

**STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU**

Minutes of 302<sup>nd</sup> Meeting of the State Expert Appraisal Committee (SEAC) held on 17<sup>th</sup> August 2022 (Friday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects.

Agenda No: 302-01


(File No: 5233/2016)

Proposed expansion of Residential complex by M/s. PBEL Property Development (I) Pvt. Ltd., at S.No: 1380/1, 1382, 1383, 1401/97, 1401/22B, 1401/22C, 1401/23A2, 1401/23A3, 1401/23B, 1401/24A, 1401/24B, 1401/24C, 1401/24D, 1401/25, 1401/26, 1401/27A, 1401/27B1, 1401/27B2, 1401/28A, 1401/28B, 1401/29A, 1401/29B1, 1401/29B2, 1401/30A, 1401/30B1, 1401/30B2, 1401/31A, 1401/31B1, 1401/31B2, 1401/32, 1401/33, 1401/42B1 & 1485, of Thaiyur B Village, Chengalpattu Taluk, Kancheepuram District, Tamilnadu – Environmental Clearance- Regarding. (SIA/TN/MIN/52754/2022, dated: 21.05.2021)

The proposal was placed for appraisal in this 302<sup>nd</sup> meeting of SEAC held on 17.08.2022. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. PBEL Property Development (India) Private Limited has applied for Terms of Reference for the Expansion of residential building complex project at S.F.Nos. 1380/1, 1382, 1383, 1401/97, 1401/22B, 1401/22C, 1401/23A1, 1401/23A2, 1401/23A3, 1401/23B, 1401/24A, 1401/24B, 1401/24C, 1401/24D, 1401/25, 1401/26, 1401/27A, 1401/27B1, 1401/27B2, 1401/28A, 1401/28B, 1401/29A, 1401/29B1, 1401/29B2, 1401/30A, 1401/30B1, 1401/30B2, 1401/31A, 1401/31B1, 1401/31B2, 1401/32, 1401/33, 1401/42B1 & 1485 of Thaiyur B Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.
3. The Earlier EC obtained SEIAA-TN vide Lr.No.SEIAA-TN/F.2375/EC/8(a)/402/2014 dated: 01.04.2015 for plot area is 167170sq.m, built-up area is 78051.67sq.m project comprises of Block A1- Stilt(Parking)+14 floors-112 units; Block A2 - Stilt(Parking)+14 floors-112 units; Block B1- Stilt(Parking)+14 floors-84 units; Block B2- Stilt(Parking)+14 floors-84 units; Block C1- (EWS)-Stilt(Parking)+11 floors-132 units; Block D1- (Duplex villa-1)-

  
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G+2 floors-8 units; Block E1- (Duplex villa-2)-G+2 floors-8 units; Block F1- (Duplex villa-3)-G+2 floors-8 units; Block G1- G8 (villa-1)-G+2 floors-8 units(1 dwelling unit per block x 8 Blocks); Block H1- H8 (villa-1)-G+2 floors-8 units(1 dwelling unit per block x 8 Blocks); Block J1- J12 (Town house-1)-G+2 floors-12 units(1dwelling unit per block x 12 Blocks); Block K1- K13 (Town house-2)-G+2 floors-13 units(1 dwelling unit per block x 13 Blocks); club house-basement +GF+ First Floor(FF). (Basement + GF + Restaurant, multipurpose hall, Departmental store & day care center, FF- Indoor games) and expected occupancies-3387.

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

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

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

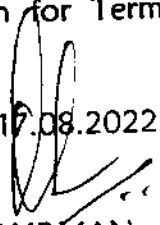
Agenda No: 302-02

(File No: 9342/2022)

Proposed Rough Stone and Gravel quarry lease over an extent of 3.32.5 Ha at S.F.Nos 509/1(PART) & 15/1A2(PART), Madukkarai and Palathurai Village, Coimbatore South Taluk, Coimbatore District Tamil Nadu by Thiru. M. Shanmugam for Terms of Reference (SIA/TN/MIN/78657/2022 Dt.21.06.2022)

The proposal was placed in this 302<sup>nd</sup> meeting of SEAC held on 17.08.2022. The

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

The SEAC noted the following

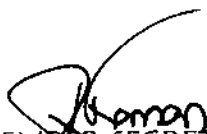
1. The Project Proponent, Thiru. M. Shanmugam has applied for Terms of Reference for the proposed Rough Stone quarry lease over an extent of 3.32.5 Ha at S.F.Nos 509/1(PART) & 15/1A2(PART), MADUKKARAI and PALATHURAI Village, Coimbatore South Taluk, Coimbatore District Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 3,32,018 cu.m of rough stone, 10,123 cu.m of Weathered Rock and 754 cu.m of Gravel. The annual peak production is 74,265 cu.m of rough stone (4<sup>th</sup> year), 10,123 cu.m of Weathered Rock (1<sup>st</sup> year) and 754 cu.m of Gravel (1<sup>st</sup> year). The ultimate depth is 51m BGL (2m – Gravel, 4m – Weathered Rock & 45m – Rough Stone).

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

1. Permanent structures (belonging to the PP/not belonging to the PP, Type/Age of construction, presence of inhabitants & distance) located within 600 m from the vicinity of the proposed site shall be surveyed & the same shall be enumerated and the mitigation measures for these structures from the dust pollution, blast-induced ground vibration/noise, fly rock due to the quarrying operations shall be accordingly detailed in EIA report.
2. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect

groundwater. Necessary data and documentation in this regard may be provided.

3. The PP shall furnish the certified compliance report obtained from MoEF&CC on existing EC issued.
4. The PP shall explore the possibilities of amalgamation of the leases in the proposed cluster site.
5. The PP shall furnish DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
6. The PP shall provide individual notice regarding the Public Hearing to the nearby house owners located in the vicinity of the project site.
7. In the case of proposed lease in an existing (or old) quarry, where the benches are nonexistent (or) partially formed critical of the bench geometry approved in the Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the 'highwall' benches to ensure slope stability in the proposed quarry lease which shall be vetted and endorsed by the concerned Asst. Director of Geology and Mining.
8. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry indicating the proposed stabilizing measures endorsed by AD G&M.
6. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager directly employed by the proponent.
7. As the habitations are situated at a distance of 300 m, the PP shall present a conceptual design for carrying out the NONEL initiation based controlled blasting operation involving line drilling / muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 20 m from the blast site.

  
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8. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure (SOP) for carrying out the safe blasting operation while considering the adjacent quarries lies in a radial distance of 500 m from their quarry.
9. Details of Green belt & fencing shall be included in the EIA Report.
10. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
11. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
  - a) What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - b) Quantity of minerals mined out.
  - c) Highest production achieved in any one year
  - d) Detail of approved depth of mining.
  - e) Actual depth of the mining achieved earlier.
  - f) Name of the person already mined in that leases area.
  - g) If EC and CTO already obtained, the copy of the same shall be submitted.
  - h) Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
12. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
13. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc..
14. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the

approved mining plan.

15. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
16. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
17. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
18. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
19. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
20. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
21. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
22. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which

- attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
23. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
24. Impact on local transport infrastructure due to the Project should be indicated.
25. A tree survey study shall be carried out (nos., name of the species, age, diameter etc..) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
26. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
27. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
28. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
29. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
30. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
31. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of

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

  
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40. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
41. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
42. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda No: 302-03


(File No: 9308/2022)

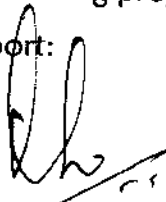
Proposed Rough Stone & Gravel quarry Lease over an extent of 2.39.0 Ha at S.F.No. 70/2 & 70/3 in Myleripalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu by. Tvl. Sri Vetri Velavan Blue Metals – For Terms of Reference.  
(SIA/TN/MIN/77781/2022 dated.04.06.2022)

The SEAC noted the following:

1. The project proponent, Tvl. Sri Vetri Velavan Blue Metals has applied for Terms of Reference for the proposed Rough stone & Gravel quarry lease over an extent of 2.39.0 at S.F.Nos. 70/2 & 70/3 in Myleripalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category “B1” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. The mining plan is for 5 years. The production for 5 years not to exceed 3,10,791 cu.m of rough stone and 38,618 cu.m of gravel with an ultimate depth of 34m below ground level.

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

  
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1. The PP shall furnish the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
2. The PP shall furnish a letter obtained from Village Administrative Officer stating the habitations, river bodies, temples, school/colleges and other structures of importance, etc situated in the radius of 300m from the proposed site.
3. The PP shall furnish document evidence for the land registered in the name of Tvl. Sri Vetri Velavan Blue Metals.
4. Permanent structures (belonging to the PP/not belonging to the PP, Type/Age of construction, presence of inhabitants & distance) located within 600m from the vicinity of the proposed site shall be surveyed & the same shall be enumerated and the mitigation measures for these structures from the dust pollution, blast-induced ground vibration/noise, fly rock due to the quarrying operations shall be accordingly detailed in EIA report.
5. The PP shall provide conceptual design for carrying out the NONEL initiation based controlled blasting operation involving muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 30 m from the blast site.
6. In the case of proposed lease in an existing (or old) quarry where the benches are nonexistent (or) partially formed critical of the bench geometry approved in the Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the 'highwall' benches to ensure slope stability in the proposed quarry lease which shall be vetted by the concerned Asst. Director of Geology and Mining as a part of the Mining Plan, during the time of appraisal for obtaining the EC.
7. The Proponent shall submit a conceptual 'Slope Stability Plan' for the existing quarried area and the proposed mine indicating the possible stabilizing measures as a part of the Mining Plan during the appraisal while obtaining the EC, as the depth of the working is extended beyond 30 m below ground level.
8. The PP shall carry out Bio diversity study through reputed academic research institution and the same shall be included in EIA Report.

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

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

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

32. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
33. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
34. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
35. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.

39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
41. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda No: 302-04


(File No: 6404/2020)

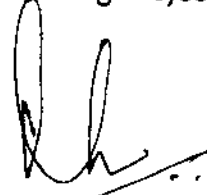
Proposed Lime stone quarry lease over an extent of 1.135 Ha at S.F. Nos. 257/1 & 257/2 of Kallakudi Village, Lalgudi Taluk, Trichy District, Tamil Nadu by M/s.Dalmia Cement (Bharat) Limited – For Environmental Clearance. (under Violation category)(SIA/TN/MIN/ 76804/2018 dated 14.05.2022)

The proposal was placed in this 302<sup>nd</sup> Meeting of SEAC held on 18.08.2022. The details of the project furnished by the proponent are available in the website ([www.parivesh.nic.in](http://www.parivesh.nic.in)).

