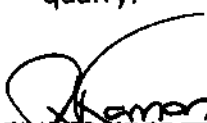
Based on the presentation and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 502843m³ of Rough Stone for 5 years and 48210m³ of Gravel for 2 years not exceeding the annual peak production of 130933m³ of Rough Stone and 37,038m³ of Gravel with maintaining an ultimate pit depth of 39.5m** bglsubject to the standard conditions as per the Annexure I of this minutes &

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

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall carry out adequate plantation around the periphery of the quarry lease in the safety zone of 7.5 m as a part of Greenbelt development before obtaining the CTO from TNPCB.
7. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
8. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.


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9. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
10. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
11. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
12. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry.
13. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
14. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
15. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
16. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving a

reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.

17. Since four bore wells are located at a distance of 25 m, the PP shall carry out the Hydrogeological studies assessing the ground water status by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, University of Madras-Guindy Campus, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, IRO/MoEF, DEE/TNPCB, and the concerned AD (Geology & Mines) as a part of Environmental Compliance.
18. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
19. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent towards the Govt High School, Sundakottai for the activities as committed, before obtaining CTO from TNPCB.

Agenda No: 338-14

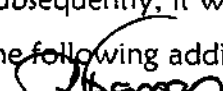
(File No: 8862/2021)

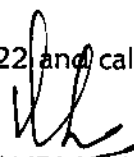
Proposed Red Soil quarry lease over an extent of 1.44.5 Ha at S.F.No: 24/3A of Kudhakkottai Group Village, Keelakarai Taluk, Ramanathapuram District, Tamil Nadu by Thiru. B.Manikandan - For Environmental Clearance. (SIA/TN/MIN/229030/2021 Dt.27.09.2021)

Earlier, this proposal was proposal in 297th SEAC meeting held on 21.7.2022. Based on the presentation and document furnished by the project proponent, SEAC decided to call for the following details from the PP.

1. The project proponent shall furnish registered lease document for the proposal.
2. The project proponent shall revise the EMP as per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020.

Subsequently, it was placed in 542nd SEIAA meeting held on 23.8.2022 and called for the following additional details.


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1. In the KML file submitted, it was ascertained that a small patch's of scatter trees are present within the lease applied area. Hence, it is requested to submit the name of present within the lease applied area with species name and age of the trees .
2. Road is present at the northern side of the lease applied area. The project proponent shall submit the buffer area proposed between the mining lease area and the road. Further, shall ascertain the impact of the mining activity on the road abutting to the mining lease area.
3. Impact of the mining activity on the surrounding area shall be furnished since, Veeranvalasai school, road, habitation is present within 300 m from the lease applied area

Based on the PP's reply, this proposal again been placed in this 338th meeting of SEAC held on 14.12.2022.

The SEAC noted the following:

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

| Sl. No | Details of the Proposal | |
|--------|---|---|
| 1 | Name of the Owner/Firm | : Thiru. B. Manikandan, S/o. C. Boominathan, No.1/881, Shet Ibrahim Nagar, CBM Lorry Service, Bharathi Nagar, Ramanathapuram Taluk, Ramanathapuram District - 623 501. |
| 2 | Type of quarrying (Savudu/Rough Stone/Sand/Granite) | : Red Soil |
| 3 | S.F No. of the quarry site with area break-up | : 24/3A |
| 4 | Village in which situated | : Kudhakkottai Group |

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| | | | |
|----|--|---|--|
| 5 | Taluk in which situated | : | Keelakkarai |
| 6 | District in which situated | : | Ramanathapuram |
| 7 | Extent of quarry (in ha.) | : | 1.44.5 Ha |
| 8 | Period of quarrying proposed | : | 1 year |
| 9 | Type of mining | : | Opencast Semi Mechanized Mining |
| 10 | Production (Quantity in m ³) | : | 10816 m ³ |
| 11 | Latitude & Longitude of all corners of the quarry site | : | 09°18'35.22"N to 09°18'39.58"N 78°51'17.04"E to 78°51'23.72"E |
| 12 | Topo Sheet No. | : | 58-K/15 |
| 13 | Man Power requirement per day: | : | 11 Nos |
| 14 | Precise area communication approved by District Collector with date | : | Na.Ka.En.19/G&M.2/2020, dated:05.08.2021 |
| 15 | Mining Plan approved by Commissioner, Department of Geology and Mining with date | : | Roc.No.19/G&M.2/2020 dated 19.08.2021 |
| 16 | Water requirement: 1. Drinking water & domestic purposes (in KLD) 2. Dust Suppression (in KLD) 3. Green Belt (in KLD) | : | 3.0 KLD 1.0 KLD 1.0 KLD 1.0 KLD |
| 17 | Power requirement a. Domestic Purpose | : | TNEB |
| 18 | Depth of quarrying | : | 1.0m bgl |
| 19 | Depth of water table | : | 14m to 15m bgl |
| 20 | Whether any habitation within 300m distance | : | No |
| 21 | Project Cost (excluding EMP cost) | : | Rs. 16.50 lakhs |
| 22 | EMP cost | : | Rs. 2.25 lakhs |
| 23 | CER cost | : | Rs. 0.33 lakhs |
| 24 | Assistant Director, mines 500m cluster letter | : | Roc.No.19/G&M.2/2020, dated:19.08.2021 |
| 25 | VAO certificate regarding 300m radius cluster | : | Letter dated: 08.10.2021 |

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for 10816 m³ of **Red Soil with ultimate depth of 1m BGL**, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:


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1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The statutory competent persons shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
3. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
4. The PP shall ensure that the haul road are adequately wetted for controlling the dust.
5. The PP shall install a storage tank for collecting the water received from the quarry pit before discharged to the surrounding area.
6. 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.
7. 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.
8. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
9. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
10. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
11. As accepted by the Project proponent the CER cost is Rs. 2.5 lakhs and the amount shall be spent towards the Kudhakkottai Village Government school for the committed activities before obtaining CTO from TNPCB.

Agenda No: 338-15.

(File No: 8898/2021)

Proposed Gravel quarry lease over an extent of 2.46.5 Ha (Patta Land) in S.F.Nos. 485/3, 485/5 & 487/1 of Kondakuppam Village, Walajah Taluk, Ranipet District, Tamil Nadu by Thiru S. Thirumeni- For Environmental Clearance (SIA/TN/MIN/233772/2021 Dated 22.10.2021)

Earlier, this proposal was placed in the 277th meeting of SEAC held on 26.05.2022. The project proponent presented the details of the proposed quarry. The details of the proposed quarry furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted of the following:

1. The Project Proponent, S. Thirumeni, has applied for Environmental Clearance for the proposed Gravel quarry lease over an extent of 2.46.5 Ha (Patta Land) in S.F.Nos. 485/3, 485/5 & 487/1 of Kondakuppam Village, Walajah Taluk, Ranipet District, Tamil Nadu
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The lease period is 2 years and the proposed mining would be for 20,180 cu.m. of Gravel and the total depth proposed is 1 metre below GL.

| Sl. No | Details of the Proposal | |
|--------|---|---|
| 1 | Name of the Owner/Firm | : Thiru. S.Thirumeni, S/o. Singaram, No.3/362, Athithiravida Colony, Kilapatti Rasingamangalam Alangudi Taluk, Pudukkottai District. |
| 2 | Type of quarrying (Savudu/Rough Stone/Sand/Granite) | : Gravel |
| 3 | S.F No. Of the quarry site with area break-up | : 485/3, 485/5 & 487/1 |
| 4 | Village in which situated | : Kondakuppam |

