

State Expert Appraisal Committee (SEAC)

Minutes of 375th meeting of the State Expert Appraisal Committee (SEAC) held on 04.05.2023(Thursday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No. 375-01

File No :9840/2023

Proposed Rough Stone and Gravel quarry lease over an extent of – 1.81.5 Ha S.F.No. 1086/1C, 1086/3, 1101/1(Part), 1101/2A(Part) Gudalur Village, Kulithalai Taluk, Karur District, Tamil Nadu by Thiru P.Rajaram– For Environmental Clearance

(SIA/TN/MIN/416738/2023, dated 16.02.2023)

The proposal was placed in 375th meeting of SEAC held on 04.05.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The project proponent gave a detailed presentation.

The SEAC noted the following:

1. The project proponent, Thiru P.Rajaram has applied seeking Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease over an extent of – 1.81.5 Ha S.F.No. 1086/1C, 1086/3, 1101/1(Part), 1101/2A(Part) Gudalur Village, Kulithalai Taluk, Karur 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, as amended.

| File No | 9840 | Category | 1(a) |
|---------|--------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------|
| | 416738 | | B2 |
| Sl. No | Salient Features of the Proposal | | |
| 1. | Name of the Owner/Firm | : | P Rajaram S/o. Paranthaman, No.7/108, Vellappatti, Thogaimalai Kulithalai Karur District- 621313 |
| 2. | Type of quarrying (Ordinary Stone/ Sand/ Granite/ Limestone) | : | Rough stone & Gravel |
| 3. | S.F Nos. of the quarry site with area break-up | : | 1086/1C, 1086/3, 1101/1 (Part) & 1101/2A (Part) |
| 4. | Village in which situated | : | Gudalur |


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|--------------------------|---------------------------------------------------------------|---------|------------------------------------------------------------------|--------|
| 5. | Taluk in which situated | : | Kulithalai | |
| 6. | District in which situated | : | Karur | |
| 7. | Extent of quarry (in ha.) | : | 1.81.5 Ha | |
| 8. | Latitude & Longitude of all corners of the quarry site | : | 10°45'44.25"N to 10°45'48.94"N 78°26'23.20"E to 78°26'29.86"E | |
| 9. | Topo Sheet No. | : | 58 - J/5 | |
| 10. | Type of mining | : | open cast semi mechanized mining | |
| 11. | Life of Project | : | 10 years | |
| | Lease Period | : | Ten years | |
| | Mining Plan Period | : | Five years | |
| 12. | Mining Plan Details | : | As per approved Mining Plan | |
| | Geological Resources m ³ (RoM) | : | Rough Stone | Gravel |
| | | | 772533 | 19371 |
| | Minable Resources m ³ (RoM) | : | 285531 | 12798 |
| | Annual Peak Production in m ³ | : | 20350 | 14680 |
| Ultimate Depth in meters | : | 45m BGL | | |
| 13. | Depth of water table | : | 55m - 60m | |
| 14. | Man Power requirement per day: | : | 13 Nos | |
| 15. | Water requirement: | : | 0.75kLD | |
| | 1. Drinking water | | 1.0 kLD | |
| | 2. Utilized water | | 1.0 kLD | |
| | 3. Dust suppression | | 1.0 kLD | |
| 4. Green belt | 1.0 kLD | | | |
| 16. | Power requirement | : | Diesel Generator for quarrying operations | |
| 17. | Precise area communication approved by the Department of G&M. | : | Roc.No.490/Mines/2022, Dated: 09.01.2023 | |
| 18. | Mining Plan approved by Department of G&M. | : | Roc.No.490/Mines/2022, Dated: 30.01.2023 | |
| 19. | Department of G&M, Deputy Director 500m Cluster Letter | : | Roc.No.490/Mines/2022, Dated: 30.01.2023 | |
| 20. | VAO Certificate regarding Structures within 300m Radius | : | Letter dated: Nil | |
| 21. | Project Cost (excluding EMP cost) | : | Rs.25,31,500/- | |

| | | | | | |
|-----|-------------------------|---|----------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------|
| 22. | EC Recommendation | : | Validity | 30 years subject to the following upper limits. | |
| | | | | Rough Stone | Gravel |
| | | : | Max Total RoM in m3 | 285531 | 12798 |
| | | : | Annual Max RoM in m3 | 20350 | 14680 |
| | | : | Max Depth in mtrs | 42m BGL | 3m BGL |
| 23. | EMP cost (in Rs. Lakh). | : | Capital Cost: 23,25,965 Recurring Cost/Annum: 12,01,000 + 5% inflation cost from 2 nd year | | |
| 24. | CER cost (in Rs. Lakh). | : | Rs. 5,10,000/- | | |

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a production quantity of 64531cu.m of Roughstone and 12798cu.m of Gravel to the depth of 10m BGL in 5 years and the annual peak production shall not exceed - 14680 m³ of Rough Stone as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.


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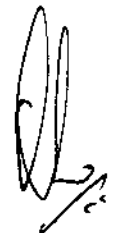

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- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) The proponent shall 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.
- 8) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 9) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 10) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 11) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 12) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.

- 13) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 14) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 15) 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.
- 16) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 17) 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.
- 18) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 19) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures


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located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.

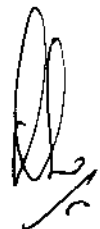
- 20) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 21) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 22) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 23) The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 24) 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.
- 25) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.

- 26) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 27) 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.
- 28) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 29) 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.
- 30) 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.
- 31) 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.
- 32) 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.
- 33) 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


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Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.

- 34) 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.
- 35) 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.
- 36) 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.
- 37) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 38) 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.
- 39) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
- 40) As accepted by the Project Proponent the CER cost of **Rs. 5.10 lakh** and the amount shall be spent for the Government School, village before obtaining CTO from TNPCB.

AGENDA No: 375-02

(File No: 9847/2023)

Proposed Rough Stone and Gravel quarry lease over an extent of – 1.01.0Ha S.F.No. 15/2 of Sriramapuram Village, Vedasandur Taluk, Dindigul District, Tamil Nadu by Thiru. N.Sadhasivam– For Environmental Clearance
(SIA/TN/MIN/418853/2023 dated 18.02.2023)

The proposal was placed in this 375th meeting of SEAC held on 04.05.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The project proponent gave a detailed presentation.

The SEAC noted the following:

1. The project proponent, Thiru. N.Sadhasivam has applied seeking Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease over an extent of – 1.01.0Ha S.F.No. 15/2 of Sriramapuram Village, Vedasandur 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, as amended.

On perusal of the documents furnished by the Proponent, the SEAC noted that the project site is located within 10km aerial distance from Kadavoor Slender Loris Sanctuary, for which ESZ is yet to be notified by MoEF&CC. Therefore, referring to the Para(3) sub para(ii) of the MoEF&CC O.M. F.No. 6-60/2020WL Part(1) dated 16.07.2020 which states as follows.

- ii. Proposals involving activity/project located within 10 km of National Park/Wildlife Sanctuary wherein ESZ has not been finally notified and listed in the Schedule of the EIA Notification 2006 and requiring environment clearance, prior clearance from Standing Committee of the National Board for Wild Life will be required.

The Committee directed the PP to submit NBWL Clearance for the proposed project activity. On receipt of the same, the Committee will further deliberate and decide on future course of action.

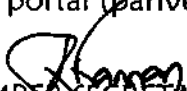
AGENDA No: 375-03

File No 9853/2023

Proposed Rough Stone and Gravel quarry lease over an extent of – 2.77.05 Ha in S.F.No. 518/1A, 314/3A, 3B, 1503/1, 2A1, 2A2A of Pullkuthi & Markayankottai Village, Uthamapalayam Taluk, Theni District, Tamil Nadu by THIRU T. JAYAKANNAN– For Environmental Clearance

(SIA/TN/MIN/418861/2023, dated 18.02.2023)

The proposal was placed in this 375th meeting of SEAC held on 04.05.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The project proponent gave a detailed presentation.


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The SEAC noted the following:

1. The project proponent, THIRU T. JAYAKANNAN has applied seeking Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease over an extent of – 2.77.05 Ha in S.F.No. 518/1A, 314/3A, 3B, 1503/1, 2A1, 2A2A of Pulikuthi & Markayankottai Village, Uthamapalayam Taluk, Theni District, Tamil Nadu.
2. The project/activity is covered under category “B2” of Item 1 (a) “Mining of Minerals Projects” of the schedule to the EIA Notification, 2006, as amended.

| File No | 9853 | | Category | 1(a) | |
|---------|--------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------|-----------------|--|
| | 418861 | | | B2 | |
| Sl. No | Salient Features of the Proposal | | | | |
| 1. | Name of the Owner/Firm | : | Thiru T. Jayakannan S/o Shri.Thangaiah No 12, Sarojini Nagar, Medavakkam Kancheepuram District – 600 100. | | |
| 2. | Type of quarrying (Ordinary Stone/ Sand/ Granite/ Limestone) | : | Rough stone & Gravel | | |
| 3. | S.F Nos. of the quarry site with area break-up | : | 518/1A, 314/3A, 3B, 1503/1, 2A1, 2A2A | | |
| 4. | Village in which situated | : | Pulikuthi & Markayankottai | | |
| 5. | Taluk in which situated | : | Uthamapalayam | | |
| 6. | District in which situated | : | Theni | | |
| 7. | Extent of quarry (in ha.) | : | 2.77.05 Ha | | |
| 8. | Latitude & Longitude of all corners of the quarry site | : | 09°51'13.09"N to 09°51'10.03"N 77°19'57.4"E to 77°20'06.7"E | | |
| 9. | Topo Sheet No. | : | 58 - G/5 | | |
| 10. | Type of mining | : | open cast Manual/semi mechanized mining | | |
| 11. | Life of Project | : | 10 years | | |
| | Lease Period | : | 10 years | | |
| | Mining Plan Period | : | 5 years | | |
| 12. | Mining Plan Details | : | As per approved Mining Plan | | |
| | Geological Resources m ³ (RoM) | : | Rough Stone 609510 | Gravel 83115 | |

| | | | | |
|-----|---------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| | Minable Resources m ³ (RoM) | : | Rough Stone 163662 | Gravel 44613 |
| | Annual Peak Production in m ³ | : | Rough Stone 23950 | Gravel 6900 |
| | Maximum Depth in m | : | 22m BGL | 3m BGL |
| 13. | Depth of water table | : | 56m to 59m BGL | |
| 14. | Man Power requirement per day: | : | 10 Nos | |
| 15. | Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt | : | 1.00kLD 0.5 kLD 1.0 kLD | |
| 16. | Power requirement | : | Diesel Generator for quarrying operations | |
| 17. | Precise area communication approved by the Department of G&M. | : | Na.Ka. No. 810/Mines/2021 dated: 27.12.2022 | |
| 18. | Mining Plan approved by Department of G&M. | : | Roc. No. 810/Mines/2021 dated: 19.01.2023 | |
| 19. | Department of G&M, Deputy Director 500m Cluster Letter | : | Roc. No. 810/Mines/2021 dated 24.01.2023 | |
| 20. | VAO Certificate Regarding Structures within 300m Radius | : | Letter dated: 19.01.2022 | |
| 21. | Project Cost (excluding EMP cost) | : | Rs.66.07 Lakh | |
| 22. | EC Recommendation | : | Validity | 30 years subject to the following upper limits. Rough Stone Gravel |
| | | : | Max Total RoM in m ³ | 163662 44613 |
| | | : | Annual Max RoM in m ³ | 23950 6900 |
| | | : | Ultimate Depth in m | 20m BGL |
| 23. | EMP cost (in Rs. Lakh). | : | Capital Cost: Rs.21.97Lakh Recurring Cost/Annum: Rs.13.80 Lakh+ 5% inflation cost from 2 nd year | |
| 24. | CER cost (in Rs. Lakh). | : | Rs. 5,00,000 | |


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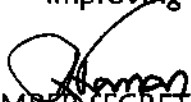

Based on the presentation and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for a production quantity of 77,145 m³ of Roughstone and 23, 805m³ of Gravel to the depth of 20m BGL in 5 years and the annual peak production shall not exceed – 19,675 m³ of Rough Stone** as per the approved mining plan subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.


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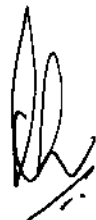

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- 7) The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- 8) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 9) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 10) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 11) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 12) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 13) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 14) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 15) 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.
- 16) 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


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- planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 17) 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.
 - 18) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
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 - 20) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
 - 21) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
 - 22) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.

- 23)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.
- 24)The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.
- 25)Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 26)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.
- 27)The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 28)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.
- 29)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.
- 30) 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.
- 31)The project proponent shall ensure that the provisions of the MMDR Act, 1957&the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959


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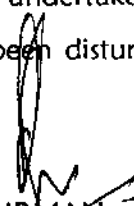
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are compiled by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.

- 32)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.
- 33)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.
- 34)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.
- 35)That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 36)As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 37)The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed


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due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

23. The PP shall ensure that the following provisions are provided due to the existence of Reserved Forest/Reserve Land at a distance of less than 500 m from the project site:

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


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- viii. The PP shall carry out the scientific investigations in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.
- ix. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.
- x. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying operations within 'Permissible Limits' specified under the environmental laws.
- xi. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.
- xii. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry out the quarrying on steep hill slopes with a gradient of 20° or more / areas with a high degree of erosion on forestland.
- xiii. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco- sensitive Zone of 60 m without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.
- xiv. The PP shall not use plastic carry bags within the quarry area.
- xv. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free from blockage for runoff disposals. This run off from the road side drainage shall relate to the natural drainage system in the area.

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

39)As accepted by the Project Proponent the CER cost of Rs.5.0 lakh and the amount shall be spent for the Government School, village before obtaining CTO from TNPCB.

Agenda No. 375-04

File No 9859/2023

Proposed Rough Stone and Gravel quarry lease over an extent of 1.56.55 Ha in S.F.No. 480/4, 480/5, 480/6, 480/8A & 480/9 of Pachamalayankottai Village, Nilakottai Taluk, Dindigul District, Tamil Nadu by TVL. JMV BLUE METALS – For Environmental Clearance

(SIA/TN/MIN/418861/2023, dated 18.02.2023)

The proposal was placed in this 375th meeting of SEAC held on 04.05.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The project proponent gave a detailed presentation.

The SEAC noted the following:

1. The project proponent, TVL. JMV BLUE METALS has applied seeking Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of 1.56.55 Ha in S.F.No. 480/4, 480/5, 480/6, 480/8A & 480/9 of Pachamalayankottai 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, as amended.

| File No | 9859 | Category | 1(a) |
|---------|------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------|
| | 419366 | | B2 |
| Sl. No | Salient Features of the Proposal | | |
| 1. | Name of the Owner/Firm | : | TVL. JMV BLUE METALS Thiru.Manikandan, (Managing Partner) Pachamalayankottai Village Nilakottai Taluk, Dindigul District-624707 |
| 2. | Type of quarrying (Ordinary Stone/Sand/Granite/Limestone) | : | Rough Stone & Gravel |
| 3. | S.F Nos. of the quarry site with area break-up | : | 480/4, 480/5, 480/6, 480/8A & 480/9 |
| 4. | Village in which situated | : | Pachamalayankottai |



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|-----|------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------|
| 5. | Taluk in which situated | : | Nilakottai |
| 6. | District in which situated | : | Dindigul |
| 7. | Extent of quarry (in ha.) | : | 1.56.50 Ha |
| 8. | Latitude & Longitude of all corners of the quarry site | : | 10°14'39.94"N to 10°14'45.53"N 77°51'37.83"E to 77°51'42.83"E |
| 9. | Topo Sheet No. | : | 58- F/16 |
| 10. | Type of mining | : | Opencast semi mechanized mining method |
| 11. | Life of Project | : | 10 years |
| | Lease Period | : | 10 years |
| | Mining Plan Period | : | 5 years |
| 12. | Mining Plan Details | : | As per approved Mining Plan |
| | Geological Resources m ³ (RoM) | : | Rough Stone Gravel 606957 31126 |
| | | Movable Resources m ³ (RoM) | : |
| | Annual Peak Production in m ³ | | : |
| | | Ultimate Depth in m | : |
| 13. | Depth of water table | : | 45m BGL |
| 14. | Man Power requirement per day: | : | 16 Nos |
| 15. | Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt | : | 2.5 kLD |
| 16. | Power requirement | : | Diesel Generator for quarrying operations |
| 17. | Precise area communication approved by the Department of G&M. | : | Rc.No. 430/Mines/2022 dated 09.02.2023 |
| 18. | Mining Plan approved by Department of G&M. | : | Rc.No. 430/Mines/2022 dated 13.02.2023 |
| 19. | Department of G&M, Deputy Director 500m Cluster Letter | : | Roc.No.430/ Mines/2022, Dated: 13.02.2023 |
| 20. | VAO Certificate Regarding Structures within 300m Radius | : | 16.02.2023 |


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|-----|-----------------------------------|---------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------|
| 21. | Project Cost (excluding EMP cost) | : | Rs. 43,06,250/- | | |
| 22. | EC Recommendation | : | Validity | 30 years subject to the following upper limits. | |
| | | | | Rough Stone | Gravel |
| | | : | Max Total RoM in m ³ | 143150 | 22598 |
| | | : | Annual Max RoM in m ³ | 26475 | 14150 |
| : | Max Depth in m | 39m BGL | 2m BGL | | |
| 23. | EMP cost (in Rs. Lakh). | : | Capital Cost: Rs. 25,86,423/- Recurring Cost/Annum: Rs.14,84,650/- + 5% cost inflation from 2 nd year | | |
| 24. | CER cost (in Rs. Lakh). | : | Rs. 5,50,000 | | |

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a production quantity of 1,31,500 m³ of Roughstone to the depth of 29m BGL In 5 years and the annual peak production shall not exceed 42,000 m³ of Rough Stone as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.


