

STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU

Minutes of 340<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 23.12.2022 (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: 340-01

(File No: 5281/2016)

Existing Rough Stone quarry lease over an extent of 2.00.0 Ha at S.F.No. 118/2 (P), Moolakkadu Village, Mettur Taluk, Salem District, Tamil Nadu by Thiru. M. Dhanraj - For Environmental Clearance. (SIA/TN/MIN/ 52210/2016Dt: 26.03.2016)

The proposal was earlier placed in 78<sup>th</sup> meeting of SEAC held on 22.07.2016. SEAC recommended for the grant of Environmental Clearance subject to conditions stated therein. Meanwhile the Authority directed the PP to apply for ToR (violation category) in accordance with MoEF&CC Notifications dated: 14.03.2017 & 08.03.2018 regarding cases of violation. However, even after repeated reminders, the Proponent did not apply for ToR (violation category). As the file was pending for long, the subject was taken up for discussion in this 340<sup>th</sup> meeting of SEAC held on 23.12.2022.

The SEAC noted the following:

1. The proponent, Thiru. M. Dhanraj has applied seeking Environmental Clearance for the Rough Stone quarry at S.F.No. 118/2 (P), Moolakkadu Village, Mettur Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. The proposed area is a Govt. Poramboke Land and lease was granted for a period of 10 years from 14.09.2009 to 13.09.2019. Hence it is a lease expired quarry.

SEAC noted that the Hon'ble National Green Tribunal (Principal Bench), New Delhi in NARESH ZARGAR VS. STATE OF MADHYA PRADESH & ORS (O.A.No.34 of 2016 dated 4.5.2016) along with connected cases, pronounced the following vide its order dated 13.01.2016:

  
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"We hereby quash and direct the State of Madhya Pradesh ad all other concerned States including Rajasthan not to issue such circulars and any other circular in variation and/or in derogation of the orders of the Tribunal.

All the district level authorities DEIAA and DEAC are directed to dispose of all the applications pending with them by 31st May, 2016 positively. We will not grant any extension of time for this purpose hereafter.

All the mines owners which of them have not submitted the applications as on 31st March, 2016 to SEIAA, DEIAA ad DEAC shall be shut down forthwith and will not be permitted to carry on any mining activity in any manner whatsoever.

The applications which are deficient and where the applications have not submitted all requisite documents, such applicants are hereby granted last opportunity of 1 week to submit the documents. In the event they fail to submit such document and make applications complete and errorless in all respects then after the stated period of 1 week they shall also be liable to be shut down without any further notice. If they comply with this direction, they would so be entitled to the advantage upto 31st May, 2016.

All the State Authorities are directed to upload on their respective websites, details of the applications pending before them as on 31st March, 2016. They will also separately classify the applications which are deficient in any respect whatsoever.

With the above directions this application is hereby disposed."

The EC application has been filed before the prescribed date of 31.03.2016 and hence SEAC decided that the application can be treated under normal category and not under 'violation' category. However, it was observed that the lease expired on 13.09.2019.

Further, the SEAC noted that there are two more applications (Online no. 64710 and 22454) filed seeking the ToR in the year 2018. Since the quarry was operating in the Govt Poramboke land, the SEAC decided to recommend to SEIAA to accept the withdrawal request made by the PP. PP should also to withdraw duplicate applications, namely, 64710 dated 18.01.2018 and 22454 dated 18.03.2018. However, SEIAA-TN shall initiate action against the lessee under section 19 of E(P) Act 1986 for the committed violation.

  
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**Agenda No.340-02**

**(File No. 5283/2016)**

**Existing Rough stone Quarry over an extent of 5.00.0 Hectare at S.F.No: 270 (Part) of Mugalur Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru.M.R.Sivalingappa - For Terms of reference under violation category. (SIA/TN/MIN/23606/2018 dated 05.04.2018)**


The proposal was placed for appraisal in this 340<sup>th</sup> meeting of SEAC held on 23.12.2022.

The SEAC noted the following:

1. The Project Proponent Thiru.M.R.Sivalingappa has applied for Terms of reference for Existing Rough stone Quarry over an extent of 5.00.0 Hectare at S.F.No: 270 (Part) of Mugalur Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed area is a Govt.Poramboke Land and lease was granted for a period of 10 years from 04.09.2008 to 03.09.2018. Hence it is a lease expired quarry.
3. The Committee further noted that there are two applications filed by the proponent in the PARIVESH Portal for the same proposal. The details are as follows:
  - i) Application for Environmental Clearance:  
SIA/TN/MIN/53558/2016 dated.07.05.2016.
  - ii) Application for Terms of Reference under violation category:  
SIA/TN/MIN/23606/2018 dated.05.04.2018.

Based on the presentation and documents furnished by the project proponent, SEAC observed that, (1) the land is Government land – tender quarry, (2) the lease period has expired and currently there is no valid lease and the question of issuing ToR for preparation of EIA report for EC does not arise (3) PP may have neither the access to the site nor the inclination to prepare damage assessment for the violation committed and (4) it is vital to enforce the principle of ‘polluter pays’ in such cases, SEAC decided to recommend the following course of action.

  
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- i. SEIAA may direct TNPCB to work out the damage assessment by following the guidelines of CPCB in this regard, after getting the relevant details from the concerned AD G&M, and take action to recover the cost.
- ii. The SEIAA may direct the Directorate of Mining and Geology(DMG) to ascertain as to whether the PP had complied with the mine closure plan as per mining plan and if the PP had not complied with the same, take appropriate action for enforcing the mining closure plan, including recovery of cost, if any. iii. The SEIAA may direct the TNPCB/DMG to file the action taken report on the basis of the above direction within a period of six months, after providing necessary opportunity to the PP in this regard in accordance with law. iv. SEIAA may initiate action under Sec.19 of EP Act against the PP.
- v. SEIAA may direct the PP to withdraw the following duplicate files

- Application for Environmental Clearance:  
SIA/TN/MIN/53558/2016 dated.07.05.2016.

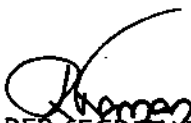
**Agenda No: 340– 03.**


**(File No. 5292/2016)**

**Existing Grey Granite quarry over an Extent of 3.15.5 Ha at S.F.Nos: 299/2, part & 301/1 Part Jagadevipalayam Village , Krishnagiri Taluk, Krishnagiri District, Tamilnaduby M/s. Karunai Granites Private Limited - for the Terms of Reference “Under Violation”. (SIA/TN/MIN/26186/2018Dated: 22.05.2018).**

The proposal was placed in 340<sup>th</sup> SEAC meeting held on 23.12.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following

1. The Project Proponent, M/S. Karunai Granites Private Limited has applied for the Environmental Clearance under Violation for the Existing Grey Granite quarry over an Extent of 3.15.5 Ha at S.F.Nos: 299/2, part & 301/1 Part Jagadevipalayam Village, Krishnagiri Taluk, Krishnagiri District, Tamilnaduby M/s. Karunai Granites Private Limited, Tamilnadu.

  
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2. The proposed quarry/activity is covered under Category "B" – "Under Violation" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The project proponent has obtained Mining lease vide Government Order (2D).No.9 Industries (E.2) Department dated 18.01.1995 for Ten years and the lease deed was executed on 02.02.1995. The period of lease is for 10 years upto 01.02.2005.
4. The Mining Plan was approved by Commissioner of Geology and Mining, Guindy, Chennai vide letter No. 14761/B1/1994 dated 22.09.1994. The lessee has preferred an application submitted on dated 28.01.2004 for renewal and the same is pending
5. The High Court Order MP. Nos. 1& 1 of 2010 & WP. Nos. 3034 & 3035 of 2010.
6. The mining lease was issued for the period of 10 years. The approved mining plan is for the period of four years & production should not exceed 143640 cu.m of RoM including 35909 cu.m of Grey Granite & 107731 cu.m of Granite Waste) along with 13794 cu.m of Weathered Granite, 1428 cu.m of Topsoil. The ultimate depth is 19m BGL.
7. MoEF&CC notification vide S.O. 804 (E) Dt. 14.3.2017.
8. MoEF & CC Notification S.O.1030 (E) dated 08.03.2018.
9. MoEF&CC Office Memorandum No. F.No. Z-11013/22/2017-IA.II (M) dated 15.03.2018.
10. MoEF &CC OM F. No. 22-10/2019-IA.111 dated 09.09.2019.
11. Hon'ble NGT(SZ) order dated 30.06.2020 in O.A.No.136 of 2017.
12. MoEF&CC, Office Memorandum Dt:12.11.2020.


Based on the presentation and documents furnished by the project proponent, SEAC decided to grant of Terms of Reference (TOR) under Violation category, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological

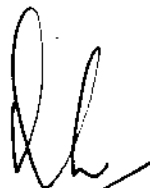
  
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damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants.


1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.
2. The Project proponent shall conduct and furnish Minutes of Public hearing as per ToR issued Dt: 18.05.2018 & 30.07.2018. Accordingly, the PP shall submit revised EIA/EMP.
3. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
4. Copy of valid mining lease approval obtained from the competent Authority.
5. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
6. Copy of request letter submitted for renewal of mining plan.
7. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
8. Copy of total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.
9. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.

  
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10. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
11. 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.
12. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
13. 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.
14. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
15. 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.
16. 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.

  
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- 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.
17. 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).
18. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,
19. 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.
20. 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.
21. 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.

  
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22. 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.
23. 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.
24. 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.
25. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
26. 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.

  
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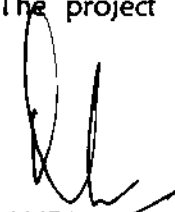
27. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
28. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts 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.
29. 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.
30. Impact on local transport infrastructure due to the Project should be indicated.
31. 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.
32. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
33. 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.
34. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
35. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.

  
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36. 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.
37. 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.
38. 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
39. 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.
40. 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.
41. 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

  
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occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

42. 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.
43. 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.
44. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
45. 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.
46. 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.
47. 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.
48. 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: 340- 04.**

**(File No. 5293/2016)**

  
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Existing Grey Granite quarry over an Extent of 11.59.0Ha at S.F.Nos: 294/4, 295/2A, 295/2B, 295/2C, 298/2, 298/1C2, 301/1(P), 301/2 & 301/3A, Jagadevipalayam Village, Krishnagiri Taluk, Krishnagiri District, Tamilnadu by M/s. Karunai Granites Private Limited - for the Terms of Reference "Under Violation". (SIA/TN/MIN/53603/2016 Dated: 10.05.2016).

The proposal was placed in 340<sup>th</sup> SEAC meeting held on 23.12.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following

1. The Project Proponent, M/S. Karunai Granites Private Limited has applied for the Environmental Clearance under Violation for the Existing Grey Granite quarry over an Extent of 11.59.0Ha at S.F.Nos: 294/4, 295/2A, 295/2B, 295/2C, 298/2, 298/1C2, 301/1(P), 301/2 & 301/3A, Jagadevipalayam Village, Krishnagiri Taluk, Krishnagiri District, Tamilnadu.
2. The proposed quarry/activity is covered under Category "B" – "Under Violation" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The project proponent has obtained Mining lease vide G.O.(3D).No.87 Industries (E.2) Department dated 2.11.1999. The lease deed was executed on 03.02.2000 and the lease will get expiry on 02.02.2010.
4. The mining plan was approved vide letter No. 2245/MM9/2004 dated 24.08.2004. The lessee has preferred an application submitted on dated 22.01.2004 for renewal and the same is pending.
5. The High Court Order MP. Nos. 1& 1 of 2010 & WP. Nos. 3034 & 3035 of 2010.
6. The mining lease was issued for the period of 10 years. The approved mining plan is for the period of four years & production should not exceed 95649 cu.m of RoM including 23913cu.m of Grey Granite & 71736cu.m of Granite Waste) along with 13794 cu.m of Weathered Granite, 1428 cu.m of Topsoil. The ultimate depth is 25 m BGL.
7. MoEF&CC notification vide S.O. 804 (E) Dt. 14.3.2017.
8. MoEF & CC Notification S.O.1030 (E) dated 08.03.2018.