The SEAC noted the following:

1. The Project Proponent, M/s.Dalmia Cement (Bharat) Limited has applied for Environmental Clearance for the proposed Lime stone quarry lease over an extent of 1.135 Ha S.F. Nos. 257/1 & 257/2 of Kallakudi Village, Lalgudi Taluk, Trichy District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

  
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3. From the Review of Mining Plan approved by the competent authority, the mine was operated under deemed extension as per rule 24A(6) of MCR1960 but however as per the recent MMDR Amendment Act 2015, the validity of the mining lease is extended upto 31.03.2030. It has also been ascertained that the total production quantity should not exceed 27171 Tonnes which includes 20991 Tonnes of Lime stone and 6180 Tonnes of Marl with maintaining the annual peak production of 9978 Tonnes of Lime stone (5<sup>th</sup> year) and 2520 Tonnes of Marl (2<sup>nd</sup> year) .
4. TOR vide Lr. SEIAA-TN/F.No.6404/TOR-357/2018 dt. 17.05.2018.
5. Public Hearing held on 05.05.2022.

Based on the details and documents furnished by the PP, as it is a violation case, SEAC has decided to make site inspection by a sub Committee to be constituted by the SEAC and on the receipt of report of the subcommittee further deliberations will be done.

Agenda No: 302-05


(File No: 7671/2020)

Proposed Brick Earth quarry lease over an extent of 1.78.0 Ha at S.F.Nos. 3/4B,64/2,64/3,64/4,64/5,64/6 and 295/2C of Sirakikottai Group Village, Paramakudi Taluk, Ramanathapuram District, Tamil Nadu by Thiru.A.Amburose- For Environmental Clearance. (SIA/TN/MIN/164959/2020 dated 24.07.2020)

The proposal was placed in this 302<sup>nd</sup> Meeting of SEAC held on 18.08.2022. The details of the project furnished by the proponent are available in the website ([www.parivesh.nic.in](http://www.parivesh.nic.in)).

The SEAC noted the following:

1. The Project Proponent, Thiru.A.Amburose has applied for Environmental Clearance for the proposed Brick Earth quarry lease over an extent of 1.78.0 Ha at S.F.Nos. 3/4B,64/2,64/3,64/4,64/5,64/6 and 295/2C of Sirakikottai Group Village, Paramakudi Taluk, Ramanathapuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

  
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3. As per mining plan, the lease period is for 1 years, the total quantity of recoverable should not exceed 10,721 cum of Brick Earth, with an ultimate depth of mining is 1 m.

The Committee noted the following:

1. The proposal covers non-contiguous blocks.
2. The Project proponent has applied seeking common Environmental Clearance for mining Brick Earth from both the project sites.
3. The Proponent has furnished Soil analysis report pertaining to only one project site.
4. The lease deed furnished by the Proponent is unregistered.

Further, the Committee had observed the provisions given in the clause 6 (1) (c) of MMDR Act, 1957 which says that

*"(1) No person shall acquire in respect of any mineral or prescribed group of associated minerals [in a State] –*

*(c) "any reconnaissance permit, mining lease or prospecting licence in respect of any area which is not compact or contiguous".*

Here, it has been noted that the permission is granted for a single mining lease comprises of two different areas.

Hence the Committee decided to request SEIAA to obtain explanation from the concerned AD/Mines for the non-compliance of the above Rule. On receipt of the reply, the Committee will deliberate further and decide future course of action.

Agenda No: 302-06

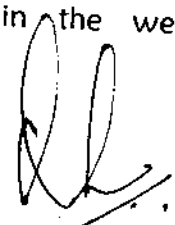
(File No: 9309/2020)

Proposed Rough Stone and Gravel quarry lease area over an extent of 4.90.0 Ha at S.F.No. 340 (Part) & 341/3 (Part) in Bellathi Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu by Thiru. R.K. Palanisamy - For Terms of Reference. (SIA/TN/MIN/77789/2022, dated: 30.05.2022).

The proposal was placed in this 302<sup>nd</sup> Meeting of SEAC held on 18.08.2022. The details of the project furnished by the proponent are available in the website ([www.parivesh.nic.in](http://www.parivesh.nic.in)).

The SEAC noted the following:

  
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1. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.

Sl. No.	Details of the proposal	Data Furnished
1.	Name of the Owner / Firm	Thiru. R.K. Palanisamy S/o. T.Karivaradha Goundar No. 4/51, Ramapalayam Jadayampalayam Mettupalayam Taluk Coimbatore - 641302
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough stone and Gravel quarry
3.	S.F No. of the quarry site with area break-up	S.F.No. 340 (Part) & 341/3 (Part)
4.	Village in which situated	Bellathi Village
5.	Taluk in which situated	Mettupalayam Taluk
6.	District in which situated	Coimbatore District
7.	Extent of Quarry (in ha.)	4.90.0 Ha
8.	Period of Quarrying proposed	Five years
9.	Type of Mining	Opencast Mechanized Mining
10.	Production (Quantity in m <sup>3</sup> )	As per the mining plan, the lease period is for 5 years & mining plan is for 5 years. 3,42,504m <sup>3</sup> of Rough Stone and 22,512m <sup>3</sup> of Gravel . The Annual peak production as per mining plan is 79250 m <sup>3</sup> of rough stone (5 <sup>th</sup> year) 11256m <sup>3</sup> of Gravel (1 <sup>st</sup> year) .
11.	Latitude & Longitude of all corners of the quarry site	11°15'04.00"N to 11°15'10.68"N 76°58'58.06"E to 76°59'07.10"E
12.	Topo sheet No.	58A/15
13.	Man power requirement per day:	33 Employees
14.	Precise Area Communication approved by the District Collector Pudukkottai District with date	Rc.No. 815/Mines/2021, Dated: 20.09.2021
15.	Mining plan approved by the Deputy Director	Rc.No. 815/Mines/2021, Dated: 15.12.2021

	of Geology and Mining with date	
16.	500mts letter approved by the Deputy Director of Geology and Mining with date	Rc.No. 815/Mines/2021, Dated: 15.12.2021
17.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression 3. Green Belt (in KLD)	3.0KLD 0.6KLD (Water vendor) 2.0 KLD 0.4 KLD Source : From existing, bore wells and drinking water will be sourced from Approved water vendors.
18.	Power requirement: a. Domestic purpose b. Machinery works	TNEB . 2,77,750Liters of HSD will be utilized for entire project life.
19.	Depth of Mining	42m below ground level (2m Gravel+ 40m Rough stone)
20.	Depth of Water table	61-56m depth from ground level
21.	Whether any habitation within 300m distance	No
22.	Project cost	Rs. 81,56,000/-
23.	EMP cost	Rs. 3,80,000/-
24.	VAO letter dated	04.10.2021

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

1. The PP shall provide a certified compliance report obtained from MOEF&CC on existing EC.
2. The PP shall furnish DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
3. The PP shall enumerate the all structures located within 500m radius from the project site and discuss the impact on the them by this project in the EIA report.

  
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4. The project proponent shall upload the essential documents such as the mining plan, precise area communication, mining plan letter etc along with the Powerpoint presentation in the PARIVESH portal before placing the subject to SEIAA.
5. The PP shall provide conceptual design for carrying out the NONEL initiation based controlled blasting operation involving muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 30 m from the blast site.
6. In the case of proposed lease in an existing (or old) quarry where the benches are nonexistent (or) partially formed critical of the bench geometry approved in the Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the 'highwall' benches to ensure slope stability in the proposed quarry lease which shall be vetted by the concerned Asst. Director of Geology and Mining as a part of the Mining Plan, during the time of appraisal for obtaining the EC.
7. The Proponent shall submit a conceptual 'Slope Stability Plan' for the existing quarried area and the proposed mine indicating the possible stabilizing measures as a part of the Mining Plan during the appraisal while obtaining the EC, as the depth of the working is extended beyond 30 m below ground level.
8. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
9. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
10. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
  - a) What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - b) Quantity of minerals mined out.

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

groundwater. Necessary data and documentation in this regard may be provided.

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

- etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
26. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
27. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
28. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
29. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
30. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
31. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
32. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
33. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease

period.

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



the Environment (Protection) Act, 1986.

Agenda No: 302-07

(File No: 9331/2022)

Proposed Rough Stone & gravel quarry lease over an extent of 2.05.0 Ha at S.F.No. 603/1, 3, 604/2, 605/1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 & 23 of Lembalakudi Village, Thirumayam Taluk, Pudukkottai District, Tamil nadu State by Thiru. R.Balu - for Terms of Reference (SIA/TN/MIN/78332/2022 Dt.14.06.2022)

The proposal was placed in this 302<sup>nd</sup> Meeting of SEAC held on 17.08.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


The SEAC noted the following

1. The Project Proponent, Thiru. R.Balu has applied for Terms of Reference for the proposed Rough Stone & gravel quarry lease over an extent of 2.05.0 Ha at S.F.No. 603/1, 3, 604/2, 605/1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 & 23 of Lembalakudi Village, Thirumayam Taluk, Pudukkottai District, Tamilnadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 5,31,430 cu.m of rough stone & 35,092 cu.m of gravel.

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

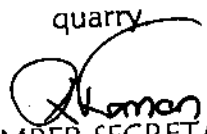
1. The PP shall provide a certified compliance report obtained from MOEF&CC on existing EC.
2. The PP shall provide the impact of the proposed quarrying activity on the lake and other surrounding water bodies which are existing within 1 km radius from the mining lease area shall be furnished.
3. The project proponent shall upload the essential documents such as the mining plan, precise area communication, mining plan letter etc along with the Powerpoint presentation in the PARIVESH portal before placing the subject to


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4. It has been noted that out of 2.05.0 Ha of land, 1.70 Ha of land falls under Nanjai classification as per the revenue record. Hence, the project proponent shall submit the land use reclassification from the competent Authority for the proposed mining activity.
5. The PP shall furnish DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
4. As the habitations are located at a distance in the range of 250 -300 m, the PP shall provide conceptual design for carrying out the NONEL initiation based controlled blasting operation involving muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 30 m from the blast site.
5. In the case of proposed lease in an existing (or old) quarry where the benches are nonexistent (or) partially formed critical of the bench geometry approved in the Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the 'highwall' benches in the existing quarried pit and the proposed pit indicating the possible stabilizing measures to ensure slope stability as the depth of the planned working is extended beyond 30 m below ground level which shall be submitted as a part of the revised Mining Plan, during the time of appraisal for obtaining the EC.
6. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
7. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
8. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure for carrying out the safe blasting operation while considering the adjacent quarries lies in a radial distance of 500 m from their quarry

  
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9. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
10. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines.
- What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - Quantity of minerals mined out.
  - Highest production achieved in any one year
  - Detail of approved depth of mining.
  - Actual depth of the mining achieved earlier.
  - Name of the person already mined in that leases area.
  - If EC and CTO already obtained, the copy of the same shall be submitted.
  - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
11. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
12. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,
13. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
14. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
15. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety

and to protect the environment.

16. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
17. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
18. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
19. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
20. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
21. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
22. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such

as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.

23. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
24. Impact on local transport infrastructure due to the Project should be indicated.
25. A tree survey study shall be carried out (nos., name of the species, age, diameter etc..) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
26. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
27. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
28. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
29. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
30. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
31. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.

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

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

41. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
42. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

**Agenda No: 302 -08**

**(File No: 9352/2022)**

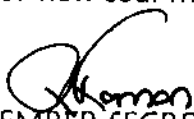
**Proposed Manufacturing of API & API Intermediates at Plot No. 6 & 7, SIPCOT Industrial Park, SEZ - Bargur, Krishnagiri District (B-District) – Tamil Nadu by M/s. Redun Pharma LLP - for Terms of Reference (SIA/TN/IND3/76394/2022 Dt.21.06.2022)**

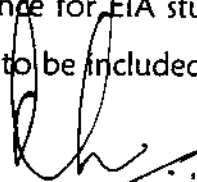
The proposal was placed in this 302<sup>nd</sup> Meeting of SEAC held on 17.08.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, M/s. Redun Pharma LLP has applied for Terms of Reference for the Proposed Manufacturing of API & API Intermediates at Plot No. 6 & 7, SIPCOT Industrial Park, SEZ- Bargur, Krishnagiri District (B-District).
2. The proposed quarry/activity is covered under Category “B1” of Item 5(f) “Synthetic Organic chemicals (Bulk Drugs and Intermediates-(API))” of the Schedule to the EIA Notification, 2006 as amended.
3. The project proponent requested an exemption from a public hearing since the project is located in the notified industrial area.

Based on the presentation made by the proponent, SEAC recommended grant of Terms of Reference (TOR) with the exemption of Public hearing as per para 7(i) III Stage (3)(i)(b) of EIA Notification, 2006 for preparation of EIA/EMP Report subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in

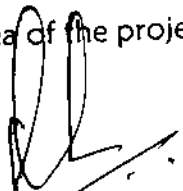
  
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EIA/EMP Report:

1. The project proponent shall explore the possibilities of utilizing the noncoal fuel like LPG, LNG, etc for the Boilers.
2. The project proponent shall build the industry based on green building norms.
3. The project proponent shall provide a plan of action for utilization of 20 % of renewal energy like Solar panels before applying CTO from TNPCB and after commencement of the plant for every year 10 % shall be increased upto 50% ( 3<sup>rd</sup> year).
4. It has been noticed that around 1200 T of Raw materials are used to get 8.4 MTPA of products. Hence, the project proponent shall explore the possibilities of reducing the raw material (solvent) by adopting alternate processes and technology.
5. A comparison of details shall be furnished in terms of process, technology, raw material, use, waste generated, and how it's disposed of.
6. Details of the type of the industries located in the SIPCOT and monitored pollution levels shall be furnished.
7. The MSDS of all chemicals to be used in the industry should be furnished with the significance of the chemicals in terms of risk to public health.
8. The usage of the chemicals and the process involved in the final product to be discussed in detail in the EIA report with appropriate material balance at every stage.
9. The details of the strengthening of the ETP and Air Pollution control measures should be detailed.
10. The Project proponent shall adopt eco-friendly process to ensure reduction in disposable salt generated and in case if disposal salts are generated, shall explore the possibility of recovery & reuse.
11. The proponent shall form an Environmental Cell and furnish the detail along with EIA.
12. The proponent shall furnish the layout plan for the greenbelt area earmarked with GPS coordinates with maximum area on the periphery of the unit and the green belt area should not be less than 33% of the total land area of the project.

  
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13. The proponent shall submit, in a matrix form, details of raw materials used per day/batch and per month and their conversion into final product, by product and waste generated.
14. The process flow diagram should include a quantity of various items, the effluents air emissions / hazardous waste generated including the quantity and their characteristics, appropriate pollution control measures contemplated for controlling each category of pollution, and the pollutants getting discharged into the environment including the quantity as well as the characteristics.
15. The EIA should cover the possible impacts starting from unloading of chemicals, storage, process and finally letting into the environment.
16. The EIA should concentrate on specific pollutants emanated from the industry in addition to the normal pollutants which are dealt with in EIA study. The project proponent should focus concentrate on the Volatile Organic Compounds (VOC) being one of the primary pollutants from the industry.
17. The occupational safety and health should be detailed to include the threat from the VOC exposure. In the same way, the exposure likely to be in nearby Village also to be studied.
18. The odour from the fugitive emissions will be a major problem. The project proponent should formulate measures to monitor and control the odour appropriately.
19. Details on how the reactors are cleaned and how the residues are collected and disposed shall be elaborated.
20. Any washing of reactor with water is done such waste water shall be considered as effluent and the same shall be sent to proposed ETP. Accordingly, the project proponent shall design the ETP.
21. Hazardous waste generated shall be clearly identified and shall be disposed to TNPCB authorized recyclers. The project proponent shall furnish the proposal for Hazardous waste management.
22. EIA shall contain material balance indicating any by products, solid waste, etc
23. Fugitive emissions generated from the other activities shall be collected through adequate ducting system and provided with wet scrubbers.

  
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24. Details of the procedures adopted for the regular health check-ups for the staff shall be furnished.
25. Details of extra safety standards against anticipated exhaust and exposures by the project proponent to be furnished and its impact on workers including disorders and disabilities to be listed. Will exposures have any impact on workers. Can it cause disorders and disabilities?
26. Proper disaster management plan considering the worst-case scenario shall be furnished.
27. The physical and chemical characteristics of all the chemicals shall be listed in the EIA report
28. A letter from DFO concern shall be obtained from the proposed project site to the nearest ESA like National park/sanctuary etc.
29. Details of the by-products disposal methodology shall be elaborated.
30. The project proponent shall obtain permission from the PESO and industrial safety department for the storage of solvent within the unit premises.
31. Details on the Risk assessment, Disaster management plan and occupational health safety survey shall be furnished with mitigation measures.
32. Risk assessment process for all the operations involved in the plant and a suitable risk management plan showing the counter of sensitive zones should be prepared.
33. To prepare a code of practice for safe operation for educating the safety standards to the workforce deployed in the plant through appropriate training by the concerned experts.

Agenda No: 302-09

(File No.7722/2020)

Proposed Rough Stone and Gravel quarry lease over an extent of 1.82.0 Ha at S.F.No. 396/2A of Morattupalayam Village, Uthukuli Taluk, Tiruppur District, Tamil Nadu by Thiru.P.Dharmaselvan for Environmental Clearance (SIA/TN/MIN/55428/2020, Dt.25.09.2021)

The proposal was placed in this 302<sup>nd</sup> Meeting of SEAC held on 17.08.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

  
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1. The Project Proponent, Thiru.P.Dharmaselvan as applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of 1.82.0 Ha at S.F.No. 396/2A of Morattupalayam Village, Uthukuli Taluk, Tiruppur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. TOR was issued vide Lr.No. SEIAA-TN/F.No.7722/SEAC/ToR-817/2020 Dated: 11.11.2020 was issued for ultimate depth of 40m and quantity of 172983 m3 of Rough stone and 12535 m3 of Gravel for a period of five years.
4. Public Hearing was conducted on 23.08.2021.
5. The precise area communication was issued for the period of 5 years. The approved mining plan was issued for the period of five years & as per approved mining plan, the production should not exceed 172983 Cu.m of Rough Stone & 12535 Cu.m of Gravel. The annual peak production is 44240 Cu.m of Rough Stone (3<sup>rd</sup> Year) & 7370 Cu.m of Gravel (2<sup>nd</sup> Year). The ultimate depth is 40m BGL.

The project proponent & EIA coordinator has informed that the Certified Compliance Report is yet to be obtained for the previous EC/mine lease period 28.05.2015 to 27.05.2020 and requested time to submit the same. In view of the above, SEAC has decided to appraise this proposal in any one of the forthcoming SEAC meeting after the receipt of Certified Compliance Report obtained for the previous EC/mine lease period 28.05.2015 to 27.05.2020.

Agenda No: 302 – 10.


(File No.9332/2022)

Proposed Rough Stone quarry lease over an extent of 1.50.0 Ha at S.F. No. 106(Part-2) of Palapatti Village, Vazhappadi Taluk, Salem District, Tamil Nadu by Thiru.K.Venkatraman for Terms of References (SIA/TN/MIN/70643/2021, Dt.03.01.2022).

The proposal was placed in this 302<sup>nd</sup> Meeting of SEAC held on 17.08.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


The SEAC noted the following

1. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

  
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Sl. No	Details of the proposal	
1	Name of the Owner/Firm	Thiru.K.Venkatraman No. 74A/77A, Narayanan Pillai street Peramanur Salem – 636115.
2	Type of quarrying (	Rough Stone
3	S.F No. Of the quarry site with area break-up	106 (Part II)
4	Village in which situated	Palapatti
5	Taluk in which situated	Vazhapaddi
6	District in which situated	Salem
7	Extent of quarry (in ha.)	1.50.0 Ha
8	Latitude & Longitude of all corners of the quarry site	11°42'30.41"N to 11°42'28.96"N 78°18'06.24"E to 78°18'00.47"E
9	Topo Sheet No.	58-I/ 06
10	Type of mining	Opencast Semi-Mechanized of Mining
11	Period of quarrying proposed	5 years
12	Production (Quantity in m <sup>3</sup> )	The precise area communication was issued for the period of 10 years. The approved mining plan was issued for the period of five years & as per approved mining plan, the production should not exceed 302716 Cu.m of Rough Stone & 11700 Cu.m of Topsoil. The annual peak production is 90576 Cu.m of Rough Stone (1 <sup>st</sup> Year). The ultimate depth is 43m (18m AGL+ 25 BGL).
13	Depth of quarrying	43m (18m AGL+ 25 BGL).
14	Depth of water table	70m
15	Man Power requirement per day:	18 Nos.
16	Source of Water Requirement	water vendors
17	Water requirement:	1.81 KLD
	1. Drinking & domestic purposes (in KLD)	0.81 KLD
		0.5 KLD
		0.5 KLD

  
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	2. Dust suppression , Green Belt & Wet Drilling (in KLD)	
18	Power requirement a. Domestic Purpose b. Industrial Purpose	TNEB 244123 Liters of HSD
19	Whether any habitation within 300m distance	: No
20	Precise area communication approved by the, District Collector, with date	: Rc.No.186/2020/Kanimam/A, Dated: 28.05.2020
21	Mining Plan approved by Deputy Director, Department of Geology and Mining with date	: Rc.No.186/2020/Mines-A, Dated: 19.06.2020
22	Deputy Director, Department of Geology and Mining 500m cluster letter	Rc.No.186/2020/Mines-A, Dated: 26.06.2020
23	VAO certificate regarding 300m radius cluster	Letter dt: 15.06.2020
24	Project Cost (excluding EMP cost)	: Rs.70.90 Lakhs
25	EMP Cost	: Rs.3.50 Lakhs

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

1. During the EIA appraisal, the proponent shall submit the Revised Mining Plan approved by the competent authority leaving the mandatory safety distance of not less than 7.5 m on all sides of the proposed mining lease area and indicating the revised quantity of production available from the proposed quarry.