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- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) The proponent shall 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.
- 8) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 9) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 10) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 11) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 12) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.


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- 13) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 14) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 15) 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.
- 16) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 17) 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.
- 18) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 19) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures


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located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.

- 20) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 21) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 22) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 23) 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.
- 24) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.
- 24. The PP shall ensure that the following provisions are provided due to the existence of Reserved Forest/Reserve Land at a distance of less than 1km from the project site:**
- i. Since the R.F is located very close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in two rows) along the boundary of the mine lease area before obtaining the CTO from the TNPCB.
 - ii. The proponent shall construct and maintain proper fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forest before the commencement of the

operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.

- iii. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate dumps positioned in opposite direction to the location of the reserved forest.
- iv. The PP shall ensure that such waste/reject dumps shall be properly secured to prevent escape of material there from in harmful quantities which may cause degradation of environment and to prevent causation of floods.
- v. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
- vi. The PP shall take necessary steps that wherever possible, the waste rock, overburden etc. shall be back-filled into the mine excavations with a view to restoring the land to its original use as far as possible.
- vii. Wherever back-filling of waste rock in the area excavated during mining operations is not feasible, the PP shall take adequate steps in discussion with the concerned DFO to suitably terrace the waste dumps placed within the lease hold area ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
- viii. The PP shall carry out the scientific investigations in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.
- ix. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.
- x. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying operations within 'Permissible Limits' specified under the environmental laws.


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- xi. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.
- xii. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry out the quarrying on steep hill slopes with a gradient of 20° or more / areas with a high degree of erosion on forestland.
- xiii. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco- sensitive Zone of 60 m without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.
- xiv. The PP shall not use plastic carry bags within the quarry area.
- xv. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free from blockage for runoff disposals. This run off from the road side drainage shall relate to the natural drainage system in the area.

25)The PP shall adhere to the provisions of the MoEF had issued Notification No. S.O. 1545 dated 25th June 2009 regulating certain activities in the eco-sensitive zone to conserve and protect the reserved forest area from ecological and environmental point of view

26)Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.

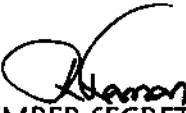
27)The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.

28)The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.

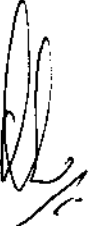

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- 29) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through 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.
- 30) 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.
- 31) 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.
- 32) 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.
- 33) 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 (TNPCCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 34) 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.
- 35) 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.


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- 36) 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.
- 37) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 38) 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.
- 39) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
- 40) As accepted by the Project Proponent the CER cost of Rs. 5.5 lakh and the amount shall be spent for the Government School, village before obtaining CTO from TNPCB.

Agenda No: 375 - 05

(File No: 9834/2023)

Proposed Gravel quarry lease area over an extent of Extent 2.04.5 Ha at S.F.No. 215/1A & 215/1B of Panikankuppam Village, Panruti Taluk, Cuddalore District, Tamil Nadu by Thiru. R. Saravanabathy - For Environmental Clearance. (SIA/TN/MIN/418015/2023, Dated: 13.02.2023)

The proposal was placed for appraisal in this 375th meeting of SEAC held on 04.05.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. R. Saravanabathy has applied for Environmental Clearance for the proposed Gravel quarry lease area over an


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extent of Extent 2.04.5 Ha at S.F.No. 215/1A & 215/1B of Panikankuppam Village, Panruti Taluk, Cuddalore District, Tamil Nadu.

2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 2 years. The production for 2 years not to exceed 31,837m³ of Gravel to an ultimate depth of Mining 2m BGL.

| File No | 9834 | | Category | 1(a) | |
|---------|-----------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--|
| | Online No. - 418015 | | | B2 | |
| Sl. No | Salient Features of the Proposal | | | | |
| 1. | Name of the Owner/Firm | : | Thiru. R. Saravanabathy S/o Radhakrishnan No.754, West Street, Pudhu Pillaiyarkuppam Maligampattu, Panruti Taluk, Cuddalore District | | |
| 2. | Type of quarrying (Ordinary Stone/Sand/Granite/Limestone) | : | Gravel quarry | | |
| 3. | S.F Nos. of the quarry site with area break-up | : | 215/1A & 215/1B | | |
| 4. | Village in which situated | : | Panikankuppam | | |
| 5. | Taluk in which situated | : | Panruti | | |
| 6. | District in which situated | : | Cuddalore | | |
| 7. | Extent of quarry (in ha.) | : | 2.04.5 | | |
| 8. | Latitude & Longitude of all corners of the quarry site | : | 11°44'04.77"N to 11°44'09.22"N 79°32'42.52"E to 79°32'48.19"E | | |
| 9. | Topo Sheet No. | : | 58- M/10 | | |
| 10. | Type of mining | : | Opencast method of shallow mining | | |
| 11. | Life of Project | : | 2 Years | | |
| | Lease Period | : | 2 Years | | |
| | Mining Plan Period | : | 2 years | | |
| 12. | Mining Plan Details | : | As per approved Mining Plan | | |
| | Geological Resources m ³ (BOM) | : | Gravel 40,900m ³ | Gravel 40,900m ³ | |


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|-----|-----------------------------------------------------------------------------------------|---|---------------------------------------------------------------|-------------------------------------------------|
| | Minable Resources m ³ (RoM) | : | Gravel 31,837m ³ | Gravel 31,837m ³ |
| | Annual Peak Production in m ³ | : | Gravel 16,356m ³ | Gravel 16,356m ³ |
| | Maximum Depth in meters | : | 2m BGL | 2m BGL |
| 13. | Depth of water table | : | 8m in rainy & 10m in summer seasons | |
| 14. | Man Power requirement per day: | : | 09 Nos | |
| 15. | Water requirement: 5. Drinking water 6. Dust suppression 7. Green belt | : | 2.0 KLD 0.2 KLD 1.5 KLD 0.3 KLD | |
| 16. | Power requirement | : | 5,310 Litres of HSD | |
| 17. | Precise area communication approved by the Assistant Director (i/c), Department of G&M. | : | Rc.No.289/Mines/2021, Dated: 23.12.2022 | |
| 18. | Mining Plan approved by Assistant Director (i/c), Department of G&M. | : | Rc.No.289/Mines/2021, Dated: 19.01.2023 | |
| 19. | Department of G&M, Assistant Director (i/c), 500m Cluster Letter | : | Rc.No.289/Mines/2021, Dated: 19.01.2023 | |
| 20. | VAO Certificate Regarding Structures within 300m Radius | : | Letter Dated: 25.01.2023 | |
| 21. | Project Cost (excluding EMP cost) | : | 24,96,000 | |
| 22. | EC Recommendation | : | Validity | 30 years subject to the following upper limits. |
| | | : | Max Total RoM in m ³ | 31,837 m ³ |
| | | : | Annual Max RoM in m ³ | 16,356 m ³ |
| | | : | Max Depth in mtrs | 2m |
| 23. | EMP cost (in Rs. Lakh). | : | Capital Cost – Rs. 11,42,900 Recurring Cost – Rs. 5,56,490 | |

| | | | |
|-----|-------------------------|---|--------------|
| 24. | CER cost (in Rs. Lakh). | : | Rs. 2,00,000 |
|-----|-------------------------|---|--------------|

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for the quantity of 31,837m³ of gravel to an ultimate depth of 2m for a maximum period of two years** as per the approved mining plan subject to the standard conditions & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The statutory competent persons shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952.
3. The Project Proponent shall develop the Green belt activities (tree plantations of two to three rows) in the safety zone as stipulated in the Mining Plan around the periphery of the proposed quarry lease before obtaining the CTO from the TNPCB.
4. The Project Proponent shall not carry out blasting operations.
5. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
6. The PP shall ensure that the transport vehicles used in the quarry are adequately covered with tarpaulin before it is allowed to enter into the adjacent village panchayat road.
7. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50m 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.


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8. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
9. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
10. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
11. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
12. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
13. As accepted by the Project proponent the CER cost is **Rs. 2.0 lakh** and the amount shall be spent for the activities committed for the Panchayat Union Primary School, pilliyarkuppam, Panruti Taluk, Cuddalore District before obtaining CTO from TNPCB.

Agenda No: 375 - 06

(File No: 9854/2023)

Proposed Rough stone quarry lease area over an extent of Extent 1.00.0 Ha at S.F.No. 486/1 (PART) of Thorapalli Agraharam Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru. T. M. Gangadhar - For Environmental Clearance. (SIA/TN/MIN/419081/2023, Dated: 20.02.2023)

The proposal was placed for appraisal in this 375th meeting of SEAC held on 04.05.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. T.M. Gangadhar has applied for Environmental Clearance for the proposed Rough stone quarry lease area over an extent of Extent 1.00.0 Ha at S.F.No. 486/1 (PART) of Thorapalli


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Agraharam Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.

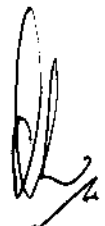
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 10 years. The production for first five years not to exceed 98,145m³ of Rough stone & 6,966m³ of Top soil to a depth of Mining 31m [14m AGL + 17m BGL] for the first five years and 78,140 m³ of Rough Stone for the second five years for an ultimate depth of mining 46m. Hence, ultimate depth of mining is 46m and total quantity for ten years is 1,76,285 m³ of Rough Stone.
4. The proponent had earlier applied for grant of Environmental Clearance vide F.No. 9150 - SIA/TN/MIN/265608/2022 Dated: 02/04/2022.
5. Subsequently, the proposal was placed in 290th SEAC meeting held on 30.06.2022. The Committee noted that the Kudisakkanapalli Reserve Forest is located at a distance of 50m from this project site and the proposal is, therefore, hit by the above G.O. The Committee, therefore, decided not to recommend the proposal.
6. Subsequently the proposal was placed in 535th SEIAA meeting held on 21.07.2022. The authority noted that this proposal was placed for appraisal in this 290th meeting of SEAC held on 30.06.2022. In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 30.06.2022.
7. "As per the G.O. (Ms.) No. 243 industries, Investment promotion and Commerce (MMC.1) Department dated 14.12.2022, Amendment to the Tamil Nadu Minor Mineral Concession Rules, 1959 as follows,
"In the said rules, in rule 36, in Sub-rule (1-A), in Clause(e) for the expression "the National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors and Reserve Forests", the expression "National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors" shall be substituted".

| | | | |
|---------|----------------------------------|----------|------|
| File No | 9854 | Category | 1(a) |
| | Online No. - 419081 | | B2 |
| Sl. No | Salient Features of the Proposal | | |


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|------------------------------------------|-----------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1. | Name of the Owner/Firm | : | T.M. Gangadhar, S/o. Muniramappa, D.No.1/251, Thorapalli Agraharam Village & Post, Hosur Taluk, Krishnagiri District-635 109. | |
| 2. | Type of quarrying (Ordinary Stone/Sand/Granite/Limestone) | : | Rough stone | |
| 3. | S.F Nos. of the quarry site with area break-up | : | 486/1 (PART) | |
| 4. | Village in which situated | : | Thorapalli Agraharam | |
| 5. | Taluk in which situated | : | Hosur | |
| 6. | District in which situated | : | Krishnagiri | |
| 7. | Extent of quarry (in ha.) | : | 1.00.0 | |
| 8. | Latitude & Longitude of all corners of the quarry site | : | 12°40'21.07"N to 12°40'25.55"N 77°52'56.08"E to 77°53'01.40"E | |
| 9. | Topo Sheet No. | : | 57- H/14 | |
| 10. | Type of mining | : | Opencast Mechanized Mining | |
| 11. | Life of Project | : | 10 Years | |
| | Lease Period | : | 10 Years | |
| | Mining Plan Period | : | 10 years | |
| 12. | Mining Plan Details | : | As per approved Mining Plan | |
| | Geological Resources m ³ (RoM) | : | Rough Stone | Top Soil |
| | | | 4,80,135m ³ | 10,469m ³ |
| | Mineable Resources m ³ (RoM) | : | Rough Stone | Top Soil |
| | | | 1,76,825m ³ | 6,966m ³ |
| Annual Peak Production in m ³ | : | Rough Stone | Top Soil | |
| | | 25,130m ³ | 4,838m ³ | |
| | Maximum Depth in meters | : | 31m (14m AGL + 17m BGL) for first five years and 46m for ten years | |
| 13. | Depth of water table | : | 62m in rainy & 67m in summer seasons | |
| 14. | Man Power requirement per day: | : | 19 Nos | |
| 15. | Water requirement: | : | | |
| | 8. Drinking water | | 1.0 KLD | |
| | 9. Dust suppression | | 0.5 KLD | |
| | 10. Green belt | | 0.5 KLD | |

| | | | | | |
|-----|-----------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------|
| 16. | Power requirement | : | 32,082 Litres of HSD | | |
| 17. | Precise area communication approved by the District Collector, Department of G&M. | : | Na.Ka.No.216/2019/Kanimam, Dated: 13.06.2019 | | |
| 18. | Mining Plan approved by Deputy Director, Department of G&M. | : | Roc .No.216/2019/Mines, Dated: 11.11.2019 | | |
| 19. | Department of G&M, Deputy Director 500m Cluster Letter | : | Roc.No.216/2019/Mines, Dated: 11.11.2019 | | |
| 20. | VAO Certificate Regarding Structures within 300m Radius | : | Letter Furnished | | |
| 21. | Project Cost (excluding EMP cost) | : | 1,47,95,000 | | |
| 22. | EC Recommendation | : | Validity | 30 years subject to the following upper limits. | |
| | | | | Rough Stone | Gravel |
| | | | Max Total RoM in m ³ | 98,145m ³ of Rough stone – First Five Years & 78,140 m ³ of Rough Stone – Second Five years. | - |
| | | | Annual Max RoM in m ³ | 25,130 m ³ | |
| | Ultimate pit Depth in mtrs | 46m (14m AGL + 32m BGL) | | | |
| 23. | EMP cost (in Rs. Lakh). | : | Capital Cost – Rs. 7,42,500 Recurring Cost – Rs. 11,39,425 | | |
| 24. | CER cost (in Rs. Lakh). | : | Rs. 5,00,000 | | |

In view of the above facts, the proposal was placed in the 375th SEAC meeting held on 04.05.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental


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Clearance for the Annual Peak production of not exceeding 25,130 m³ of Rough stone by maintaining an ultimate depth of mining 46m 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:

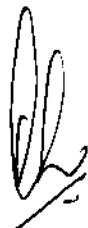
- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) The PP shall submit the action plan for carrying out the quarrying operations from the top portion to downwards in the hilly / outcrop portion by maintaining the benches of adequate geometry with proper haul road to the DEE/TNPCB before obtaining the CTO after having approved by the AD (Mines).
- 7) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural

stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.

- 8) 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.
- 9) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 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 should be adopted by considering the wind direction.
- 11) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 15) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 16) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.


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- 17) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 18) 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.
- 19) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 20) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 21) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 22) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 23) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the

boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.

- 24) As the ultimate depth in this case exceeded 40m, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 25) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 26) 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.
- 27) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 28) 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.
- 29) 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.


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- 30) 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.
- 31) 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.
- 32) 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.
- 33) 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.
- 34) 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.
- 35) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 36) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be

included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

37)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.

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

39)As accepted by the Project Proponent the CER cost of Rs.5 lakhs and the amount shall be spent for the Panchayat Union Urdu Middle School, Gollapalli village as committed before obtaining CTO from TNPCB.

Agenda No: 375-07

(File No: 9849/2023)

Proposed Rough Stone, Jelly & Gravel quarry Lease over an extent of 1.57.44 Ha at S.F.Nos. 876/1L(P), 876/1M(P), 876/1N(P) & 878/12B of Nathikudi Village, Vembakottai Taluk, Virudhunagar District, Tamilnadu by Shri.J.SaiPreetham – For Environmental Clearance (SIA/TN/MIN/417389/2023 dated 09.02.2023)

The proposal was placed in 375th meeting of SEAC held on 04.05.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **Shri.J.SaiPreetham** has applied for Environmental Clearance for the **Proposed Rough Stone, Jelly & Gravel quarry Lease over an extent of 1.57.44 Ha at S.F.Nos. 876/1L (P), 876/1M (P), 876/1N(P) & 878/12B of Nathikudi Village, Vembakottai Taluk, Virudhunagar District, Tamilnadu.**
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.

During the meeting, the Committee noted that the project proponent was absent and hence the subject was not taken up for discussion.

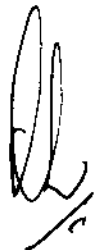
Agenda No: 375-08

(File No: 9861/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.21.45 Ha at S.F.Nos. 476/2 (P) & 476/3(P) of Kaliyal Village, Vilavancode Taluk, Kanniyakumari District,


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Tamilnadu by Thiru.S.Dhas – For Environmental Clearance (SIA/TN/MIN/419735/2023 dated 24.02.2023)

The proposal was placed in 375th meeting of SEAC held on 04.05.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.S.Dhas has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 1.21.45 Ha at S.F.Nos. 476/2 (P) & 476/3(P) of Kaliyal Village, Vilavancode Taluk, Kanniyakumari District, Tamilnadu.
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.