  
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9. MoEF&CC Office Memorandum No. F.No. Z-11013/22/2017-IA.II (M) dated 15.03.2018.
10. MoEF &CC OM F. No. 22-10/2019-1A.111 dated 09.09.2019.
11. Hon'ble NGT(SZ) order dated 30.06.2020 in O.A.No.136 of 2017.
12. MoEF&CC, Office Memorandum Dt:12.11.2020.

Based on the presentation and documents furnished by the project proponent, SEAC decided to grant of Terms of Reference (TOR) under Violation category, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants.


1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.
2. The Project proponent shall conduct and furnish Minutes of Public hearing as per ToR issued Dt: 18.05.2018 & 30.07.2018. Accordingly, the PP shall submit revised EIA/EMP.
3. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
4. Copy of valid mining lease approval obtained from the competent Authority.
5. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.

  
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6. Copy of request letter submitted for renewal of mining plan.
7. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
8. Copy of total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.
9. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
10. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
11. 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.
  12. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
  13. 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.
  14. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
  15. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same

  
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location or elsewhere in the State with video and photographic evidences.

16. 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,

- i) What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
- j) Quantity of minerals mined out.
- k) Highest production achieved in any one year
- l) Detail of approved depth of mining.
- m) Actual depth of the mining achieved earlier.
- n) Name of the person already mined in that leases area.
- o) If EC and CTO already obtained, the copy of the same shall be submitted.
- p) Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.

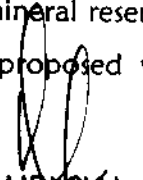
17. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).

18. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,

19. 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.

20. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working

  
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methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.


21. 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.
22. 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.
23. 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.
24. 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.
25. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.

  
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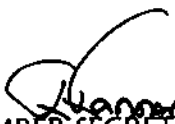
26. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
27. 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.
28. 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.
29. 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.
30. Impact on local transport infrastructure due to the Project should be indicated.
31. 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.
32. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
33. 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


  
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submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.

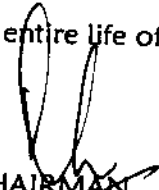
34. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
35. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
36. As a part of the study of 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.
37. 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.
38. 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
39. 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.

  
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40. 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.
41. 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.
42. 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.
43. 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.
44. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
45. 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.
46. 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.
47. 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.

  
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48. 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: 340-05**

**(File No: 5298/2016)**

**proposed of Multi-coloured Granite Quarry lease over an extent of 1.22.0Ha in S.F.No. 210/1B (P), 118/6B and 118/8B (P) of Ayakudi Village, Mannachanallur Taluk, Trichy District, Tamil Nadu by Tvl. Madhucon Granites Limited- for Terms of Reference Violation . (SIA/TN/MIN/23810/2018 Dated 08.04.2018)**

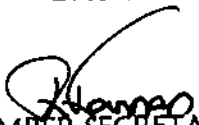
The proposal was placed in 340<sup>th</sup> Meeting of SEAC held on 23.12.2022. The details of the project furnished by the proponent are available in the website ([www.parivesh.nic.in](http://www.parivesh.nic.in)).

**The SEAC noted the following:**

1. The Project Proponent, Tvl. Madhucon Granites Limited has applied for Terms of Reference Violation for the proposed Multi-coloured Granite quarry lease over an extent of 1.22.0Ha at S.F.No.210/1B (Part), 118/6B and 118/8B (Part) of Ayakudi Village, Mannachanallur 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.

Based on the presentation and documents furnished by the project proponent, SEAC observed that,

1. The mining plan was prepared and approved by the Commissioner, Department of Geology and Mining, Guindy, Chennai vide letter No. 10665/MM2/10 dated 09.12.2011.
2. The quarry lease was granted vide G.O.(3D)No.69, Industries (MMB.1) Department, Dated: 28.12.2011 for a period of twenty years.
3. The lease deed was executed on 28.01.2012 and the lease period is valid upto 27.01.2032.

  
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4. The first Scheme of Quarrying (2017-18 to 2021-22) was not submitted.
5. Second scheme of quarrying is prepared and submitted to the competent authority for obtaining necessary approval for the period of 2022-23 to 2026-27 (Five years).
6. The PP had applied vide file no. 35480, dated 22.12.2015 which has been delisted by the Authority.
7. Further the PP had applied vide file no. 27134, dated 12.09.2017 for obtaining the Violation ToR from the SEIAA.

Besides, the PP furnished letter from AD, Geology and mining stating that the lessee has taken last permit on 23.12.2015 vide bulk permit No.12983 to transport 191.112m<sup>3</sup> of colored Granite. Further no transport permit was issued to the lessee from 24.12.2015.

Hence the committee decided that the PP shall apply a fresh application for obtaining the Environmental Clearance, enumerating the previous history involving the applications filed with the authority & quarry operation details.

In the meanwhile, the PP shall withdraw the duplicate files with online number 35480 (EC application) dated 22.12.2015 and 27134 (ToR application) dated 12.09.2017.

**Agenda No: 340-06**

**File No: 5301/2016)**

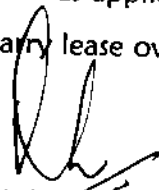
**Proposed Multi Colour Granite quarry lease over an extent of 21.85.0Ha in S.F.No: 76, Sivanthipuram Village, Ambasamudram Taluk, Tirunelveli District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited- For Terms of Reference. (SIA/TN/MIN/12143/2016 Dt.20.05.2016)**

The proposal was placed for appraisal in this 340<sup>th</sup> meeting of SEAC held on 23.12.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. Tamil Nadu Minerals Limited has applied for Terms of Reference for the Proposed Multi Colour Granite quarry lease over an

  
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extent of 21.85.0 Ha in S.F.No: 76, Sivanthipuram Village, Ambasamudram Taluk, Tirunelveli District, Tamil Nadu.

2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. The Kalakad Mundanthurai Tiger Reserve Forest is falls under within 1.55 km.

During the meeting the Committee noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

**Agenda No: 340-07**

**(File No: 5302/2016)**

**Existing Multi-Coloured Granite quarry at S.F.No. 227/1-C, Therukalladaikurichi Village, Ambasamudram Taluk, Tirunelveli District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited, - For Terms of Reference. (SIA/TN/MIN/12147/2016Dt: 20.05.2016)**

SEAC noted the following:

The proponent M/s. Tamil Nadu Minerals Limited has applied seeking Terms of Reference for the Existing Multi-Coloured Granite quarry at S.F.No. 227/1-C, Therukalladaikurichi Village, Ambasamudram Taluk, Tirunelveli District.


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


Now the proposal was placed in this 340<sup>th</sup> meeting of SEAC held on 22.12.2022. The project proponent was absent for the meeting. SEAC decided to defer the subject to a later date directing the project proponent to furnish the reason for not attending the meeting.

**Agenda No: 340-08**

**File No: 5336/2016)**

**Existing Multi Colour Granite quarry lease over an extent of 1.47.0Ha in S.F.No: 151/1A and 151/3, Eratchi Village, Ettayapuram Taluk, Thoothukudi District, Tamil Nadu by Tmt. P. Nalinikumari- For Environmental Clearance. (SIA/TN/MIN/53706/2016 Dt.12.05.2016)**

  
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The proposal was placed for appraisal in this 340<sup>th</sup> meeting of SEAC held on 23.12.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Tmt. P. Nalinikumari has applied for Environmental Clearance for the Existing Multi Colour Granite quarry lease over an extent of 1.47.0 Ha in S.F.No: 151/1A and 151/3, Eratchi Village, Ettayapuram Taluk, Thoothukudi District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. It is an existing Multi Colour Granite quarry under operation without obtaining EC and having mining lease valid up to 26.03.2031.

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

- i) The PP shall furnish a 2<sup>nd</sup> scheme of approved mining plan and approval letter obtained from Director/ Asst. Director, Department of Geology. ii) The PP shall furnish the NoC & Past Production details for the quarry operated obtained from the Director, Department of Geology and Mining.

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

**Agenda No: 340-09**


**(File No: 5345/2016)**

**Proposed Residential Development at S. No: 26/1, 32/2B, 33/1B, 34, 35/1, 36/1, 38/1 & 39 of Koladi village Maduravoyal Taluk Thiruvallur District, Tamil Nadu by M/s. Dugar Housing Ltd - For Environmental Clearance (SIA/TN/NCP/53055/2016, dated 20-05-2016)**

The proposal was placed in 340<sup>th</sup> SEAC meeting held on 23.12.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

  
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1. The Project Proponent, M/s. Dugar Housing Ltd has applied for Environmental Clearance for the Proposed Residential Development at S. No: 26/1, 32/2B, 33/1B, 34, 35/1, 36/1, 38/1 & 39 of Koladi village Maduravoyal Taluk Thiruvallur District, Tamil Nadu.
2. The project/activity is covered under Category "B" of item 8(a) "Building & Construction" of the Schedule to the EIA Notification, 2006.
3. In letter dated: 02.02.2018 submitted to O/o SEIAA, proponent has informed that "the above said application need not be processed since the proposed plans are being changed."
4. Subsequently, in this regard, a letter was addressed to the proponent from SEIAATN vide Lr.No. SEIAA-TN/F.No. 5345/2016 dated: 02.03.2018, directing the proponent to withdraw the current proposal through online and also furnish the acknowledgement for the same.

In the view of the above facts, since the proponent has submitted a letter to withdraw the proposal, SEAC decided to recommend to SEIAA to accept the withdrawal letter submitted by the proponent.

**Agenda No: 340 – 10**


**(File No. 5366/2016)**


**Existing Black Granite quarry over an extent of 1.23.0 Ha at S.F.No. 6/2E, 3C2(P), 4A, 4B(P), 6/5A1, 7/3B2, 3C, 3D, 4A & 7/4B of Karnampoondi village, Thiruvannamalai Taluk, Krishnagiri District, Tamil Nadu by Thiru. R. K. Ramesh for grant of Terms of References "Under Violation".(SIA/TN/MIN/64716/2018 dated: 22.12.2022)**

The proposal was placed in this 340th Meeting of SEAC held on 23.12.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following**

1. The Project Proponent, Thiru. R. K. Ramesh has applied for Terms of References "Under Violation" for the Existing Black Granite quarry over an extent of 1.23.0 Ha at S.F.No. 6/2E, 3C2(P), 4A, 4B(P), 6/5A1, 7/3B2, 3C, 3D, 4A & 7/4B of Karnampoondi

  
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village, Thiruvannamalai Taluk, Krishnagiri District, Tamil Nadu.

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

Based on the presentation and documents furnished by the project proponent, SEAC noted that

1. The proponent has submitted two proposals in online
  - i. SIA/TN/MIN/22440/2018 Dt: 18.03.2018 – ToR under Violation.
  - ii. SIA/TN/MIN/ 64716/2022 Dt: 22.12.2022 - ToR

Hence, the proponent is requested to submit the Year wise bulk transport permit (as per appendix XII – TNMMCR, 1959) issued by the competent authority to the lessee.

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

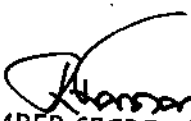
**Agenda No: 340 – 11.**

**(File No. 5367/2016)**

**Existing Black Granite quarry over an Extent of 1.03.5Ha at S.F.No. 111/2B, 4A2 & 5C2 at Karandapalli Village of Denkanikottai Taluk, Krishnagiri District, Tamilnadu by M/s.R&R Granite Imports & Exports for Terms of References "Under Violation Category".(SIA/TN/MIN/23247/2018 Dated: 06.04.2018).**

The proposal was placed in 340<sup>th</sup> SEAC meeting held on 23.12.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following

1. The Project Proponent, M/s.R&R Granite Imports & Exports has applied for the Terms of References under Violation for the Existing Black Granite quarry over an Extent of 1.03.5Ha at S.F.No. 111/2B, 4A2 & 5C2 at Karandapalli Village of Denkanikottai Taluk, Krishnagiri District, Tamilnadu.
2. The proposed quarry/activity is covered under Category "B" – "Under Violation" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.