2. The proposed mine should be completely fenced and entry to general public may be ensured.
3. As the habitations are located at a distance in the range of 250 -300 m, the PP shall provide conceptual design for carrying out the NONEL initiation based controlled blasting operation involving muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 30 m from the blast site.
4. The Project Proponent (PP) shall prepare and submit an 'Slope Stability Action Plan' for the proposed pit indicating the proposed haul road keeping the benches intact as the depth of the planned working is extended beyond 30 m below ground level, as a part of the Revised Mining Plan after it is vetted by the concerned AD (Geology & Mines), during the time of appraisal for obtaining the EC.
5. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
6. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
7. The proponent should give the details of trees to be cut for mining operation and around 1000 trees have to be planted around the mining area before start of the quarrying.
8. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
9. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.

  
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10. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
- a) What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - b) Quantity of minerals mined out.
  - c) Highest production achieved in any one year
  - d) Detail of approved depth of mining.
  - e) Actual depth of the mining achieved earlier.
  - f) Name of the person already mined in that leases area.
  - g) If EC and CTO already obtained, the copy of the same shall be submitted.
  - h) Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
11. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
12. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,
13. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
14. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
15. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for

carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.

16. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
17. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
18. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
19. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
20. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
21. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
22. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and



where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.

23. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
24. Impact on local transport infrastructure due to the Project should be indicated.
25. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
26. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
27. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
28. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
29. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
30. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
31. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the **appendix-I** in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.

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

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

41. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
42. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda No: 302-11

(File No: 7688/2020)

Proposed Rough Stone Quarry lease over an extent of 5.00.0 Ha at S.F.Nos 329(Part4) Halekottah Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru.P. Subramani for Environmental Clearance (SIA/TN/MIN/54924/2020 Dated: 21.07.2020)

The proposal was placed in this 302<sup>nd</sup> meeting of SEAC held on 17.08.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following,

1. The Project Proponent, Thiru.P. Subramani has applied for Environmental Clearance for the proposed Rough Stone Quarry lease over an extent of 5.00.0 Ha at S.F.Nos 329(Part4) Halekottah Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 10 years. The mining plan is for the period of four years & production should not exceed 499018m<sup>3</sup> of Rough stone. The ultimate depth is 71m (36m AGL & 35m BGL).

Based on the presentation made by the proponent SEAC decided to obtain the following details from the PP.

1. The PP shall furnish DFO letter stating that the proximity distance of Reserve Forests (Sanamvu & others), Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.

  
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Agenda No: 302-12

(File No: 7716/2020)

Proposed Gravel quarry lease over an extent of 2.43.0 Ha in S.F.Nos. 48/2C & 48/2D Cuddalore O.T.(NMPL) Village, Cuddalore Taluk, Cuddalore District, Tamil Nadu by Thiru.N.Mani For Environmental Clearance (SIA/TN/MIN/166313/2020 Dt.03.08.2020)

The proposal was placed for appraisal in this 302<sup>nd</sup> meeting of SEAC held on 17.08.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

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

Sl. No.	Details of the proposal	
1.	Name of the Owner / Firm	Thiru.N.Mani. S/o. Natesan, No.129/39, Mian Road, Melpattampakkam, Panruti Taluk, Cuddalore District-607 104.
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Gravel quarry
3.	S.F No. of the quarry site with area break-up	48/2C & 48/2D
4.	Village in which situated	Cuddalore O.T.(NMPL)
5.	Taluk in which situated	Cuddalore
6.	District in which situated	Cuddalore
7.	Extent of Quarry (in ha.)	2.43.0 Ha
8.	Period of Quarrying proposed	Two years
9.	Type of Mining	Opencast Mechanized Mining
10.	Production (Quantity in m <sup>3</sup> )	49,915m <sup>3</sup> of gravel
11.	Latitude & Longitude of all corners of the quarry site	11°42'37.07"N to 11°42'43.93"N 79°44'01.30"E to 79°44'08.82"E
12.	Topo sheet No.	58 - M/10
13.	Man power requirement per day:	9 Employees
14.	Precise Area Communication approved by the Assistant Director, G&M, District Collector District with date	Rc.No.168/Mines/2018, Dated:08.01.2020

  
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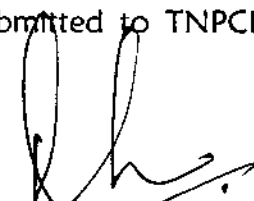
  
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15	Mining plan approved by the Assistant Director, dept of Geology and Mining, Collectorate with date	Rc.No.168/Mines/2018, Dated:13.03.2020
16	500mts letter approved by the Assistant Director, department of Geology and Mining with date	Rc.No.168/Mines/2018, Dated:23.03.2020
17	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression (In KLD) 3. Green Belt (in KLD)	3.27 KLD 0.34 KLD 1.80 KLD 1.13 KLD
18	Power requirement: a. Domestic purpose b. Machinery works	TNEB 8,320 Liters of HSD
19	Depth of Mining	4m (2m AGL + 2m BGL)
20	Depth of Water table	20m
21	Whether any habitation within 300m distance	No
22	Project cost (Excluding EMP cost)	Rs. 29,97,200
23	EMP cost	Capital Cost- Rs. 6,42,000 Recurring Cost- Rs.6,43,000
24	CER cost	Rs. 2,00,000
25	VAO letter dated	Letter Dated: 13.03.2020

Based on the presentation made by the proponent, the SEAC recommended for grant of Environmental Clearance 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 EMP cost shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCCB before applying CTO from TNPCCB.

  
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3. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
4. 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.
5. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
6. 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.
7. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management such that the neighbouring agricultural activities are environmentally protected.
8. 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 earth; and transport of the material will be carried out in accordance with the IRC Guidelines in order to comply with traffic congestion and density.
9. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
10. As accepted by the Project Proponent the CER cost is Rs. 2 lakhs and the amount shall be spent for the committed activities for Government High School, Vandipalayam village before obtaining CTO from TNPCB.

Agenda No: 302- 13

(File No: 7758/2020)

Proposed Rough Stone and Gravel quarry lease over an extent of 1.88.72Ha at S.F. No. 383/2A2B & 383/2A2A2A2 of Morattupalayam Village, Uthukuli Taluk, Tiruppur District, Tamil Nadu by Thiru.T. Thangaraj- For Environmental Clearance. (SIA/TN/MIN/55469/2020 dated 11.08.2020)

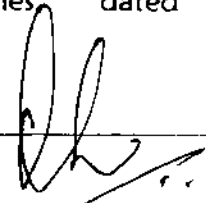
The proposal was placed in this 302<sup>nd</sup> Meeting of SEAC held on 17.08.2022. The details of the project furnished by the proponent are available in the website ([www.parivesh.nic.in](http://www.parivesh.nic.in)).

The SEAC noted the following:

1. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

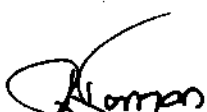
Sl. No.	Details of the proposal	
1.	Name of the Owner / Firm	Thiru.T.Thangaraj, S/o. Thevana Gounder No.20, Ayyampalayam, Uthukuli taluk, Tiruppur District, Tamil Nadu-638172.
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough Stone and Gravel quarry
3.	S.F No. of the quarry site with area break-up	383/2A2B and 383/2A2A2A2
4.	Village in which situated	Morattupalayam
5.	Taluk in which situated	Uthukuli
6.	District in which situated	Tiruppur
7.	Extent of Quarry (in ha.)	1.88.72 Ha
8.	Period of Quarrying proposed	Five years
9.	Type of Mining	Opencast semi Mechanized Mining
10.	Production (Quantity in m <sup>3</sup> )	168014 m <sup>3</sup> of Rough Stone and 14104 m <sup>3</sup> of gravel
11.	Latitude & Longitude of all corners of the quarry site	11°08'03.11"N to 11°08'06.69"N 77°25'09.67"E to 77°25'17.50"E
12.	Topo sheet No.	58 - E/080
13.	Man power requirement per day:	19 Employees
14.	Precise Area Communication approved by the Assistant Director, G&M, District Collector District with date	Rc.No. 169/2020/mines dated : 16.07.2020

  
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15.	Mining plan approved by the Assistant Director, dept of Geology and Mining, Collectorate with date	Rc.No. 169/2020/mines, dated : 29.07.2020
16.	500mts letter approved by the Assistant Director, department of Geology and Mining with date	Rc.No. 169/2020/mines, dated : 29.07.2020
17.	Water requirement: 4. Drinking & domestic purposed (in KLD) 5. Dust Suppression & Green Belt (in KLD)	6.0 KLD 0.5 KLD 3.5 KLD 2.0 KLD
18.	Power requirement: c. Domestic purpose d. Machinery works	TNEB 500 Liters of HSD
19.	Depth of Mining	42m BGL
20.	Depth of Water table	62m in summer & 58m in Rainy season
21.	Whether any habitation within 300m distance	No
22.	Project cost (excluding EMP cost)	41.12 Lakhs
23.	EMP cost	Capital cost- 11.70 Lakhs Recurring cost-18.88 lakhs
24.	CER cost	5 lakhs
25.	VAO letter dated	Enclosed
26.	TOR Issued	Lr.No.SEIAA-TN/F.No. 7758/SEAC/ToR-864/2020 Dated: 12.03.2021.
27.	Public Hearing	Public Hearing Conducted, dated: 23.08.2021
28.	EIA Report Received	EIA received on : 27.09.2021

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for an annual peak production of 34350 cu.m of rough stone & 6536 cu.m of gravel, subject to the standard conditions as per the Annexure-I of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

  
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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 mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operations per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
3. Within one year of the commencement of mining operations, the PP shall carry out the scientific studies on controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock, by involving a reputed Research and Academic Institution such as NIRM, IITs, Anna University Chennai-CEG Campus, NIT Surathkal - Dept of Mining Engg, and any other CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
4. The Project Proponent (PP) shall submit an 'Action Plan' for carrying out the realignment of the benches in the existing quarry and shall also furnish a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease as the depth of the proposed quarry is exceeding 40 m to the office of concerned AD (Mines) before obtaining CTO from TNPCB.
5. 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 40 m (or) after the completion of 3 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IITs, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
6. 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.
7. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent to the committed activities for Panchayath Union Primary School.

Karaipalayam Village before obtaining CTO from TNPCB.