During the meeting, the Committee noted that the project proponent was absent and hence the subject was not taken up for discussion.

Agenda No: 375 – 09

File No:9836/2023

Proposed Ordinary Stone & Gravel quarry over an extent of 0.91.0 Ha in SF.No. 106/2 at Paganatham Village, Karur Taluk, Karur District, Tamil Nadu by Thiru A Natarajan - For Environmental Clearance. (SIA/TN/MIN/411996/2023,Dt.09.02.2023)

The proposal was placed in the 375th SEAC Meeting held on 04.05.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru A Natarajan has applied for Environmental Clearance for the Proposed Ordinary Stone & Gravel quarry over an extent of 0.91.0 Ha in SF.No. 106/2 of Paganatham Village, Karur Taluk, Karur District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of mineral of the Schedule to the EIA Notification, 2006.
3. The PP has furnished the Certified compliance report received from MOEF&CC.
4. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 22808 m³ of Ordinary Stone & 1574 m³ of Gravel for two years with an ultimate depth of mining is 24m BGL.The annual peak production is 4629m³ of Ordinary Stone (3rd year) & 825m³ of Gravel (1st year).

| | | |
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| 9836/2023 Dated: 20.02.2023 | Category | 1(a) |
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|------------------------------------------|-----------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------|--------|
| File No | Online No: SIA/TN/MIN/411996/2023, Dt. 09.02.2023 | | B2 | |
| Sl. No | Salient Features of the Proposal | | | |
| 1. | Name of the Owner/Firm | : | Thiru A Natarajan S/o Arjunan 3/80, Pullayampalayam, Punnam Village, Manmangalam Taluk, Karur District | |
| 2. | Type of quarrying (Ordinary Stone/Sand/Granite/Limestone) | : | Ordinary Stone & Gravel | |
| 3. | S.F Nos. of the quarry site with area break-up | : | 106/2 | |
| 4. | Village in which situated | : | Paganatham | |
| 5. | Taluk in which situated | : | Karur | |
| 6. | District in which situated | : | Karur | |
| 7. | Extent of quarry (in ha.) | : | 0.91.0 Ha | |
| 8. | Latitude & Longitude of all corners of the quarry site | : | 10°51'43.32"N to 10°51'47.35"N 78°2'34.93"E to 78° 2'38.14"E | |
| 9. | Topo Sheet No. | : | 58J/1 | |
| 10. | Type of mining | : | Opencast semi Mechanized Mining | |
| 11. | Life of Project | : | 5 Years | |
| | Lease Period | : | 5 Years | |
| | Mining Plan Period | : | 5 Years | |
| 12. | Mining Plan Details | : | As per approved Mining Plan | |
| | Geological Resources m ³ | : | Ordinary Stone | Gravel |
| | | | 43,044 | - |
| | Minal Resources m ³ | : | Ordinary Stone | Gravel |
| | | | 24,008 | 1574 |
| Annual Peak Production in m ³ | : | Ordinary Stone | Gravel | |
| | | 4629 | 825 | |
| Depth in meters | : | 24m BGL | | |
| 13. | Depth of water table | : | 44m BGL | |
| 14. | Man Power requirement per day: | : | 18 Employees | |
| 15. | Water requirement: | : | 5.0 KLD | |
| | | | 1.5 KLD | |


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| | | | | | |
|-----|-----------------------------------------------------------------------------------------------------------|---|--------------------------------------------|-------------------------------------------------|--------|
| | 1. Drinking water & Utilized water 2. Dust suppression 3. Green belt | | 3.0 KLD 0.5 KLD | | |
| 16. | Power requirement | | TNEB - | | |
| 17. | Precise area communication approved by the Assistant Director, Department of Geology and Mining with date | : | Rc.No.290/Mines/2021 Dated 26.08.2022 | | |
| 18. | Mining Plan approved by Deputy Director, Department of Geology and Mining with date | : | Rc.No. 290/Mines/2021 Dated 25.10.2022 | | |
| 19. | 500mts letter approved by the Deputy Director, Department of Geology and Mining with date | | Roc. No. 290/Mines/2021, dated 02.12.2022. | | |
| 20. | VAO Certificate Regarding Structures within 300m Radius | | Letter dated:18.12.2022 | | |
| 21. | Project Cost (excluding EMP cost) | : | Rs. 75 Lakhs | | |
| 22. | EC Recommendation | : | Validity | 30 years subject to the following upper limits. | |
| | | | | Ordinary Stone | Gravel |
| | | : | Max Total in m ³ | 22808 | 1574 |
| | | : | Annual Max in m ³ | 4629 | 825 |
| | | : | Max Depth in mtrs | 24m BGL | |
| 23. | EMP cost (in Rs. Lakh). | : | Rs.40.49 Lakhs | | |
| 24. | CER cost (in Rs. Lakh). | : | Rs.5 Lakhs | | |

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for the production vide row 22 in the table above**, subject to the standard conditions & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:


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1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
3. 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.
4. The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
5. The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
6. The PP shall submit the action plan for carrying out the quarrying operations from the top portion to downwards in the hilly / outcrop portion by maintaining the benches of adequate geometry with proper haul road to the DEE/TNPCB before obtaining the CTO after having approved by the AD (Mines).
7. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
8. 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.

9. The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
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 should be adopted by considering the wind direction.
11. The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
12. The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
13. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
14. Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
15. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
16. 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.
17. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant

species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.

18. 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.
19. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
20. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
21. The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
22. If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
23. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack


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hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.

24. As the ultimate depth in this case exceeded 40m, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
25. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
26. 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.
27. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
28. 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.
29. 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.

30. 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.
31. 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.
32. 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.
33. 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.
34. 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.
35. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
36. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have


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been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

37. 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.

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

39. As accepted by the Project proponent the CER cost is Rs.5,00,000 lakhs and the amount shall be spent for the Government School, Paganatham Village as committed, before obtaining CTO from TNPCB.

Agenda No: 375-10

File No.9843/2023

Online No: SIA/TN/MIN/ 417545/2023, Dt.13.02.2023

Proposed Rough Stone quarry lease area over an extent of Extent 0.78.0 Ha in SF.No. 83/ (P-1A) at Kondayampatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu by Thiru N.Sundarbabu- For Environmental Clearance .

The SEAC noted the following:

1. The project proponent, Thiru N.Sundarbabu has applied for Environmental Clearance for the proposed Rough Stone quarry lease area over an extent of Extent 0.78.0 Ha in SF.No. 83/(P-1A) of Kondayampatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu. It is a Govt. Promboke land.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. The production for 5 years should not to exceed 46619m³ of Rough stone with an ultimate depth of mining 66m (21m AGL + 45 BGL). The Annual peak production as per mining plan is 15301m³ of rough stone (2nd year).

Earlier, the proposal was placed for appraisal in 263rd meeting of SEAC held on 9.4.2022.


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Based on the presentation and documents furnished by the project proponent, SEAC noted that in G.O(MS) No. 295 dated 03.11.2021 the Government in Industries Department has notified the following Rules specifying certain conditions for permitting mining activities near ecologically sensitive areas.

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

The Committee noted that the Veguthumalai Reserve Forest is located within a distance of 1 km from this project site and the proposal is, therefore, hit by the above G.O. The Committee, therefore, decided not to recommend the proposal.

Now the proposal was placed in the 375th SEAC Meeting held on 04.05.2023. As per the G.O. (Ms.) No. 243 industries, Investment promotion and Commerce (MMC.1) Department dated 14.12.2022, Amendment to the Tamil Nadu Minor Mineral Concession Rules, 1959 as follows,

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

The proposal is near the Veguthumalai Reserve Forest based on the above said G.O. The Proponent has resubmitted the same proposal on 30.01.2023 with all necessary supporting documents in order to obtain Environmental Clearance.

| | | | |
|---------|------------------------------------------------------------------------------------------|----------|------|
| File No | New File:9843/2023 Dated: 23.02.2023 Online No: SIA/TN/MIN/ 417545/2023,Dt.13.02.2023 | Category | 1(a) |
| | Old File No: 8653/2021 Online No : SIA/TN/MIN/218486/2021 Dt.07.07.2021) | | B2 |
| Sl. No | Salient Features of the Proposal | | |


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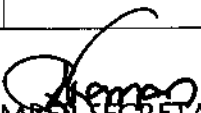
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|-------------------------|-----------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------|---------------|
| 1. | Name of the Owner/Firm | : | Thiru.N.Sundarbabu S/o Neppoliyan, Vishal Nagar, Pasingapuram, podumbu, Madurai District | |
| 2. | Type of quarrying (Ordinary Stone/Sand/Granite/Limestone) | : | Rough Stone | |
| 3. | S.F Nos. of the quarry site with area break-up | : | 83/(P-1A) | |
| 4. | Village in which situated | : | Kondayampatti | |
| 5. | Taluk in which situated | : | Vadipatti | |
| 6. | District in which situated | : | Madurai | |
| 7. | Extent of quarry (in ha.) | : | 0.78.0 Ha | |
| 8. | Latitude & Longitude of all corners of the quarry site | : | 10°03'22.45"N to 10°03'26.65"N 78°00'57.88" E to 78°01'01.97"E | |
| 9. | Topo Sheet No. | : | 58J/4 | |
| 10. | Type of mining | : | Opencast semi Mechanized Mining | |
| 11. | Life of Project | : | 5 Years | |
| | Lease Period | : | 5 Years | |
| | Mining Plan Period | : | 5 Years | |
| 12. | Mining Plan Details | : | As per approved Mining Plan | |
| | Geological Resources m ³ | : | Rough Stone | Gravel |
| | | | 120810 | - |
| | Movable Resources m ³ | : | Rough Stone | Gravel |
| | | | 46619 | - |
| | Annual Peak Production in m ³ | : | Rough Stone | Gravel |
| 15301 | | | - | |
| Maximum Depth in meters | : | 66m (21m AGL + 45 BGL) | | |

| | | | | | |
|-----|-----------------------------------------------------------------------------------------------------------|-------|------------------------------------------|-------------------------------------------------|--------|
| 13. | Depth of water table | : | 55m BGL | | |
| 14. | Man Power requirement per day: | : | 16 Employees | | |
| 15. | Water requirement: 1. Drinking water & Utilized water 2. Dust suppression 3. Green belt | : | 4.0 KLD 1.0 KLD 1.5 KLD 1.5 KLD | | |
| 16. | Power requirement | : | TNEB - | | |
| 17. | Precise area communication approved by the Assistant Director, Department of Geology and Mining with date | : | Roc.No.60/2021-Mines dated 05.02.2021 | | |
| 18. | Mining Plan approved by Assistant Director, Department of Geology and Mining with date | : | Roc.No.60/Mines/2021 dated 03.05.2021 | | |
| 19. | 500mts letter approved by the Assistant Director, Department of Geology and Mining with date | : | Roc.No.60/Mines/2021 dated 21.05.2021 | | |
| 20. | VAO Certificate Regarding Structures within 300m Radius | : | Not Submitted | | |
| 21. | Project Cost (excluding EMP cost) | : | Rs. 76.20 Lakhs | | |
| 22. | EC Recommendation | : | Validity | 30 years subject to the following upper limits. | |
| | | | | Rough Stone | Gravel |
| | | | : | Max Total in m ³ | 46619 |
| : | Annual Max in m ³ | 15301 | - | | |


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| | | : | Max Depth in mtrs | 66m (21m AGL + 45 BGL) |
| 23. | EMP cost (in Rs. Lakh). | : | Rs.40 Lakhs | |
| 24. | CER cost (in Rs. Lakh). | : | Rs.5 Lakhs | |

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for the quantities, vide table above row 22**, to the standard conditions & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
3. 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.
4. The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
5. The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
6. The PP shall submit the action plan for carrying out the quarrying operations from the top portion to downwards in the hilly / outcrop portion by

- maintaining the benches of adequate geometry with proper haul road to the DEE/TNPCB before obtaining the CTO after having approved by the AD (Mines).
7. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
 8. 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.
 9. The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
 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 should be adopted by considering the wind direction.
 11. The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
 12. The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
 13. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
 14. Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
 15. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate


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noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.

16. 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.
17. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
18. 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.
19. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
20. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
21. The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.


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22. If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
23. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
24. As the ultimate depth in this case exceeded 40m, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
25. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
26. 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.
27. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
28. 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.

29. 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.
30. 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.
31. 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.
32. 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 (TNPCCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
33. 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.
34. 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.
35. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

36. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
37. 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.
38. The PP shall ensure that the following provisions are provided due to the existence of Reserved Forest/Reserve Land at a distance of less than 1km from the project site:
- i. Since the R.F is located very close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in two rows) along the boundary of the mine lease area before obtaining the CTO from the TNPCB.
 - ii. The proponent shall construct and maintain proper fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forest before the commencement of the operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
 - iii. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate dumps positioned in opposite direction to the location of the reserved forest.
 - iv. The PP shall ensure that such waste/reject dumps shall be properly secured to prevent escape of material there from in harmful quantities which may cause degradation of environment and to prevent causation of floods.
 - v. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.


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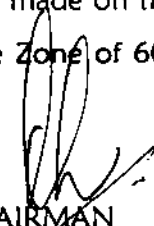
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- vi. The PP shall take necessary steps that wherever possible, the waste rock, overburden etc. shall be back-filled into the mine excavations with a view to restoring the land to its original use as far as possible.
- vii. Wherever back-filling of waste rock in the area excavated during mining operations is not feasible, the PP shall take adequate steps in discussion with the concerned DFO to suitably terrace the waste dumps placed within the lease hold area ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
- viii. The PP shall carry out the scientific investigations in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.
- ix. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.
- x. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying operations within 'Permissible Limits' specified under the environmental laws.
- xi. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.
- xii. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry out the quarrying on steep hill slopes with a gradient of 20° or more / areas with a high degree of erosion on forestland.
- xiii. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco- sensitive Zone of 60 m


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without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.

- xiv. The PP shall not use plastic carry bags within the quarry area.
- xv. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free from blockage for runoff disposals. This run off from the road side drainage shall relate to the natural drainage system in the area.

39. 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.

40. 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.

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

42. As accepted by the Project proponent the CER cost is Rs.5,00,000 lakhs and the amount shall be spent for the Government High School, Kondayampatti Village as committed, before obtaining CTO from TNPCB.

Agenda No: 375 -11

File No: 9850/2023

Proposed Rough Stone & Gravel quarry over an extent of 2.98.0 Ha in SF.No. 375/2 (P) at Akkalampatty Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu by M/s. Maharaja Blue Metals - For Environmental Clearance. (SIA/TN/MIN/418754/2023, Dt.17.02.2023)

The proposal was placed in the 375th SEAC Meeting held on 04.05.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

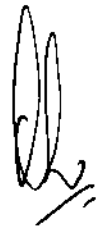
The SEAC noted the following:

1. The Project Proponent, M/s. Maharaja Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry over an extent of 2.98.0 Ha in SF.No. 375/2(P) of Akkalampatty Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu.


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2. The project/activity is covered under Category "B2" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 10 years. The mining plan is for the period of five years & the production should not exceed 5,31,018m³ of Rough Stone & 47,536m³ of Gravel for with an ultimate depth of mining is 50m BGL.The annual peak production is 60,250m³ of Rough Stone (4th year) & 20,880m³ of Gravel (3rd year).

| File No | 9850/2023 Dated: 23.02.2023 | | Category | 1(a) |
|-----------------------------------|-----------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------|--------|
| | Online No: SIA/TN/MIN/418754/2023, Dt.17.02.2023 | | | B2 |
| Sl. No | Salient Features of the Proposal | | | |
| 1. | Name of the Owner/Firm | : | M/s. Maharaja Blue Metals D.No: 3/60-1, Kottampatty, Akkalampatty Post, Tiruchengode Taluk, Namakkal District | |
| 2. | Type of quarrying (Ordinary Stone/Sand/Granite/Limestone) | : | Rough Stone & Gravel | |
| 3. | S.F Nos. of the quarry site with area break-up | : | 375/2 (P) | |
| 4. | Village in which situated | : | Akkalampatty | |
| 5. | Taluk in which situated | : | Tiruchengode | |
| 6. | District in which situated | : | Namakkal | |
| 7. | Extent of quarry (in ha.) | : | 2.98.0 Ha | |
| 8. | Latitude & Longitude of all corners of the quarry site | : | 11°18'52.91"N to 11°19'00.79"N 78°04'03.22" E to 78°04'08.59"E | |
| 9. | Topo Sheet No. | : | 58- I/03 | |
| 10. | Type of mining | : | Opencast Mechanized Mining | |
| 11. | Life of Project | : | 10 Years | |
| | Lease Period | : | 10 Years | |
| | Mining Plan Period | : | 10 Years | |
| 12. | Mining Plan Details | : | As per approved Mining Plan | |
| | Geological Resources m ³ | : | Rough Stone | Gravel |
| | | | 14,30,400 | 59,600 |
| Mineable Resources m ³ | : | Rough Stone | Gravel | |

| | | | | |
|-----|-----------------------------------------------------------------------------------------------------------|---|-------------------------------------------------|--------------------------------------------------------|
| | | | 5,31,018 | 47,536 |
| | Annual Peak Production in m ³ | : | Rough Stone | Gravel |
| | | | 60,250 | 20,880 |
| | Maximum Depth in meters | : | 50m BGL | |
| 13. | Depth of water table | : | 73m - 68m BGL | |
| 14. | Man Power requirement per day: | : | 30 Employees | |
| 15. | Water requirement: 1. Drinking water & Utilized water 2. Dust suppression 3. Green belt | : | 2.0 KLD 0.3 KLD 1.0 KLD 0.7 KLD | |
| 16. | Power requirement | : | TNEB 224800 Litres of HSD Diesel | |
| 17. | Precise area communication approved by the Assistant Director, Department of Geology and Mining with date | : | Roc.No.324/Mines/2022 dated:10.01.2023 | |
| 18. | Mining Plan approved by Assistant Director, Department of Geology and Mining with date | : | Roc.No.324/Mines/2022 dated:30.01.2023 | |
| 19. | 500mts letter approved by the Assistant Director, Department of Geology and Mining with date | : | Roc.No.324/Mines/2022 dated:01.02.2023 | |
| 20. | VAO Certificate Regarding Structures within 300m Radius | : | Letter dated:30.01.2023 | |
| 21. | Project Cost (excluding EMP cost) | : | Rs. 81.73 Lakhs | |
| 22. | EC Recommendation | : | Validity | 30 years subject to the following upper limits. |
| | | | | Rough Stone Gravel |
| | | : | Max Total in m ³ | 5,31,018 47,536 |
| | | : | Annual Max in m ³ | 60250 20880 |
| | | : | Ultimate Depth in mtrs | 50m BGL |


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| 23. | EMP cost (in Rs. Lakh). | : | Rs.394.59 Lakhs |
| 24. | CER cost (in Rs. Lakh). | : | Rs.5 Lakhs |

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantities, vide table above row 22, to the standard conditions & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
3. 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.
4. The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
5. The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
6. The PP shall submit the action plan for carrying out the quarrying operations from the top portion to downwards in the hilly / outcrop portion by maintaining the benches of adequate geometry with proper haul road to the


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DEE/TNPCB before obtaining the CTO after having approved by the AD (Mines).

7. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
8. 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.
9. The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
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 should be adopted by considering the wind direction.
11. The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
12. The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
13. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
14. Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
15. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.


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16. 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.
17. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
18. 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.
19. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
20. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
21. The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
22. If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.


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23. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
24. As the ultimate depth in this case exceeded 40m, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
25. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
26. 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.
27. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
28. 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


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- stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
29. 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.
30. 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.
31. 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.
32. 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 (TNPCCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
33. 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.
34. 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.
35. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

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

37. 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.

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

39. As accepted by the Project proponent the CER cost is Rs.5,00,000 lakhs and the amount shall be spent for the Panchayat Union Primary School, Periya manali Village as committed, before obtaining CTO from TNPCB.

Agenda No: 375 -12

File No. ⁹⁸⁶¹9850/2023

Proposed Rough Stone & Gravel quarry over an extent of 3.49.0 Ha in SF.No. 73/4, 76/2, 76/3 & 76/5 at Brammadesam Village, Marakkanam Taluk, Viluppuram District, Tamil Nadu by Thiru.R.Venkatesan - For Environmental Clearance. (SIA/TN/MIN/419767/2023, Dt.24.02.2023)

The proposal was placed in the 375th SEAC Meeting held on 04.05.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

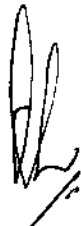
The SEAC noted the following:

1. The Project Proponent, Thiru.R.Venkatesan has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry over an extent of 3.49.0 Ha in SF.No. 73/4, 76/2, 76/3 & 76/5 of Brammadesam Village, Marakkanam Taluk, Viluppuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 10 years. The mining plan is for the period of five years & the production should not exceed 6,33,714m³ of Rough Stone & 74,511m³ of Gravel for with an ultimate depth of mining is 50m BGL. The annual


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peak production is 118845m³ of Rough Stone (4th year) & 58,905m³ of Gravel (1st year).

| | | | | |
|---------|-----------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| File No | 9862 /2023 Dated: 28.02.2023 | | Category | 1(a) |
| | Online No: SIA/TN/MIN/419767/2023,Dt.24.02.2023 | | | B2 |
| Sl. No | Salient Features of the Proposal | | | |
| 1. | Name of the Owner/Firm | : | Thiru. R Venkatesan S/o.Rajagopal, No.198, Kambatham Street, Brammadesam Village, Marakkanam Taluk, Viluppuram District- 604301 | |
| 2. | Type of quarrying (Ordinary Stone/Sand/Granite/Limestone) | : | Rough Stone & Gravel | |
| 3. | S.F Nos. of the quarry site with area break-up | : | 73/4, 76/2, 76/3 & 76/5 | |
| 4. | Village in which situated | : | Brammadesam | |
| 5. | Taluk in which situated | : | Marakkanam | |
| 6. | District in which situated | : | Viluppuram | |
| 7. | Extent of quarry (in ha.) | : | 3.49.0 Ha | |
| 8. | Latitude & Longitude of all corners of the quarry site | : | 12°10'57.67"N to 12°11'5.61"N 79°46'7.27"E to 79°46'15.00"E | |
| 9. | Topo Sheet No. | : | 57 P/16 | |
| 10. | Type of mining | : | Opencast semi Mechanized Mining | |
| 11. | Life of Project | : | 10 Years | |
| | Lease Period | : | 10 Years | |
| | Mining Plan Period | : | 10 Years | |
| 12. | Mining Plan Details | : | As per approved Mining Plan | |
| | Geological Resources m ³ | : | Rough Stone | Gravel |

| | | | | |
|-----|-----------------------------------------------------------------------------------------------------------|---|------------------------------------------------|---------------|
| | | | 1643261 | 104889 |
| | Minable Resources m ³ | : | Rough Stone | Gravel |
| | | | 633714 | 74511 |
| | Annual Peak Production in m ³ | : | Rough Stone | Gravel |
| | | | 118845 | 58905 |
| | Depth in meters | : | 50m BGL | |
| 13. | Depth of water table | : | 65m in summer season - 60m in rainy season BGL | |
| 14. | Man Power requirement per day: | : | 22 Employees | |
| 15. | Water requirement: 1. Drinking water & Utilized water 2. Dust suppression 3. Green belt | : | 5.0 KLD 2.0 KLD 1.5 KLD 1.5 KLD | |
| 16. | Power requirement | : | TNEB - | |
| 17. | Precise area communication approved by the Assistant Director, Department of Geology and Mining with date | : | Rc.No.B/G&M/428/2021 Dated: 20.01.2023 | |
| 18. | Mining Plan approved by Deputy Director, Department of Geology and Mining with date | : | Rc.No.B/G&M/428/2021 Dated: 08.02.2023 | |
| 19. | 500mts letter approved by the Deputy Director, Department of Geology and Mining with date | : | Rc.No.B/G&M/428/2021 Dated: 08.02.2023 | |
| 20. | VAO Certificate Regarding Structures within 300m Radius | : | Letter dated:21.02.2023 | |
| 21. | Project Cost (excluding EMP cost) | : | Rs. 98.71,750 | |


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|-----|-------------------------|---|------------------------------|-------------------------------------------------|--------|
| 22. | EC Recommendation | : | Validity | 30 years subject to the following upper limits. | |
| | | : | | Rough Stone | Gravel |
| | | : | Max Total in m ³ | 633714 | 74511 |
| | | : | Annual Max in m ³ | 118845 | 58905 |
| | | : | Max Depth in mtrs | 50m BGL | |
| 23. | EMP cost (in Rs. Lakh). | : | 336.51 Lakhs | | |
| 24. | CER cost (in Rs. Lakh). | : | Rs.7 Lakhs | | |

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for the quantities, vide table above row 22**, to the standard conditions & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
3. 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.
4. The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
5. The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the

commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.

6. The PP shall submit the action plan for carrying out the quarrying operations from the top portion to downwards in the hilly / outcrop portion by maintaining the benches of adequate geometry with proper haul road to the DEE/TNPCB before obtaining the CTO after having approved by the AD (Mines).
7. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
8. 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.
9. The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
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 should be adopted by considering the wind direction.
11. The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
12. The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
13. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
14. Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out


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- during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
15. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
 16. 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.
 17. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
 18. 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.
 19. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
 20. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.

21. The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
22. If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
23. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
24. As the ultimate depth in this case exceeded 40m, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
25. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
26. 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.
27. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.


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28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. 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.


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35. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
36. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
37. 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.
38. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
39. As accepted by the Project proponent the CER cost is Rs.7,00,000 lakhs and the amount shall be spent for the Government Higher Secondary School, Brammadesam Village as committed, before obtaining CTO from TNPCB.

Agenda No: 375- 13

(File No: 9837/2023)

Proposed Rough Stone & Gravel Quarry lease over an extent of 1.45.0 Ha at S.F.No. 95/B1, B2,B3,B4&B5, Pagantham Village, Karur Taluk, Karur District, Tamil Nadu by Thiru. R.P. Kaliyappan – for Environmental Clearance. (SIA/TN/MIN/415225/2023, dt: 21.3.2023)

The proposal was placed in 375th SEAC meeting held on 04.05.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. R.P. Kaliyappan has applied for Environmental Clearance for the Proposed Rough Stone & Gravel Quarry lease over an extent of 1.45.0 Ha at S.F.No. 95/B1, B2,B3,B4&B5, Pagantham Village, Karur Taluk, Karur District, Tamil Nadu.


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2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. The production for 5 years not to exceed 40854m³ of Rough stone & 14910 m³ Gravel to an ultimate depth of Mining 18m BGL.
4. The pp has obtained CCR from MoEF & CC.

| File No | 9837 / 2023 | | Category | B2 | | |
|---------|-----------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------|--------|
| Sl. No | Salient Features of the Proposal | | | | | |
| 1. | Name of the Owner/Firm | : | Thiru. R.P. Kaliyappan, S/o. Palaniyappagoundar, Periyarengapalaiyam, Punnam Village, Manmangalam Taluk, Karur District - 639 136. | | | |
| 2. | Type of quarrying (Ordinary Stone/Sand/Granite/Limestone) | : | Ordinary Stone and Gravel | | | |
| 3. | S.F Nos. of the quarry site with area break-up | : | 95/B1, B2, B3, B4 & B5 | | | |
| 4. | Village in which situated | : | Paganatham | | | |
| 5. | Taluk in which situated | : | Karur | | | |
| 6. | District in which situated | : | Karur | | | |
| 7. | Extent of quarry (in ha.) | : | 1.45.0 | | | |
| 8. | Latitude & Longitude of all corners of the quarry site | : | 10°51'36.73"N to 10°51'44.32"N 78°2'24.15"E to 78°2'26.98"E | | | |
| 9. | Topo Sheet No. | : | 58-J/1 | | | |
| 10. | Type of mining | : | Opencast Mechanized Mining | | | |
| 11. | Life of Project | : | 5 years | | | |
| | Lease Period | : | 5 years | | | |
| | Mining Plan Period | : | 5 years | | | |
| 12. | Mining Plan Details | : | As per approved Mining Plan | | As modified by SEAC | |
| | Geological Resources m ³ (RoM) | : | Ordinary Stone | Gravel | Ordinary Stone | Gravel |
| | | | 1,38,646 m ³ | - | 1,38,646 m ³ | - |


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|-----|------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------|-------------------------------------------------|-----------------------|-----------------------|
| | Minable Resources m ³ (RoM) | : | Ordinary Stone | Gravel | Ordinary Stone | Gravel |
| | | : | 68,842 m ³ | 14,910 m ³ | 68,842 m ³ | 14,910 m ³ |
| | Annual Peak Production in m ³ | : | Ordinary Stone | Gravel | Ordinary Stone | Gravel |
| | | : | 8808 m ³ | - | 8808 m ³ | - |
| | Depth in meters | : | 18m bgl | | 18m bgl | |
| 13. | Depth of water table | : | 35m bgl | | | |
| 14. | Man Power requirement per day: | : | 17 Nos. | | | |
| 15. | Water requirement: 4. Drinking water 5. Utilized water 6. Dust suppression 7. Green belt | : | 3.5 KLD 0.3 KLD 0.7 KLD 1.0 KLD 1.5 KLD | | | |
| 16. | Power requirement | : | TNEB | | | |
| 17. | Precise area communication approved by the Department of G&M. | : | Na.Ka.No.289/Kanimam/2021, Dated 26.08.2022 | | | |
| 18. | Mining Plan approved by Department of G&M. | : | Rc.No.289/Mines/2021, Dated: 17.11.2022 | | | |
| 19. | Department of G&M, Deputy Director 500m Cluster Letter | : | Rc.No.289/Mines/2021, Dated: 15.12.2022 | | | |
| 20. | VAO Certificate Regarding Structures within 300m Radius | : | Letter dated 18.12.2022 | | | |
| 21. | Project Cost (excluding EMP cost) | : | Rs. 20 lakhs | | | |
| 22. | EC Recommendation | : | Validity | 30 years subject to the following upper limits. | | |
| | | : | | Ordinary Stone | Gravel | |
| | | : | Max Total RoM in m ³ Production in m ³ | 43004 m ³ 40854 m ³ | 14910 m ³ | |
| | | : | Annual Max RoM in m ³ | 8808 m ³ | - | |
| : | Max Depth in mtrs | 18m bgl | | | | |

| | | | |
|-----|-------------------------|---|-----------------|
| 23. | EMP cost (in Rs. Lakh). | : | Rs. 46.31 lakhs |
| 24. | CER cost (in Rs. Lakh). | : | Rs. 5 lakhs |

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production for 5 years not to exceed 40854m³ of Rough stone & 14910 m³ Gravel. The annual peak production 8808 m³ of Rough stone (1st year) & 9300 m³ of Gravel 2nd year with an ultimate depth of Mining 18m 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 send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural

stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.

- 7) The proponent shall 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.
- 8) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 9) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 10) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 11) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 12) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 13) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 14) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 15) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.


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- 16) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 17) 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.
- 18) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 19) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 20) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 21) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 22) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the

boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.

- 23)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.
- 24)The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.
- 25)Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 26)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.
- 27)The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 28)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.
- 29)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.


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- 30) 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.
- 31) 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.
- 32) 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.
- 33) 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.
- 34) 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.
- 35) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 36) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be

included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

37)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.

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

39)As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for Government school in Paganatham Village as committed, before obtaining CTO from TNPCB.

Agenda No. 375-14

File No. 9863/2023

Proposed construction of residential development at S.F. No: 733/4, Veeriyamapalayam Road, Kalapatti Village, Coimbatore North Taluk, Coimbatore District, Tamilnadu by M/s Infinium Developers LLP – for Environmental Clearance. (SIA/TN/INFRA2/418496/2023, dt: 16.2.2023)

The proposal was placed in 375th SEAC meeting held on 04.05.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -

1. The environmental clearance is sought for Construction Project at S.F. No: 733/4, Veeriyamapalayam Road, Kalapatti Village, Coimbatore North Taluk, Coimbatore District, Tamilnadu by the PP M/s Infinium Developers LLP.
2. M/s Eco Tech Labs Pvt Ltd is the EIA Consultant for the project.
3. Total plot area of the project is 8579.31 m² and built-up area is 25246.28 m² respectively.
4. Maximum number of floors will be Basement Floor + Stilt Floor + 9 Floors, Club House, Swimming Pool and Services and maximum height of the building will be 42 m.
5. Total Saleable DU's (dwelling units) is 216.
6. Salient features of the project as submitted by the project proponent:

| PROJECT SUMMARY | | | |
|-----------------|-------------|----------------|------|
| Sl. No. | Description | Total Quantity | Unit |


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| GENERAL | | | |
|---------|------------------------------------------------------------|-------------------------------------------------------------------------------------------|------|
| 1 | Plot Area | 8579.31 | SQMT |
| 2 | Proposed Built Up Area | 25246.28 | SQMT |
| 3 | Total no of Saleable DU's/Villas | 216 | No. |
| 4 | Max Height - (Height of tallest block) | 422 | M |
| 5 | No of Building Blocks (Residential + Community facilities) | Block 1 – Basement Floor + Stilt Floor + 9 Floors, Club House, Swimming Pool and Services | |
| 6 | Max No of Floors | 9 | No. |
| 7 | Expected Population (1161 Residential + 128 Floating) | 1289 | No. |
| 8 | Total Cost of Project | Rs. 44.31 | CR |
| 9 | Project Activity : | Proposed Construction of Residential Development | |
| AREAS | | | |
| 10 | Permissible Ground Coverage Area (50%) | 4289.65 | SQMT |
| 11 | Proposed Ground Coverage Area (28.3%) | 2423.92 | SQMT |
| 12 | Permissible FSI Area | 27882.75 | SQMT |
| 13 | Proposed FSI Area | 22738.62 | SQMT |
| 14 | Other Non FSI Areas - including basement area etc. | 2507.66 | SQMT |
| 15 | Proposed Total Built Up Area | 25246.28 | SQMT |
| WATER | | | |
| 16 | Total Water Requirement | 170 | KLD |
| 17 | Fresh water requirement | 109 | KLD |
| 18 | Treated Water Requirement | 61 | KLD |
| 19 | Wastewater Generation | 149 | KLD |
| 20 | Proposed Capacity of STP | 153 | KLD |
| 21 | Treated Water Available for Reuse | 142 | KLD |

| | | | |
|-------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------|
| 22 | Treated Water Recycled | 61 | KLD |
| 23 | Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any | 81 | KLD |
| RAINWATER HARVESTING | | | |
| 24 | Rainwater Harvesting - Recharge Pits | 72 | No. |
| 25 | Rainwater Harvesting Sump Capacity | 40 | M ³ |
| PARKING | | | |
| 25 | Total Parking Required as / Building Bye Laws | 193 | ECS |
| 26 | Proposed Total Parking | 200 | ECS |
| 27 | Parking in Basements | Nil | ECS |
| GREEN AREA | | | |
| 28 | Proposed Green Area (Minimum 15.0% of plot area) | 1286.89 | SQMT |
| | Total area | 8579.31 | sqmt |
| | Existing trees on plot | - | |
| | Number of trees to be planted | 200 Nos | |
| | Number of trees to be transplanted/cut | - | |
| SOLID WASTE MANAGEMENT | | | |
| 29 | Total Solid Waste Generation | 606 | KG/DAY |
| 30 | Organic waste | 242 | KG/DAY |
| 31 | Mode of Treatment & Disposal | Will be treated in Organic Waste Converter and used as manure for gardening | TPD |
| 32 | Quantity of Sludge Generated from STP & Disposal | 21 kg/day and will be used as manure for greenbelt development | KG/DAY |