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| | | | |
|----|---|---|--|
| 5 | Taluk in which situated | : | Walajah |
| 6 | District in which situated | : | Ranipet |
| 7 | Extent of quarry (in ha.) | : | 2.46.5 Ha |
| 8 | Latitude & Longitude of all corners of the quarry site | : | 13° 04' 26.01" N to 13° 04' 31.48" N 79° 18' 15.24" E to 79° 18' 22.30" E |
| 9 | Topo Sheet No. | : | 58 O/8 |
| 10 | Type of mining | : | Opencast Semi-Mechanized Mining |
| 11 | Period of quarrying proposed | : | 2 years |
| 12 | Production (Quantity in m ³) | : | 20,180m ³ of Gravel |
| 13 | Depth of quarrying | : | 1 m |
| 14 | Depth of water table | : | 20m BGL |
| 15 | Man Power requirement per day: | : | 10 Nos. |
| 16 | Source of Water Requirement | : | water vendors |
| 17 | Water requirement: 8. Drinking & domestic purposes (in KLD) 9. Dust suppression, Green Belt & Wet Drilling (in KLD) | : | 3.0 KLD 1.0 KLD 1.0 KLD 1.0 KLD |
| 18 | Power requirement | : | TNEB |
| 19 | Whether any habitation within 300m distance | : | No |
| 20 | Precise area communication issued AD/Mines with date | : | Rc.No.136/2020(Mines) dated 03.09.2021 |
| 21 | Mining Plan approved by Assistant Director Geology and Mining Mines with date | : | Rc. No: 136/2020(Mines) dated 21.09.2021 |
| 22 | 500m cluster letter issued by AD/Mines | : | Rc.No. 136/2020(Mines) dated 01.10.2021 |
| 23 | VAO certificate regarding habitation within 300m radius | : | Letter furnished. |
| 24 | Project Cost | : | Rs.21.5 Lakh |
| 25 | EMP cost | : | Capital Cost - Rs 5.10 lakh Recurring Cost – Rs. 12.01 Lakhs/2Years. |
| 26 | CER cost | : | Rs. 2 Lakhs |

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

1. The PP shall furnish the letter from DFO concerned, stating the exact distance of the Venugopalapuram Reserve Forest with respect to the shortest boundary of the project site.
2. Soil testing report analysed through approved institution/agencies of Dept Mining & Geology, Govt of Tamil Nadu.

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

Subsequently, the proposal was placed in the 523th Authority meeting held on 21.06.2022. The authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 26.05.2022.

The proponent has furnished reply vide Ir. Dt: 09.11.2022. In this connection, the proposal was again placed in this 338th SEAC Meeting held on 14.12.2022.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the ultimate depth of mining upto 1m BGL and the quantity of 20,180 cu.m. of Gravel. The annual peak production shall not exceed 10092 cu.m. of Gravel subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The proponent shall mandatorily appoint the statutory competent persons accordingly for the proposed quarry size to satisfy the provisions of Mines Act 1952 and Metalliferrous 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. No change in basic mining


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proposal shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.

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

shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.

12. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
13. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
15. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
16. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
17. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
18. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology

and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.

19. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
20. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
21. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
22. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under.
23. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
24. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
25. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
26. As accepted by the Project proponent the CER cost is Rs. 2 lakhs and the amount shall be spent for the Government High school, Kondakuppam

Village for developing sanitary and library facilities, planting trees in and around the school as committed, before obtaining CTO from TNPCB.

Agenda No: 338-16

(File No: 8903/2021)

Proposed Rough Stone quarry lease over an extent of 1.60.0 Ha in S. F. Nos. 412/11 (Part-4) of Palamathi Village, Vellore Taluk, Vellore District, Tamil Nadu by Thiru.H. Kirubasankar - For Environmental Clearance.(SIA/TN/MIN/238277/2022 Dated 06.01.2022)

Earlier, this proposal was placed in 279th Meeting of SEAC held on 28.05.2022. During the meeting it was noted that both the project proponent and EIA Coordinator were absent. SEAC therefore, decided to defer the proposal and call for the explanation of the PP.

the proposal was again placed in 318th Meeting of SEAC held on 07.10.2022. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.H.Kirubasankar has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 1.60.0HaatS.F.No.412/11(Part4) of Palamathi Village, Vellore Taluk, Vellore District, TamilNadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "MiningProjects"oftheScheduletotheEIANotification,2006.

The PP requested to defer the project. Hence the committee decided to defer theproposal.

Now the proposal was placed in this 338th meeting of SEAC held on 14.12.2022. The PP requested to defer the project. Hence the committee decided to defer theproposal.

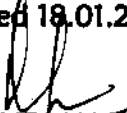
Agenda No: 338-17

(File No: 8906/2022)

Proposed Rough Stone quarry lease over an extent of 1.58.5 Ha (Patta Land) in S.F.No. 92/1B, Maveripatty Village, Harur Taluk, Dharmapuri District, Tamil Nadu by Thiru A. Thirumal- For Environmental Clearance (SIA/TN/MIN/250859/2022 Dated 18.01.2022)


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The proposal was placed in the 338th meeting of SEACHeld on 14.12.2022. The project proponent presented the details of the proposed quarry. The details of the proposed quarry furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted of the following:

1. The Project Proponent, Thiru A. Thirumal has applied for Environmental Clearance for the proposed Rough Stone quarry over an extent of 1.58.5 Ha (Patta Land) in S.F.No. 92/1B, Maveripatty Village, Harur Taluk, Dharmapuri District, Tamil Nadu
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is 10 years and the proposed Scheme of mining plan for the period of 5 years (2022-2027) with the production should not exceed 68278 cu.m. of Rough Stone and 2376 cu.m. of Top soil. The annual peak production 15640 cu.m. of Rough Stone (2nd year) and 2376 cu.m. of Top soil (1st year). The ultimate depth is 35m BGL.
4. The area has been quarrying operation earlier and EC issued vide DEIAA. Lr.No.01/DEIAA-DPI/EC.No.01/2017 dated: 24.06.2017 for the production 109221 m³ of Rough stone to depth of 28m BGL for a period of 5 years. the existing pit is 15m BGL.
5. Earlier, this proposal was placed in the 277th meeting of SEACHeld on 26.05.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain following details from the PP.
 - The PP shall furnish certified EC compliance report obtained from MOEF&CC/TNPCB.
 - The PP shall furnish the details on the completion of fencing work around the existing quarry.
 - It is found that the existing pit does not have benches. The PP shall, therefore, furnish slope stability action plan involving the realignment of benches (or) stability measures approved by the AD/Mines, DGM for the existing quarry.


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6. The proponent had submitted the EC compliance report, slope stability action plan and Drone videos about the fencing around the lease area vide letter dated: 22.08.2022
7. Hence, this proposal was placed for reappraisal in the 307th meeting of SEAC held on 26.08.2022. Based on the presentation and documents furnished by the project proponent, SEAC noted that mining has been done without proper benches in the past and this aspect has not been taken into account in the mining plan and therefore decided to obtain following details from the PP.
 - The Project Proponent shall furnish the revised mining plan approved by the competent authority, incorporating the slope stability action plan by maintaining benches of appropriate geometry.
8. Subsequently, this proposal was placed in the 552nd meeting of Authority held on 20.09.2022. After detailed discussion, the Authority decided to obtain following details from the PP in addition to the above.
 - The impacts of mining on Agriculture and vegetation around the mining area shall be studied.
 - The PP shall furnish details of soil erosion management and soil conservation plan.

| Sl. No | Details of the Proposal | |
|--------|---|--|
| 1. | Name of the Owner / Firm | Thiru.A.Thirumal S/o.Angamuthu Kalladipatty Village Achalvadi Post Harur Taluk Dharmapuri District-636903 |
| 2. | Type of quarrying (savudu / Rough stone / Sand / Granite) | Rough Stone quarry |
| 3. | S.F No. of the quarry site with area break-up | 92/1B |
| 4. | Village in which situated | Maveripatty |
| 5. | Taluk in which situated | Harur |
| 6. | District in which situated | Dharmapuri |
| 7. | Extent of Quarry (in ha.) | 1.58.5 Ha (Patta Land) |