  
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3. The project proponent has obtained Mining lease vide G.O.(3D). No.16. Industries (MME-2) department Dated 14.02.2011.
4. The mining lease was issued for the period of 20 years. The approved scheme of mining plan is for the period of five years from 2015-2020 & production quantity was 10560cu.m of RoM including 1056cu.m of Black Granite (@10% Recovery)& 9504cu.m of Granite Waste.
5. The proponent has filed three applications in the PARIVESH Portal for the same proposal. The details are as follows:
  - i) Application seeking Environmental Clearance: Proposal No.SIA/TN/MIN/53407/2016 dated.03.05.2016.
  - ii) Applications seeking ToR under violation category:
    - a) SIA/TN/MIN/27341/2018 dated:04.08.2017
    - b) SIA/TN/MIN/23247/2018 dated:06.04.2018
6. MoEF&CC notification vide S.O. 804 (E) Dt. 14.3.2017.
7. MoEF& CC Notification S.O.1030 (E) dated 08.03.2018.
8. MoEF&CC Office Memorandum No. F.No. Z-11013/22/2017-IA.II (M) dated 15.03.2018.
9. MoEF&CC OM F. No. 22-10/2019-IA.111 dated 09.09.2019.
10. Hon'ble NGT(SZ) order dated 30.06.2020 in O.A.No.136 of 2017.

The SEAC had accepted the request made by the PP to keep the file no. 23247, dated. 02.03.2018 for obtaining the violation ToR.

Based on the presentation and documents furnished by the project proponent, SEAC decided to grant of Terms of Reference (TOR) under Violation category, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants.

  
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1. The proponent shall withdraw the other two proposals SIA/TN/MIN/53407/2016 dated.03.05.2016 & SIA/TN/MIN/27341/2018 dated:04.08.2017 since they are redundant applications.
2. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.
3. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
4. Since the Cauvery North Wildlife Sanctuary is situated at a distance of 1.17 km from ESZ, the PP shall discuss the mitigation measures accordingly in the EIA Report.
5. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
6. Copy of request letter submitted for renewal of mining plan.
7. Copy of approved second scheme of mining plan by the competent authority of the Dept of Geology and Mining.
8. Copy of total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.
9. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.

  
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10. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
11. 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.
12. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
13. 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.
14. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
15. 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.
16. 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?

  
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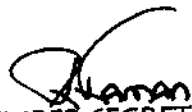
- b) Quantity of minerals mined out.
  - c) Highest production achieved in any one year
  - d) Detail of approved depth of mining.
  - e) Actual depth of the mining achieved earlier.
  - f) Name of the person already mined in that leases area.
  - g) If EC and CTO already obtained, the copy of the same shall be submitted.
  - h) Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
17. 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).
18. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,
19. 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.
20. 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.
21. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be

  
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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.

22. 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 nonmonsoon 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.
23. 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.
24. 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.
25. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
26. 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.

  
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27. 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.
28. 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.
29. 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.
30. Impact on local transport infrastructure due to the Project should be indicated.
31. 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.
32. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
33. 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.
34. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
35. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
36. 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

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

37. 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.
38. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly 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
39. 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.
40. 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.
41. 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.
42. 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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43. 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.
44. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
45. 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.
46. 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.
47. 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.
48. 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: 340 – 12**

**(File No. 5394 /2016)**

**Existing Black Granite quarry over an extent of 1.20.5 Ha at S.F.No. 505/1, 505/7, 506/3 & 506/5 of Kaveripuram Village Mettur Taluk, Salem District, Tamil Nadu by Thiru. M.R. Krishnan for grant of Terms of References "Under Violation".(SIA/TN/MIN/24353/2018 dated: 12.04.2018)**

The proposal was placed in this 340<sup>th</sup> Meeting of SEAC held on 23.12.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

  
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The SEAC noted the following

The Project Proponent, Thiru. M.R. Krishnan has applied for Terms of References "Under Violation" for the Existing Black Granite quarry over an extent of 1.20.5 Ha at S.F.No. 505/1, 505/7, 506/3 & 506/5 of Kaveripuram village Mettur Taluk, Krishnagiri District, Tamil Nadu.

1. The proposed quarry/activity is covered under Category "B" – "Under Violation" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
2. The mining lease was issued for the period of 20 years. The area was granted to the applicant from the State Government over an extent of 1.20.5 Hectares in S.F. No. 505/1,505/7,506/3 & 506/5 in Kaveripuram Village, Mettur Taluk, Salem District  
to quarry Black granite (Dolerite) blocks under G.O No.26 Industries (MMB-2) Dept. dated 12.02.2007 and lease was executed on 17.04.2007
3. The mining plan was approved by the Dept. of Geology and Mining Guindy, Chennai during the year 2007 vide letter No. 532/MM5/2006, dated 11.01.2007 and Mining Plan expires on 16th April, 2012.
4. The scheme of mining is submitted for the period of five years & production should not exceed 22,948cu.m of RoM including 2,296cu.m of Black Granite & 20,652cu.m of Granite Waste. The ultimate depth is 24 m BGL.

Based on the presentation and documents furnished by the project proponent, SEAC decided to request SEIAA-TN to grant of Terms of Reference (TOR) under Violation category, and subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants.


1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR.

  
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comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.

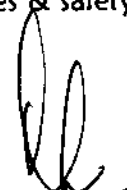
2. The proponent must submit approved scheme of mining along with EIA Report.
3. The proponent must withdraw the duplicate applications in Parivesh Portal vide Online proposal Number SIA/TN/MIN/53678/2016 dated: 12.05.2016.
4. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
5. The PP shall furnish a letter from DFO on the proximity details of nearest Reserve Forest, Wild Life sanctuaries & Protected areas with respect to the proposed project site.
6. The proponent must submit 500m cluster certificate along with EIA Report.
7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.
8. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.

  
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10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
11. 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


  
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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.

  
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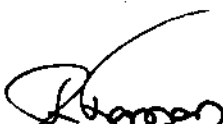
20. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
21. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements 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

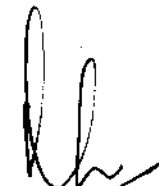
  
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EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.

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 ecofriendly 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.


  
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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.

  
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**Agenda No: 340-13**

**(File No: 5585/2016)**

**Proposed of Rough stone Quarry lease over an extent of 1.20.0Ha in S.F.Nos. 92/2 (Part)of Allabath Village, Sankarapuram Taluk, Viluppuram District, Tamil Nadu by Thiru.R.Subramanian-for Terms of Reference Violation . (SIA/TN/MIN/64715/2021)**


The proposal was placed in 340<sup>th</sup>Meeting of SEAC held on 23.12.2022. 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.R.Subramanian has applied for Terms of Reference Violation for the proposed Rough Stone quarry lease over an extent of 1.20.0Ha at S.F.No.92/2 (Part)of Aliabath Village, Sankarapuram Taluk, Viluppuram 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.

Based on the presentation and documents furnished by the project proponent, SEAC observed that, (1) the land is Government land – tender quarry, (2) the lease period has expired and currently there is no valid lease and the question of issuing ToR for preparation of EIA report for EC does not arise (3) PP may have neither the access to the site nor the inclination to prepare damage assessment for the violation committed and (4) it is vital to enforce the principle of 'polluter pays' in such cases, SEAC decided to recommend the following course of action.

- i. SEIAA may direct TNPCB to work out the damage assessment by following the guidelines of CPCB in this regard, after getting the relevant details from the concerned AD G&M, and take action to recover the cost.
- ii. The SEIAA may direct the Directorate of Mining and Geology(DMG) to ascertain as to whether the PP had complied with the mine closure plan as per mining plan and if the PP had not complied with the same, take appropriate action for enforcing the mining closure plan, including recovery of cost, if any. iii. The SEIAA may direct the TNPCB/DMG to file the action taken report on the basis of the above direction within a period of six

  
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months, after providing necessary opportunity to the PP in this regard in accordance with law.

- iv. SEIAA may initiate action under Sec.19 of EP Act against the PP.

**Agenda No: 340-14**

**(File No: 5586/2015)**

**proposed of Rough stone Quarry lease over an extent of 1.96.0 Ha in S.F.No. 184 of La Kudalur Village, Sankarapuram Taluk, Villupuram District, Tamil Nadu by Thiru.R. Subramanian - for Terms of Reference under Violation .(SIA/TN/MIN/ 64714/2018 )**

The proposal was placed in 340<sup>th</sup> Meeting of SEAC held on 23.12.2022. 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.R. Subramanian has applied for Terms of Reference under Violation for the proposed Rough stone quarry lease over an extent of 1.96.0 Ha in S.F.No. 184 of La Kudalur Village, Sankarapuram Taluk, Villupuram 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.

Based on the presentation and documents furnished by the project proponent, SEAC observed that, (1) the land is Government land – tender quarry, (2) the lease period has expired and currently there is no valid lease and the question of issuing ToR for preparation of EIA report for EC does not arise (3) PP may have neither the access to the site nor the inclination to prepare damage assessment for the violation committed and (4) it is vital to enforce the principle of 'polluter pays' in such cases, SEAC decided to recommend the following course of action.

- i. SEIAA may direct TNPCB to work out the damage assessment by following the guidelines of CPCB in this regard, after getting the relevant details from the concerned AD G&M, and take action to recover the cost.
- ii. The SEIAA may direct the Directorate of Mining and Geology(DMG) to ascertain as to whether the PP had complied with the mine closure plan as

  
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per mining plan and if the PP had not complied with the same, take appropriate action for enforcing the mining closure plan, including recovery of cost, if any. iii. The SEIAA may direct the TNPCB/DMG to file the action taken report on the basis of the above direction within a period of six months, after providing necessary opportunity to the PP in this regard in accordance with law. iv. SEIAA may initiate action under Sec.19 of EP Act against the PP.

v. PP should withdraw the duplicate file no. 22455 dated 18.03.2018.

**Agenda No: 340 – 15**

**(File No. 5625 /2016)**

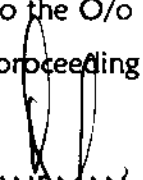
**Existing Rough Stone quarry over an extent of 1.00.0 Ha at S.F.No. 53-Part-5 of Mullandram Village Arani Taluk Tiruvannamalai District, Tamil Nadu by Thiru. P. Vasudevan for grant of Environmental Clearance. (SIA/TN/MIN/24353/2018 dated: 12.04.2018)**

The proposal was placed in this 340th Meeting of SEAC held on 23.12.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, Thiru. P. Vasudevan has applied for Environmental Clearance for the Existing Rough Stone quarry over an extent of 1.00.0 Ha at S.F.No. 53-Part-5 of Mullandram Village Arani Taluk Tiruvannamalai District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B" – "Under Violation" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Subsequently, the proponent was directed by SEIAA-TN vide Lr. No. SEIAA-TN/F.5625/2016/NGT Dated: 28.03.2018 to apply for ToR stating the violations.
4. Further, as per the mine plan submitted by the proponent to the O/o SEIAA, it is ascertained that lease was granted to the proponent vide proceeding RC. No.

  
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301/Mines-2/2008 Dated: 22.09.2008 and the lease was executed on 22.09.2008 and the lease expires on 21.09.2018.

Based on the presentation and documents furnished by the project proponent, SEAC observed that, (1) the land is Government land – tender quarry, (2) the lease period has expired and currently there is no valid lease and the question of issuing ToR for preparation of EIA report for EC does not arise (3) PP may have neither the access to the site nor the inclination to prepare damage assessment for the violation committed and (4) it is vital to enforce the principle of ‘polluter pays’ in such cases, SEAC decided to recommend the following course of action.