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| | | | |
|----------------------------|---------------------------------------------------|------------------------------------------------------------|--------|
| 33 | Quantity of E-Waste Generation & Disposal | 0.5 T/Year will be disposed through authorized recyclers | T/Year |
| 34 | Quantity of Hazardous waste Generation & Disposal | Used Oil from DG sets will be sold to authorized recyclers | LPD |
| POWER / GREEN POWER | | | |
| 34 | Total Power Requirement | 1773 | KVA |
| 35 | DG set backup | 1 No. of 320 KVA 1 No. of 180 KVA | KVA |
| 36 | No of DG Sets | 1 No. of 320 KVA 1 No. of 180 KVA | No. |
| 37 | Solar Panels – Roof Coverage | 50 | % |
| 38 | Hot Water Requirement | | |
| | Of which met by Solar Panels | 3.2 | KLD |

Population details:

| POPULATION | | | |
|------------------------------|-------------------------|--------|------------------|
| | | | |
| Residential | DU'S | POP/DU | TOTAL POPULATION |
| Total Saleable Du's | 135 | 5 | 675 |
| Total | 81 | 6 | 486 |
| Non Residential | | | |
| CLUB house (Employees etc.) | Area | | |
| Club | | | |
| Commercial | | | |
| Facility Management Staff | 1% of total population | 12 | 12 |
| Total | | | |
| Visitors | 10% of total population | 116 | 116 |

| | | | |
|---------------------|--|-------------------------------|------|
| Residential | | xx% of Residential Population | |
| Club/Community Hall | | xx% of Residential Population | |
| Commercial | | | |
| Total Visitors | | | |
| Total Population | | | 1289 |

7. The project proposal falls under Category-8(a) of EIA Notification, 2006 (as amended).

RECOMMENDATION OF THE COMMITTEE

The Committee discussed the matter and recommended grant of environmental clearance for the project proposal as above along with standard environmental clearance conditions prescribed by MoEF&CC, Gol and following additional conditions:

Additional Conditions:

1. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
2. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
3. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area. (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.


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

Standard Environmental Clearance Conditions prescribed by MoEF&CC:

1. Statutory Compliance:


1. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.



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2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc as per National Building Code including protection measures from lightning etc.
 3. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for nonforest purpose involved in the project.
 4. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
 5. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
 6. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
 7. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
 8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department and Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
 9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
 10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
2. Air quality monitoring and preservation:
1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
 2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.

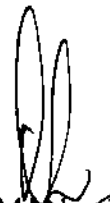

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3. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 andPM25) covering upwind and downwind directions during the construction period.
4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
5. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
6. Wet jet shall be provided for grinding and stone cutting.
7. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
8. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
9. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.
10. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
11. For indoor air quality the ventilation provisions as per National Building Code of India.

3. Water Quality Monitoring and Preservation:


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1. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.
2. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
3. Total freshwater use shall not exceed the proposed requirement as provided in the project details.
4. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
6. At least 20% of the open spaces as required by the local building byelaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation car washing, thermal cooling, conditioning etc. shall be done.
8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
9. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.


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10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
11. The local bye-law provisions on rainwater harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rainwater harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
12. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rainwater should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
13. All recharges should be limited to shallow aquifer.
14. No ground water shall be used during construction phase of the project.
15. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
16. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
17. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, not related water shall be disposed into municipal drain.
18. No sewage or untreated effluent water would be discharged through storm water drains.
19. Onsite sewage treatment of capacity of treating 100% wastewater to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated wastewater shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess

treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.

20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odor problem from STP.
21. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Centre Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

4. Noise Monitoring Measures:

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

5. Energy Conservation Measures:

1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
2. Outdoor and common area lighting shall be LED.
3. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.


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4. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
5. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building byelaws requirement, whichever is higher.
6. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building byelaws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

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


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7. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended from time to time. Ready mixed concrete must be used in building construction.
9. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

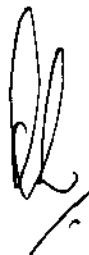
7. Green Building

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


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

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

- [REDACTED]
1. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.


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

10. Corporate Environment Responsibility

1. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of sixmonthly report.
3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to


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be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Half Yearly Compliance Report (HYCR).

1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in Tamil language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
6. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
7. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
8. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
9. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
10. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

12. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
13. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
14. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
15. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
16. As accepted by the Project proponent the CER cost is Rs. 40 lakhs and the amount shall be spent for the committed activities, before obtaining CTO from TNPCB.

Agenda No: 375- 15

(File No: 9838/2023)

Proposed Rough Stone & Gravel Quarry lease over an extent of 2.15.0Ha S.F.No.538 (Part), Thennilai East Village, Pugalur Taluk, Karur District by M/s. Sri Balamali Murugan Blue Metals – for Environmental Clearance.(SIA/TN/MIN/414121/2023, dt: 18.02.2023)

The proposal was placed in 375th SEAC meeting held on 04.05.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Sri Balamali Murugan Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone & Gravel Quarry lease over an extent of 2.15.0Ha S.F.No.538 (Part), Thennilai East Village, Pugalur Taluk, Karur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication is issued for the period of 5Years. The approved mining plan is for the period of five years & production should not exceed


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213101m³ of Rough Stone & 16m³ of Gravel. The depth of mining is 60m BGL.

| File No | 9838/2023 | | Category | "B2" |
|---------------|---------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------|------|
| | Online Proposal: SIA/TN/MIN/414121/2023, dt: 18.02.2023 | | | EC |
| Sl. No | Salient Features of the Proposal | | | |
| 1. | Name of the Owner/Firm | : | M/s.Sri Balamalai Murugan Blue Metals, Vadapalani Kovil, Thennilai East Village, Pugalur Taluk, Karur District - 639206 | |
| 2. | Type of quarrying (Ordinary Stone/Sand/Granite/Limestone) | : | Rough Stone & Gravel | |
| 3. | S.F Nos. of the quarry site with area break-up | : | 538 (Part) | |
| 4. | Village in which situated | : | Thennilai East | |
| 5. | Taluk in which situated | : | Pugalur | |
| 6. | District in which situated | : | Karur | |
| 7. | Extent of quarry (in ha.) | : | 2.15.0Ha | |
| 8. | Latitude & Longitude of all corners of the quarry site | : | 10°59'18.65"N to 10°59'23.97"N 77°51'17.65"E to 77°51'22.87"E | |
| 9. | Topo Sheet No. | : | 58- F/13 | |
| 10. | Type of mining | : | Opencast Semi Mechanized of Mining | |
| 11. | Life of Project | : | 5 Years | |
| | Lease Period | : | 5 Years | |
| | Mining Plan Period | : | 5 Years | |
| 12. | Mining Plan Details | : | As per approved Mining Plan | |

| | | | | |
|-----|------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------|------------------------------|
| | Geological Resources m ³ (RoM) | : | Rough Stone 848131 m ³ | Gravel 240 m ³ |
| | Minable Resources m ³ (RoM) | : | Rough Stone 213101 m ³ | Gravel 16 m ³ |
| | Annual Peak Production in m ³ | : | Rough Stone 44661 m ³ | Gravel 16 m ³ |
| | Maximum Depth in meters | | 60m. | |
| 13. | Depth of water table | : | 60m-65m BGL | |
| 14. | Man Power requirement per day: | : | 14 Nos. | |
| 15. | Water requirement: 5. Drinking water 6. Utilized water 7. Dust suppression 8. Green belt | : | 3.5 KLD 0.5 KLD 1.5 KLD 1.0 KLD 0.5 KLD | |
| 16. | Power requirement | | | |
| 17. | Precise area communication approved by the Department of G&M. | : | Rc.No.608/Kanimam/2020, dt: 28.11.2022 | |
| 18. | Mining Plan approved by Department of G&M. | : | Rc.No.608/Mines/2020, dt: 12.12.2022 | |
| 19. | Department of G&M, Deputy Director 500m Cluster Letter | | Rc.No.608/Mines/2020, dt: 13.12.2022 | |
| 20. | VAO Certificate Regarding Structures within 300m Radius | | Letter dt: 30.01.2023 | |


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| 21. | Project Cost (excluding EMP cost) | : | Rs.56.50 Lakhs |
| 22. | EMP cost (in Rs. Lakh). | : | Rs.128.673 Lakhs/ 5 Years |
| 23. | CER cost (in Rs. Lakh). | : | Rs.6.3 Lakhs |

SEAC noted that the project proponent (Tvl. Sri Balamalai Murugan Blue Metals) has already obtained Terms of Reference with Public Hearing vide Lr. No.SEIAA-TN/F.No.8828/SEAC/ToR-1098/2021 Dated:21.03.2022 for the proposed Rough stone and Gravel for over an extent of 4.18.0 ha of Patta land in S.F.No.538 of Thennilai (East) Village, Pugalur Taluk, Karur District, Tamil Nadu.

Based on the presentation made by the project proponent, it was observed that the EIA Coordinator and the PP has not disclosed the history of the previous application seeking TOR vide F.No.8828 / Proposal No. - 68107/2021 that they have obtained Terms of Reference with Public Hearing for the proposed Rough stone and Gravel for over an extent of 4.18.0 ha of Patta land in S.F.No.538 of Thennilai (East) Village, Pugalur Taluk, Karur District. But now the PP has filed new application vide file No. 9838/ Proposal No. 414121/2023 with reduced extent of mining lease area of 2.15.0 Ha with revised mandatory documents with the intention to avoid public hearing.

In view of the above, SEAC has decided to call for explanation from PP and EIA Coordinator for not disclosing the history of the previous application (F.No.8828 – Proposal No. - 68107/2021).

Agenda No: 375-16

(File No: 9845/2023)

Proposed Rough Stone Quarry lease over an extent of 0.40.50Ha S.F.No.388/1, Melkaraipatti Village, Palani Taluk, Dindigul District by Thiru.Vinjaimanosai – for Environmental Clearance. (SIA/TN/MIN/418837/2023, dt: 21.02.2023)

The proposal was placed in 375th SEAC meeting held on 04.05.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.Vinjaimanosai has applied for Environmental Clearance for the Proposed Rough Stone Quarry lease over an extent of 0.40.50Ha S.F.No.388/1, Melkaraipatti Village, Palani Taluk, Dindigul District,


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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 precise area communication is issued for the period of 5Years. The approved mining plan is for the period of five years & production should not exceed 8400 m³ of Rough Stone, 636 m³ of Weathered Rock & 528 m³ of Topsoil and the annual peak production shall not exceed 1800 m³ of Rough Stone & 479 m³ of Weathered rock. The depth of mining is 12.5m BGL.


| File No | 9845/2023 | Category | 1(a) |
|---------|-----------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------|
| | SIA/TN/MIN/4188 37/2023, dt: 21.02.2023 | | B2 |
| Sl. No | Salient Features of the Proposal | | |
| 1. | Name of the Owner/Firm | : | Thiru.Vinjaimaniosai, S/o.Kanhasamy, No.23, Keel Vadam Pokki theru, Palani Taluk, Dindigul District. |
| 2. | Type of quarrying (Ordinary Stone/Sand/Granite/Limestone) | : | Rough Stone, Weathered Rock & Topsoil |
| 3. | S.F Nos. of the quarry site with area break-up | : | 388/1 |
| 4. | Village in which situated | : | Melkaraipatti |
| 5. | Taluk in which situated | : | Palani |
| 6. | District in which situated | : | Dindigul |
| 7. | Extent of quarry (in ha.) | : | 0.40.50Ha |
| 8. | Latitude & Longitude of all corners of the quarry site | : | 10°37'00.78"N to 10°37'04.36"N 77°27'38.63"E to 77°27'41.31"E |
| 9. | Topo Sheet No. | : | 58- F/06 |
| 10. | Type of mining | : | Opencast Semi Mechanized of Mining |

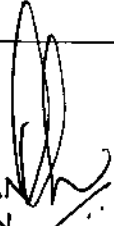
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|-------------------------|------------------------------------------------------------------------------------------------------|------------|--------------------------------------------|---------------------|---------------------|
| 11. | Life of Project | : | 5 Years | | |
| | Lease Period | : | 5 Years | | |
| | Mining Plan Period | : | 5 Years | | |
| 12. | Mining Plan Details | : | As per approved Mining Plan | | |
| | Geological Resources m ³ (RoM) | : | Rough Stone | Weathered Rock | Topsoil |
| | | | 40080 m ³ | 6012 m ³ | 4008 m ³ |
| | Minable Resources m ³ (RoM) | : | Rough Stone | Weathered Rock | Topsoil |
| | | | 8400 m ³ | 636 m ³ | 528 m ³ |
| | Annual Peak Production in m ³ | : | Rough Stone | Weathered Rock | Topsoil |
| 1800 m ³ | | | 479 m ³ | 384 m ³ | |
| Maximum Depth in meters | : | 12.5 m BGL | | | |
| 13. | Depth of water table | : | 58m | | |
| 14. | Man Power requirement per day: | : | 16 Nos. | | |
| 15. | Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt | : | 1.75 KLD 0.75 KLD 0.5 KLD 0.5 KLD | | |
| 16. | Power requirement | : | | | |
| 17. | Precise area communication approved by the Department of G&M. | : | Rc.No.28/Kanimam/2022, dt: 14.10.2022 | | |
| 18. | Mining Plan approved by Department of G&M. | : | Rc.No.28/Mines/2022, dt: 23.12.2022 | | |


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|-----|---------------------------------------------------------------|---|----------------------------------------|---------------------------------------------------|--------------------|
| 19. | Department of G&M, Deputy Director 500m Cluster Letter | | Rc.No.28/Mines/2022, dt: 23.12.2022 | | |
| 20. | VAO Certificate Regarding Structures within 300m Radius | | Letter dt: 07.11.2022 | | |
| 21. | Project Cost (excluding EMP cost) | : | Rs.26.43 Lakh | | |
| 22. | EC Recommendation | : | Validity | 5 years subject to the following upper limits. | |
| | | | | Rough Stone | Weathered Rock |
| | | | Max Total RoM in m ³ | 8400 m ³ | 636 m ³ |
| | | | Annual Max RoM in m ³ | 1800 m ³ | 479 m ³ |
| | | : | Max Depth in mtrs | 12.5 m BGL | |
| 23. | EMP cost (in Rs. Lakh). | : | Rs.21.34895 Lakhs/ 5 Years | | |
| 24. | CER cost (in Rs. Lakh). | : | Rs. 5 Lakhs | | |

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance 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 adhere to shallow depth mild blasting technique using DF (Low energy explosives).
- 3) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.


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- 4) 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.
- 5) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 6) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 7) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8) 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.
- 9) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 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 should be adopted by considering the wind direction.
- 11) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.

- 13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 15) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 16) 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.
- 17) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 18) 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.
- 19) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.


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- 20) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 21) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 22) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 23) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 24) 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.
- 25) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.
- 26) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 27) 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.

- 28)The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 29)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.
- 30) 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.
- 31) 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.
- 32)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.
- 33)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.
- 34)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.


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- 35) 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.
- 36) 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.
- 37) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 38) 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.
- 39) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
- 40) As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the Panchayat Union Primary School, Melkaraipatti Village as committed, before obtaining CTO from TNPCB.

Agenda No: 375-17

(File No: 9857/2023)

Proposed Rough Stone & Gravel Quarry lease over an extent of 1.03.5Ha S.F.No.468/3, Pulimancombai Village, Andipatti Taluk, Theni District by Thiru.P.Santha – for Environmental Clearance.(SIA/TN/MIN/417832/2023, dt: 21.02.2023)

The proposal was placed in 375th SEAC meeting held on 04.05.2023.

The details of the project furnished by the proponent are available in the website


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(parivesh.nic.in).