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| 8. | Period of Quarrying proposed | 5 years | | | | | | | | | | | | |
|---------------------------------|--|--|------------|-----------------------------|---|------------------|--|--|---------------------------------|-------------------------------------|-------------------------------------|----------------|------|------|
| 9. | Type of Mining | Opencast semi mechanized mining | | | | | | | | | | | | |
| 10. | Production (Quantity in m ³) | <table border="1"> <thead> <tr> <th>Parameters</th><th>As per Approved Mining Plan</th><th>As per Revised Plan permitted by the SEAC</th></tr> </thead> <tbody> <tr> <td>Total excavation</td><td>73790 m³ of Rough stone & 5580 cu.m. of Top soil</td><td>68278 m³ of Rough Stone & 2376 cu.m. of Top soil</td></tr> <tr> <td>Annual Peak Production Capacity</td><td>15640 m³ of rough stone</td><td>15640 m³ of Rough Stone</td></tr> <tr> <td>Ultimate Depth</td><td>30 m</td><td>35 m</td></tr> </tbody> </table> | Parameters | As per Approved Mining Plan | As per Revised Plan permitted by the SEAC | Total excavation | 73790 m ³ of Rough stone & 5580 cu.m. of Top soil | 68278 m ³ of Rough Stone & 2376 cu.m. of Top soil | Annual Peak Production Capacity | 15640 m ³ of rough stone | 15640 m ³ of Rough Stone | Ultimate Depth | 30 m | 35 m |
| Parameters | As per Approved Mining Plan | As per Revised Plan permitted by the SEAC | | | | | | | | | | | | |
| Total excavation | 73790 m ³ of Rough stone & 5580 cu.m. of Top soil | 68278 m ³ of Rough Stone & 2376 cu.m. of Top soil | | | | | | | | | | | | |
| Annual Peak Production Capacity | 15640 m ³ of rough stone | 15640 m ³ of Rough Stone | | | | | | | | | | | | |
| Ultimate Depth | 30 m | 35 m | | | | | | | | | | | | |
| 11. | Annual peak Production (Quantity in m ³) | 15640 cu.m. of Rough Stone (2 nd year) and 2376 cu.m. of Top soil | | | | | | | | | | | | |
| 12. | Latitude & Longitude of all corners of the quarry site | 12°2'56.94"N to 12°3'4.04"N 78°30'28.57"E to 78°30'33.77"E | | | | | | | | | | | | |
| 13. | Topo sheet No. | 58 L/12 | | | | | | | | | | | | |
| 14. | Man power requirement per day: | 21 Nos | | | | | | | | | | | | |
| 15. | Precise Area Communication approved by the Assistant Director | Rc.No.424/2013/Mines, Dated: 21.07.2017 | | | | | | | | | | | | |
| 16. | Mining plan approved by the Deputy Director, Geology & Mining | Rc.No.424/2013/Mines, Dated: 28.10.2022. | | | | | | | | | | | | |
| 17. | 500mts letter approved by the Deputy Director, Geology & Mining | Rc.No. 424/2013/Mines, Dated: 17.12.2021. | | | | | | | | | | | | |
| 18. | Water requirement: 1. Drinking (in KLD) 2. Domestic Purpose (in KLD) 3. Dust Suppression (in KLD) 4. Green Belt (in KLD) | 3.0 kLD 0.200 KLD 0.8 KLD 1.0 KLD 1.0 KLD | | | | | | | | | | | | |

| | | |
|-----|---|--|
| 19. | Power requirement: a. Domestic purpose b. Machinery works | TNEB 59954 liters of HSD for the entire period of project life. |
| 20. | Depth of Mining | 35m BGL (3m Topsoil + 32m Rough stone) |
| 21. | Depth of Water table | 55m in Summer Season & 50 m Rainy Season |
| 22. | Project cost | Rs. 40,45,000/- |
| 23. | EMP cost | Capital cost- Rs. 2134340/- Recurring cost/annum- Rs. 2247540/- |
| 24. | CER cost | Rs. 4,10,000/- |
| 25. | VAO letter dated | Letter Date: 10.01.2022 |

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the total production quantity of 68,278 cu.m. of Rough Stone with the annual peak production not exceeding 15640 cu.m. of Rough Stone for the ultimate depth is restricted upto 35m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF & CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and obtain 'NOC' for carrying out the blasting operation in the proposed quarry from the DMS, Chennai before obtaining the CTO as the habitations are situated nearby.
3. The Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
4. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the bottom of the pit leaving behind the

mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).

5. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia& 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
6. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
7. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
8. Since few habitations are situated at a distance range of 400 m to 500 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
9. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of

Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.

10. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
11. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
12. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
13. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
14. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
15. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
16. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
17. As accepted by the Project proponent the CER cost is Rs. 4.10 lakhs and the amount shall be spent for the Government Girls Higher Secondary School, Harur as committed, before obtaining CTO from TNPCB.


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Agenda No: 338-18

(File No: 8931/2022)

proposed of Rough stone Quarry lease over an extent of 1.00.0Ha in S.F.No. 419 (Part-1A) of Vinnamangalam Village, Ambur Taluk, Vellore District, Tamil Nadu by Thiru.C.Sampath - for Environmental Clearance. (SIA/TN/MIN/249184/2021,Dated 05.01.2022)

The proposal was placed in this 338th meeting of SEAC held on 14.12.2022. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.C.Sampath has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 1.00.0Ha at S.F.No.419 (Part-1A) of Vinnamangalam Village, Ambur Taluk, Vellore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification,2006.

Based on the presentation made by the proponent, SEAC decided to call for additional details,

1. The project proponent shall furnish documentary evidence from the concerned District Forest Officer showing the distance between the nearest R.F and the proposed quarry site.

Agenda No: 338-19

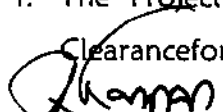
(File No: 8934/2022)

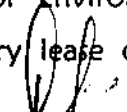
Proposed Rough Stone and Gravel quarry lease over an extent of 1.74.5 Ha in S.F.Nos. 845/1, 845/2, 845/3, 845/4, 845/5, 845/6, 845/7 & 845/8 of Gurnadhanaickanur Village, Dindigul West Taluk, Dindigul District, Tamil Nadu by Thiru M. Shankar for Environmental Clearance (SIA/TN/MIN/250623/2022 Dated 19.01.2022)

The proposal was placed in this 338th Meeting of SEAC held on 14.12.2022. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru M. Shankar has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an


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extent of 1.74.5 Ha in S.F.Nos. 845/1, 845/2/ 845/3, 845/4, 845/5, 845/6, 845/7 & 845/8 of Gurunadhanaickanur Village, Dindigul West Taluk, Dindigul District, Tamil Nadu.

2. The proposed quarry/activity would fall under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The lease period is 5 years and the mining for the entire period of five years should not exceed 2,14,680 cu.m. of Rough Stone and 65,270 cu.m. of Gravel. The annual peak production 52200 cu.m. of Rough Stone (2nd year) and 26750 cu.m. of Gravel (1st year). The ultimate depth of mining would be 50m BGL. Existing pit-1m.
4. Earlier, this proposal was placed in the 278th meeting of SEAC held on 27.05.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following details from the PP.
 - The PP shall furnish a letter from AD/DD Mining stating that details of quarries located within 500m radius as per the prescribed format.
 - The PP shall furnish a letter from AD/DD Mining stating details of structures & habitations located within 300m from the boundary of the project site.
 - The PP shall provide the details of industrial activities within a radius of 500 m from the proposed site.

| Sl. No | Details of the Proposal | |
|--------|---|--|
| 1. | Name of the Owner / Firm | Thiru.M.Shankar S/o.Manikannan No.4,L.G.B.Compound Dindigul District-624001 |
| 2. | Type of quarrying (savudu / Rough stone / Sand / Granite) | Rough Stone and Gravel quarry |
| 3. | S.F No. of the quarry site with area break-up | 845/1, 845/2/ 845/3, 845/4, 845/5, 845/6, 845/7 & 845/8 |
| 4. | Village in which situated | Gurunadhanaickanur |
| 5. | Taluk in which situated | Dindigul West |
| 6. | District in which situated | Dindigul |
| 7. | Extent of Quarry (in ha.) | 1.74.5 Ha |
| 8. | Period of Quarrying proposed | 5 years |
| 9. | Type of Mining | Opencast semi - Mechanized Mining |