- i. SEIAA may direct TNPCB to work out the damage assessment by following the guidelines of CPCB in this regard, after getting the relevant details from the concerned AD G&M, and take action to recover the cost.
- ii. The SEIAA may direct the Directorate of Mining and Geology(DMG) to ascertain as to whether the PP had complied with the mine closure plan as per mining plan and if the PP had not complied with the same, take appropriate action for enforcing the mining closure plan, including recovery of cost, if any. iii. The SEIAA may direct the TNPCB/DMG to file the action taken report on the basis of the above direction within a period of six months, after providing necessary opportunity to the PP in this regard in accordance with law.
- iv. SEIAA may initiate action under Sec.19 of EP Act against the PP.

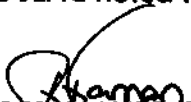
**Agenda No: 340-16.**


**(File No:5685/2018)**

**Existing Rough stone Quarry lease over an extent of 1.00.0 Ha (Government Land - Tender Quarry) at S.F.No 1/4 (Part-22) of Anandalai Village, Walajah Taluk, Vellore District, Tamil Nadu by Thiru.P. Ravikumar- for Terms of Reference under Violation. (SIA/TN/MIN/ 23213/2018 Dt:06.04.2018)**

The proposal was placed in 340<sup>th</sup> SEAC meeting held on 23.12.2022. The details of the project furnished by the proponent are available in the website ([parivesh.nic.in](http://parivesh.nic.in)).

The SEAC noted the following:

  
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1. The Project Proponent, Thiru.P. Ravikumar has applied for Terms of Reference under Violation for the Existing Rough stone Quarry lease over an extent of 1.00.0 Ha (Government Land - Tender Quarry) at S.F.No 1/4 (Part-22) of Anandalai Village, Walajah Taluk, Vellore District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Government Land - Tender Quarry mining lease vide Rc.No. 39/2009/Mines dated 19.11.2009 valid till 18.11.2019.
4. G.O. Ms.No.72/Industries (MMC.1) Department Dt: 13.05.2016 collector proceeding Rc.No. 219/2015(Mines) dated 31.05.2016.
5. G.O. Ms.No.105/Industries(MMC.1) Department Dt: 14.07.2016.
6. The mining plan was issued Roc. 219/2015/Mines Dated: 14.07.2016. The approved mining plan is for the period for a remaining period of three years five months only & Production 176172 m<sup>3</sup> of rough stone & 6400cu.m of topsoil. The Depth upto 61m (21m AGL & 40m BGL).

Based on the presentation and documents furnished by the project proponent, SEAC observed that, (1) the land is Government land – tender quarry, (2) the lease period has expired and currently there is no valid lease and the question of issuing ToR for preparation of EIA report for EC does not arise (3) PP may have neither the access to the site nor the inclination to prepare damage assessment for the violation committed and (4) it is vital to enforce the principle of 'polluter pays' in such cases, SEAC decided to recommend the following course of action.

- i. SEIAA may direct TNPCB to work out the damage assessment by following the guidelines of CPCB in this regard, after getting the relevant details from the concerned AD G&M, and take action to recover the cost.
- ii. The SEIAA may direct the Directorate of Mining and Geology(DMG) to ascertain as to whether the PP had complied with the mine closure plan as per mining plan and if the PP had not complied with the same, take appropriate action for enforcing the mining closure plan, including recovery of cost, if any.
- iii. The SEIAA may direct the TNPCB/DMG to file the action

  
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taken report on the basis of the above direction within a period of six months, after providing necessary opportunity to the PP in this regard in accordance with law.

iv. SEIAA may initiate action under Sec.19 of EP Act against the PP.

**Agenda No: 340-17**

**File No: 5763/2016)**

**Existing Quartz and Feldspar quarry lease over an extent of 2.66.5Ha in S.F.No: 64/1, 64/2, 64/3, Pillanatham Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu by Thiru. N. Loganathan- For Terms of Reference under Violation. (SIA/TN/MIN/23230/2018 Dt.06.04.2018) under Violation.**


The proposal was placed for appraisal in this 340th meeting of SEAC held on 23.12.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).


The SEAC noted the following:

1. The project proponent, Thiru. N. Loganathan has applied for Terms of Reference for the Existing Quartz and Feldspar quarry lease over an extent of 2.66.5 Ha in S.F.No: 64/1, 64/2, 64/3, Pillanatham Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation and documents furnished by the project proponent, SEAC observed that,

3. The quarry lease was granted vide R.C.No.429/minesA/2001, Dated: 02.11.2002 for a period of twenty years.
4. The lease deed was executed on 30.10.2002 and the lease period was expired on 29.10.2022
5. The mining plan (2002-03 to 2006-07) was prepared and approved by the Indian Bureau of mines, Chennai got expired.


  
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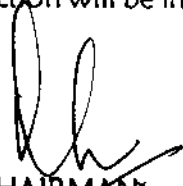
  
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6. The first Scheme of Quarrying (2007-08 to 2011-12) was not prepared and submitted.
7. As per notification of Ministry of mines, No. S.O. 423 (E) - by clause (e) of section 3 of the Mines and Minerals (Development and Regulation) Act, 1957 (67 of 1957), the central Government has declared 31 minerals including Quartz and feldspar as Minor Minerals.
8. The second Scheme of mining 2012-13 to 2016-17 was approved by the Indian Bureau of mines vide letter no TN/NMK/Q&F-648-MDS dated: 03.05.2012.
9. Final scheme of quarrying is now prepared and submitted to obtain approval for the period of 2017 – 18 to 2021-22 (Five years).

Based on the presentation and documents furnished by the project proponent, SEAC decided to grant of Terms of Reference (TOR) under Violation category, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants.

1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.
2. The Project proponent shall conduct and furnish Minutes of Public hearing as per ToR issued Dt: 18.05.2018 & 30.07.2018. Accordingly, the PP shall submit revised EIA/EMP.
3. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated


  
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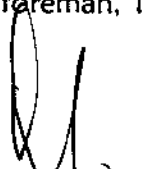
  
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by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.

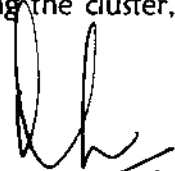
4. Copy of valid mining lease approval obtained from the competent Authority.
5. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
6. Copy of request letter submitted for renewal of mining plan.
7. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
8. Copy of total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.
9. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
10. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
11. 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.
12. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
13. 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.

  
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14. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
15. 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.
16. 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,
- i) What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - j) Quantity of minerals mined out.
  - k) Highest production achieved in any one year
  - l) Detail of approved depth of mining.
  - m) Actual depth of the mining achieved earlier.
  - n) Name of the person already mined in that leases area.
  - o) If EC and CTO already obtained, the copy of the same shall be submitted.
  - p) Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
17. 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).
18. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,

  
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19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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

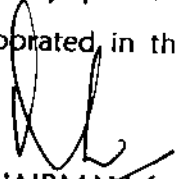
  
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Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.

25. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
26. 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.
27. 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.
28. 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.
29. 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.
30. Impact on local transport infrastructure due to the Project should be indicated.
31. 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.
32. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
33. 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

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

34. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
35. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
36. 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.
37. 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.
38. 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
39. 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.
40. 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.

  
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41. 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.
42. 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.
43. 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.
44. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
45. 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.
46. 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.
47. 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.
48. 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.

  
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Further the PP shall withdraw the duplicate file with online number 27369/2018 (ToR application) dated 27.07.2017 and 59174 (EC application) transfer to DEIAA dated 21.09.2016.

**Agenda No: 340-18**

**File No: 5955/2016**

**Proposed Construction of Departmental/Retail Shop at Old T.S.No.41, 42, 45/2, of Block4, Ward-3, New T.S.Nos.128 & 129 of Block-7, Ward – M of Tiruppur Village Tiruppur Taluk, Tiruppur District, Tamil Nadu by M/s.City Centre (Tiruppur) Constructions Private**

**Limited – For Environmental Clearance. (SIA/TN/NCP/60685/2016, Dated: 27.11.2016)**

The proposal was placed for appraisal in this 340<sup>th</sup> meeting of SEAC held on 23.12.2022.

The SEAC noted the following:


1. The Project Proponent M/s.City Centre (Tiruppur) Constructions Private Limited has applied for Environmental Clearance for Proposed Construction of Departmental/Retail Shop at Old T.S.No.41, 42, 45/2, of Block-4, Ward-3, New T.S.Nos.128 & 129 of Block-7, Ward – M of Tiruppur Village Tiruppur Taluk, Tiruppur District, Tamil Nadu.
2. Total Plot Area: 6226.00m<sup>2</sup> and Total built up area: 30227.24m<sup>2</sup>.

During the meeting, the Committee noted that the project proponent is absent during the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

**Agenda No: 340-19.**

**(File No:6056/2018)**

**Existing Multi Colour Granite over an extent of 1.28.5 Ha at S.F. Nos. 168, 169/8A & 169/8B at Pudukottai Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by M/s. Chindia Granites, for Environmental Clearance “Under Violation”. (SIA/TN/MIN/142423/2007 Dt:14.10.2019).**


  
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The proposal was placed in 340<sup>th</sup> SEAC meeting held on 23.12.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following

1. The Project Proponent, M/s. Chindia Granites has applied for Environmental Clearance under Violation along with EIA Report & along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan for the Existing Multi Colour Granite Quarry over an extent of 1.28.5 Ha at S.F. Nos. 168, 169/8A & 169/8B at Pudukottai Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B" – "Under Violation" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Online Application under Violation No. SIA/TN/MIN/23281/2018 dated: 02.04.2018
4. The ToR under violation for carrying out the EIA study under violation issued vide Lr. No.SEIAA-TN/F.No.6056/TOR- 322 /2018 Dated: 10.05.2018.
5. ToR Amendment for ToR under Violation with Public Hearing issued vide Lr. . No.SEIAA-TN/F – 6056/SEAC- CXVIII/TOR- 322(A)/2018 Dt.30.07.2018
6. The project proponent has obtained Mining lease vide G.O.(3D). No.14, Industries (MMB-2) department Dated 05.03.2010.
7. MoEF&CC, Office Memorandum Dt:12.11.2020.

Based on the presentation made and documents furnished by the project proponent, the SEAC decided to make site inspection by the sub-committee to be constituted by the SEAC to assess the present status of the project and environmental settings as the proposal falls under violation category. Further the subcommittee will assess the ecological damage and to check the Remedial Plan & Community Augmentation Plan submitted by the PP during the inspection. Further, as per the PP request for exemption of public hearing, SEAC has decided to exempt public hearing as per MoEF&CC, Office Memorandum Dt:12.11.2020 based on the recommendation of site inspection report by Sub Committee constituted by SEAC.

  
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1. Copy of valid mining lease approval obtained from the competent Authority.
2. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
3. Copy of request letter submitted by PP for renewal of mining plan.
4. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
5. Copy of total penalty levied by the AD/DD, Dept of Geology and Mining, Villupuram District and copy of remittance of total penalty by PP.
6. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
7. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.

On the receipt of the sub-committee report, further deliberation will be carried out in the forthcoming Committee Meeting.

Further the PP shall withdraw the duplicate files with online number 42423 (ToR application) dated 14.10.2019 & 58845, dated. 07.09.2016.

**Agenda No: 340-20**


**(File No: 6145/2017)**

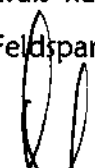
**proposed of Quartz & Feldspar Quarry lease over an extent of 1.12.5Ha in S.F.Nos. 16/1 & 16/2B, 16/3D1, 16/3C (Part), 16/3E, 17/5B & 17/6 (Part) of Chitoor Bit - II Village, Edappadi Taluk, Salem District, Tamil Nadu by M/s. Mahalakshmi Mines & Minerals - for Terms of Reference Violation. (SIA/TN/MIN/23133/2018 Dated: 05.04.2018)**

The proposal was placed in 340th Meeting of SEAC held on 23.12.2022. 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:

- a. The Project Proponent, M/s. Mahalakshmi Mines & Minerals has applied for Terms of Reference Violation for the proposed Quartz & Feldspar quarry lease

  
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over an extent of 1.12.5Ha at S.F.No.16/1 & 16/2B, 16/3D1, 16/3C (Part), 16/3E, 17/5B & 17/6 (Part)of Chitoor Bit - II Village, Edappadi Taluk, Salem District, Tamil Nadu.