Agenda No: 302-14

(File No: 9319/2022)

Proposed Rough Stone & gravel quarry lease over an extent of 4.24.0 Ha at S.F.Nos 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G, 11/2H(P), 11/2I(P), 11/2J2B & 15/2B1 Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Thiru.S.Marimuthu for Terms of Reference (SIA/TN/MIN/78295/2022 Dated: 14.06.2022)

The proposal was placed in this 302<sup>nd</sup> meeting of SEAC held on 17.08.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following,

1. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Sl. No.	Details of the proposal	Data Furnished
26.	Name of the Owner / Firm	Thiru S Marimuthu S/o. Sundaram D. No. 4/177, Melatheru Kadaneri Wathirayiruppu Virudhunagar- 626149
27.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough Stone & gravel quarry
28.	S.F No. of the quarry site with area break-up	10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G, 11/2H(P), 11/2I(P), 11/2J2B & 15/2B1
29.	Village in which situated	Kottaiyur
30.	Taluk in which situated	Virudhunagar
31.	District in which situated	Virudhunagar
32.	Extent of Quarry (in ha.)	4.24.0 Ha
33.	Period of Quarrying proposed	5 years
34.	Type of Mining	Opencast Semi-Mechanized Mining
35.	Production (Quantity in m <sup>3</sup> )	4,89,305m <sup>3</sup> of rough stone & 96,090m of Gravel
36.	Latitude & Longitude of all corners of the quarry site	09°26'11.60"N to 09°26'19.15"N 77°58'45.20"E to 77°58'56.07"E
37.	Topo sheet No.	58 G/15 & 58 K/3
38.	Man power requirement per day:	16 Employees
39.	Precise Area Communication approved by the District Collector Karur District with date	Na.Ka.No.KV1/519/2020, kanimam, Dated: 25.02.2021

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40.	Mining plan approved by the Deputy Director of Geology and Mining with date	Roc.No. KV1/519/2020/, Dated: 27.05.2022
41.	500mts letter approved by the Deputy Director of Geology and Mining with date	Roc.No. KV1/519/2020/, Dated: 27.05.2022
42.	Water requirement:	4.0 KLD
	6. Drinking & domestic purposed (in KLD)	1.0 KLD
	7. Dust Suppression (in KLD)	1.5 KLD
	8. Green Belt (in KLD)	1.5 KLD
43.	Power requirement:	
	e. Domestic purpose	TNEB
	f. Machinery works	-
44.	Depth of Mining	41m BGL
45.	Depth of Water table	60m
46.	Whether any habitation within 300m distance	No
47.	Project cost (including EMP cost)	Rs. 1,12,22,850
48.	EMP cost	Rs. 6,65,000
49.	CER cost	Rs. 2,50,000
50.	VAO letter dated	16.08.2021

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

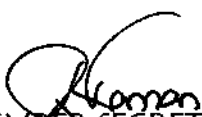
1. The PP shall include the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
2. As the habitations are located at a distance of 500 m, the PP shall provide conceptual design for carrying out the NONEL initiation based controlled blasting operation involving muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 30 m from the blast site.
3. In the case of proposed lease in an existing (or old) quarry where the benches are nonexistent (or) partially formed critical of the bench geometry approved in the Mining Plan, the Project Proponent (PP) shall prepare and submit an

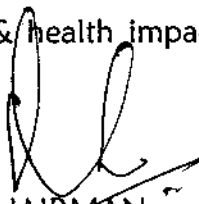
- 'Action Plan' for carrying out the realignment of the 'highwall' benches in the existing quarried pit and the proposed pit indicating the possible stabilizing measures to ensure slope stability as the depth of the planned working is extended beyond 30 m below ground level which shall be submitted as a part of the revised Mining Plan, during the time of appraisal for obtaining the EC.
4. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
  5. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
  6. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines.
    - What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
    - Quantity of minerals mined out.
    - Highest production achieved in any one year
    - Detail of approved depth of mining.
    - Actual depth of the mining achieved earlier.
    - Name of the person already mined in that leases area.
    - If EC and CTO already obtained, the copy of the same shall be submitted.
    - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
  7. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).

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

  
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Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.

15. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
16. Issues relating to Mine Safety, including slope geometry in case of Granite quarrying, blasting parameters etc. should be detailed. The proposed safeguard measures in each case should also be provided.
17. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
18. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
19. Since non-saleable waste /OB / intermediate waste etc. is huge in the granite quarry, the Proponent shall provide the details pertaining to management of the above material with year wise utilization and average moving inventory be submitted.
20. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
21. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
22. Impact on local transport infrastructure due to the Project should be indicated.

  
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23. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
24. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
25. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
26. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
27. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
28. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
29. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
30. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner

  
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31. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
32. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report.
33. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
34. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
35. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
36. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
37. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
38. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
39. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.



Agenda No: 302-15

(File No: 9333/2022)


Proposed Rough Stone quarry lease over an extent of 1.50.0 Ha at S.F.Nos 106(part IV) Palapatti Village, Vazhappadi Taluk, Salem District, Tamil Nadu by Thiru.A. Rajarajacholan for Terms of Reference (SI/TN/MIN/69164/2021 Dated: 15.11.2021)

The proposal was placed in this 302<sup>nd</sup> meeting of SEAC held on 17.08.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following,

1. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Sl. No.	Details of the proposal	
1.	Name of the Owner / Firm	Thiru.A. Rajarajacholan S/o. Alagappan No.3/22, Rajaveethi Minnampalli Vazhappadi Salem - 636106
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough Stone quarry
3.	S.F No. of the quarry site with area break-up	106(part IV)
4.	Village in which situated	Palapatti
5.	Taluk in which situated	Vazhappadi
6.	District in which situated	Salem
7.	Extent of Quarry (in ha.)	1.50.0 Ha
8.	Period of Quarrying proposed	5 years
9.	Type of Mining	Opencast Semi-Mechanized Mining
10.	Production (Quantity in m <sup>3</sup> )	3,00,650m <sup>3</sup> of Rough stone
11.	Latitude & Longitude of all corners of the quarry site	11°42'24.27"N to 11°42'22.83"N 78°18'04.05"E to 78°17'58.28"E
12.	Topo sheet No.	58-I/16
13.	Man power requirement per day:	18 Employees
14.	Precise Area Communication approved by the District Collector Karur District with date	Na.Ka.No. 188/2020/kanimam/A, Dated: 30.05.2020

  
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15.	Mining plan approved by the Deputy Director of Geology and Mining with date	Roc.No. 188/2020/Mines-A, Dated: 19.06.2020
16.	500mts letter approved by the Deputy Director of Geology and Mining with date	Roc.No. 188/2020/Mines-A, Dated: 26.06.2020
17.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression (in KLD) 3. Green Belt (in KLD)	2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD
18.	Power requirement: a. Domestic purpose b. Machinery works	TNEB 2,42,470 Liters of HSD will be used for the entire project life
19.	Depth of Mining	51m (39m AGL + 12m BGL)
20.	Depth of Water table	70m
21.	Whether any habitation within 300m distance	No
22.	Project cost (including EMP cost)	Rs. 74,40,000
23.	EMP cost	Rs. 3,50,000
24.	CER cost	-
25.	VAO letter dated	11.06.2020

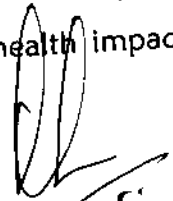
Based on the presentation made by the proponent, SEAC recommended to grant of Terms of Reference (TOR) with Public Hearing in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The PP shall include the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
2. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.

3. The Proponent shall obtain Revised mining plan with benches and leaving adjacent safety distance on all the sides of the proposed mining area.
4. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, as the depth of the working is extended beyond 30 m below ground level.
5. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
6. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
7. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
  - What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - Quantity of minerals mined out.
  - Highest production achieved in any one year
  - Detail of approved depth of mining.
  - Actual depth of the mining achieved earlier.
  - Name of the person already mined in that leases area.
  - If EC and CTO already obtained, the copy of the same shall be submitted.
  - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
8. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).

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

  
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Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.

16. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
17. Issues relating to Mine Safety, including slope geometry in case of Granite quarrying, blasting parameters etc. should be detailed. The proposed safeguard measures in each case should also be provided.
18. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
19. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
20. Since non-saleable waste /OB / intermediate waste etc. is huge in the granite quarry, the Proponent shall provide the details pertaining to management of the above material with year wise utilization and average moving inventory be submitted.
21. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
22. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
23. Impact on local transport infrastructure due to the Project should be indicated.

  
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24. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
25. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
26. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
27. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
28. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
29. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
30. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
31. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner

  
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32. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
33. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report.
34. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
35. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
36. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
37. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
38. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
39. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
40. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda No: 302-16

(File No: 9347/2022)

Proposed Rough Stone & gravel quarry lease over an extent of 0.82.0 Ha at S.F.Nos 425/29 Lembalakudi Village, Thirumayam Taluk, Pudukkottai District, Tamil Nadu by Thiru.M.Radakrishnan for Terms of Reference (SIA/TN/MIN/78404/2022 Dated: 17.06.2022)

The proposal was placed in this 302<sup>nd</sup> meeting of SEAC held on 17.08.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following,

1. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Sl. No.	Details of the proposal	
1	Name of the Owner / Firm	Thiru.M.Radakrishnan S/o. Muthuvel No. 4-32A, Parali Konapet, Thulaliyanoor Thirumayam Pudukkottai District
2	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough Stone & gravel quarry
3	S.F No. of the quarry site with area break-up	425/29
4	Village in which situated	Lembalakudi
5	Taluk in which situated	Thirumayam
6	District in which situated	Pudukkottai
7	Extent of Quarry (in ha.)	0.82.0 Ha
8	Period of Quarrying proposed	5 years
9	Type of Mining	Opencast Semi-Mechanized Mining
10	Production (Quantity in m <sup>3</sup> )	38,690m <sup>3</sup> of Rough stone & 16,206m <sup>3</sup> of Gravel
11	Latitude & Longitude of all corners of the quarry site	10°16'45.07"N to 10°16'49.40"N 78°43'26.26"E to 78°43'29.34"E
12	Topo sheet No.	58-J/11
13	Man power requirement per day:	18 Employees

  
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14	Precise Area Communication approved by the Assistant Director Pudukkottai District with date	Rc.No. 85/2021 (G&M), Dated: 30.05.2022
15	Mining plan approved by the Deputy Director of Geology and Mining with date	Rc.No. 85/2021 (G&M), Dated: 03.06.2022
16	500mts letter approved by the Deputy Director of Geology and Mining with date	Rc.No. 85/2021 (G&M), Dated: 03.06.2022
17	Water requirement:	2.0 KLD
	4. Drinking & domestic purposed (in KLD)	1.0 KLD
	5. Dust Suppression (in KLD)	0.5 KLD
	6. Green Belt (in KLD)	0.5 KLD
18	Power requirement:	
	c. Domestic purpose	TNEB
	d. Machinery works	33,6444 Liters of HSD for the entire life period
19	Depth of Mining	13m (3m Gravel + 10m Rough stone)
20	Depth of Water table	75m in summer & 70m in Rainy season
21	Whether any habitation within 300m distance	No
22	Project cost (Excluding EMP cost)	Rs. 31,56,000
23	EMP cost	Rs. 11,20,000
24	CER cost	Rs. 63,120
25	VAO letter dated	Letter Furnished

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

1. The PP shall include the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.

  
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2. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.
3. The Proponent shall submit Impact study Report on the nearby habitations.
4. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, as the depth of the working is extended beyond 30 m below ground level.
5. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
6. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
7. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
  - What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - Quantity of minerals mined out.
  - Highest production achieved in any one year
  - Detail of approved depth of mining.
  - Actual depth of the mining achieved earlier.
  - Name of the person already mined in that leases area.
  - If EC and CTO already obtained, the copy of the same shall be submitted.
  - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.