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| | | Method |
|-----|--|--|
| 10. | Production (Quantity in m ³) | 2,14,680 cu.m. of Rough Stone and 65270 cu.m. of Gravel |
| 11. | Annual peak Production (Quantity in m ³) | 52200 cu.m. of Rough Stone(2 nd year) and 26750 cu.m. of Gravel(1 st year) |
| 12. | Latitude & Longitude of all corners of the quarry site | 10°28'49.56"N to 10°28'54.08"N 77°53'25.62"E to 77°53'31.49"E |
| 13. | Topo sheet No. | 58 F/15 |
| 14. | Man power requirement per day: | 31 Nos |
| 15. | Precise Area Communication approved by the Assistant Director , Geology & Mining | Lr.Rc.No.213/2021 (Kanimam), dt: 10.11.2021 |
| 16. | Mining plan approved by the Assistant Director, Geology & Mining | Lr. Rc.No.213/2021 (Mines), dt: 23.11.2021. |
| 17. | 500mts letter approved by the Assistant Director, Geology & Mining | Lr.Rc.No.213/2021 (Mines), dt: 09.12.2022 |
| 18. | Water requirement: 1. Drinking & Domestic Purpose (in KLD) 2. utilized water (in KLD) 3. Dust Suppression & Green Belt (in KLD) | 3.3 kLD 0.300KLD 1.0KLD, 1.0KLD 1.0KLD |
| 19. | Power requirement: a. Domestic purpose b. Machinery works | TNEB 182624 liters of HSD for the entire period of project life. |
| 20. | Ultimate Depth of Mining | 50m (5m Gravel +45m Rough stone) (Existing pit-1m) |
| 21. | Depth of Water table | 70 m in Summer Season & 60 m Rainy Season |
| 22. | Project cost | Rs. 53,20,000/- |
| 23. | EMP cost | Capital cost- Rs. 30,85,712/- Recurring cost/annum- Rs. 17,38,104/- |
| 24. | CER cost | Rs. 5 lakhs |
| 25. | VAO letter dated | Letter Date: 22.12.2021 |

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

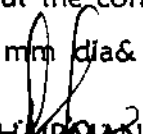

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total production quantity of 2,14,680 cu.m. of Rough Stone and 65270 cu.m. of Gravel with the annual peak production not exceeding 52200 cu.m. of Rough Stone and 26750 cu.m. of Gravel for the ultimate depth is restricted upto 50m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF & CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and obtain 'NOC' for carrying out the blasting operation in the proposed quarry from the DMS, Chennai before obtaining the CTO as the habitations are situated nearby.
3. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 before obtaining the CTO from TNPCB.
4. The Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
5. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the bottom of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
6. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact while carrying out the 'mound' portion of the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
7. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia & 1.5 m


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length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.

8. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
9. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
10. Since few habitations and temple are situated at a distance range of 300 m to 500 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
11. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m bgl (or) after the completion of 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF,

TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

12. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
13. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
14. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
15. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
16. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
17. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
18. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
19. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Government Middle School, Gurunathanayakkanur Village as committed, before obtaining CTO from TNPCB.

Agenda No: 338-20

(File No: 8980/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 0.82.0 Ha at S.F.No. 166/1A(Part) Koppampatti Village, Kayathar Taluk, Thoothukudi District, Tamil Nadu


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by Thiru .A.Ajeesh, M/s.United Blue Metals Associates - For Environmental clearance.(SIA/TN/MIN/253356/2022 dated 29.01.2022)

Earlier, this proposal was placed for appraisal in 280th meeting of SEAC held on 02.06.2022. The project proponent gave a detailed presentation. 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.A.Ajeesh, M/s.United Blue Metals Associates has applied seeking Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 0.82.0 Ha at S.F.No. 166/1A(Part) . Koppampatti Village, Kayathar Taluk, Thoothukudi District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification,2006.

Based on the presentation and document furnished by the project proponent, SEAC decided to ask for the following additional details from the Project Proponent.

- (i) PP shall produce certified EC compliance report for the existing quarry operated by the PP.
- (ii) The project proponent shall furnish an action plan approved by the AD/Mines, DGM for realignment of benches for already mined out area.
- (iii) The project proponent shall furnish slope stability plan for the proposed mine.

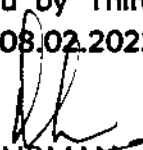
On receipt of the above details, SEAC would further deliberate on this project and decide the further course of action.

Now the proposal was placed in this 338th Meeting of SEAC held on 14.12.2022. During the meeting it was noted that the project proponent was absent. SEAC therefore, decided to defer the proposal and the PP shall furnish the reason for his absence.

Agenda No: 338-TA1
(File No: 6846/2022)

Proposed Rough Stone quarry lease over an extent of 4.50.0 Ha at S.F.Nos301(Part-2), Athi Village, Cheyyar Taluk, Tiruvannamalai DistrictTamil Nadu by Thiru. R. Ganesan for Environmental Clearance (SIA/TN/MIN/36808/2019, Dt. 08.02.2022)


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Earlier, this proposal was placed in this 295th meeting of SEAC held on 15.7.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. It is a Government Poramboke land which is not fit for the cultivation and the applicant has been awarded with this land through 'Tender cum Auction' in 2019.
2. The Project Proponent, Thiru. R. Ganesan has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 4.50.0 Ha at S.F.Nos 301(Part-2), Athi Village, Cheyyar Taluk, Tiruvannamalai District Tamil Nadu.
3. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
4. As per the mining plan the lease period is 10 years. The mining plan is for the period of five years & production should not exceed 1056550 cu.m of rough stone & 36900 m³ of top soil. The annual peak production is 6875 cu.m of rough stone (3rd year). The proposed depth is 50m (40m AGL + 10M BGL) and ultimate depth is 95m (40m AGL + 55m BGL).
5. It is a shallow open cast quarry. The Massive Charnockite is found after 1.0m (top soil formation) which is clearly inferred from the outcrops.
6. The precise area Communication letter was received from the District Collector, Tiruvannamalai vide Rc.No.18/Mines/2019, Dated: 16.05.2019.
7. The lease applied area is Hilly topography with highest elevation of 100m on the Southern side and lowest elevation of 50m on the North western side and gentle slope Northwest. The altitude of the area is 100m (max) above Mean sea level. The area is covered by the Topsoil which is about 1.0m thickness.
8. Surrounding Water Bodies; Vaikkal 50m West; Cheyyar River 200m West ;Athikulam 1km Northeast ;Pudur Lake 800m Southeast.


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9. The nearest habitation – Athi village is situated at a distance of 2 km from the site.
10. Apart from this proposed quarry, there are no other existing/proposed quarries situated within a radius of 500 m.
11. There are no approved layouts/habitations located within a radial distance of 300m.
12. The PP has issued with ToR vide Lr No. SEIAA-TN/F.No.6846/SEAC/ToR-707/2020 Dated: 27.05.2020

Based on the presentation made by the proponent SEAC noted that the Hon'ble High Court of Judicature at Madras in its order Dt. In WP No. 15007/2020 & WMP 18683/2020 has pronounced that *"It is also to be noted at this juncture that the State Level Impact Assessment Authority, before according the Environmental Clearance, shall also depute personal to the site in question and cause independent inspection and verification as to the ground reality and thereafter, proceed further in accordance with law"*.

Further the PP has been directed to furnish the following details:


1. The PP shall carry out the scientific studies to assess the slope stability of the proposed working benches / quarry wall when the depth of the quarry exceeds 40 m as well as the existence of river bed at a distance of 200 m, by involving a reputed Research and Academic Institution such as NIRM, IITs, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted during the appraisal. The report shall also cover the slope stability action plan incorporating haul road along with benches, for the proposed workings in the hilly terrain of the quarry.
2. The PP shall carry out a comprehensive hydrogeological study to evaluate the impact of mining on the surrounding water bodies, especially, Cheyyar River 200m located in West, by involving a reputed Research and Academic Institution such as NIRM, IIT-Madras, NIT Trichy, University of Madras, Anna University-CEG Campus, and any other reputed research institutions etc. A copy of such scientific study report shall be submitted during the appraisal.