- b. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification,2006.
- c. As per mining plan, the lease period is 20 years. The mining plan is for the period of five years & the production should not exceed 22,745m<sup>3</sup> @45% of Quartz & 27,799m<sup>3</sup> @55% of Feldspar with an ultimate depth of mining 25m Below Ground level.

Based on the presentation and documents furnished by the project proponent, SEAC observed that,

1. The quarry lease was granted vide R.C.No.9715/MM3/1999, Dated: 28.10.2003 for a period of twenty years.
2. The lease deed was executed on 23.01.2004 and the lease period is valid upto
3. 22.01.2024.
4. The mining plan (2004-05 to 2013-14) was prepared and approved by the Indian Bureau of mines, Chennai got expired in 31.03.2009.
5. The first Scheme of Quarrying (2009-10 to 2013-14) was approved by the Indian Bureau of Mines vide letter no.TN/SLM/Q&F/MS-647-MDS, dated: 23.08.2012 and expired on 31.03.2014.
6. As per notification of Ministry of mines, No. S.O. 423 (E) - by clause (e) of section 3 of the Mines and Minerals (Development and Regulation) Act,1957 (67 of 1957), the central Government has declared 31 minerals including Quartz and feldspar as Minor Minerals.
7. The second Scheme of Quarrying is due from 2014-15 onwards. This second scheme of quarrying is not prepared in time and the first two years of the scheme period was already lapsed.
8. Second scheme of quarrying is prepared and submitted to obtain approval for the period of 2014 – 15 to 2018-19 (Five years).

  
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Based on the presentation and documents furnished by the project proponent, SEAC decided to grant of Terms of Reference (TOR) under Violation category, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants.

1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.
2. The Project proponent shall conduct and furnish Minutes of Public hearing as per ToR issued Dt: 18.05.2018 & 30.07.2018. Accordingly, the PP shall submit revised EIA/EMP.
3. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
4. Copy of valid mining lease approval obtained from the competent Authority.
5. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
6. Copy of request letter submitted for renewal of mining plan.
7. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
8. Copy of total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.

  
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9. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
10. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
11. 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.
12. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
13. 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.
14. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
15. 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.
16. 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,

  
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- 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.
17. 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).
18. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,
19. 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.
20. 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.
21. 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

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

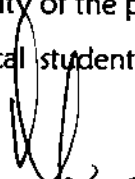
22. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data 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.
23. 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.
24. 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.
25. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
26. 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.

  
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27. 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.
28. 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.
29. 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.
30. Impact on local transport infrastructure due to the Project should be indicated.
31. 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.
32. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
33. 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.
34. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
35. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
36. 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


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

37. 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.
38. 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
39. 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.
40. 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.
41. 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.
42. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the

  
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proposed remedial measures should be detailed along with budgetary allocations.

43. 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.
44. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
45. 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.
46. 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.
47. 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.

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.

Further the PP shall withdraw the duplicate file with online number 23133 (ToR application) dated 05.04.2018.

**Agenda No: 340 – 21**

**(File No. 6179/2017)**

**Existing Limestone mine over an Extent of 0.41.0 Ha at S.F.No. 327/2 (Part), 327/3 (Part) & 327/4 (Part) at Kanjampatti Village, Sattur Taluk, Virudhunagar District, Tamil**

  
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Nadu by Thiru.S.K.P Murugaen for Terms of References "Under Violation Category".  
(SIA/TN/MIN/24928/2018 Dated: 13.04.2018).

The proposal was placed in 340th SEAC meeting held on 23.12.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following**


1. The Project Proponent, Thiru.S.K.P Murugaen has applied for the Terms of References under Violation for the Existing Limestone mine over an Extent of 0.41.0
2. Ha at S.F.No. 327/2 (Part), 327/3 (Part) & 327/4 (Part) at Kanjampatti Village of Sattur Taluk, Virudhunagar District, Tamilnadu.
3. The proposed quarry/activity is covered under Category "B" – "Under Violation" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
4. The project proponent has obtained Mining lease vide G.O.(3D). No.221, Industries (MMD2) department Dated 31.12.1997.
5. The mining lease was issued for the period of 20 years (From 08.06.1998 to 07.06.2018). The approved scheme of mining plan is for the period of five years from 2013-2018& production quantity was 60645 cu.m of RoM including 42452 cu.m of Production (@70% Recovery) & 18194 cu.m of Waste.
6. The proponent has filed three applications in the PARIVESH Portal for the same proposal. The details are as follows:

Application	seeking	Environmental	Clearance:	Proposal
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1. No.SIA/TN/MIN/61890/2017 dated.20.01.2017.

Applications seeking ToR under violation category:

2. SIA/TN/MIN/27468/2017 dated:28.06.2017
3. SIA/TN/MIN/24928/2018 dated:13.04.2018
7. MoEF&CC notification vide S.O. 804 (E) Dt. 14.3.2017.
8. MoEF & CC Notification S.O.1030 (E) dated 08.03.2018.


  
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9. MoEF&CC Office Memorandum No. F.No. Z-11013/22/2017-IA.II (M) dated  
10. 15.03.2018.
11. MoEF &CC OM F. No. 22-10/2019-1A.111 dated 09.09.2019.
12. Hon`ble NGT(SZ) order dated 30.06.2020 in O.A.No.136 of 2017.


Based on the presentation and documents furnished by the project proponent, SEAC decided to grant of Terms of Reference (TOR) under Violation category, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants.


1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.
2. The Project proponent shall conduct and furnish Minutes of Public hearing as per ToR issued Dt: 18.05.2018 & 30.07.2018. Accordingly, the PP shall submit revised EIA/EMP.
3. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
4. Copy of valid mining lease approval obtained from the competent Authority.
5. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
6. Copy of request letter submitted for renewal of mining plan.

  
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7. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
8. Copy of total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.
9. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
10. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
11. 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.
12. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
13. 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.
14. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
15. 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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16. 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,
- i. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - ii. Quantity of minerals mined out.
  - iii. Highest production achieved in any one year
  - iv. Detail of approved depth of mining.
  - v. Actual depth of the mining achieved earlier.
  - vi. Name of the person already mined in that leases area.
  - vii. If EC and CTO already obtained, the copy of the same shall be submitted.
  - viii. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
17. 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).
18. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,
19. 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.
20. 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.

  
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21. 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.
22. 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.
23. 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.
24. 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.
25. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
26. 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.

  
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27. 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.
28. 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.
29. 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.
30. Impact on local transport infrastructure due to the Project should be indicated.
31. 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.
32. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
33. 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.
34. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
35. The PP shall produce/display the EIA report, Executive summery and other related information with respect to public hearing in Tamil Language also.
36. 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.

  
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37. 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.
38. 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
39. 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.
40. 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.
41. 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.
42. 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.
43. 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

  
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should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.

44. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
45. 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.
46. 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.
47. 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.
48. 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.

The proponent shall withdraw the other two proposals SIA/TN/MIN/61890/2017 dated:20.01.2017 &SIA/TN/MIN/27468/2017 dated:28.06.2017.

**Agenda No: 340-22**

**(File No: 6180/2017)**

**proposed of Limestone Mine Quarry lease over an extent of 4.23.0Ha in S.F.Nos. 327, 326/4, 327/2 (Part), 327/3 (Part) and 327/4 (Part) of Kanjampatti Village, Sattur Taluk, Virudhunagar District, Tamil Nadu by Thiru.S.K.P.Murugean-for Terms of Reference Violation. (SIA/TN/MIN/23133/2018 Dated: 05.04.2018)**

The proposal was placed in 340th Meeting of SEAC held on 23.12.2022. The details of the project furnished by the proponent are available in the website ([www.parivesh.nic.in](http://www.parivesh.nic.in)).

  
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The SEAC noted the following:

1. The Project Proponent, Thiru.S.K.P.Murugean has applied for Terms of Reference Violation for the proposed Limestone Mine quarry lease over an extent of 4.23.0Ha at S.F.Nos.327, 326/4, 327/2 (Part), 327/3 (Part) and 327/4 (Part) of Kanjampatti Village, Sattur Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification,2006.
3. As per mining plan, the lease period is 50years. The mining plan is for the period of Five years& the production should not exceed 3,51,702Tonnes ROM , (2,46,194Tonnes of Limestone@ 70% + 1,05,655 Tonnes waste @ 30% )with an ultimate depth of mining 36m Below Ground level.

Based on the presentation and documents furnished by the project proponent, SEAC observed that,

1. The quarry lease was granted vide R.C.No.4113/MM4/2005, Dated: 31.07.2007 for a period of twenty years.
2. The lease deed was executed on 30.01.2008 and the lease period is valid upto
3. 29.01.2028.
4. As per MMDR Amendment Act 2015, the period of Mining Lease is 50 years from grant of Mining Lease (i.e 2048).
5. The mining plan (2008-09 to 2012-13) was prepared and approved by the Indian Bureau of mines, Chennai got expired in 03.11.2005.
6. The first Scheme of Quarrying (2013-14 to 2017-18) was Prepared and submitted and same approved by Indian Bureau of Mines, Chennai Vide Lr No.TN/VRD/LST/M5986 MDS dated 30.12.2013.
7. The second Scheme of Quarrying is not prepared.
8. Third scheme of quarrying is prepared under processing seeking for approval.


  
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Based on the presentation and documents furnished by the project proponent, SEAC decided to grant of Terms of Reference (TOR) under Violation category, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants.


1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.
2. The Project proponent shall conduct and furnish Minutes of Public hearing as per ToR issued Dt: 18.05.2018 & 30.07.2018. Accordingly, the PP shall submit revised EIA/EMP.
3. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
4. Copy of valid mining lease approval obtained from the competent Authority.
5. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
6. Copy of request letter submitted for renewal of mining plan.
7. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
8. Copy of total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.

  
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9. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
10. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
11. 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.
12. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
13. 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.
14. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
15. 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.
16. 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.

  
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17. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
- i. Quantity of minerals mined out.
  - ii. Highest production achieved in any one year
  - iii. Detail of approved depth of mining.
  - iv. Actual depth of the mining achieved earlier.
  - v. Name of the person already mined in that leases area.
  - vi. If EC and CTO already obtained, the copy of the same shall be submitted.
  - vii. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
18. 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).
19. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,
20. 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.
21. 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.
22. 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

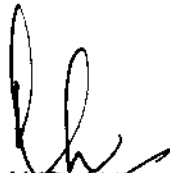
  
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for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.


23. 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.
24. 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.
25. 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.
26. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
27. 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.

  
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28. 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.
29. 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.
30. 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.
31. Impact on local transport infrastructure due to the Project should be indicated.
32. 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.
33. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
34. 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.
35. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
36. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
37. 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

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

38. 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.
39. 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
40. 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.
41. 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.
42. 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.
43. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the

  
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proposed remedial measures should be detailed along with budgetary allocations.


44. 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.
45. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
46. 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.
47. 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.
48. 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.
49. 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.


Further the PP shall withdraw the duplicate file with online number 24913 (ToR application) dated 13.04.2018.

**Agenda No: 340-23**

**(File No: 6191/2017)**

**Existing Lime Stone at S.F.No. 1005, 1006/1, 1023/2 & 1024/1 Tenkulam Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by M/s. The India Cements Limited, - For Terms of Reference. (SIA/TN/MIN/27169/2018 Dt: 11.9.2017)**

  
MEMBER SECRETARY  
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SEAC noted the following:

1. The proponent M/s. The India Cements Limited has applied seeking Terms of Reference for the Lime Stone quarry at S.F.No. 1005, 1006/1, 1023/2 & 1024/1 Tenkulam Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

Now the proposal was placed in this 340<sup>th</sup> meeting of SEAC held on 23.12.2022. The Proponent vide letter dated 22.12.2022 stating his inability to attend the meeting on the aforesaid date, has requested the Committee to reschedule the appraisal of the proposal. The SEAC agreed for the same and decided to defer the subject to a later date.