The SEAC noted the following:

1. Earlier, this proposal vide File No. 8915/2021 (Online 240164/2021 Dt:18.12.2021) was placed in 278th SEAC held on 27.05.2022 and 524th SEAC held on 22.06.2022 and the proposal was not recommended as per G.O Ms No. 295 Dt:03.11.2021/, since Andipatti R.F is located within a distance of 1 Km from this project site. Later, the Tamil Nadu Government Vide G.O Ms No. 243 Dt:14.12.2022 has rescind the prohibition of quarry/ Mining activity within the 1km radius of the Reserve Forest.
2. The Project Proponent, Thiru.P.Santha has applied for Environmental Clearance for the Proposed Rough Stone & Gravel Quarry lease over an extent of 1.03.5Ha S.F.No.468/3, Pulimancombai Village, Andipatti Taluk, Theni District, Tamil Nadu.
3. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
4. The precise area communication is issued for the period of 5Years. The approved mining plan is for the period of five years & production should not exceed 74000m³ of Rough Stone & 11856m³ of Gravel and the annual peak production shall not exceed 15400 m³ of Rough Stone & 5928 m³ of Gravel. The depth of mining is 27m.

| | | | |
|---------|------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------|
| File No | 9857/2023 | Category | 1(a) |
| | SIA/TN/MIN/4178 32/2023, dt: 21.02.2023 | | B2 |
| Sl. No | Salient Features of the Proposal | | |
| 1. | Name of the Owner/Firm | : | Thiru.P.Santha, W/o.Palpandi, No.2/13,Kottodeaipatti, Pulimancombai, Theni District. |
| 2. | Type of quarrying (Ordinary Stone/Sand/Granite/ Limestone) | : | Rough Stone & Gravel |


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| 3. | S.F Nos. of the quarry site with area break-up | : | 468/3 | |
| 4. | Village in which situated | : | Pulimancombai | |
| 5. | Taluk in which situated | : | Andipatti | |
| 6. | District in which situated | : | Theni | |
| 7. | Extent of quarry (in ha.) | : | 1.03.5Ha | |
| 8. | Latitude & Longitude of all corners of the quarry site | : | 10°04'16.70"N to 10°04'21.63"N 77°41'48.15"E to 77°41'53.04"E | |
| 9. | Topo Sheet No. | : | 58- F/12 | |
| 10. | Type of mining | : | Opencast Semi Mechanized of Mining | |
| 11. | Life of Project | : | 10Years | |
| | Lease Period | : | 10 Years | |
| | Mining Plan Period | : | 5 Years | |
| 12. | Mining Plan Details | : | As per approved Mining Plan | |
| | Geological Resources m ³ (RoM) | : | Rough Stone | Gravel |
| | | | 253575 m ³ | 20286 m ³ |
| | Minable Resources m ³ (RoM) | : | Rough Stone | Gravel |
| | | | 74000 m ³ | 11856 m ³ |
| | Annual Peak Production in m ³ | : | Rough Stone | Gravel |
| 15400 m ³ | | | 74000 m ³ | |
| Maximum Depth in meters | : | 27 m BGL | | |
| 13. | Depth of water table | : | 50m | |
| 14. | Man Power requirement per day: | : | 16 Nos. | |

| | | | |
|-----|------------------------------------------------------------------------------------------------------|---|------------------------------------------|
| 15. | Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt | : | 2.5 KLD 1.0 KLD 1.0 KLD 0.5 KLD |
| 16. | Power requirement | | TNEB |
| 17. | Precise area communication approved by the Department of G&M. | : | Rc.No.1100/Kanimam/2020, dt: 30.09.2021 |
| 18. | Mining Plan approved by Department of G&M. | : | Rc.No.1100/Mines/2020, dt: 21.10.2021 |
| 19. | Department of G&M, Deputy Director 500m Cluster Letter | | Rc.No.1100/Mines/2020, dt: 21.10.2021 |
| 20. | VAO Certificate Regarding Structures within 300m Radius | | Letter furnished. |
| 21. | Project Cost (excluding EMP cost) | : | Rs.52.64 Lakhs |

Request of the Project Proponent:

| REQUEST | | | |
|----------------|--------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------|
| YEAR | REVISED YEARLY ROUGHSTONE PRODUCTION (m ³) | | Depth as per mining plan @22m for 5 years & 22m for 10years |
| | ROUGHSTONE (m ³) | Gravel (m ³) | |
| I | 14800 | 5020 |  |
| II | 14000 | 5020 | |
| III | 13200 | - | |
| IV | 12400 | - | |
| V | 11600 | - | |
| Sub Total | 74,800 | 11,856 | |
| 6-10 | - | - | |
| Total | 74,800 | 11,856 | |

I understand that the appraisal committee is instructing the project proponents to maintain a minimum pit bottom width of 12m from the safety point of view. Since the bottom rock pit in CS line A-B of my proposal is 10m only I am agreeable to restrict the depth of mining to 22m for five years lease period as against the approved mine plan ultimate depth of mining to 27m for five years & 27m for ten years.

I request you to issue Environmental Clearance for the revised production capacity of Gravel 11856m³ & 70400m³ of rough stone for a restricted depth of 22 m(BGL) for five years and 22m(BGL) for Ten Year lease period as against mining plan approved production capacity of Gravel 11856m³ & 74000m³ of rough stone up to 27 m(BGL) for five years and Gravel 11856m³ & 74000m³ of rough stone up to 27m(BGL) for Ten years.

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[Signature]

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|-----|-------------------------|---|----------------------------------|------------------------------------------------|----------------------|--|
| 23. | EC Recommendation | : | Validity | 5 years subject to the following upper limits. | | |
| | | | | Rough Stone | Weathered Rock | |
| | | : | Max Total RoM in m ³ | 70400 m ³ | 11856 m ³ | |
| | | : | Annual Max RoM in m ³ | 15400 m ³ | 5928 m ³ | |
| | | : | Max Depth in mtrs | 22 m BGL | | |
| 24. | EMP cost (in Rs. Lakh). | : | Rs.69.35 Lakhs/ 5 Years | | | |
| 25. | CER cost (in Rs. Lakh). | : | Rs. 5 Lakhs | | | |

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance 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 send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the

commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.

- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) The proponent shall 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.
- 8) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 9) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 10) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 11) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 12) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 13) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 14) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate

noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.

- 15) 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.
- 16) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 17) 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.
- 18) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 19) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 20) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively


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- 21) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 22)The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 23)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.
- 24)The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.
- 25)The PP shall ensure that the following provisions are provided due to the existence of Reserved Forest/Reserve Land at a distance of less than 1km from the project site:
- i. Since the R.F is located very close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in two rows) along the boundary of the mine lease area before obtaining the CTO from the TNPCB.
 - ii. The proponent shall construct and maintain proper fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forest before the commencement of the operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
 - iii. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate


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dumps positioned in opposite direction to the location of the reserved forest.

- iv. The PP shall ensure that such waste/reject dumps shall be properly secured to prevent escape of material there from in harmful quantities which may cause degradation of environment and to prevent causation of floods.
- v. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
- vi. The PP shall take necessary steps that wherever possible, the waste rock, overburden etc. shall be back-filled into the mine excavations with a view to restoring the land to its original use as far as possible.
- vii. Wherever back-filling of waste rock in the area excavated during mining operations is not feasible, the PP shall take adequate steps in discussion with the concerned DFO to suitably terrace the waste dumps placed within the lease hold area ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
- viii. The PP shall carry out the scientific investigations in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.
- ix. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.
- x. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying operations within 'Permissible Limits' specified under the environmental laws.
- xi. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.

- xii. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry out the quarrying on steep hill slopes with a gradient of 20° or more / areas with a high degree of erosion on forestland.
- xiii. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco- sensitive Zone of 60 m without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.
- xiv. The PP shall not use plastic carry bags within the quarry area.
- xv. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free from blockage for runoff disposals. This run off from the road side drainage shall relate to the natural drainage system in the area.

26)The PP shall adhere to the provisions of the MoEF had issued Notification No. S.O. 1545 dated 25th June 2009 regulating certain activities in the eco-sensitive zone to conserve and protect the reserved forest area from ecological and environmental point of view.Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.

27)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.

28)The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.

29)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.

- 30) 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.
- 31) 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.
- 32) 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.
- 33) 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.
- 34) 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.
- 35) 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.
- 36) 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.

- 37)As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 38)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.
- 39)As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
- 40) As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the Government Primary School, Nadukkottai Village as committed, before obtaining CTO from TNPCB.

Agenda No: 375-18

(File No: 9839/2023)

Proposed Rough stone and gravel quarry over an Extent of 1.55.26 Ha at S.F.Nos. 466/3B (Part) & 467/1A1 (Part) of Kakkavadi Village, Karur Taluk, Karur District, Tamil Nadu by Thiru. P. Kanagaraj -For Environmental Clearance (SIA/TN/MIN/418779/2023, 18.02.2023).

The proposal was placed in this 375th Meeting of SEAC held on 04.05.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. P. Kanagaraj has applied for Environmental Clearance for the Proposed Rough stone and gravel quarry over an Extent of 1.55.26 Ha at S.F.Nos. 466/3B (Part) & 467/1A1 (Part) of Kakkavadi Village, Karur Taluk, Karur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.


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During the appraisal, the SEAC had observed the following:

1. A Highrange fertilizer unit is situated at a distance of 90 m from the boundary of proposed quarry, i.e., in the **Extremely Sensitive Zone** considering the risk from the flyrock due to indiscriminate blasting operations in the proposed quarry.
2. The proposed quarrying operation involving vibration induced blasting operations and dust pollution due to huge excavation & hauling operations may damage the existing structures.
3. There is an existing pit up to a depth of 2m without obtaining Environmental Clearance.
4. Besides, this proposal attracts the following legal implications:
 - (i). Under the provisions of Tamil Nadu Minor Mineral Concession Rules, 1959, Rule 36 (1-A) (a) says

"....No lease shall be granted for quarrying stone within 300 meters (three hundred meters) from any inhabited site: Provided that the exiting quarries which are subsisting under current leases shall be entitled for continuance till the expiry of the lease period. The lessees whose quarries lie within a radius of 300 metres from the inhabited site shall undertake blasting operations only after getting permission of the Director of Mines Safety, Chennai".

Similarly, Rule 36 (1-A) (c) also indicates

"....No new layout, building plans falling within 300 metres from any quarry should be given approval by any agency unless prior clearance of the Director of Geology and Mining is obtained. On receipt of proposals for according clearance, the Director of Geology and Mining (DGM) shall decide upon the continuance or closure, as the case may be of any quarry which is situated within 300 metres from the now layout, building sought for such ,clearance....".

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

Agenda No: 375-19

(File No: 9846/2023)

Proposed Gravel quarry over an extent of 2.73.5 Ha at S.F.No.477 of Mulpallam Village, Vadipatti Taluk, Madurai District, Tamil Nadu by Tmt.G.Mallika -For Environmental Clearance (SIA/TN/MIN/418760/2023, 17.02.2023).


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The proposal was placed in this 375th Meeting of SEAC held on 04.05.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Tmt.G.Mallika has applied for Environmental Clearance for the Proposed Gravel quarry over an extent of 2.73.5 Ha at S.F.No.477 of Mullipallam Village, Vadipatti Taluk, Madurai District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 2 years. The mining plan is for the period of Two years & production should not exceed 38,488m³ of Gravel. The annual peak production is 20,064m³ of Gravel. The ultimate depth is 2m BGL.

Based on the documents and presentation made by the proponent, SEAC after detailed discussions decided not to recommend this project for issuing EC, considering that the site is located in an ecologically rich area with thick vegetation & there are 4 poultry sheds abutting the lease area and depletion of fertile topsoil will lead to environmental degradation to flora and fauna in and around the area.

Agenda No: 375-20

(File No: 9852/2023)

Proposed Construction of Non-High Rise Residential Building in T.S.L.R No 38/23, 56/34 & 70/32, Ward No E, Block No 33 of Korattur Village, Ambattur Taluk, Chennai District, Tamil Nadu by M/s. Casagrاند Builder Private Limited- For Environmental Clearance. (SIA/TN/INFRA2/418250/2023, 14.02.2023).

The proposal was placed in this 375th Meeting of SEAC held on 04.05.2023.

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

The SEAC noted the following:

1. The Project Proponent, M/s. Casagrاند Builder Private Limited has applied for Environmental Clearance for the Proposed Construction of Non-High Rise Residential Building in T.S.L.R No 38/23, 56/34 & 70/32, Ward No E, Block No 33 of Korattur Village, Ambattur Taluk, Chennai District, Tamil Nadu.


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2. The project/activity is covered under Category "B2" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.

| S. No | Description | Details | | |
|-------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------|
| 1. | Name of the Project | Construction of Non-High Rise Residential Building by M/s. Casagrland Builder Private Limited | | |
| 2. | Location | T.S.L.R No 38/23, 56/34 & 70/32, Ward No E, Block No 33 of Korattur Village, Ambattur Taluk, Chennai District, Tamil Nadu. | | |
| 3. | Type of Project | Building and Construction Projects Schedule 8 (a), Category "B2" | | |
| 4. | Latitude & Longitude | S.No | Latitude | Longitude |
| | | 1 | 13°07'9.48"N | 80°11'35.10"E |
| | | 2 | 13°07'10.5"N | 80°11'64.6"E |
| | | 3 | 13°07'09.7"N | 80°11'55.1"E |
| | | 4 | 13°07'07.8"N | 80°11'6.19"E |
| 5. | Total Plot/land Area (in sq. m) | Total Plot Area – 10359.95 Sqm | | |
| 6. | Built up area | Total built-up area – 28,204.83 Sqm | | |
| 7. | Cost of Project | Rs. 56.80 Crores | | |
| 8. | Land Break-up | S.No | Details | Area in (Sqm) |
| | | 1 | Total Land Area | 10359.95 |
| | | 2 | Road area to be gifted | 84.43 |
| | | 3 | Total Land area after deducting road area to be gifted (100%) | 10275.52 |
| | | 4 | Total Ground Coverage Area of Buildings (52.9%) | 5432.37 |
| | | 5 | Roads and Pavements Area (18.9%) | 1940.25 |
| | | 6 | Surface or open Parking Area (1.1%) | 115.32 |
| | | 7 | OWC, Security Room, Transformer yard (1.1 %) | 110.59 |
| | | 8 | Solid Waste Disposal and Substation (0.3 %) | 28 |
| | | 9 | Greenbelt development Area (15.6 %) | 1621.07 |
| | | 10 | OSR Area (10 %) | 1027.92 |

| 9. | Total Built up area statement | <p>The total built up area –28,204.83 Sqm The proposal involves construction of Block 1 – Stilt Floor + 5 Floors with Club House (Ground+4 Floors, Swimming Pool at 1st Floor Level) and Services with 155 Number of Dwelling units. Detailed Built Up Area Statement:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | <table border="1"> <thead> <tr> <th>Name of the Block/Building</th> <th>Built-up Area (FSI Area) Sqm</th> <th>Built-up Area Non FSI Area Sqm</th> <th>Built-up Area Parking Area & Others (Covered Built Up Area) Sqm</th> <th>Total Built Up Area Sqm</th> </tr> </thead> <tbody> <tr> <td colspan="5" style="text-align: center;">Block 1</td> </tr> <tr> <td>Stilt floor</td> <td>227.71</td> <td>143.19</td> <td>5104.43</td> <td>5475.33</td> </tr> <tr> <td>1st Floor</td> <td>4112.62</td> <td>0</td> <td>-</td> <td>4112.62</td> </tr> <tr> <td>2nd Floor</td> <td>4128.6</td> <td>0</td> <td>-</td> <td>4128.6</td> </tr> <tr> <td>3rd Floor</td> <td>4128.6</td> <td>0</td> <td>-</td> <td>4128.6</td> </tr> <tr> <td>4th Floor</td> <td>4128.6</td> <td>0</td> <td>-</td> <td>4128.6</td> </tr> <tr> <td>5th Floor</td> <td>3990.39</td> <td>0</td> <td>-</td> <td>3990.39</td> </tr> <tr> <td>Terrace floor</td> <td>-</td> <td>133.8</td> <td>-</td> <td>133.8</td> </tr> <tr> <td>Total (A)</td> <td>20716.52</td> <td>276.99</td> <td>5104.43</td> <td>26097.94</td> </tr> <tr> <td>STP</td> <td>207.19</td> <td>139.9</td> <td>-</td> <td>347.09</td> </tr> <tr> <td>WTP</td> <td>100.8</td> <td>142.21</td> <td>-</td> <td>243.01</td> </tr> <tr> <td>Transformer Yard</td> <td>-</td> <td>-</td> <td>80</td> <td>80</td> </tr> <tr> <td>Security Cabin</td> <td>-</td> <td>-</td> <td>5.76</td> <td>5.76</td> </tr> <tr> <td>Compound Wall</td> <td>-</td> <td>-</td> <td>231.5</td> <td>231.5</td> </tr> <tr> <td>Swimming Pool</td> <td>-</td> <td>-</td> <td>274.54</td> <td>274.54</td> </tr> <tr> <td>Rainwater Harvesting</td> <td>-</td> <td>-</td> <td>292.43</td> <td>292.43</td> </tr> <tr> <td>Head Room</td> <td>-</td> <td>-</td> <td>133.8</td> <td>133.8</td> </tr> <tr> <td>Water Tank</td> <td>-</td> <td>-</td> <td>133.8</td> <td>133.8</td> </tr> <tr> <td>Lift Machine Room</td> <td>-</td> <td>-</td> <td>57.92</td> <td>57.92</td> </tr> <tr> <td>Other Utility Area</td> <td>-</td> <td>-</td> <td>307.04</td> <td>307.04</td> </tr> <tr> <td>Total (B)</td> <td>307.99</td> <td>282.11</td> <td>1516.79</td> <td>2106.89</td> </tr> </tbody> </table> | | | | | Name of the Block/Building | Built-up Area (FSI Area) Sqm | Built-up Area Non FSI Area Sqm | Built-up Area Parking Area & Others (Covered Built Up Area) Sqm | Total Built Up Area Sqm | Block 1 | | | | | Stilt floor | 227.71 | 143.19 | 5104.43 | 5475.33 | 1 st Floor | 4112.62 | 0 | - | 4112.62 | 2 nd Floor | 4128.6 | 0 | - | 4128.6 | 3 rd Floor | 4128.6 | 0 | - | 4128.6 | 4 th Floor | 4128.6 | 0 | - | 4128.6 | 5 th Floor | 3990.39 | 0 | - | 3990.39 | Terrace floor | - | 133.8 | - | 133.8 | Total (A) | 20716.52 | 276.99 | 5104.43 | 26097.94 | STP | 207.19 | 139.9 | - | 347.09 | WTP | 100.8 | 142.21 | - | 243.01 | Transformer Yard | - | - | 80 | 80 | Security Cabin | - | - | 5.76 | 5.76 | Compound Wall | - | - | 231.5 | 231.5 | Swimming Pool | - | - | 274.54 | 274.54 | Rainwater Harvesting | - | - | 292.43 | 292.43 | Head Room | - | - | 133.8 | 133.8 | Water Tank | - | - | 133.8 | 133.8 | Lift Machine Room | - | - | 57.92 | 57.92 | Other Utility Area | - | - | 307.04 | 307.04 | Total (B) | 307.99 | 282.11 |
| Name of the Block/Building | Built-up Area (FSI Area) Sqm | Built-up Area Non FSI Area Sqm | Built-up Area Parking Area & Others (Covered Built Up Area) Sqm | Total Built Up Area Sqm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Block 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stilt floor | 227.71 | 143.19 | 5104.43 | 5475.33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 st Floor | 4112.62 | 0 | - | 4112.62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 nd Floor | 4128.6 | 0 | - | 4128.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 rd Floor | 4128.6 | 0 | - | 4128.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 th Floor | 4128.6 | 0 | - | 4128.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 th Floor | 3990.39 | 0 | - | 3990.39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terrace floor | - | 133.8 | - | 133.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total (A) | 20716.52 | 276.99 | 5104.43 | 26097.94 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STP | 207.19 | 139.9 | - | 347.09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WTP | 100.8 | 142.21 | - | 243.01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transformer Yard | - | - | 80 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Security Cabin | - | - | 5.76 | 5.76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compound Wall | - | - | 231.5 | 231.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Swimming Pool | - | - | 274.54 | 274.54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rainwater Harvesting | - | - | 292.43 | 292.43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Head Room | - | - | 133.8 | 133.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water Tank | - | - | 133.8 | 133.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lift Machine Room | - | - | 57.92 | 57.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other Utility Area | - | - | 307.04 | 307.04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total (B) | 307.99 | 282.11 | 1516.79 | 2106.89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |


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|-----|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------|--------------------------------------------|------------------|
| | | Total | 21024.51 | 559.1 | 6621.22 | 28,204.83 |
| 10. | a) Water requirement KLD | S. No. | Details | Quantity (kLD) | | |
| | | 1 | Total Water Requirement | 136 | | |
| | | 2 | Fresh Water Requirement (Domestic & Swimming Pool) (Sourced from CMWSSB) | 85 | | |
| | | 3 | Treated Water for Flushing | 41 | | |
| | | 4 | Treated Water for Gardening & OSR | 10 | | |
| 11. | Quantity of Sewage KLD | Total wastewater Generation – 118 KLD | | | | |
| 12. | Details of STP | Sewage Treatment Plant- 140 KLD (SBR Technology) | | | | |
| | | <ul style="list-style-type: none"> • Bar Screen Chamber • Equalization tank • SBR Tank • Decant Tank • Treated Water Tank • UF Treated Water Tank • Sludge Holding Tank | | | | |
| 1. | Mode of Disposal of treated sewage with quantity | Total Treated waste water – 112 KLD | | | | |
| | | i. Excess treated sewage disposed to CMWSSB Sewer Line – 61 KLD ii. Toilet Flushing – 41 KLD iii. Greenbelt Development & OSR – 10 KLD | | | | |
| 13. | Quantity of Solid Waste generated per day , Mode of treatment and Disposal | S. No. | Description | Quantity (kg/day) | Mode of treatment / disposal | |
| | | 1 | Biodegradable (@40% of waste generated) | 187 | Will be treated in Organic Waste Converter | |

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|------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------|------------------------------------------------------------|
| | of Solid Waste | | | | and used as manure for gardening. |
| | | 2 | Non - Biodegradable (@ 60% of waste generated) | 280 | Sent to authorized recyclers or local bodies for recycling |
| | | 3 | STP sludge | 6 | will be used as manure for greenbelt development |
| 14. | Power requirement | 3157.31 KVA (Source of power – TANGEDCO) | | | |
| 15. | Details of D.G. set with Capacity | 1 No x 200 kVA, 1 No x 180 KVA, 1 No. x 160 KVA & 1 No. x 220 kVA. <ul style="list-style-type: none"> Stacks with height of 21 meters are provided for all the DG sets to comply the CPCB norms | | | |
| 16. | Energy Conservation Measures | 50% of the total roof area is provided with Solar Panel | | | |
| 17. | Details of Green Belt Area | 1621.07sq.m(15.6 %) | | | |
| 18. | Details of Parking Area | Details | No. of Car parks | No of two wheeler parks | |
| | | 1) Total number of car parks in stilt floor | 207 | 7 | |
| | | 2) Total number of car parks in Ground level (Surface parking) | 09 | | |
| | | Total number of car parks in Ground level (Surface parking) | | | |
| | | Total number of Parking required as CMDA norms | 171 | | |
| | | Total number of Parking provided | 207 | 7 | |
| 10% Visitor parking provided | 17 | | 231 | | |


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| 19. | Provision for rain water harvesting | Total Rainwater Runoff – 7125.8 Cu.m <ul style="list-style-type: none"> • Remaining rain water will be recharge into recharge pit. Recharge pit: 18 Nos with Dia 1.2 m, depth 2m. • Rain water collection sump capacity- 110 Cu.m (100% of the roof top collection per day is 102 Cu.m) – 102 Cu.m |
| 20. | EMP Cost (Rs.) | Construction Phase: Capital Cost: Rs.18.5 lakhs O&M Cost (Per Annum): Rs.6 lakhs Operation Phase: Capital Cost: Rs. 105.04 lakhs Recurring Cost: Rs. 19.24 lakhs |
| 21. | CER activities with the specific allocation of funds | 50 lakhs |

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

1. The building shall conform to minimum of IGBC Gold green building norms and shall obtain IGBC certificate in this regard before obtaining CTO from TNPCB.
2. The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the local body /TWAD before obtaining CTO.
3. The PP shall construct a tank of appropriate size in the earmarked OSR land in consultation with the local body. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
4. The proponent shall provide charging facility for e-vehicle in the two-wheeler/four-wheeler parking area.
5. The project proponent shall provide STP of capacity 140 kLD and make proper arrangements for the utilization of the treated water for committed activities (i.e Toilet flushing – 41 kLD, Greenbelt Development & OSR – 10 kLD, excess treated

sewage disposal to CMWSSB Sewer Line – 61 KLD) ensuring that the vital parameters conform to the standards prescribed by CPCB time to time.

6. The PP shall adopt BOT contract so that the STP is maintained by the builder of STP for a minimum period of 10 years.
7. The proponent is requested to carry out a routine and periodic maintenance of the existing STP in the Warehouse.
8. The treated/untreated sewage water shall not be let-out from the unit premises without obtain necessary permission from competent authority.
9. The PP shall analyse the treated wastewater samples periodically through TNPCB.
10. The treated/untreated sewage water shall not be let-out from the unit premises.
11. The proponent shall provide adequate organic waste disposal facility such as organic waste convertor within the project site as committed and non- bio-degradable waste to should be sent to authorized recyclers as committed.
12. The height of the stacks of DG sets shall be provided as per the CPCB norms.
13. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc, to TNPCB before obtaining CTO.
14. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for toilet flushing, Green belt development & OSR and no treated water be let out of the premise.
15. The sludge generated from the sewage treatment plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.
16. 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 State Forest and Horticulture Departments. 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.
17. Taller/one year old saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The


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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.

18. The proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
19. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
20. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
21. No waste of any type to be disposed of in any other way other than as per the concerned regulations in force.
22. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in air, noise, solid waste disposal, sewage treatment & disposal etc., shall be followed strictly.
23. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.
24. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring of the health of construction workers during COVID and post-COVID period.
25. The project proponent shall measure the criteria air pollutants data (including CO) due to vehicular traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
26. Generation of the solar/renewable energy should not be less than 50% of total energy utilization and ensure that the entire roof of the building. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
27. Solar water heating shall be provided to meet minimum of 50% the hot water demand of the residents or as per the requirement of the local building bye laws,

whichever is higher.

28. 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.
29. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall include demolishing plan & its mitigation measures in the EMP and adhere the same as committed.
30. The Project Proponent stated that an amount Rs. 50 lakhs shall be spent as CER and the amount shall be spent for the committed activities before obtaining CTO from TNPCB.

Agenda No: 369-21

(File No: 6259/2018)

Existing Limestone Quarry over an Extent of 3.45.5Ha located at S.F.No.183/1B(P), 183/2, Devannagoundanur Village, Sankari Taluk, Salem District, Tamil Nadu by Thiru. Mohan Kumar – For Environmental Clearance under Violation Category.

(SIA/TN/MIN/23067/2018, Dated. 18.01.2022)

This proposal was placed in this 375th SEAC Meeting held on 04.05.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The Project Proponent gave a detailed presentation.

The SEAC noted the following:

1. The Proponent Thiru. Mohan Kumar has applied for Environmental Clearance under Violation Category for the Existing Limestone Quarry over an Extent of 3.45.5Ha located at S.F.No.183/1B(P), 183/2, Devannagoundanur Village, Sankari Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. ToR under violation issued by SEIAA-TN vide Lr.No. SEIAA-TN/F.No.6532/TOR- 402/2018 Dated: 16.05.2018.
4. ToR Amendment was issued vide Lr. No. SEIAA-TN/F.No.6532/SEAC-CXVIII/TOR- 402(A)/2018 Dated: 30.07.2018.


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5. ToR Extension under violation issued vide SEIAA. Lr.No. SEIAA-TN/F.No.6532/ToR- 402/A/2018, dated:29.10.2021.
6. ToR Extension under violation Lr. No.SEIAA-TN/F.No.6532/ToR-402/Extn./2018 dated:26.09.2022.
7. Public Hearing conducted on 23.09.2021.
8. As per MMDR Amendment Act 2015 lease period is granted 03.09.1999 valid upto 02.09.2049.
9. Review of mining plan approved by IBM TN/SLM/LST/ ROMP -1543 MDS, Dt:01.03.2019 for the period 2019 -2020 to 2023 -2024.
10. Production 109814 Tonnes of ROM (High Grade Limestone 70% - 76870Tonnes, Low Grade Limestone 25% - 27453 Tonnes & Reject 5% - 5491 Tonnes) and depth of mining 45m.

Based on the presentation made and documents furnished by the project proponent, the SEAC decided to constitute a SUB COMMITTEE to make an on-site inspection to assess the present status of the project site and environmental settings as the proposal falls under violation category and submit the report along with the recommendations to the Committee.

Further the Committee called for the following additional details:

1. A letter from the Project Proponent justifying that the project activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006, as amended.
2. Valid mine plan approved by the competent authority for the proposed period of quarrying.
3. The PP shall furnish the copy of receipt of the penalty levied by the Dept of Geology and Mining for the exploitation of mineral without prior EC.

Meanwhile, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to **assess ecological damage assessment whether it is being carried out in accordance with CPCB Guidelines**, remediation plan, natural resource augmentation and community resource augmentation.

After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance


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under violation category. SEAC also decided to request SEIAA-TN to initiate action under Sec. 19 of the Environment (Protection) Act, to be taken for violation cases, in accordance with law.

Agenda No.375-22.

(File No. 8695/2022)

Proposed Rough stone & Gravel Quarry lease over an extent of 2.10.50Ha in S.F.Nos.718 & 720 of Magaral B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu by Thiru.R.Surya - for Environmental Clearance. (SIA/TN/MIN/407149/2022, dt.21.11.2022)

The proposal was placed in 351th SEAC meeting held on 03.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
2. The ToR was issued vide Lr. No. SEIAA-TN/F. No. 8695/ToR-1047/2022 Dated: 31.01.2022 to Thiru.R.Surya for the proposed Rough stone & Gravel Quarry lease over an extent of 2.10.50Ha in S.F.Nos.718 & 720 of Magaral B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu.
3. Minutes of public hearing conducted on 13.09.2022.
4. Final EIA report submitted on 25.11.2022
5. Now, the Project Proponent, Thiru.R.Surya has applied for Environmental Clearance with EIA report along with minutes of public hearing for the proposed Rough stone & Gravel Quarry lease over an extent of 2.10.50Ha in S.F.Nos.718 & 720 of Magaral B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu
6. The precise area communication/lease is issued for the period of 5 Years. The approved mining plan is for the period of five years & production should not exceed **161587cu.m of Rough Stone, & 46548 cu.m of Gravel** and the annual peak production shall not exceed 51,880 m³ of rough stone (4th Year) & 26136 cu.m of Gravel (2nd Year). The ultimate depth is 20m BGL.
7. The salient features of the project are as follows:

| Sl. No | Details of the Proposal | : | Data Furnished |
|--------|-------------------------|---|----------------|
|--------|-------------------------|---|----------------|


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| 1 | Name of the Owner/Firm | : | Thiru.R.Surya S/o.Ramasamy RKG Complex, Ramesh Nagar 2nd Cross Street, West Tambaram Chennai District-600045 |
| 2 | Type of quarrying (Savudu/Rough Stone/ Sand/ Granite) | : | Rough Stone & Gravel |
| 3 | S.F No. Of the quarry site with area break-up | : | 718 & 720 |
| 4 | Village in which situated | : | Magaral-B |
| 5 | Taluk in which situated | : | Walajabad |
| 6 | District in which situated | : | Kancheepuram |
| 7 | Extent of quarry (in ha.) | : | 2.10.50Ha |
| 8 | Latitude & Longitude of all corners of the quarry site | : | 12°43'49.24" N to 12°43'53.17" N 79°43'28.75"E to 79°43'37.44"E |
| 9 | Topo Sheet No. | : | 57 P/10 |
| 10 | Type of mining | : | Opencast Semi-Mechanized of Mining |
| 11 | Period of quarrying proposed | : | 5 years |
| 12 | Production (Quantity in m ³) | : | 161587cu.m of Rough stone |
| 13 | Depth of quarrying | : | 20m BGL |
| 14 | Depth of water table | : | 65-70m |
| 15 | Man Power requirement per day: | : | 24 Nos. |
| 16 | Source of Water Requirement | : | Water Vendors and Existing bore well |
| 17 | Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt &Wet Drilling (in KLD) | : | 5.0 KLD 1.5 KLD 4.0 KLD |
| 18 | Power requirement a. Domestic Purpose b. Industrial Purpose | : | TNEB 406386 Liters of HSD |
| 19 | Whether any habitation within 300m distance | : | No |
| 20 | Precise area communication approved by the Assistant | : | Na.Ka.No.576/Q3/2019 20.08.2020 |


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| | Director, Department of Geology & Mining, with date | | |
| 21 | Mining Plan approved by the Assistant Director, Department of Geology and Mining, Kancheepuram with date | : | Rc.No.576/Q3/2019 dated: 23.11.2020 |
| 22 | Assistant Director, mines 500m cluster letter | | Rc.No.576/Q3/2019 dated: 23.11.2020 |
| 23 | VAO certificate regarding 300m radius cluster | | Letter dated: 24.07.2021 |
| 24 | Project Cost (excluding EMP cost) | : | Rs. 57.80Lakhs |
| 25 | EMP cost | : | EMP Cost – Rs. 1.812 Crores /5Years including capital & recurring cost with 5% inflation cost anticipated every year. |
| 26 | CER cost | | Rs. 5 Lakhs |

Based on the presentation and documents furnished by the project proponent, SEAC noted that a public complaint (Monday Petition Dt: 30.09.2022) was received in this office Dt: 14.11.2022. SEAC after detailed discussion decided to defer the proposal and requested the PP to carry out a Comprehensive Study furnishing the following additional particulars:

- i. Details of schools located at the vicinity of the project site.
- ii. Details of timing of the school and mode of transport for the children
- iii. Details of mode of transport and details on the transportation route through which quarried materials are scheduled to be hauled.
- iv. Standard Operating Procedure indicating the Time schedule of proposed blasting operation.

Subsequently, the subject was placed in 596th SEIAA meeting held on 22.02.2023 & 23.02.2023. The authority after detailed discussion to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 03.02.2023. The PP has furnished reply vide his letter Dated:10.03.2023. The proposal was again placed for appraisal in 366th meeting of SEAC held on 30.03.2023. The Committee decided to defer the proposal and to place this proposal in any one of the forthcoming SEAC.