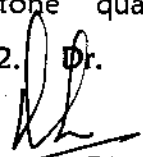
3. The PP shall carry out a comprehensive biodiversity study (flora & fauna) including soil health to evaluate the impact of mining on the surrounding environmental settings, by involving a reputed Research and Academic Institution such as TN Agricultural University-Coimbatore, Anna University Chennai-CES, and any other reputed academic/research institutions etc. A copy of such scientific study report shall be submitted during the appraisal.
4. The PP shall also carry out a comprehensive study on 'Socio-economic aspects' of the proposed site, indicating the developmental activities to be undertaken to enhance the quality of life in the surrounding villages, by involving a reputed Research and Academic Institution such as Madras School of Economics, Pondicherry University, IIT-Madras, NIT Trichy, Anna University Chennai-Main Campus, etc. A copy of such scientific study report shall be submitted during the appraisal.
5. The PP shall carry out a study on "Impact of Climate Change on quarrying operation and flood control measures and Environmental Management" in the proposed site, indicating the mitigating measures during the development of the project, by involving a reputed Research and Academic Institution such as IIT-Madras, NIT Trichy, Anna University Chennai-Main Campus, and any other CSIR Laboratories etc. A copy of such scientific study report shall be submitted during the appraisal.
6. The PP shall also provide the detailed mitigating measures to be carried out for the issues raised by the people who had participated in the Public Hearing, against the proposed quarrying project.

On the receipt of the above reports, and based on the 'on-site inspection' to be carried out by the sub-Committee constituted by SEAC to assess the allegations as quoted in the WP, the SEAC will further carry out the deliberations.

INSPECTION PROCEEDINGS

A subcommittee comprising of the following members was constituted by the Chairman, SEAC to inspect and study the field conditions in the proposal seeking Environmental Clearance for Proposed Roughstone quarry, vide Lr.No. SEAC-TN/6846 Site Inspection/2022 dated 15.07.2022. Dr. K.S.

Kavi Kumar, Member SEAC-TN & Shri. K. Kumar, Member SEAC-TN

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Accordingly, the sub committee have inspected and studied the field conditions on 03.12.2022 (Saturday) and observations have been furnished as follows.

| Sl No | Description | Remarks |
|-------|---|---|
| 1. | SEIAAFileNo. | 6846/2020 |
| 2. | OnlineProposalNo. | SIA/TN/MIN/41586/2019Dated:20.08.2019 (B1Category-Cluster) |
| 3. | NameofProponent | Thiru.R.Ganesan,Directorof M/s.SRCProjects (P)Ltd. |
| 4. | NameoftheProject | AthiRoughStoneQuarry |
| 5. | NameoftheDistrict | Tiruvannamalai |
| 6. | NamoftheTaluk | Cheyar |
| 7. | Nameofthevillage | Athi |
| 8. | SFNos. | 301(Part-2) |
| 9. | ExtentinHa | 4.50.0 |
| 10. | Nameofthemineral | Roughstones |
| 11. | GrantedLeaseperiod | 10years |
| 13. | SEACsiteInspection letter | SEAC-TN/6846SiteInspection/2022dated 15.07.2022 |
| 14. | DateofSub-committee Site inspection. | 03.12.2022 |

OBSERVATIONS OF THE SUB-COMMITTEE

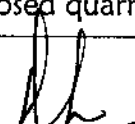
| SINo. | Criteria | Observationinthe filed |
|-------|-----------------------|---|
| 1. | YearwiseMineraloutput | Noticedasper approvedminingplan, the development & production details are prepared according to the site conditions by the QP and it is then duly approved by the competent authority under Rule 11 (5) of MCDR 1988. |


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| 2. | Formation of Benches & Fencing Provisions | <p>i. It is a Government Poramboke land, the PP has been awarded this Lease area through 'Tender-Cum-Auction' process from the State Government. Hence, the PP could not install the fencing in the project site.</p> <p>ii. The PP has informed that the benches will be formed for the scientific & systematic quarrying practices as per the design proposed in the Approved Mining Plan and also in the recommendations given by the Department of Mining Engineering, NIT, Surathkal for ensuring the stability of the slopes for the highwall benches.</p> <p>iii. The PP has also informed that the necessary permission under Reg.106 (2) (b) of MMR 1961 will be obtained while sending the Notice of Opening to the Regional Inspector of Mines, DGMS, Chennai Region for ensuring safe work environment.</p> |
| 3. | Drilling, Blasting and Heavy Machinery use | The proposed mine is basically categorized under 'Mechanized mine' type. Due to hard charnockite formation in the proposed quarry, the conventional 'Drilling & Blasting' is practically inevitable for the breaking of such rock masses using explosives to obtain the fragments for further downstream operations including loading, transportation, screening and processing. Non-conventional methods such as rippers, rock breakers cannot be deployed in such formations due to geomechanical characteristics of the rock formation. |
| 4. | Adequate and qualified statutory personnel | The PP has informed that they plan to employ the statutory personnel such as First Class/Second Class Mines Manager's certificate of competency, Foreman, Mine Mate / Blaster, under MMR 1961, for the proposed quarry. |


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| 6. | Habitation/Forest location | <p>i. There is no habitation within 300 mts radial distance of lease hold area as per Rule 36(1) of TNMMCR, 1959.</p> <p>ii. The Nearest habitation is located at about 890m belongs to Athi village from the North East corner of the project site.</p> <p>iii. Similarly, the forest - Vengunam RF is situated about 11.09 km South side of the project (aerial distance).</p> |
| 7. | Ground water table intersection. | <p>i. The mining area basically comprise of a hillock topography, situated above ground level.</p> <p>ii. Initially, a depth of 50m (40magl + 10mbgl) is proposed for first five years of Mining Plan</p> <p>iii. During the second 'five year' excavation programme of Mining Plan, a depth of 95m (40magl + 55mbgl) is proposed for extracting the entire deposit.</p> <p>iv. Here, it has been observed that the Water table in this area is lying at 70mts from GL. Hence, there is no possibility of intersection ground water table.</p> <p>v. Besides the above, the PP have also assured that necessary steps will be implemented during the quarrying operation as per the recommendations provided by the scientific institution who had carried out the hydrogeological studies in line with instruction given by the SEAC.</p> |
| 8. | Green Belt development in safety zone and as per norms in terms of species and numbers. | <p>The proposed site being a Government Poramboke land, the PP has not yet initiated the green belt development at the project site. However, the proponent has developed thick green belt comprising over 200 trees surrounding the crusher unit established within 1 km distance from the quarrying site. The PP has assured that a similar green belt will be</p> |

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| | | developed at the quarry site after obtaining the environmental clearance |
| 9. | Mined Mineral storage | <p>i. The PP has informed that the entire mined out quantity of mineral will be transported to their crushing plant for further processing and also to the needy customers who purchase it from their site.</p> <p>ii. Therefore, it is clearly understood that the mineral will not be transported through the village roads and stored within the lease area by the PP.</p> |
| 10. | Surface drainage | Vaikkal is located about 50 m West and Cheyyar river is about 200 m West side of the project site. It has been observed that no 'Garland drainage' has been constructed by the PP for streamlining the flow of surface run-off since it is a Government poramboke land. |
| 11. | Mined material transport route | It was informed that a Temporary approach road is existing close to the project site connecting the Cheyyar-Perunagar road will be utilized for project purposes. |
| 12. | Others | <p>i. It was observed that an abandoned quarry is located at South East side of the project area (operated during the period of 21.08.2008 to 20.08.2018) and it is partially water logged.</p> <p>ii. There are no approved HRCE owned (or) Village-Panchayat managed temples, Archaeological monuments exist within the proximity of 300m from the project area.</p> |