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

  
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14. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
15. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of air pollution, water pollution, & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
16. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
17. Issues relating to Mine Safety, including slope geometry in case of Granite quarrying, blasting parameters etc. should be detailed. The proposed safeguard measures in each case should also be provided.
18. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
19. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
20. Since non-saleable waste /OB / intermediate waste etc. is huge in the granite quarry, the Proponent shall provide the details pertaining to management of the above material with year wise utilization and average moving inventory be submitted.
21. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.

22. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
23. Impact on local transport infrastructure due to the Project should be indicated.
24. A tree survey study shall be carried out (nos., name of the species, age, diameter etc..) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
25. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
26. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
27. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
28. The PP shall produce/display the EIA report, Executive summery and other related information with respect to public hearing in Tamil Language also.
29. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
30. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
31. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The

proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner

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

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

Agenda No: 302-17  
(File No: 7136/2021)

Proposed Rough stone quarry Project over an Extent of 4.64.0 Hectares of Patta land in S.F.Nos. 136/1B (P), 136/1C (P), 136/2A, 136/2B, 136/2C, 136/2D, 136/2E, 371/2(P), 372/4(P), 372/6, 372/7, 372/8(P), 373(P), 376/3(P), 376/5(P), 377/5(P), 377/4(P), 377/3(P), 377/6, 377/7(P), of Athimugam Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. Kuthavakkam Properties Pvt Ltd - for Environmental Clearance (SIA/TN/MIN/64244/2021 dated 02.08.2021)


The project proposal was placed for appraisal in this 302<sup>nd</sup> meeting of SEAC held on 17.08.2022. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The Committee noted that,

1. The Project Proponent, M/s. Kuthavakkam Properties Pvt Ltd has applied seeking Environmental Clearance for the proposed Rough stone quarry Project over an Extent of 4.64.0 Hectares of Patta land in S.F.Nos. 136/1B (P), 136/1C (P), 136/2A, 136/2B, 136/2C, 136/2D, 136/2E, 371/2(P), 372/4(P), 372/6, 372/7, 372/8(P), 373(P), 376/3(P), 376/5(P), 377/5(P), 377/4(P), 377/3(P), 377/6, 377/7(P), of Athimugam Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. ToR granted vide T.O.Lr. No. SEIAA TN/F.No. 7136/SEAC/ToR-979/2019 dated 05.07.2021 for the restricted production of 14,35,521m<sup>3</sup> of Rough Stone and ultimate depth of 45m.
4. Public Hearing not conducted.
5. EIA report submitted on 05.08.2021

Based on the details furnished by the PP, the SEAC decided to call the following details from the PP.

- a. The Project Proponent shall include the letter received from DFO concerned stating the proximity details of Reserve Forests (Athimugam RF & other RF).

  
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Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.

- b. Survey Numbers of the project site mentioned in this application have been quoted in a similar proposal filed by the Project Proponent (File No.7338) and EC has already been granted for the said project. Project Proponent shall clarify the same.
- c. Project Proponent shall conduct Public Hearing as imposed in the TOR granted for the Project and revise EIA/EMP reports based on public hearing.

On receipt of the reply, the Committee decided to deliberate further and to decide on future course of action.

Agenda Item No: 302-18

(File No: 9320/2022)

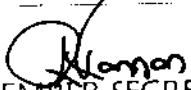
Proposed Rough Stone Quarry lease over an extent of 2.38.5Ha(Patta land) in S.F.Nos.1267/2, 1268/2, 1268/3 of Kammandoddi Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru.P. Venkatareddy- For Terms of Reference. (SIA/TN/MIN/77901/2022 dated 07.06.2022)

The proposal was placed for appraisal in this 302<sup>nd</sup> meeting of SEAC held on 17.08.2022. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.

Sl. No	Details of the proposal	
1.	Name of the Owner/Firm	: Thiru.P.Venkatareddy S/o. G. Pillareddy Kukkalapalli Kammandoddi Shoolagiri Taluk Krishnagiri - 635109
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough stone
3.	S.F No. Of the quarry site with area break-up	: 1267/2, 1268/2, 1268/3
4.	Village	: Kammandodmi

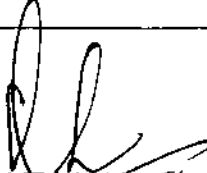
  
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5.	Taluk	:	Shoolagiri
6.	District	:	Krishnagiri
7.	Extent of quarry (in ha.)	:	2.38.5Ha (Patta land)
8.	Period of quarrying proposed	:	5 years
9.	Type of mining	:	open cast mechanized mining
10.	Production (Quantity in m3)	:	As per the scheme of mining, the lease period is for 5 years and the production for 5 years not to exceed 4,15,447 cu.m of Rough stone for an ultimate depth of 50m (1m Top soil + 49m Rough Stone & Mine waste).  The Annual peak production as per mining plan is 1,14,799 m <sup>3</sup> of Rough stone (1 <sup>st</sup> year).
11.	Depth of quarrying	:	50m (1m Top soil + 49m of Rough Stone & Mine waste)
12.	Latitude & Longitude of all corners of the quarry site	:	12°39'42.99"N to 12°39'41.44"N 77°57'41.79"E to 77°57'33.09"E
13.	Topo Sheet No.	:	57- H/14
14.	Man Power requirement per day	:	14Nos.
15.	Precise area communication	:	Roc.No.721/2015/Mines-2 Dated: 30.10.2017
16.	Mining Plan	:	Scheme of mining Roc.No.1123/2021/Mines Dated: 23.04.2021 for a period of 2022-2023 to 2026-2027.
17.	500m cluster letter	:	Rc.No. 1123/2021/Mines Dated: 19.05.2022
18.	Water requirement 3. Drinking & domestic purposes (in KLD) 4. Dust suppression & Green Belt (in KLD)	:	2.0 KLD
19.	Power requirement for domestic purpose	:	TNEB
20.	Depth of water table	:	70m-80m
21.	Whether any habitation within 300m distance	:	No as per the VAO letter dated 03.03.2022
22.	Project Cost (including EMP cost)	:	Rs.70.90 Lakh
23.	EMP cost	:	Rs. 5.0 Lakh
24.	CER cost	:	As per O.M dated 20.09.2020
25.	VAO certificate regarding habitation within 300m radius	:	Letter dated 03.03.2022


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

1. The Project Proponent shall include the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
2. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.
3. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidence.
4. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
  - What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - Quantity of minerals mined out.
  - Highest production achieved in any one year
  - Detail of approved depth of mining.
  - Actual depth of the mining achieved earlier.
  - Name of the person already mined in that leases area.
  - If EC and CTO already obtained, the copy of the same shall be submitted.
  - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
5. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).

  
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6. The PP shall carry out Drone video survey covering the cluster, green belt, fencing etc.,
7. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
8. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
9. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
10. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
11. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
12. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of air pollution, water pollution, & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
13. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.

  
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14. Issues relating to Mine Safety, including slope geometry in case of Granite quarrying, blasting parameters etc. should be detailed. The proposed safeguard measures in each case should also be provided.
15. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
16. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
17. Since non-saleable waste /OB / intermediate waste etc. is huge in the granite quarry, the Proponent shall provide the details pertaining to management of the above material with year wise utilization and average moving inventory be submitted.
18. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
19. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
20. Impact on local transport infrastructure due to the Project should be indicated.
21. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
22. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
23. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.

24. The Public Hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
25. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
26. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
27. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
28. Taller/one year old Saplings raised in appropriate size of bags; preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
29. A Disaster Management Plan shall be prepared and included in the EIA/EMP Report.
30. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report.
31. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
32. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.

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

Agenda Item No: 302-19

(File No: 9334/2022)

Proposed Rough Stone and Gravel Quarry lease over an extent of 3.85.5Ha(Patta Land) in S.F.Nos.364 of Arasampalayam Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Thiru.S. Abdul Jabbar- For Terms of Reference. (SIA/TN/MIN/78445/2022 dated 18.06.2022)

The proposal was placed for appraisal in this 302<sup>nd</sup> meeting of SEAC held on 17.08.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.

Sl. No	Details of the proposal
1.	Name of the Owner/Firm : Thiru. S. Abdul Jabbar.

  
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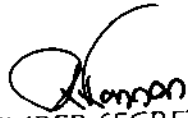
  
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		S/o. Shand Mohammed Rawther, No.3/33, Vadachithur Post, Kinathukadavu Taluk, Coimbatore- 641 202
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone and Gravel
3.	S.F No. Of the quarry site with area break-up	: 364
4.	Village	: Arasampalayam
5.	Taluk	: Kinathukadavu
6.	District	: Coimbatore
7.	Extent of quarry (in ha.)	: 3.85.5Ha (Patta land)
8.	Period of quarrying proposed	: 5 years
9.	Type of mining	: open cast mechanized mining
10.	Production (Quantity in m3)	: As per the mining plan, the lease period is for 5 years and the production for 5 years not to exceed 1,54,800 cu.m of Rough stone and 1,404 cu.m of Gravel for an ultimate depth of 47m (2m Gravel + 45m Rough Stone).  The Annual peak production as per mining plan is 36.850 m <sup>3</sup> of Rough stone (4 <sup>th</sup> year).
11.	Depth of quarrying	: 47m (2m Gravel + 45m Rough Stone)
12.	Latitude & Longitude of all corners of the quarry site	: 10° 52' 20.79"N to 10° 52' 28.84"N 77° 02' 40.22"E to 77° 02' 46.34"E
13.	Topo Sheet No.	: 58- F/01
14.	Man Power requirement per day	: 23Nos.
15.	Precise area communication	: Rc.No.911/Mines/2021, Dated: 05.04.2022
16.	Mining Plan	: Rc.No.911/Mines/2021, Dated: 22.04.2022
17.	500m cluster letter	: Rc.No.911/Mines/2021, Dated: 22.04.2022
18.	Water requirement 5. Drinking & domestic purposes (in KLD) 6. Dust suppression & Green Belt (in KLD)	: 3.0 KLD
19.	Power requirement for domestic purpose	: TNEB
20.	Depth of water table	: 60m-65m
21.	Whether any habitation within 300m distance	: No as per the VAO letter dated 19.04.2022

22.	Project Cost (including EMP cost)	:	Rs.72,22,000/-
23.	EMP cost	:	Rs. 3.80 Lakh
24.	CER cost		As per O.M dated 20.09.2020
25.	VAO certificate regarding habitation within 300m radius		Letter dated 19.04.2022

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

1. The Project Proponent shall include the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
2. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.
3. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidence.
4. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD. mines,
  - What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - Quantity of minerals mined out.
  - Highest production achieved in any one year
  - Detail of approved depth of mining.
  - Actual depth of the mining achieved earlier.
  - Name of the person already mined in that leases area.
  - If EC and CTO already obtained, the copy of the same shall be submitted.
  - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.