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The proposal was again placed in 375th SEAC meeting held on 04.05.2023. Based on the presentation and documents furnished by the project proponent, SEAC observed the following

- i) During the Public Hearing, it was observed that high number of Public objections have been registered against this proposed quarry from the Villagers in regard to impact of mining & its transportation of quarried minerals was recorded in the minutes of public hearing conducted on 13.09.2022.
- ii) Also, it was noted that the Panchayat Union Primary School located in the haul road leading to the proposed quarry has been severely affected due to movement of large number of loaded trucks from the adjacent operating quarries and forcing the school management to shut down the doors & windows in order to reduce the dust and noise environment.
- iii) It was also observed that the roads are very poorly managed by the existing quarry operators resulting in creation of pot holes, etc.
- iv) It was also noted that the existing quarries located adjacent to the proposed quarries are operating huge number of trucks resulting in creation of crowded truck movement in the road leading to the village so as to create a dangerous situation for the pedestrians and other vehicle operators.

Further, SEAC noted that due the presence of a number of quarries & crushers, the area has been subjected to heavy load of pollution from the point sources and fugitive emissions and due to transportation of mined materials have led to deterioration of roads. The report submitted by the EIA coordinator indicated that the windows of the school on the roadside had to be kept closed to prevent dust affecting the health of students. The entry gate to the school also had to be shifted to the backside for the same reason. Allowing more mines in this area will be detrimental to the environment and health of people living in the area. In view of the above, SEAC decided not to recommend EC for this project.

Agenda No: 375-23
(File No: 8272/2022)

Proposed Rough Stone & Gravel quarry Lease over an extent of 14.85.5 Ha, at S.F.No.718 (Part), 719/1A (Part), 722/1, 722/2 & 730/3 in Padmanabamangalam Village, Srivaikundam Taluk, Thoothukudi District, Tamil Nadu by M/s. Shri Venkateshwara


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Construction Materials & Industries – For Environmental Clearance (SIA/TN/MIN/405367/2022 dated 05.11.2022)

The proposal was placed in 375th meeting of SEAC held on 04.05.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. Shri Venkateshwara Construction Materials & Industries has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry Lease over an extent of 14.85.5 Ha at S.F.No.718 (Part), 719/1A (Part), 722/1, 722/2 & 730/3 in Padmanabamangalam Village, Srivaikundam Taluk, Thoothukudi District, Tamil Nadu.
2. The project/activity is covered under Category “B1” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.
3. **Earlier, the proposal was placed for appraisal in 349th meeting of SEAC held on 20.01.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following details from the project proponent:**
 - i) A revised approved mining plan after leaving a minimum distance of 2.1 km from the Vallanadu Black Buck Sanctuary located in the vicinity of the project site.
 - ii) The mitigation measures for the Vallanadu Black Buck Sanctuary as suggested by District Forest Officer.
 - iii) Revised CER cost and activity towards 4 Government & Panchayat Union schools in the locality.

The proponent furnished a reply vide letter dated.21.03.2023. In view of this, the proposal is again placed in this 375th SEAC meeting held on 04.05.2023.

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

- i) The proponent shall furnish details of the revised co-ordinates in a sworn affidavit as per the revised mining plan submitted.
- ii) The proponent shall complete fencing & greenbelt development, especially in the 100m safety distance provided facing towards the side of Vallanadu Black Buck Sanctuary.


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- iii) The proponent shall furnish the source for procuring 7000nos. of saplings envisaged.

After receipt of the above particulars, further deliberations will be done.

AGENDA No: 375 TA-1

(File No: 8760/2022)

Proposed Rough stone & gravel quarry lease over an extent of 4.24.0 Ha at S.F.Nos.224/1, 224/3, 224/4, 224/5, 224/7, 227/2E1, 227/2E2, 227/2E3A, 227/2E3B, 227/2E6, 228/3 & 229/2 of Chithathoor village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu by Thiru. K.Boobalan – For Environmental Clearance. (SIA/TN/MIN/421903/2023, dated 13/03/2022)

The proposal was placed in the 351st meeting of SEAC held on 03.02.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. K.Boobalan has applied seeking Environmental Clearance for the Proposed Rough stone & gravel quarry lease over an extent of 4.24.0 Ha at S.F.Nos.224/1, 224/3, 224/4, 224/5, 224/7, 227/2E1, 227/2E2, 227/2E3A, 227/2E3B, 227/2E6, 228/3 & 229/2 of Chithathoor village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006, as amended.
3. ToR issued along with Public Hearing vide T.O Lr No.SEIAA-TN/F.No.8760/SEAC/ToR-1088/2021 Dated:17.03.2022
4. Public Hearing minutes dated:24.06.2022
5. EIA report submitted on 26.08.2022

| Sl. No. | Details of the Proposal | |
|---------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Name of the Owner / Firm | Thiru.K.Boobalan S/o.Kannan No.782, mariamman kovil Street Jambodai Alividaithangi Post Vembakkam, Thiruvannamalai-604402 |
| 2. | Type of quarrying (Rough stone / Sand / Granite) | Rough stone and Gravel |


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| 3. | S.F No. of the quarry site | 224/1, 224/3, 224/4, 224/5, 224/7, 227/2E1, 227/2E2, 227/2E3A, 227/2E3B, 227/2E6, 228/3 & 229/2 |
| 4. | Village | Chithathoor |
| 5. | Taluk | Vembakkam |
| 6. | District | Tiruvannamalai |
| 7. | Extent of Quarry (in ha.) | 4.24.0 Ha (patta Land) |
| 8. | Period of Quarrying proposed | 5years |
| 9. | Type of Mining | Opencast Mechanized of Mining |
| 10. | Production (Quantity in m ³) | As per the approved mining plan. Geological reserves: 17,43,441m ³ of Rough stone and 41,115 m ³ of Gravel 5-year Production: 2,62,924 m ³ of Rough stone & 28,276 m ³ of Gravel The annual peak production as per mining plan is 54,785 m ³ of Rough stone (4 th year). |
| 11. | Proposed Depth of Mining | 43m BGL |
| 12. | Latitude & Longitude of all corners of the quarry site | 12°43'33.12"N to 12°43'44.30"N 79°36'35.35"E to 79°36'48.21"E |
| 13. | Topo sheet No. | 57-P/10 |
| 14. | Man power requirement | 28 |
| 15. | Precise Area Communication | Na.Ka. No. 144/kanimam/2018, dated: 26.07.2021 |
| 16. | Mining plan approval letter | Rc.No. 144/ Kanimam /2018, Dated: 17.08.2021 |
| 17. | 500m letter | Rc.No. 144/ Kanimam /2018, Dated: 23.08.2021 |
| 18. | Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression (in KLD) & Green Belt (in KLD) | 5.0 KLD 1.25 KLD 2.0 kLD & 1.75kLD |
| 19. | Power requirement: a. Domestic purpose b. Industrial Purpose | TNEB - |
| 20. | Depth of Water table | 68 – 73m BGL |
| 21. | Whether any habitation within 300m distance | No as per VAO letter |


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| 22. | Project cost (Excluding EMP cost) | Rs.78,93,000/- |
| 23. | EMP cost | Capital cost - Rs. 6691286/- Recurring cost - Rs. 2639353 /- |
| 24. | CER cost | Rs. 5,00,000/- |
| 25. | VAO letter dated | Letter dated: 30.07.2021 |

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 production quantity of 2,62,924 m³ of Rough stone & 28,276 m³ of Gravel to a depth of 43m (3m AGL+ 40m BGL) in a period of 5 years and the annual peak production as per mining plan is 54,785 m³ of Rough stone subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
3. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.
4. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in all the quarries of this cluster site collectively if amalgamation is done and when the depth of the working touches 30 m (or) during the 3rd year whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc shall be carried out before the commencement of mining

- operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance
5. As the habitations are located at a distance of 330 m, within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the cluster mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
 6. The Project Proponent shall not carry out the secondary rock breakage involving blasting operations and use only the non-explosive techniques such as rock breakers, etc.
 7. The Project Proponent shall 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.
 8. The Project Proponent shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
 9. 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.
 10. 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


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- 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.
11. The Project Proponent shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.
 12. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
 13. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
 14. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
 15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
 16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
 17. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
 18. As accepted by the Project proponent the CER cost is **Rs. 5.0 lakh** and the amount shall be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.

Subsequently the subject was placed in the 596th meeting of Authority held on 23.02.2023. The Authority noted that the subject was appraised in 351st meeting of

SEAC held on 03.02.2023 and SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.

After detailed discussions, the Authority decided to call for the following additional particulars/clarifications from the Project proponent.

1. EC is auto generated and hence the Project proponent shall furnish the name in the online application as in the Statutory approvals.
2. Registered lease deed of the mine lease area shall be furnished.

The proponent furnished the details sought on 13.03.2023. Hence, the subject was placed in the 603rd meeting of Authority held on 20.03.2023 & 21.03.2023. After detailed discussions, the Authority decided to refer back the proposal to the SEAC for re-appraisal.

Now, the proposal was placed in this 375th meeting of SEAC held on 04.05.2023. The Proponent informed the Committee that the said online application with incorrect name is withdrawn and a new online application has been filed. The Committee accepted the reply and decided to reiterate the recommendations already made in the 351st meeting of SEAC held on 03.02.2023.


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

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


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

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

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

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


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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 | விம்மம் |
| 2 | <i>Adenaanthera pavonina</i> | Marjadi | மஞ்சள, ஆனைக்குன்றிமணி |
| 3 | <i>Albizia lebbek</i> | Vaagai | வாளை |
| 4 | <i>Albizia amara</i> | Usil | உசில் |
| 5 | <i>Bauhinia purpurea</i> | Mantharai | மந்தாரை |
| 6 | <i>Bauhinia racemosa</i> | Aathi | ஆத்தி |
| 7 | <i>Bauhinia tomentosa</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 | சரக்குவான்றை |
| 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 | நருவுலி |
| 18 | <i>Creteva adansonii</i> | Mavalingum | மாவிளங்கம் |
| 19 | <i>Dillenia indica</i> | Uva, Uzha | உசா |
| 20 | <i>Dillenia pentagyna</i> | SiruUva, Sitruzha | சிறு உசா |
| 21 | <i>Diospyro sebenum</i> | Karungali | கருங்காலி |
| 22 | <i>Diospyro schloroxylon</i> | Vaganai | வாகளை |
| 23 | <i>Ficus amplissima</i> | Kalltchi | கல் இச்சி |
| 24 | <i>Hibiscus tiliaceou</i> | Aatrupoovarasu | ஆற்றுப்பழை |
| 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 | விளா மரம் |
| 31 | <i>Litsea glutinos</i> | Pisinpattai | பின்பட்டை, பிசின்பட்டை |
| 32 | <i>Madhuca longifolia</i> | Iluppai | இலுப்பை |
| 33 | <i>Manilkara hexandra</i> | UlakkaiPaalai | உலக்கை பாலை |
| 34 | <i>Mimusops elengi</i> | Magizhamaram | மகிழமரம் |
| 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 | நச்சமரம் |
| 39 | <i>Pongamia pinnat</i> | Pungam | புங்கம் |

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|----|--------------------------------|-------------------------|------------------------------|
| 40 | <i>Premna mollissima</i> | Munnai | முள்ளை |
| 41 | <i>Premna serratifolia</i> | Narumunnai | தறு முள்ளை |
| 42 | <i>Premna tomentosa</i> | Malaiipoovarasu | மலை பூவரசு |
| 43 | <i>Prosopis cinerea</i> | Vanni maram | வள்ளி மரம் |
| 44 | <i>Pterocarpus marsupium</i> | Vengai | வேங்கை |
| 45 | <i>Pterospermum canescens</i> | Vennangu, Tada | வேண்ணாங்கு |
| 46 | <i>Pterospermum xylocarpum</i> | Polavu | பூவடி |
| 47 | <i>Puthranjiva roxburghii</i> | Karipala | கறிபலா |
| 48 | <i>Salvadora persica</i> | Ugaa Maram | ஊகா மரம் |
| 49 | <i>Sapindus emarginatus</i> | Manipungan, Soapukai | மணிப்புங்கன் சோப்புக்காய் |
| 50 | <i>Saraca asoca</i> | Asoca | அசோகா |
| 51 | <i>Strobilus asper</i> | Piray maram | பிராய் மரம் |
| 52 | <i>Strychnos nuxvomica</i> | Yetti | எட்டி |
| 53 | <i>Strychnos potatorum</i> | Therthang Kottai | தேத்தாள் கொட்டை |
| 54 | <i>Syzygium cumini</i> | Navai | நாவல் |
| 55 | <i>Terminalia belleric</i> | Thandri | தாண்டி |
| 56 | <i>Terminalia arjuna</i> | Ven marudhu | வேள் மருது |
| 57 | <i>Toona ciliata</i> | Sandhana vembu | சந்தாள் வேம்பு |
| 58 | <i>Thespesia populnea</i> | Puvarasu | பூவரசு |
| 59 | <i>Walsuratrifoliata</i> | valsura | வால்சுரா |
| 60 | <i>Wrightia tinctoria</i> | Veppalai | வேப்பாலை |
| 61 | <i>Pithecellobium dulce</i> | Kodukkapuli | கொடுக்காப்புளி |


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

-----கரங்கம்

கரங்கங்களில் சுவாமி செயல்பாடுகளுக்கான கற்றுத்தழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEIAA/____, தேதியிடப்பட்டு கற்றுத்தழல் அனுமதி _____ தேதி வரைய செல்லத்தக்கதாக உள்ளது.

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| பகைம பகுதி வளர்ச்சி மேம்பாட்டுக்கான ஏங்கத் திட்டம் | சுவாமிநீர் எல்லைகள் கற்று வைய அமைக்க வேண்டும் ஏங்கப்பள்ளியின் ஆழம் தரைமட்டத்திலிருந்து மீட்டிக்க மிளகல் இரும்பு வேண்டும் |
| தட்டப்பட்டு யாழ்ப்பாணம் வேண்டிய மரங்கள் எண்ணிக்கை: | கற்றுநீர் மர ஏற்படாதவாறு ஏங்க பணிகளை மேற்படுத்த வேண்டும். வாகனங்கள் செல்லும் பாதையில் மர ஏற்படாத அளவிற்கு தண்ணீர் முறையாக தண்ணீர் வாய்க்கால் மூலமாக அளவளவு செய்து கொடுக்க வேண்டும். இரைச்சல் அளவைகள் குறைக்க மரகாட்டிடும் சுவாமிநீர் எல்லைகள் கற்று அடர்த்தியான பகைம பகுதியை ஏற்படுத்த வேண்டும். |
| ஏங்கத்தில் வெளியே வரும்பொழுது நிலத்திலிருந்து ஏற்படாதவாறும் மற்றுக் கற்கள் பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை உண்டிப்பாக செயல்படுத்தப்பட வேண்டும். | |
| ஏங்கத்தில் இருந்து ஏற்படும் இரைச்சல் அளவு 85 டிசிபெல்ஸ் (dBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த எட்டுப்பாடுகளை மேற் கொள்ள வேண்டும். | |
| ஏங்க எட்ட விரிகல் 1500 கி.மீ ஏங்கத்தில் உள்ள பணியாளர்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்கவேண்டும் கைதாழ்மூலம் வழிப்பறை வசதிகளை செய்ய தர வேண்டும். | |
| கிராம அல்லது பகுதியில் வாழும் வாகனங்கள் செல்லும் சாலைகள் தொடர்ந்து தளம் யாழ்ப்பாணம் வேண்டும். | |
| ஏங்கப்பணிகளால் அருகில் உள்ள விவசாயப் பணிகள் மற்றும் தீர்மானங்கள் பாதிக்கப்படக் கூடாது. | |
| தீர்மானங்கள் பாதிக்கப்படாமல் இருப்பதற்கு உறுதி செய்ய வேண்டிய இலக்கு தீர்மானத்தை தொடர்ந்து எண்ணிக்க வேண்டும். | |
| ஏங்கத்திலிருந்து வாகன போக்குகளை எடுத்துச் செல்லும் கிராம மக்களுக்கு எந்தத் தீர்மானத்தையும் ஏற்படுத்தாதவாறு பாதுகாப்பும் மற்றும் கற்றுத்தழல் பாதிக்காத வண்ணம் வாகனங்களை இயக்க வேண்டும். | |
| ஏங்கப்பணிகள் முடிக்கப்பட்டவுடன் ஏங்க மூடல் திட்டத்தில் உள்ளவாறு ஏங்கத்தினை மூட வேண்டும். | |
| ஏங்க நடவடிக்கைகளை முடித்தபின்னர் ஏங்கப் பகுதி மற்றும் ஏங்க நடவடிக்கைகளால் இடையூறு ஏற்படக்கூடிய வேறு ஏந்தல் பகுதியையும் மறுகட்டுமானம் செய்ய தரவேண்டிய விவங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பகைமப்பகுதியை உருவாக்க வேண்டும். | |
| (முழுமையான நிபந்தனைகளை அறிய பாதிவேல் (http://parivashnic.in) என்பது இணையதளத்தைப் பார்க்கவும்) மேலும் எந்தவித கற்றுத்தழல் சந்தை புகாரைக்கு சென்னைவில் உள்ள கற்றுத்தழல் மற்றும் வள அமைச்சரின் குழுவினரின் வட்டிய அலுவலகம்: 044 - 28222325 (அல்லது) தமிழ்நாடு மாகாணம் பாதிவேல் மாவட்ட கற்றுத்தழல் பொறிபணை அலுவலகம் | |


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