RECOMMENDATIONS OF THE SUBCOMMITTEE


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1. The project area exhibits hillock topography with boulders and scattered scrubs and thickets, with the vegetation on the hillock dominated by the grass species. Hence, the PP shall remove the boulder rock fragments before commencing the quarrying activities for providing the safe environment.
2. The PP shall commence the quarrying operation from top to downwards by forming the benches of adequate dimension as specified in the approved Mining Plan (or) approved by the DGMS, Chennai Region.
3. The PP shall take adequate mitigating measures as spelt out in the Hydrological & Slope stability reports submitted by the scientific agencies while working close to an abandoned quarry which is located at South East side of the project area, which as of now water logged.
4. As per the direction of the SEAC during the EIA appraisal, the Proponent has carried out additional studies involving highly reputed scientific/academic institutions. The table below provides a brief summary of the recommendations from the studies:


| Sl.No. | Name of the Study | Conclusions & Recommendations of the Study Reports |
|--------|---|--|
| 1. | Slope stability study by the National Institute of Technology Karnataka, Surathkal, Mangalore | <p><u>Page.No.27</u> <u>Sl.No.11</u> Based on the scientific studies, it can be stated that it is very safe to carry out quarrying activity with the proposed bench configuration as per approved mine/quarry plan at the proposed quarry of M/s. SRC Projects Private Limited.</p> <p><u>Page.No.28</u> <u>Sl.No.4</u> Proposed bench height of 5m as per approved mine/quarry plan may be adopted. Bench width should be at least 5m while working the benches. The slope angle of individual bench may be kept at 85° to 90° in general.</p> <p>However, the ultimate pit slope angle should not be more than 45° while working of benches for the safety reasons.</p> <p><u>Page.No.26</u></p> |

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| | | <p><u>Sl.No.8</u></p> <p>As water content was found to be nil during the laboratory experiments indicating it is fully non porous rock, there is no possibility of water percolating into benches to cause instability.</p> <p><u>Sl.No.9.</u></p> <p>There is Cheyyar river located at around 200m on west side of the proposed quarry. The river is unlikely to influence the stability of the benches, or quarry operations are not likely to influence the water level of the river as the rock mass in the quarry is found to be non- porous in nature, and also there is considerable amount of level difference between the quarry and the river.</p> <p><u>Page No. 28Sl.No.8.</u></p> <p>The quarry management should maintain an effective drainage system in order to avoid inrush of water during rainy season on to the benches.</p> |
| 2. | Comprehensive hydrogeological studies by Department of Geology, University of Madras | <p><u>Page.No.69(Point. No. 1)</u></p> <p>The proposed mine region is categorized as wasteland. The nearest water bodies of the proposed mine are Vaikkal (nala) at 50m and Cheyyar River at a distance of 200m along the west direction of the proposed mines. There are no streams, canals or water bodies crossing the proposed mine area. The proposed mine lies in a high relief region when compared to the region falling near the Cheyyar River.</p> <p><u>Page.No.69 (Point. No. 2)</u></p> <p>The mining operation carried out (Abandoned Quarry) so far has not affected the quality of both surface water and groundwater in this region.</p> <p>This zone is highly compact and the movement of water is very insignificant or negligible. From the geophysical studies, it is clear that groundwater movement is very poor in this region as the massiveness of the rock formation increases from the depth of 14 m (bgl) on an average. The transmissivity range of the study area</p> |

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| | | <p>is 16 m²/day, suggesting that the proposed quarry falls under poor groundwater transmissivity zone. The above transmissivity property of the study area indicates that there is very insignificant movement of groundwater at sub surface level or the movement may be completely negligible.</p> <p><u>Page.No.70 (Point.No.3)</u></p> <p>The Cheyyar River flowing in the western part lies at much lower relief (82 m, amsl) than that of the proposed mine which is situated in elevated region (132 m, amsl). The difference in relief between Cheyyar River and the proposed mine is 50 m. Hence, the flooding in the Cheyyar River does not have any impact on the quarry and nearby villages.</p> <p><u>Page.No.70 (Point.No.4)</u></p> <p>The proposed mine is categorized under cluster which is covered in 6.50.0 Ha. The remaining 12.80.0 Ha area of the Athi hills is un-mined and act as protected zone from Cheyyar River flooding to the nearest Athi village which is located at a distance of 1.2 km NE. Thus the flooding in Cheyyar River does not have any implications to Athi Village. The drinking and agricultural water resources in the nearby villages are not affected by this mining activity as the proposed mining area lies in highly elevated region.</p> <p><u>Page.No.70(Point.No.5)</u></p> <p>The groundwater flow does not have any impact due to the mining activity in this region.</p> <p><u>Page.No.70(Point.No.7)</u></p> <p>The meteorological data and water level recorded for past five years show that the area in and around the proposed mine follow almost similar pattern and hence, the proposed mine and its surrounding does not have any impact of climate change.</p> |
| 3 | SocioEconomic study by Dep | 1. |

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| | <p>Department of Social Work (Aided) Madras Christian College, East Tambaram</p> | <p>From the survey it was found that the women in Athivilla are educated but most of them are unemployed and homemakers. The study has shown that only a few women are very successful at SHG level. If women are benefitted with special provision for capacity building and skill development, then training them would be beneficial.</p> <p>2. The older women are not involved in any activities presently, but are interested to be a part of any home based employment activity. A few women who are widows are unemployed as well.</p> <p>3. The youth groups are interested to be in the field of sports, but facilities like play grounds and gyms are not available to them.</p> <p>4. The village does not have a library and there is no facility for the children to access any study material. There are no schools nearby for the children to access the library. Evening tuition system has to be initiated in the village.</p> <p>The Anganwadi in the village has to be maintained properly.</p> <p>5. From the suggestions provided by the villagers it was found that most of the villagers require cattle sheds. Some of the houses have no proper sanitation facility. There is no feasibility to access the Primary health centre in the village.</p> <p>6. The youth in the village, most of them seem to be unemployed. Entrepreneurship training and business development training have to be given to the youth in the village.</p> <p>7. The socio-economic survey did not specifically analyze the impact of the mining activities on the villagers – both in terms of the negative and positive consequences. The survey could have included responses of the villagers to the questions on dust pollution, movement of quarry trucks, anticipated impact due to drilling & blasting operations etc.</p> |
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| 4. | <p>Baselinesurveyofplantdiversity, CSIR-Central Institute of Medicinal & Aromatic Plants, Research Centre, Bengaluru</p> | <p><u>Page.No.13(Point.No.8)</u></p> <p>The core project proposed site as well as the entire hillock is covered with grass species, very scattered scrubs and thickets. Herbaceous species are dominated in this area. Though few endemic species recorded from the study area most of them are herbaceous and the populations are Pan-Indian distribution. There is no threatened (Critically Endangered, Endangered & Vulnerable) species recorded from the core project proposed area as well as from the entire hillock.</p> |
| 5. | <p>IMPORTANT POINTS MENTIONED IN THE FAUNA SURVEY REPORT SUBMITTED BY Dr. DEVANATHAN.</p> | <p><u>Page.No.3(Point.No.3.2)</u></p> <p>A total of 19 varieties of species were observed in the core zone of Athi village, Rough stone quarry (Table No 3.7) among them numbers of insects 6 (32%), reptiles 4 (16%), Mammals 2 (10%) and Avian 8 (42%). A total of 19 species belonging to 16 families have been recorded from the core mining lease area. None of these species in the study area and surroundings are threatened or endangered. There is no Schedule I species and seven species are under Schedule I according to the Indian Wildlife Act 1972</p> <p><u>Page.No.5(Point.No.3.3)</u></p> <ol style="list-style-type: none"> 1. As such there are no chances of occurrence of any rare or endangered or endemic or threatened (REET) species within the core or buffer area. 2. There are no Sanctuaries, National Parks, Tiger Reserve or Biosphere Reserve or Elephant Corridor or other protected areas within 10 km radius from core area. It is evident from the available records, reports, and circumstantial evidence that the entire study area including the core and buffer areas were free from any endangered animals. There were no resident birds other than common bird species such as, green bee eaters, Indian rollers, Rose ringed parakeet, Common Mynas, Black drongos, Crows, Grey Francolin. 3. A total of 14 species of birds were sighted in the study area. There are no critically endangered, endangered, vulnerable, and endemic species. There are no impacts on nearby fauna species. |