  
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5. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
6. The PP shall carry out Drone video survey covering the cluster, green belt, fencing etc.,
7. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
8. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
9. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act 1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
10. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
11. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
12. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of air pollution, water pollution, & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.

13. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
14. Issues relating to Mine Safety, including slope geometry in case of Granite quarrying, blasting parameters etc. should be detailed. The proposed safeguard measures in each case should also be provided.
15. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
16. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
17. Since non-saleable waste /OB / intermediate waste etc. is huge in the granite quarry, the Proponent shall provide the details pertaining to management of the above material with year wise utilization and average moving inventory be submitted.
18. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
19. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
20. Impact on local transport infrastructure due to the Project should be indicated.
21. A tree survey study shall be carried out (nos., name of the species, age, diameter etc..) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
22. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
23. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final

EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.

24. The Public Hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
25. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
26. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
27. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
28. Taller/one year old Saplings raised in appropriate size of bags; preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
29. A Disaster Management Plan shall be prepared and included in the EIA/EMP Report.
30. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report.
31. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
32. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the

proposed remedial measures should be detailed along with budgetary allocations.

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

**AGENDA ITEM No: 302-20**


(File No: 9341/2022)

Proposed Rough Stone and Gravel Quarry lease over an extent of 2.54.58 Ha (Patta land) in S.F.Nos. 509/2 of Madukkarai Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu by Thiru. M.Saravanan - For Terms of Reference.  
(SIA/TN/MIN/78617/2022 dated 20.06.2022)

The proposal was placed for appraisal in this 302<sup>nd</sup> meeting of SEAC held on 17.08.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

2. The project proponent, Thiru. M.Saravanan has applied for Terms of Reference for EIA study for the proposed Rough Stone and Gravel Quarry lease over an extent of 2.54.58 Ha (Patta land) in S.F.Nos. 509/2 of Madukkarai Village, Madukkarai Taluk, Coimbatore District.
3. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.

  
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Salient features of the Project:

Sl. No	Details of the proposal	:	Data furnished
26.	Name of the Owner/Firm	:	Thiru.M.Saravanan, S/o. Mallaiyan, No. 16/176, Palakkad Road, Marappalam, Madukkarai, Coimbatore District - 641 105
27.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Rough Stone and Gravel
28.	S.F No. Of the quarry site with area break-up	:	509/2
29.	Village	:	Madukkarai
30.	Taluk	:	Madukkarai
31.	District	:	Coimbatore
32.	Extent of quarry (in ha.)	:	2.54.58 Ha (Patta land)
33.	Period of quarrying proposed	:	5 years
34.	Type of mining	:	open cast mechanized mining
35.	Production (Quantity in m <sup>3</sup> )	:	As per the mining plan, the lease period is for 5 years and the production for 5 years not to exceed 2,33,497 cu.m of Rough stone, Weathered Rock 3,744 cu.m and 2,640 cu.m of Gravel for an ultimate depth of 46m (2m Gravel + 4m Weathered Rock + 40m Rough Stone) below ground level.  The Annual peak production as per mining plan is 66450 m <sup>3</sup> of Rough stone (2 <sup>nd</sup> year).
36.	Depth of quarrying	:	46m (2m Gravel + 4m Weathered Rock + 40m Rough Stone) below ground level
37.	Latitude & Longitude of all corners of the quarry site	:	10°53'09.8142"N to 10°53'18.1889"N 76°56'40.4454"E to 76°56'46.8417"E
38.	Topo Sheet No.	:	58 - B/13
39.	Man Power requirement per day	:	26Nos.
40.	Precise area communication	:	Rc.No. 294/Mines/2022, Dated:02.05.2022
41.	Mining Plan	:	Rc.No. 294/Mines/2022, Dated:13.05.2022

  
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42.	500m cluster letter	:	Rc.No. 294/Mines/2022, Dated:13.05.2022
43.	Water requirement 7. Drinking & domestic purposes (in KLD) 8. Dust suppression & Green Belt (in KLD)	:	2.5 KLD
44.	Power requirement for domestic purpose	:	TNEB
45.	Depth of water table	:	65m-70m
46.	Whether any habitation within 300m distance	:	No as per the VAO letter dated 13.05.2022
47.	Project Cost (including EMP cost)	:	Rs. 1,47,45,000/-
48.	EMP cost	:	Rs. 3.80 Lakh
49.	CER cost	:	As per O.M dated 20.09.2020
50.	VAO certificate regarding habitation within 300m radius	:	Letter dated 13.05.2022

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

1. The Project Proponents of this and the adjacent quarry (S.F.No. 509/1(part)) shall explore the possibility of amalgamation of the project activity so as to prevent any accidental failure of the rock structure sandwiched between the said quarries.
2. Presence of Physical structures at a distance of 600m from the proposed quarry site was noticed in the KML file. Hence the Proponent shall obtain letter from VAO detailing the places of worship along with their festival dates located within 1km radius of the project site.
3. The Project Proponent shall include the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
4. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.

  
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5. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidence.
6. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
  - What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - Quantity of minerals mined out.
  - Highest production achieved in any one year
  - Detail of approved depth of mining.
  - Actual depth of the mining achieved earlier.
  - Name of the person already mined in that leases area.
  - If EC and CTO already obtained, the copy of the same shall be submitted.
  - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
7. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
8. The PP shall carry out Drone video survey covering the cluster, green belt, fencing etc.,
9. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
10. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.

11. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act 1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
12. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
13. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
14. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of air pollution, water pollution, & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
15. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
16. Issues relating to Mine Safety, including slope geometry in case of Granite quarrying, blasting parameters etc. should be detailed. The proposed safeguard measures in each case should also be provided.
17. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
18. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.



19. Since non-saleable waste /OB / intermediate waste etc. is huge in the granite quarry, the Proponent shall provide the details pertaining to management of the above material with year wise utilization and average moving inventory be submitted.
20. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
21. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
22. Impact on local transport infrastructure due to the Project should be indicated.
23. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
24. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
25. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
26. The Public Hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
27. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
28. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
29. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO.

State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.

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

photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.

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

Agenda No: 302 - TA-1

(File No: 9297/2022)

Proposed Sand quarry over an extent of 4.98.0 Ha in Agniyaru & Nariyur river located at S.F.Nos. 1/4 (P), Echanviduthui Village, Karambakudi Taluk, Pudukkottai District Tamil Nadu by the Executive Engineer, PWD/WRD- For Environmental Clearance. (SIA/TN/MIN/273596/2022 Dt.27.5.2022)


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

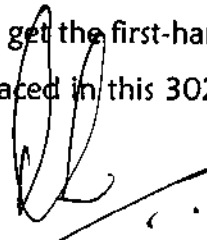
The SEAC noted the following:

1. The Proponent, Executive Engineer, PWD/WRD, has applied for Environmental Clearance proposed Sand quarry over an extent of 4.98.0 Ha in Agniyaru & Nariyur river located at S.F.Nos. 1/4 (P), Echanviduthui Village, Karambakudi Taluk, Pudukkottai District Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is One year and the mining plan for the period of One year & mining quantity should not exceed 100801 cu.m. of sand. The ultimate depth 1 metres below bed level.

Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub-Committee constituted by SEAC to assess the present Environmental Condition. On receipt of the Sub-Committee report further deliberation will be done.

The Sub-Committee of SEAC visited the project site on 11.08.2022 to collect the factual information and took photographs of the salient features of the site to get the first-hand information of the site. The Sub-Committee inspection report was placed in this 302<sup>nd</sup>

  
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Meeting of SEAC held on 17.08.2022 and the observations of the Sub-committee are as follows.

**Echanviduthi Sand Quarry:**

**a) Location of the Quarry**

Pillar No	Latitude	Longitude
1	N10° 03'17.8185"	E79°11'54.8318"
2	N10° 03'19.0725"	E79°11'56.5822"
3	N10° 03'23.2864"	E79°11'59.1525"
4	N10° 03'26.8263"	E79°12'08.9260"
5	N10° 03'25.6975"	E79°12'09.4009"
6	N10° 03'23.2351"	E79°12'01.8241"
7	N10° 03'17.8998"	E79°11'57.0992"
8	N10° 03'17.1691"	E79°11'55.1273"

**Details of the Quarry**

Sl.No	Description	Details
1	Proposal number	SIA/TN/MIN/273596/2022 dated:27.05.2022
2	File number	9297/2022
3	Proponent	The Executive Engineer, WRD., Mining and Monitoring Division, Tiruchirappalli
4	Major Project Activity	Mining of minerals
5	Category	B2
6	Project Type	Fresh EC
7	River	AGNIYAR & NARIYAR
8	Location	SF. No. 1/4(P) of Echanviduthi Village
9	Area	4.98.0 Ha
10	Quantity & Duration	1,00,801m <sup>3</sup> / 1 year
11	Depth	1m below bed level
12	Method of Mining	Open cast - mechanized mining

**Observations made by the Sub-Committee:**

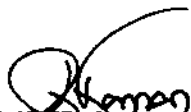
  
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- Proposed sand quarry is located in the Echanviduthi Village in SF. No.1/4(P) in the river bed of Agniyar & Nariyar.
- The dimension of the proposed sand quarry is 1170m (Avg) in length and 137m (Avg.) in width.
- Safety distance of 50m is provided from the banks of the river on either side and also from the adjacent patta lands located in the river course.
- Shoal of the sand elevated for the height of 3m from the ground level is represented by close spaced contour intervals in the geological plan is verified.
- Sand availability below 1m TBL & Shoal of thickness 1.0241m is verified in the field from the small excavation made for drainage.
- There is no infrastructures like bridge/Pump/Intake well within 500m radius both upstream & Downstream side.
- It is reported that there are no mining leases granted in this area for the past 5 years.

**Recommendations made by the Sub-Committee:**

1.	The PP shall form the temporary access roads or Katcha roads along the bank of the river to connect the stock yard with locally available bio-degradable materials such as sugarcane waste (bagasse), hay, etc.
2.	The PP shall carefully locate the proper entry and exit point taking into consideration the habitations/settlements in the area for the movement of loading vehicles in and out of the sand quarry site.
3.	It is the obligation of the Public Works Department to run the quarry in an environmentally friendly and ecologically sustainable manner.
4.	The PP shall take necessary steps to construct and strengthen the embankments of the river at the both sides during the quarrying operation.
5.	The PP shall maintain a uniform depth of excavation above the theoretical bed level during the quarrying operation such that it ensures the free flow of river course.
6.	The PP shall also carry out the closure activities in the line of planting the sand binder creepers that prevents sand erosion particularly adjacent to the side of the embankments.