**Agenda No: 340-24**

**(File No: 6192/2017)**

**Existing Lime Stone at S.F.No. 242/1B, Maravankulam Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by M/s. The India Cements Limited, - For Terms of Reference. (SIA/TN/MIN/29433/2016Dt: 05.10.2018)**

SEAC noted the following:


1. The proponent M/s. The India Cements Limited has applied seeking Terms of Reference for the Lime Stone quarry at S.F.No. 242/1B, Maravankulam Village, Tirunelveli Taluk, Tirunelveli District.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

Now the proposal was placed in this 340<sup>th</sup> meeting of SEAC held on 23.12.2022. The Proponent vide letter dated 22.12.2022 stating his inability to attend the meeting on the aforesaid date, has requested the Committee to reschedule the appraisal of the proposal. The SEAC agreed for the same and decided to defer the subject to a later date.

**Agenda No: 340-25**

**File No: 6193/2017**

**Existing limestone quarry at S.F.No.728/2, 728/3, 728/4, 729/1, 729/4, 729/7, 729/8,**

  
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**729/9, 729/10A, 729/10B, 729/16, 729/22, 772, 773/1, 773/2, 773/3, 773/5, 773/6 & 773/7 of Sattankulam Village, Sattankulam Taluk, Thoothukudi District, Tamil Nadu by M/s. The India Cements Limited– For Terms of Reference under violation category. (SIA/TN/MIN/23965/2018, Dated: 11.04.2018)**

The proposal was placed for appraisal in this 340<sup>th</sup> meeting of SEAC held on 23.12.2022.

**The SEAC noted the following:**

1. The Project Proponent M/s. The India Cements Limited has applied for Terms of Reference under violation category for Existing limestone quarry at S.F.No.728/2, 728/3, 728/4, 729/1, 729/4, 729/7, 729/8, 729/9, 729/10A, 729/10B, 729/16, 729/22, 772, 773/1, 773/2, 773/3, 773/5, 773/6 & 773/7 of Sattankulam Village Sattankulam Taluk, Thoothukudi District, Tamil Nadu.

Now the proposal was placed in this 340<sup>th</sup> meeting of SEAC held on 23.12.2022. The Proponent vide letter dated 22.12.2022 stating his inability to attend the meeting on the aforesaid date, has requested the Committee to reschedule the appraisal of the proposal.

The SEAC agreed for the same and decided to defer the subject to a later date.


**Agenda No: 340 – 26**

**(File No: 9645/2022)**

**Proposed Karimbedu Sand Quarry Project for Restoring the Functional Efficiency of the Kosasthalaiyar River over an Extent of 4.95.0Ha of Government land In S.F.No. 187 (Part) of Kosasthalaiyar(Nagari) River in Karimbedu Village, Pallipattu Taluk, Tiruvallur District, Tamil Nadu by the Executive Engineer, PWD/WRD – For Environmental Clearance. (SIA/TN/MIN/409817/2022 Dt. 08.12.2022)**

The proposal was placed for appraisal in this 340<sup>th</sup> SEAC Meeting held on 23.12.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

  
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1. The Proponent, Executive Engineer, PWD/WRD, has applied for Environmental Clearance for the Proposed Karimbedu Sand Quarry Project for Restoring the Functional Efficiency of the Kosasthalaiyar River over an Extent of 4.95.0Ha of Government land in S.F.No. 187 (Part) of Kosasthalaiyar (Nagari) River in Karimbedu Village, Pallipattu Taluk, Tiruvallur 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 for one year and the mining plan is for the period of One year & mining quantity should not exceed 50,985cu.m. of sand per annum. The ultimate depth -2.06 metres (1.16m – Above River Bed (Shoal) & 0.90m - Below River Bed).


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. Further, the PP shall furnish the following details during the site inspection.

1. The Project Proponent shall study and discuss the theoretical bed level during the site inspection along with the "Replenishment Study" carried out as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020", during the site inspection to be made by the sub-committee.
2. The Pillar stones shall be installed before the site inspection.
3. The PP shall enumerate the revised EMP accordingly for the sand mining.

On receipt of the Sub Committee report further deliberation will be done.

**AGENDA No. 340-TA-01**

**(File No: 8494/2022)**

  
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Proposed Rough Stone quarry lease over an extent of 04.40.0 Ha of Government Land at S.F.No.665(Part-1), Kamandoddi Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu, by M/s.Thriveni Earth Movers Pvt Ltd – For Environmental Clearance. (SIA/TN/MIN/79170/2021, dated 28.06.2022)


The proposal was earlier placed in the 313<sup>th</sup> meeting of SEAC held on 22.09.2022. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s.Thriveni Earth Movers Pvt Ltd has applied seeking Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 04.40.0 Ha of Government Land at S.F.No.665(Part-1), Kamandoddi Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under category “B1” of Item 1 (a) “Mining of Minerals Projects” of the schedule to the EIA Notification, 2006, as amended.
3. ToR issued along with Public Hearing vide T.O Lr No.SEIAATN/F.No.8494/SEAC/ToR- 1055/2022 Dated: 28.01.2022
4. Public Hearing minutes dated: 02.06.2022
5. EIA report submitted on 30.06.2022.
6. As per the mining plan, lease period is 10 years and the production for 5 years shall not exceed 7,29,514 m<sup>3</sup> of Rough stone for an ultimate depth of 42m (2m Gravel + 40m Rough stone) BGL.

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

1. The proponent shall enumerate on the details of the structures located within 100m, 200m, 300m radius from the proposed mine lease area indicating the type of structure/building, usage/purposes of such building – commercial/industrial/residential/farm house/Govt. building such as Sub-station, occupants of such buildings/structures, ownership of the buildings/structures whether it belongs to the PP (or) not, etc.

  
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2. The proponent shall submit the details regarding a textile industrial building which is located at a distance of 130m away from the mine lease area:
  - i. Year of installation of Textile / Garment industrial building.
  - ii. Number of people are working and working hours.
  - iii. Video / Pictures indicating the aforesaid building and its structural components.

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

The reply furnished by the project proponent was placed in the 327<sup>th</sup> SEAC meeting held on 10.11.2022. Based on the details furnished and presentation made by the proponent, SEAC noted that

<b>Structures Present within</b>	<b>100m</b>	<b>200m</b>	<b>300m</b>
House	-	-	10
Cattle Shed	1 / NE	-	2
Industrial Shed	1 (abandoned Granite Polishing Unit) / SW	1 (Garments) / S	1 (Garments) / S
Poultry Farm	-	1 / NE	-

1. Further, it was noted that a textile unit located at a distance of 154 m had been in operation from August 2013 to September 2017, namely, Sri Textiles Erode Pvt. Ltd and however it had not been in operation till 2019. Subsequently, M/s. Punit Creation Ltd had taken over the garments and commenced its operation from December 2019.
2. It was informed that about 650 persons are working inside the building with the working hours of 9 AM to 5 30 PM.
3. Further it was also noticed that an abandoned Granite Polishing unit and a Poultry Farm House are located within 200 m from the boundary of the existing quarry.

  
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Based on the above facts, SEAC decided that a sub-committee will be formed to carry out inspection to assess the anticipated impacts of mining activity on the surrounding environmental settings from the proposed part of the existing quarry through new leasehold area and to examine the adequacy of the different facets of environmental management of the existing quarry in a comprehensive manner thereby ensuring environmentally sustainable quarrying operations are carried out or not.

On receipt of the same, SEAC would further deliberate on this project.

**Site Inspection Report:**

The following Proposals were seeking Environmental Clearance for:

1. Rough Stone Jelly and Sized Stone Quarry lease over an Extent of 02.40.0 Ha at S.F. No. 665 (Part – 2) of Kammandoddi village, Hosur (Now Shoolagiri) Taluk, Krishnagiri District, Tamil Nadu (SIA/TN/MIN/78976/2021, dated 28.06.2022), File No:8495/2021 designated as “Mine 1” in the inspection report and
2. Rough Stone Jelly and Sized Stone Quarry lease over an Extent of 04.40.0 Ha at S.F. No. 665 (Part – 1) of Kammandoddi village, Hosur (Now Shoolagiri) Taluk, Krishnagiri District, Tamil Nadu (SIA/TN/MIN/79170/2021 dated


28.06.2022) File No:8494/2022 designated as “Mine 2” in the inspection report

The above designation of “Mine 1” and “Mine 2” is for the convenience of the inspection report and does not connote any special or technical reference.

**Background**

The Proponent M/s Thriveni Earth Movers Private Limited has been operating both the mines since 2016 in the above said locations and the lease period is for 10 years i.e upto 2026. However, the validity of earlier EC issued was till 2021 only i.e upto 18th July 2021. The proponent has applied for extension of EC for the balance period.

Details

  
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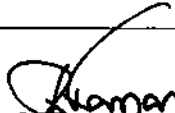
1. Both the mines "Mine1" and "Mine 2" fall under category "B1" of item 1(a) of Mining of Minerals Project of the schedule to the EIA notification 2006, as amended. Hence, ToR was issued along with Public Hearing vide T.O Lrs No.SEIAATN/F.No.8495/SEAC/ToR-1056/2022 dated 28.01.2022 and SEIAATN/F.No.8494/SEAC/ToR-1055/2022 dated 28.01.2022.
2. Public Hearing was conducted with minutes dated 02.06.2022 for both the mines.
3. EIA was submitted on 30.06.2022 for both the mines.
4. As per the mining plan, the lease period is for 10 years and the mining plan for 5 years with the total production not to exceed 4,26,513Cu.M for "Mine 1" and 729514 Cu.M for "Mine 2".

The PP has presented cases to SEAC during the 313rd meeting of SEAC held on 22.09.2022. The SEAC had sought for additional details (ADS) for both "Mine 1 and Mine 2" as they are in the same patta land as follows:

1. The Proponent should enumerate on details of structures located within 100m, 200m and 300 m radius from the proposed mine lease area indicating he type of structure / building, usage / purposes of such buildings – commercial / industrial/residential/ farm house/ Govt. building such as Sub – Station, occupants of such buildings / structures, ownership of the buildings / structures – wehther it belongs to the PP or not.
2. The proponent shall submit the details regarding textile industrial building which is located at a distance of 130 m away from the mine leasing area including the year of establishment of the unit, number of people working over there and the working hours along with video / pictures indicating the aforesaid building and its structural components.

The project proponent submitted the ADS during the 327th meeting of SEAC held on 10.11.2022 as follows:

	100 m	200 m	300 m
House	-	-	10

  
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Cattle shed	1 / NE	-	2
Industrial shed	1 SW	1 garment unit	1 garment
Poultry farm	-	1/NE	-

The PP presented that the garment unit located at a distance 154 m had been in operation between August 2013 and September 2017 in the name of Sri Textiles Erode Pvt Ltd and was not operational since 2017 upto 2019. Subsequently, M/s Punit creation Ltd has taken over the unit in 2019 and has been in operation since 2019. About 650 persons are working in the garment unit and the unit is functioning between 9 AM to 5.30 PM daily. The PP also had submitted that an abandoned Granite polishing unit and Poultry Farm Huse are located within 200 m from the boundary of the existing quarry.

Based on the above details presented by the Project Proponent, SEAC decided to send Dr M R Ramasubramaniyan, Member, SEAC to visit the site to assess the anticipated impacts of the mining activity and to examine the adequacy of different facets of environmental management of the existing quarry.

#### **SUB-COMMITTEE VISIT**


- Dr. M R Ramasubramaniyan Member, SEAC, as nominated by the SEAC visited the proposed mines (Mine 1 and Mine 2) on 03.12.2022. The Project Proponent M/s Thriveni Earthmovers Pvt Ltd was represented by Mr D Jagadheesan, AGM Mines & Project Head, Hosur Unit during the field visit and Mr Arun Kumar Subbaya, Director – Thriveni Earth Movers.