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| | | <p>4. Dominant species are mostly birds and insects, and the two amphibians observed. During the extensive field visit were <i>Sphaerotheres brevicaudus</i> and <i>Euphlyctis hexadactylus</i>.</p> <p><u>Page No. 6 (Point No. 3.4)</u></p> <p>There are no migratory corridors, nesting and breeding sites within the proposed site or in the core area and study area. No need to take any mitigation measures in this connection.</p> <p><u>(Point No. 3.4.1)</u></p> <p>From the list, no Rare or Endangered or Endemic or Threatened (REET) species or any species listed in Schedule I of the Wildlife (Protection) Act. Hence, species specific and habitat specific mitigation measures are not needed in this connection. The project site does not overlap with any of the recognized Ramsar sites.</p> <p><u>Page No. 12</u></p> <p>MITIGATION MEASURES</p> <ol style="list-style-type: none"> 1. No rare, endemic & endangered species are reported in the buffer zone. However, during the course of mining, the management shall practice the scientific method of mining with a proper Environmental Management Plan including pollution control measures especially for air and noise, to avoid any adverse impact on the surrounding wildlife. 2. Fencing shall be carried out around the mine lease area to restrict the entry of stray animals. 3. Green belt developments shall be carried out which will help in minimizing adverse impact on the flora found in the area. 4. Topsoil shall be used for restoration and suitable surfaces for planted seedlings. <p>All the preventive measures shall be taken for the growth & development of fauna.</p> |
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| 6 | The PP shall also provide the detailed mitigating measures to be carried out for the issues raised by the people who had participated in the Public Hearing, against the proposed quarrying project. | The PP have informed that the public hearing concerns are addressed through carrying out adequate mitigation measures as recommended by the afore said scientific studies. Further the above studies have revealed no adverse impact on the surrounding environment due to this proposed quarrying operation is anticipated and accordingly the EMP measures also have been revised. |
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1. The Sub-Committee strongly recommends that the PP shall employ the following statutorily competent persons to carry out the proposed quarrying operation for implementing the recommendations made in the above scientific reports to ensure eco-friendly, safe, scientific &

| Sl. No | Designation | Qualifications | Number of Persons |
|--------|------------------------|--|-------------------|
| 1. | Mines Manager | First Class Mine Manager's Certificate of Competency under MMR 1961 | 1 |
| 2. | Assistant Mine Manager | Second Class Mine Manager's Certificate of Competency under MMR 1961 | 1 |
| 3. | Geologist | M.Sc., specialized in Hydrogeology | 1 |
| 4. | Foreman | Foreman Certificate of Competency under MMR 1961 | 2 |
| 5. | Mine Mate | Mine Mate Certificate of Competency under MMR 1961 | 1 |
| 6. | Blaster | Blaster's Certificate of Competency under MMR 1961 | 1 |
| 7. | Environmental Engineer | B.E/ B.Tech (or) M.Sc. in Environmental Engineering | 1 |
| 8. | Welfare Officer | MSc. in Social Welfare / Labour Welfare | 1 |


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systematic way of mining operation.

2. One Thiru M.Palani S/o.Mannu residing at Athi village filed petition W.P.No15007/ of 2020 in the High court of Judicature at Madras against the District Collector, Tiruvannamalai and the same was disposed by an order vide W.P.No15007/2020 and W.M.PNo.18683/2020 Dated 10.11.2020 against the Counter affidavit by the District Collector, Tiruvannamalai, Based on the observation, the Sub-Committee had felt that the proposed quarry does not have any such serious impacts as indicated in the above petition.
3. The final conclusions & recommendations of the sub-committee based on the merits of all scientific study reports carried out by the highly reputed Scientific & Academic Institutions, and Field Inspection is that there will not be any significant impact or implications to environment, public, habitations, water bodies, livelihoods, ground water, birds & animals during the operation of proposed rough stone quarry project through the strict compliance of environment management plan as presented earlier to the SEAC. Further, the nearby villagers will be benefited by direct and indirect employment from this project for the next 10 years which will also provide an opportunity for developing this area economically. Besides, the Athi village and nearby villagers will be benefited by this project through revenue obtained from the Tender Amount, Seigniorage Fee, Green Fund, District Mineral Foundation Trust Fund, CER Fund, and CSR Fund.

Hence, the subcommittee opines the **grant of Environmental Clearance** for the proposed Rough stone quarry lease over an extent of 4.50.0 Ha at S.F.Nos 301 (Part-2) Athi Village, Cheyyar Taluk, Tiruvannamalai District, Tamil Nadu belongs to Thiru. R. Ganesan, M/s. SRC Projects (P) Ltd., **may be considered** subject to the following conditions in addition to the above recommendations:

1. The proposed action plan for green belt development shall be maintained in safety barrier zone of the over all project area and accordingly the plantation shall be carried out in the proposed quarry site and haul roads.

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2. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine and the cell shall include a dedicated full-time Environmental Engineer exclusively to look in to the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
3. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs to TNPCB.
4. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water.
5. 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.,
6. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry without obtaining prior permission from the Director of Mines Safety, Chennai Region under the provisions of Reg. 106 of MMR 1961.
7. Since habitations are situated at a distance of 890 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal and Anna University – CEG Campus. A

copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.

8. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry.
9. The PP shall carry out the advanced tools in the blasting operation such as advance vibration monitoring models, electronic detonators, etc. such that the ground vibration due to blasting is reduced to negligible PPV level and no fly rock is produced.
10. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall after three years from the commencement of mining operation for ensuring safety of the persons employed in the mine, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT(ISM)/Dhanbad, IIT-Madras, NIT-Dept of Mining Engg, Surathkal etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
11. The PP shall carry out the socio-economics studies in the villages located within 2 km from the site by involving reputed institutions such as Madras School of Economics, Chennai, Department of Management Studies, Pondicherry University and Madras School of Social Work, etc. during the 3rd year after the commencement of quarrying operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, and the DEE/TNPCB, as a part of Environmental Compliance without any deviation.

12. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate bank

account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC and its Integrated Regional Office (IRO) located in Chennai.

This proposal was placed in 338th SEAC meeting held on 14.12.2022. Based on the inspection report and document furnished, SEAC accept the recommendation made by the Sub Committee and decided to recommend the proposal for the grant of **Environmental Clearance** for production should not exceed **1056550 cu.m** of rough stone & **36900 m3** of top soil. The annual peak production is **235650cu.m** of rough stone. The proposed depth is **50m (40m AGL + 10M BGL)** and ultimate depth is **95m (40m AGL +55m BGL)** in addition to the conditions in Annexure -I of this minutes and the conditions suggested by the Sub Committee with the following specific conditions:

1. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
2. As accepted by the Project proponent the CER cost is Rs. 16,59,080/- and the amount shall be spent towards the Government Higher Secondary School, Elaneerkundram, T.V. Malai District before obtaining CTO from TNPCB.


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ANNEXURE-I

1. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
4. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
5. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
6. The proponent shall ensure that the slope of dumps is suitably vegetated in scientific manner with the native species to maintain the slope stability, prevent erosion and surface run off. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps.

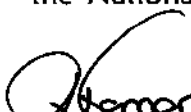
7. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
8. The Project Proponent shall carry out slope stability study by a reputed academic/research institution such as NIRM, IIT, Anna University for evaluating the safe slope angle if the proposed dump height is more than 30 meters. The slope stability report shall be submitted to concerned Regional office of MoEF&CC, Govt. of India, Chennai as well as SEIAA, Tamilnadu.
9. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
10. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
11. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
12. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted in proper escapements as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
13. **Noise and Vibration Related:** (i) The Proponent shall carry out only the Controlled Blasting operation using NONEL shock tube initiation system during

daytime. Usage of other initiation systems such as detonating cord/fuse, safety fuse, ordinary detonators, cord relays, should be avoided in the blasting operation. The mitigation measures for control of ground vibrations and to arrest fly rocks should be implemented meticulously under the supervision of statutory competent persons possessing the I / II Class Mines Manager / Foreman / Blaster certificate issued by the DGMS under MMR 1961, appointed in the quarry. No secondary blasting of boulders shall be carried out in any occasions and only the Rock Breakers (or) other suitable non-explosive techniques shall be adopted if such secondary breakage is required. The Project Proponent shall provide required number of the security sentries for guarding the danger zone of 500 m radius from the site of blasting to ensure that no human/animal is present within this danger zone and also no person is allowed to enter into (or) stay in the danger zone during the blasting. (ii) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.

14. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
15. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
16. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
17. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried rough stones; and

transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.


18. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
19. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.
20. The Project proponent shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flora, fauna etc.
21. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
22. The project proponent shall ensure that the provisions of the MMRD, 1956, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
23. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
24. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
25. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting


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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.

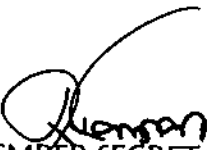

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Appendix -I
List of Native Trees Suggested for Planting

| No | Scientific Name | Tamil Name | Tamil Name |
|----|---------------------------------|-------------------|-----------------------|
| 1 | <i>Aegle marmelos</i> | Vilvam | விலவம் |
| 2 | <i>Adenanthura pavonina</i> | Manjadi | மஞ்சாடி, ஆனைக்குன்றம் |
| 3 | <i>Albizia lebeck</i> | Vaagai | வாகை |
| 4 | <i>Albizia amara</i> | Usil | உசில் |
| 5 | <i>Bauhinia purpurea</i> | Mantharai | மந்தாரை |
| 6 | <i>Bauhinia racemosa</i> | Aathi | ஆத்தி |
| 7 | <i>Bauhinia tomentos</i> | Iruvathi | இருவாத்தி |
| 8 | <i>Buchanania axillaris</i> | Kattuma | காட்டுமா |
| 9 | <i>Borassus flabellifer</i> | Panai | பனை |
| 10 | <i>Butea monosperma</i> | Murukkamaram | முருக்கமரம் |
| 11 | <i>Bobax ceiba</i> | Ilavu, Sevvilavu | இலவு |
| 12 | <i>Calophyllum inophyllum</i> | Punnai | புன்னை |
| 13 | <i>Cassia fistula</i> | Sarakondrai | சரக்கொன்றை |
| 14 | <i>Cassia roxburghii</i> | Sengondrai | செங்கொன்றை |
| 15 | <i>Chloroxylon sweitenia</i> | Purasamaram | புரசு மரம் |
| 16 | <i>Cochlospermum religiosum</i> | Kongu, Manjallavu | கோங்கு, மஞ்சள் இலவு |
| 17 | <i>Cordia dichotoma</i> | Naruvuli | நருவுளி |
| 18 | <i>Creteva adansonii</i> | Mavalingum | மாவிலங்கம் |
| 19 | <i>Dillenia indica</i> | Uva, Uzha | 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> | Kallitchi | 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>Lannea coromandelica</i> | Odhiam | ஓதியம் |
| 28 | <i>Lagerstroemia speciosa</i> | Poo Marudhu | பூ மருது |
| 29 | <i>Lepisanthus tetraphylla</i> | Neikottaimaram | நெய் கொட்டை மரம் |
| 30 | <i>Limonia acidissima</i> | Vila maram | விலா மரம் |
| 31 | <i>Litsea glutinos</i> | Pisinpattai | அரம்பா, பிசின்பட்டை |
| 32 | <i>Madhuca longifolia</i> | Iluppai | இலுப்பை |
| 33 | <i>Manilkara hexandra</i> | UlakkaiPaalai | உலக்கை பாலை |
| 34 | <i>Mimusops elengi</i> | Magizhamaram | மகிழ்மரம் |
| 35 | <i>Mitragyna parvifolia</i> | Kadambu | கடம்பு |
| 36 | <i>Morinda pubescens</i> | Nuna | நுணா |
| 37 | <i>Morinda citrifolia</i> | Vellai Nuna | வெள்ளை நுணா |
| 38 | <i>Phoenix sylvestre</i> | Eachai | எச்சமரம் |
| 39 | <i>Pongamia pinnat</i> | Pungam | புங்கம் |

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


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Appendix -II

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

-----சுரங்கம்

சுரங்கங்களில் சுவாரி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEIAA/____, தேதியிடப்பட்டு, சுற்றுச்சூழல் அனுமதி _____ தேதி வரை செல்லத்தக்கதாக உள்ளது.

| | |
|--|---|
| பசுமை பகுதி வளர்ச்சி மேம்பாட்டுக்கான சுரங்கத் திட்டம் | சுவாரியின் எல்லைபாய்ச் சுற்றி வேலி அமைக்க வேண்டும். சுரங்கப்பாதையின் ஆழம் தளமட்டத்திலிருந்து _____ மீட்டர்க்கு மிகாமல் இருக்க வேண்டும். காற்றில் மாக ஏற்படாதவாறு சுரங்க பணிகளை மேற்கொள்ள வேண்டும். வாகனங்கள் செல்லும் பாதையில் மாக ஏற்படாத அளவிற்கு தண்ணீரை முனரூபாக தண்ணீர் லாரிகளின் மூலமாக அவ்வப்போது தெளிக்க வேண்டும். இரைச்சல் அளவையும் தூசி மாகபாட்டையும் குறைப்பதற்காக சுவாரியின் எல்லைபாய்ச் சுற்றி அடர்த்தியான பசுமை பகுதியை ஏற்படுத்த வேண்டும். |
| நடப்பட்டு பராமரிக்கப்பட வேண்டிய மரங்கள் எண்ணிக்கை: | சுரங்கத்தில் வெடி வைக்கும்பொழுது நிலஅதிர்வுகள் ஏற்படாதவாறும் மற்றும் சுற்கள் பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை என்னிப்பாக செயல்படுத்தப்பட வேண்டும். சுரங்கத்தில் இருந்து ஏற்படும் இரைச்சல் அளவு 85 டிசிபெல்ஸ் (dBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற் கொள்ள வேண்டும். |
| | சுரங்க சட்ட விதிகள் 1955ன் கீழ் சுரங்கத்தில் உள்ள பணியாளர்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு காகதாரமுள்ள கழிப்பறை வசதிகளை செய்ந்து தர வேண்டும். கிராமம் அல்லது பஞ்சாயத்து வழிபாக வாகனங்கள் செல்லும் சாலைபாய் தொடர்ந்து நன்கு பராமரிக்க வேண்டும். சுரங்கப்பணிகளால் அருகில் உள்ள விவசாயப் பணிகள் மற்றும் நீர்நிலைகள் பாதிக்கப்படக் கூடாது. நீர்நிலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் துவத்து தீரின் தரத்தினை தொடர்ந்து கண்காணிக்க வேண்டும். சுரங்கத்திலிருந்து கனம் பொருட்களை எடுத்துச் செல்லுது கிராம மக்களுக்கு எந்தத் சிமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் சுற்றுச்சூழல் பாதிக்கவாத வண்ணம் வாகனங்களை இயக்க வேண்டும். சுரங்கப்பணிகள் முடிக்கப்பட்டவுடன் சுரங்க மூடல் திட்டத்தில் உள்ளவாறு சுரங்கத்தினை மூட வேண்டும். சுரங்க நடவடிக்கைகளை முடித்தபின்னர் சுரங்கப் பகுதி மற்றும் சுரங்க நடவடிக்கைகளால் இடையூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமானம் செய்ந்து தாவணங்கள் விவங்குகள் ஆவியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பசுமைப்பகுதியை உருவாக்க வேண்டும். |
| | முழுமையான நிபந்தனைகளை அறிய பாரிவேஷ் (http://parivesh.nic.in) என்ற இணையதளத்தைப் பார்வையிடவும் மேலும் எந்தவித சுற்றுச்சூழல் சார்ந்த புகார்களுக்கு சென்னையில் உள்ள சுற்றுச்சூழல் மற்றும் வன அமைச்சகத்தின் ஒருங்கிணைந்த வட்டார அலுவலகம்: 044 - 28222325 (அல்லது) தமிழ்நாடு மாக கூட்டுப்பாடு வாரியத்தின் மாவட்ட சுற்றுச்சூழல் பொறியாளரை அணுகவும். |

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