  
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7. The PP shall carry out the sand quarrying activities in such a manner that it ensures safe & beneficial activity for the public as it also prevents shallow flowing of water into the surrounding agricultural lands.
8. The PP shall remove the sheds constructed at the quarry site after the exhaustion of the quantity of sand, and all the roads / pathways may be levelled so that there is no obstruction for the normal flow in the river.
9. The PP shall ensure that all precautions are taken for the water stream flows unhindered and process of Natural River meandering doesn't get affected due to mining activity.
10. The river reaches with sand provide the resource and thus it is necessary to ascertain the rate of replenishment of the mineral. Hence, the PP shall carry out the replenishment study periodically as recommended in the EMGSM-2020, to keep a balance between deposition and extraction.
11. To prevent air pollution due to the dust during sand quarrying operations and safeguard the persons in the sand quarry and depot site, constant water sprinkling on the pathways and dust prone areas shall be carried out by the PP. The sand loaded vehicles are also to be covered with a tarpaulin before moving out of the quarries/depots.
12. The PP shall follow the recommendations given in the existing two guidelines viz. "Sustainable Sand Mining Management Guideline-2016" (SSMG-2016), and "Enforcement & Monitoring Guidelines for Sand Mining" (EMGSM-2020) published by the MoEF & CC scrupulously for the management of sustainable sand extraction and monitoring of the mined-out material.

Hence, the subcommittee opines the proposal for the issue of Environmental Clearance for a Sand quarry proposed at Echanviduthi Village in SF No. 1/4(P), Karambakudi Taluk, Pudukkottai District, Tamil Nadu may be considered.

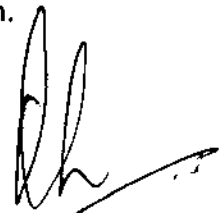
Based on the Inspection report, presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for 1,00,801 Cu.m of Sand for period of 1 Year, subject to the following specific conditions, in addition to normal conditions stipulated by MOEF & CC:

  
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1. The proponent shall fix flag posts at boundaries for the proposed mining area covering an extent of 4.98.0 Ha. There should be no deviation/ violation with respect to the area demarcated for quarrying.
2. The depth of sand quarrying shall be restricted to 1 m from the theoretical bed level.
3. A study shall be carried out on sustainable sand mining in regard to how sustainable is the proposed sand mining along with continuous collection of replenishment data for all the seasons of every year as per Enforcement & Monitoring Guidelines for Sand Mining, 2020 considering impact of sand mining on replenishment of sand and impact of sand mining on ground water table/infiltration wells around the proposed mining lease area by the reputed academic institutions like Anna University, Chennai and IIT, Madras.
4. The project proponent shall monitor the groundwater level during sand quarrying operations, a network of existing wells may be established around the sand quarrying area and new piezometers must be installed at all sand quarry sites. Monitoring of Ground Water Quality in the vicinity (one Km radius from the sand quarrying site) shall be carried out once in two months by engaging Groundwater Wing of the Water Resources Department.
5. To prevent dust pollution, suitable working methodology needs to be adopted taking wind direction into consideration.
6. At no cost the impact of sand mining should interfere with the habitation and cultivation in the nearby area along the river bed.
7. The mining area must be demarcated leaving at least 50m from the river embankment on either side.
8. Contouring of the river bed has to be taken to ascertain the relative levels of sand in the river and also to suggest the depth of sand mining.
9. To ensure safety measures along the boundary of the quarry site, security guards are to be engaged during the entire period of mining operation.

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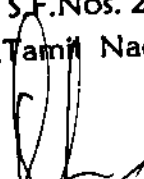
10. Wherever irrigation channels take off from the river within the boundary of the mining project, the mining operation should not affect the flow of water in the irrigation channels.
11. The entire sand mining operation should be as per the guidelines for sustainable sand mining issued in 2016 by the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

Agenda No: 302 - TA-2

(File No: 8442/2021)

Proposed Rough Stone quarry lease area over an extent of 1.54.0Ha at S.F.Nos. 2617/2 of Jeyamangalam BIT-II Village, Periyakulam Taluk, Theni District, Tamil Nadu by

  
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Tmt.V.Niranjani Vijay- For Environmental Clearance.  
(SIA/TN/MIN/202769/2021,dated: 11.03.2021).

The proposal was placed for appraisal in the 229<sup>th</sup> meeting of SEAC held on 27.08.2021. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Tmt.V.Niranjani Vijay, has applied for Environmental Clearance for the proposed Rough stone lease area over an extent of 1.54.0Ha at S.F.Nos. 2617/2 of Jeyamangalam BIT-II Village, Periyakulam 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.
3. The production for the five years states that the total quantity of recoverable as 100950 cu.m of Rough Stone, 10793 cu.m of Weathered rock & 2914 cu.m of Topsoil and the ultimate depth of mining is 18m.

Based on the presentation and documents furnished by the project proponent, SEAC note that there are 3 canals, 3 odai and one percolation tank nearby. The project proponent shall furnish the details of 2 odai nearby. The committee noted that the area is used for rain water harvesting which will benefit the agricultural land nearby. Hence the SEAC decided to visit the site by SEAC Member(s) to assess the site conditions and environmental settings.

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

In the view of above, A Subcommittee was formed by the Chairman, SEAC vide Lr.No.SEAC-TN/SEAC/Site Inspection/2022 dated 03.03.2022 and the sub committee inspected the site on 27.05.2022.

**Observations Made by the Sub-Committee:**

- The proposed quarry site lies within a beautiful and well-established mango

  
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orchard of approximately 40 acres

- The orchard has been completely fenced using barbed wire on all the sides
- On the southern side to the proposed quarry, there is a huge percolation tank which collects water from different directions of the farm.
- On the south eastern side of the percolation tank, there is a surplus arrangements (check dam) constructed which allows excess water from the percolation tank to drain to the downstream areas where agriculture activities are undertaken by farmers of the nearby villagers.
- Thus, the construction of check dam implies that percolation pond is an artificially created pond by the proponent by utilizing the odais which passes through the farm and is a feeder for downstream farm lands
- In between the proposed quarry and percolation pond a well laid is provided leading to their farm land.
- On the northern side lies the proposed quarry site which also collects rain water through a brook that originates from the adjoining small mounts as observed by SEAC.
- There is an open scrub on the north eastern side of the quarry which is about 50m from the proposed site.
- The western side of the proposed quarry is their farm land.
- Careful inspection of the proposed quarry site indicates that the drainage of water through natural streams / odais from the open scrub are being intercepted by the proponent's activities which may not allow water to flow to the downstream farm lands which are predominantly rainfed and depend on this rain water.
- It was understood from the discussions that the open scrub & small mounts also houses animals like monkeys and wild boars and they may get affected by the quarrying activities as it involves blasting
- So far, the mango orchard adjacent to the quarry is being used as practical learning center for the students of agriculture college run by the family of the Proponent
- The nearest reserve forest is Andipatti RF at 3.8 Km SE and the nearest wild life sanctuary is 6.8 km on the north western side of the proposed site.

## Recommendation


1. The odais that were originating from the small mounts (வால்கரடு மற்றும் குரும்பகரடு) are intercepted by the proponent and percolation is formed.
2. Another odai is intercepted and let into the proposed quarry itself as observed by the SEAC
3. Waterways have been disturbed in the present site and quarrying operation in the proposed site would only aggravate the situation and will not allow rain water to reach downstream farmers who are predominantly rainfed. Their livelihood may get affected by the quarrying operations
4. The open scrub area just adjacent to the proposed site also is the habitation for some of the animals like monkeys and wild boars which would be severely affected if the blasting occurs in the quarry.
5. In view of the above factors, the proposed site is not recommended for grant of EC.
6. The above Sub-committee report was placed in this 302<sup>nd</sup> Meeting of SEAC held on 17.08.2022. After detailed deliberation, the SEAC accepted the recommendation of the Sub-committee and decided not to recommend the proposal for grant of Environment Clearance to SEIAA for the reasons stated in the subcommittee inspection report stated above.

  
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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.

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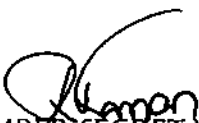
7. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
8. The Project Proponent shall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


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

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

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

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

  
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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>Acacia mangium</i>	Vilvam	வில்வம்
2	<i>Adenanthera pavonina</i>	Manjadi	மஞ்சாடி, ஆனைக்குன்றமணி
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usal	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathu	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Enclanama axillaris</i>	Kattuma	காட்டுமா
9	<i>Eriocarpus flabellifer</i>	Panai	பனை
10	<i>Esteria monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Ebaya zebra</i>	Ilavu, Servilavu	இலவு
12	<i>Euphorbia corollata</i>	Purnai	புன்னை
13	<i>Ficus religiosa</i>	Sarakondrai	சரக்கொன்றை
14	<i>Ficus roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Glycyrrhiza glabra</i>	Puramaram	பரசு மரம்
16	<i>Gonolobus confertus</i>	Kongu, Manjallavu	கோங்கு, மஞ்சள் இலவு
17	<i>Gordia dichotoma</i>	Naruvu	நருவூர்
18	<i>Grevia adansonii</i>	Mavalungum	மாவிளங்கும
19	<i>Dillenia indica</i>	Uva, Uzha	உசா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உசா
21	<i>Diospyros ebenum</i>	Karungali	கருங்காலி
22	<i>Diospyros schloroxylon</i>	Vaganai	வாகனை
23	<i>Ficus amplicarpa</i>	Kallitchi	கல் திச்சி
24	<i>Hibiscus rosa-sinensis</i>	Aanupooarasu	ஆறுப்பூவரசு
25	<i>Hedyotis corymbosa</i>	Aacha	ஆச்சா
26	<i>Holoptelea integrifolia</i>	Aavil	ஆவா மரம், ஆயில்
27	<i>Lantana camara</i>	Odhum	ஓதியம்
28	<i>Lagerströmia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Leprosanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Linum catharticum</i>	Vila maram	வில்லா மரம்
31	<i>Litsea glutinosa</i>	Pisinpattai	பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Illupai	இலுப்பை
33	<i>Mandukia hexandra</i>	UlakkaiPaalai	உலக்கை பட்டை
34	<i>Mimosa elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitrasacme parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுணா
37	<i>Morinda citrifolia</i>	Vella, Nuna	வெள்ளை நுணா
38	<i>Platanus indica</i>	Eachu	எச்சமரம்
39	<i>Pongamia pinnata</i>	Pungam	புங்கம்

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

[illegible]

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