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

The proposed quarry site has stopped the mining operations since January 2022 for want of EC

- The quarry is fully fenced with barbed wire and fencing stone.
- The quarry has well established Green Belt development with trees grown over 20 ft height.

  
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- The quarry adopts dust suppression mechanisms by establishment of sprinkler systems in the center median of the haul road. Apart from that, two tankers are in place which sprinkles water where sprinkler system could not be established.
- The quarry which was operational from 2016 to 2021 appears to have been operated professionally with necessary safety precautions and operational procedures. The benches have been established properly in both the mines
- Adequate facilities and related necessary infrastructure are available for proper implementation of Environment Management Plan (EMP)
- Haul roads have been properly maintained

### **Impact of Mining Activity**

In order to assess the impact of mining activity, the nearby areas of the village where the mining site is located was visited and interactions were held with few villagers and owners / managers of the buildings in the nearby areas. The observations are summarized below:

- The proponent had claimed that the blasting operations were carried out only in the evening around 5 PM by providing adequate warning signals to people in the adjacent area including the poultry and cattle farm which was found to be true when enquired by the subcommittee member during his interaction with the villagers and the passer by.
- However, the timing of explosion could not be ascertained as there was no proper record maintained at the mine site office about timing of explosion .
- According to the village community members and the workers of the nearby garment factory, they hear loud noises of explosion from around 3 PM itself. They were not able to ascertain whether the noises are from Thriveni Earthmovers Pvt Ltd or from other mines operating about 500 m away from the proposed site. The legality of these mining operations in quarries situated at about 500m distance could not be ascertained.
- Though the PP has mentioned in his submission to the SEAC that the granite polishing unit which is about 90 m on the South West direction of the mine boundary as abandoned, it is actively under construction. Moreover, it was

  
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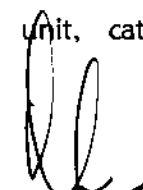
noticed that the granite polishing unit is located just adjacent to the boundary of the "Mine 2" i.e less than 90 m from the boundary of the "Mine 2" where people work till late in the evening.

- The nearby cattle shed where cattle are maintained, the man who manages the farm informed the SEAC member that the building is only a shed and the animals would be moved to the villages during evening before blasting. However, on reality, the cattle shed is very nearby and the blasting operations is likely to impact the animals nearby. The statement from the cattle farm that Animals being moved to the villages in the evening appears "unconvincing"
- A freewheel interaction with the workers of the garment unit M/s Punit Creations revealed that loud noises emanating from the nearby quarries due to blasting are very disturbing and are often creating mild shocks and or head ache. They, however, could not ascertain from where it emanates as there are many quarries operating in the given vicinity.
- The officials (Mr Satish and Mr Murugan) who are managing the garment factory mentioned that they have been operating the unit since 2019. They also have been hearing noises all along. They added that they have not encountered any damages to the building so far. They have also mentioned that the NOC provided by them to M/s Thriveni Earthmovers Pvt Ltd is based on the oral condition that damages caused to the garment factory buildings, if any, would be rectified by M/s Thriveni Earthmovers Pvt Ltd.
- The garment unit is also planning to build a hostel for the workers in the adjacent vacant land of the factory where about 500 people who will work for the factory will stay. They expressed concern that their plan for building a hostel would be affected if the mines are allowed to operate.
- Apart from the above, there is a well-constructed pakka house about 150 m away from the mines where four people reside permanently.

### Recommendations

1. The above observations reveal that though the mines are maintained scientifically, the neighboring granite polishing unit, cattle shed,

  
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households as well as industrial garment units are vulnerable to the adverse effects of the blasting operations of the proposed mine sites.

2. There is no regulatory mechanism to prevent any mishaps in future, i.e., either granting approval to build new buildings in the vicinity should be avoided or the mining activity should be regulated.
3. Though the mitigation measures to environmental pollution and management of environmental settings is in place, safety of the neighbourhood habitation is at stake.
4. With priority being accorded to the safety of the neighborhood habitation over the mine and its operations, it is hereby recommended **NOT TO GRANT ENVIRONMENTAL CLEARANCE.**

The site inspection report was placed before the Committee in its 340<sup>th</sup> meeting held on 23.12.2022. Based on the details furnished by the sub-committee, the SEAC has decided to call the Project Proponent to inform the ground on which the proposal cannot be recommended for the grant of fresh Environmental Clearance.

**Agenda No: 340-TA- 2**


**(File No: 8495/2021)**

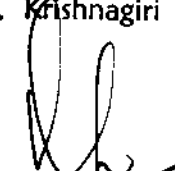
**Proposed Rough Stone Jelly & Sized Stone Quarry lease over an extent of 2.40.0 Ha in S.F.Nos. 665(Part-2) of Kamandoddi Village, Hosur (Now Shoolagiri) Taluk, Krishnagiri District, Tamil Nadu by M/s. Thriveni Earth Movers Pvt Ltd - Environmental Clearance - Regarding. (SIA/TN/MIN/78976/2021, dated: 28.06.2022)**

The proposal was placed for appraisal in this 340<sup>th</sup> meeting of SEAC held on 23.12.2022. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

SEAC noted the following:

1. The Project Proponent, M/s. Thriveni Earth Movers Pvt Ltd, has applied for Environmental Clearance for the proposed Rough Stone Jelly & Sized Stone Quarry lease over an extent of 2.40.0 Ha in S.F.Nos. 665(Part-2) of Kamandoddi Village, Hosur (Now Shoolagiri) Taluk, Krishnagiri District, Tamil Nadu.

  
MEMBER SECRETARY  
SEAC -TN

  
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2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 10 years. The mining plan is for the period of 5 years. The total production for 5 years not to exceed 4,26,513m<sup>3</sup> of rough stone with ultimate depth of 42m BGL.
4. ToR issued Date Lr No. SEIAA-TN/F.No.8495/SEAC/ToR-1056/2022 Dated:28.01.2022
5. Public Hearing was Conducted on 02.06.2022.
6. Earlier the proposal was placed in 313<sup>th</sup> SEAC meeting held on 22.09.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for additional details
  - i. The proponent shall enumerate on the details of the structures located within 100m, 200m, 300m radius from the proposed mine lease area indicating the type of structure/building, usage/purposes of such building – commercial/industrial/residential/farm house/Govt. building such as Substation, occupants of such buildings/structures, ownership of the buildings/structures-whether it belongs to the PP (or) not, etc.
  - ii. The proponent shall submit details regarding a textile industrial building which is located at a distance of 130m away from the mine lease area:
    - a) Year of installation of Textile / Garment industrial building
    - b) Number of people are working and working hours.
    - c) Video / Pictures indicating the aforesaid building and its structural components
1. Subsequently, the proposal was placed in 558<sup>th</sup> SEIAA meeting held on 10.10.2022.

In addition to the above queries, the proponent shall submit the following details

- i. Funds that are required to cover the concerns raised in the public hearing shall be covered in the EMP.

  
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SEAC -TN

  
CHAIRMAN  
SEAC/TN

- ii. The number of trees that will be planted for Green Belt Development plant shall be submitted.
- iii. The budget for Development of Green Belt mentioned in EMP shall be increased at the rate of Rs.500 per plant and at the rate of Rs.300 for maintenance.

In view of the above, SEAC shall examine the above-mentioned queries in addition to the queries raised by SEAC.

2. Subsequently, based on the reply furnished by the PP, the proposal was placed in the 327<sup>th</sup> SEAC meeting held on 10.11.2022. Based on the details furnished and presentation made by the proponent, SEAC noted that


Structures Present within	100m	200m	300m
House	-	-	10
Cattle Shed	1 / NE	-	2
Industrial Shed	1 (abandoned Granite Polishing Unit) / SW	1 (Garments) / S	1 (Garments) / S
Poultry Farm	-	1 / NE	-

1. Further, it was noted that the textiles had been in operation from August 2013 to September 2017 in the name Sri Textiles Erode Pvt. Ltd and it had not been in operation till 2019. Subsequently, Punit creation had taken over the garments from TMB Bank and had commenced its operation from December 2019.
2. There are 650 numbers of people working and working hours – 9AM to 5 30PM.

Based on the above facts, SEAC decided that a sub-committee will be formed to carry out inspection to assess the anticipated impacts of mining activity on the nearby garments situated at a distance of 130m from the existing mine lease area.

On receipt of the Sub Committee report further deliberation will be done.

**Site Inspection Report:**

  
MEMBER SECRETARY  
SEAC -TN

  
CHAIRMAN  
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The following Proposals were seeking Environmental Clearance for:

1. Rough Stone Jelly and Sized Stone Quarry lease over an Extent of 02.40.0 Ha at S.F. No. 665 (Part – 2) of Kammandoddi village, Hosur (Now Shoolagiri) Taluk, Krishnagiri District, Tamil Nadu (SIA/TN/MIN/78976/2021, dated 28.06.2022), File No:8495/2021 designated as “Mine 1” in the inspection report and
2. Rough Stone Jelly and Sized Stone Quarry lease over an Extent of 04.40.0 Ha at S.F. No. 665 (Part – 1) of Kammandoddi village, Hosur (Now Shoolagiri) Taluk, Krishnagiri District, Tamil Nadu (SIA/TN/MIN/79170/2021 dated 28.06.2022) File No:8494/2022 designated as “Mine 2” in the inspection report


The above designation of “Mine 1” and “Mine 2” is for the convenience of the inspection report and does not connote any special or technical reference.

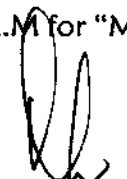
### **Background**

The Proponent M/s Thriveni Earth Movers Private Limited has been operating both the mines since 2016 in the above said locations and the lease period is for 10 years i.e upto 2026. However, the validity of earlier EC issued was till 2021 only i.e upto 18th July 2021. The proponent has applied for extension of EC for the balance period.

### **Details**

1. Both the mines “Mine1” and “Mine 2” fall under category “B1” of item 1(a) of Mining of Minerals Project of the schedule to the EIA notification 2006, as amended. Hence, ToR was issued along with Public Hearing vide T.O Lrs No.SEIAATN/F.No.8495/SEAC/ToR-1056/2022 dated 28.01.2022 and SEIAATN/F.No.8494/SEAC/ToR-1055/2022 dated 28.01.2022.
2. Public Hearing was conducted with minutes dated 02.06.2022 for both the mines.
3. EIA was submitted on 30.06.2022 for both the mines.
4. As per the mining plan, the lease period is for 10 years and the mining plan for 5 years with the total production not to exceed 4,26,513Cu.M for “Mine 1” and 729514 Cu.M for “Mine 2”.

  
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The PP has presented cases to SEAC during the 313rd meeting of SEAC held on 22.09.2022. The SEAC had sought for additional details (ADS) for both "Mine 1 and Mine 2" as they are in the same patta land as follows:


1. The Proponent should enumerate on details of structures located within 100m, 200m and 300 m radius from the proposed mine lease area indicating he type of structure / building, usage / purposes of such buildings – commercial / industrial/residential/ farm house/ Govt. building such as Sub – Station, occupants of such buildings / structures, ownership of the buildings / structures – whether it belongs to the PP or not.
2. The proponent shall submit the details regarding textile industrial building which is located at a distance of 130 m away from the mine leasing area including the year of establishment of the unit, number of people working over there and the working hours along with video / pictures indicating the aforesaid building and its structural components.

The project proponent submitted the ADS during the 327<sup>th</sup> meeting of SEAC held on 10.11.2022 as follows:

Structure within	100 m	200 m	300 m
House	-	-	10
Cattle shed	1 / NE	-	2
Industrial shed	1 SW	1 garment unit	1 garment
Poultry farm	-	1/NE	-

The PP presented that the garment unit located at a distance 154 m had been in operation between August 2013 and September 2017 in the name of Sri Textiles Erode Pvt Ltd and was not operational since 2017 upto 2019. Subsequently, M/s Punit creation Ltd has

  
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taken over the unit in 2019 and has been in operation since 2019. About 650 persons are working in the garment unit and the unit is functioning between 9 AM to 5.30 PM daily. The PP also had submitted that an abandoned Granite polishing unit and Poultry Farm Huse are located within 200 m from the boundary of the existing quarry.

Based on the above details presented by the Project Proponent, SEAC decided to send Dr M R Ramasubramanian, Member, SEAC to visit the site to assess the anticipated impacts of the mining activity and to examine the adequacy of different facets of environmental management of the existing quarry.

#### **SUB-COMMITTEE VISIT**

- Dr. M R Ramasubramanian Member, SEAC, as nominated by the SEAC visited the proposed mines (Mine 1 and Mine 2) on 03.12.2022. The Project Proponent M/s Thriveni Earthmovers Pvt Ltd was represented by Mr D Jagadheesan, AGM Mines & Project Head, Hosur Unit during the field visit and Mr Arun Kumar Subbaya, Director – Thriveni Earth Movers.

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

- The proposed quarry site has stopped the mining operations since January 2022 for want of EC
- The quarry is fully fenced with barbed wire and fencing stone.
- The quarry has well established Green Belt development with trees grown over 20 ft height.
- The quarry adopts dust suppression mechanisms by establishment of sprinkler systems in the center median of the haul road. Apart from that, two tankers are in place which sprinkles water where sprinkler system could not be established.
- The quarry which was operational from 2016 to 2021 appears to have been operated professionally with necessary safety precautions and operational procedures. The benches have been established properly in both the mines
- Adequate facilities and related necessary infrastructure are available for proper implementation of Environment Management Plan (EMP)

  
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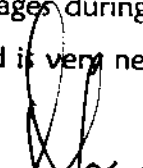
- Haul roads have been properly maintained

### **Impact of Mining Activity**

In order to assess the impact of mining activity, the nearby areas of the village where the mining site is located was visited and interactions were held with few villagers and owners / managers of the buildings in the nearby areas. The observations are summarized below:

- The proponent had claimed that the blasting operations were carried out only in the evening around 5 PM by providing adequate warning signals to people in the adjacent area including the poultry and cattle farm which was found to be true when enquired by the subcommittee member during his interaction with the villagers and the passer by.
- However, the timing of explosion could not be ascertained as there was no proper record maintained at the mine site office about timing of explosion
- According to the village community members and the workers of the nearby garment factory, they hear loud noises of explosion from around 3 PM itself. They were not able to ascertain whether the noises are from Thriveni Earthmovers Pvt Ltd or from other mines operating about 500 m away from the proposed site. The legality of these mining operations in quarries situated at about 500m distance could not be ascertained.
- Though the PP has mentioned in his submission to the SEAC that the granite polishing unit which is about 90 m on the South West direction of the mine boundary as abandoned, it is actively under construction. Moreover, it was noticed that the granite polishing unit is located just adjacent to the boundary of the "Mine 2" i.e less than 90 m from the boundary of the "Mine 2" where people work till late in the evening.
- The nearby cattle shed where cattle are maintained, the man who manages the farm informed the SEAC member that the building is only a shed and the animals would be moved to the villages during evening before blasting. However, on reality, the cattle shed is very nearby and

  
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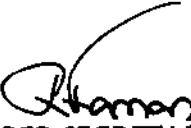
  
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the blasting operations is likely to impact the animals nearby. The statement from the cattle farm that Animals being moved to the villages in the evening appears “unconvincing”

- A freewheel interaction with the workers of the garment unit M/s Punit Creations revealed that loud noises emanating from the nearby quarries due to blasting are very disturbing and are often creating mild shocks and or head ache. They, however, could not ascertain from where it emanates as there are many quarries operating in the given vicinity.
  - The officials (Mr Satish and Mr Murugan) who are managing the garment factory mentioned that they have been operating the unit since 2019. They also have been hearing noises all along. They added that they have not encountered any damages to the building so far. They have also mentioned that the NOC provided by them to M/s Thriveni Earthmovers Pvt Ltd is based on the oral condition that damages caused to the garment factory buildings, if any, would be rectified by M/s Thriveni Earthmovers Pvt Ltd.
- The garment unit is also planning to build a hostel for the workers in the adjacent vacant land of the factory where about 500 people who will work for the factory will stay. They expressed concern that their plan for building a hostel would be affected if the mines are allowed to operate.
- Apart from the above, there is a well-constructed pakka house about 150 m away from the mines where four people reside permanently.

#### **Recommendations**


1. The above observations reveal that though the mines are maintained scientifically, the neighboring granite polishing unit, cattle shed, households as well as industrial garment units are vulnerable to the adverse effects of the blasting operations of the proposed mine sites.
2. There is no regulatory mechanism to prevent any mishaps in future, i.e, either granting approval to build new buildings in the vicinity should be avoided or the mining activity should be regulated.

  
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3. Though the mitigation measures to environmental pollution and management of environmental settings is in place, safety of the neighbourhood habitation is at stake.
4. With priority being accorded to the safety of the neighbourhood habitation over the mine and its operations, it is hereby recommended **NOT TO GRANT ENVIRONMENTAL CLEARANCE.**


The site inspection report was placed before the Committee in its 340<sup>th</sup> meeting held on 23.12.2022. Based on the details furnished by the sub-committee, the SEAC has decided to call the Project Proponent to inform the ground on which the proposal cannot be recommended for the grant of fresh Environmental Clearance.

  
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## ANNEXURE-I

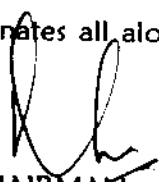
1. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
2. The proponent shall erect fencing all around the boundary of the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

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


  
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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.

  
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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

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

24. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
25. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
26. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
27. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
28. The Project proponent shall install a Display Board at the entrance of the mining lease area/abutting the public Road, about the project information as shown in the Appendix -II of this minute.


  
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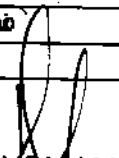
  
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**Appendix -I**  
**List of Native Trees Suggested for Planting**

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விவம்
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சாடி, ஆனைக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாளை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Marutharai	மர்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமர
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamararam	முருக்கமரம்
11	<i>Bobax caba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Punnai	புனை
13	<i>Cassia fistula</i>	Serakondrai	சரகொண்டரை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொண்டரை
15	<i>Chloroxylon swietenia</i>	Purasamaram	புரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Marjallavu	கொங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூலி
18	<i>Cretova adansonii</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சீரு உவா
21	<i>Diospyro sebenum</i>	Karungali	கரங்கலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகனை
23	<i>Ficus amplissima</i>	Kallitchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Astrupoovarasu	ஆஸ்துபுவாசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயிள மரம், ஆயில்
27	<i>Lanea coromandelica</i>	Odham	ஒதம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் செட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விளா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிசிப்பட்டை
32	<i>Madhuca longifolia</i>	Ilhupai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பழை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனா
38	<i>Phoenix sylvestre</i>	Eachai	ஏச்சுமரம்
39	<i>Pongamia pinnat</i>	Pungam	புளங்கம்

  
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40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunnai	நறு முன்னை
42	<i>Premna tomentosa</i>	Malipoovarasu	மலைப் பூங்கா
43	<i>Prosopis cinerea</i>	Vanni maram	வாணி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்டிமங்க
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கரிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Mannipungan, Seepukai	மணிபுண்டி சேப்புக்காய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Strobilus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாங் கேட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்டி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேனி மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தா வேம்பு
58	<i>Thespesia populnea</i>	Pirvarasu	பூங்கா
59	<i>Walsuratrifoliata</i>	valsura	வாலசூரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காய்ப்பழி

  
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Appendix –II

Display Board

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

சுரங்கம்

சுரங்கங்களில் குவாரி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கிழவன்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEAAV, தேனி மீட்டர், சுற்றுச்சூழல் அனுமதி தேதி வரை செல்லத்தக்கதாக உள்ளது.

புகளம் பகுதி வளர்ச்சி செயல்பாட்டுக்கான சுரங்கத் திட்டம்	குவாரிமீன் எல்லைகளை சுற்றி வேலி அமைக்க வேண்டும்
நட்புமட்டு பராமரிக்கப்பட வேண்டிய மரங்கள் எண்ணிக்கை:	சுரங்கப்பகுதியின் ஆழம் தகராடி திட்டமிடும் திட்டக்கு மிகாமல் இருக்க வேண்டும். சுரங்கம் மரம் ஏற்படாதவாறு சுரங்க பணிகளை மேற்கொள்ள வேண்டும். வணக்கம் செல்லும் பகுதியில் மரம் ஏற்படாத அளவிற்கு தண்ணீரை முறையாக தண்ணீர் வழிவகை முறையை அமைக்க வேண்டும். இளஞ்செல் அளவைகள் தூசி மரங்கள் ஆகும் குவாரிப்பகுதிகளில் குவாரிமீன் எல்லைகளை சுற்றி அடர்த்தியான மரம் பகுதியை ஏற்படுத்த வேண்டும்.
சுரங்கத்தில் வெடி வைக்கும்பொழுது நிலஅதிர்வுகள் ஏற்படாதவாறு மந்திரம் சுரங்கம் பறக்காதவாறு பாதுகாப்பு நடவடிக்கைகளை உள்விடப்பட வேண்டியிருக்க வேண்டும்	
சுரங்கத்தில் இருந்து ஏற்படும் இளஞ்செல் அளவு 25 செ.மீ.யில் (25A) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.	
சுரங்க சட்ட விதிகள் 1968-ன் கீழ் சுரங்கத்தில் உள்ள பணியாளர்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு கைதாழ்வுகள் வழிபாடு வழங்க வேண்டும்.	
கிளாமம் அல்லது பூச்சுறுத்து வகியான காகங்கள் செல்லும் சமையலை தொடர்ந்து நன்றாக பராமரிக்க வேண்டும்.	
சுரங்கப்பணிகளால் அருகில் உள்ள விவசாயப் பணிகள் மற்றும் நீர்நிலைகள் பாதிக்கப்படக் கூடாது.	
நிர்ணயிக்கப்பட்ட மரம் இழப்பை உறுதி செய்தல் வகையில் தகுந்த நிர்ணயங்களை மேற்கொள்ள வேண்டும்.	
சுரங்கத்திலிருந்து கனிம பொருட்களை எடுத்துச் செல்லும் கிராம மக்களுக்கு எந்தத் தீர்மானங்களும் ஏற்படுத்தாதவாறு பாதுகாப்புகளும் மற்றும் சுற்றுச்சூழல் பாதிக்காத வகையில் வகையானவை இயக்க வேண்டும்.	
சுரங்கப்பணிகள் முடிக்கப்பட்டவுடன் சுரங்க மூடல் திட்டத்தில் உள்ளவாறு சுரங்கத்தினை மூட வேண்டும்.	
சுரங்க நடவடிக்கைகளை முடித்துவிட்டு சுரங்கப் பகுதி மற்றும் சுரங்க நடவடிக்கைகளை இடைபுற ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் பாதுகாப்பாக செய்ந்து தகராடி வகையில் விவகாரம் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் புகளம்பகுதியை உருவாக்க வேண்டும்.	
முடிவுகளை நிபந்தனைகளை அறிவு பற்றிவைத்து (SEA/Permitting) என்சிறு இணைப்புகளைப் பற்றிவைக்கவும். மேலும் எந்தவித சுற்றுச்சூழல் சார்ந்த புகள்களுக்கு செல்லாமல் உள்ள சுற்றுச்சூழல் மற்றும் வள அமைச்சகத்தின் ஒழுங்கிணைந்த விட்டம் அனுமதி: 04-28222325 (அஸ்ஸு) அறிந்துகொள்ள உட்பட்ட சுரங்கம் செயல்பாடுகளை அனுமதி.	

  
MEMBER SECRETARY  
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