

State Expert Appraisal Committee (SEAC)

Minutes of 436th meeting of the State Expert Appraisal Committee (SEAC) held on 29.12.2023 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building & Construction projects, CRZ Clearance projects and Mining projects.

Confirmation of Earlier Minutes

The minutes of the 435th SEAC meeting held on 28.12.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 436-01

(File No: 10492/2023)

Proposed Multi Colour Granite Quarry over an extent of 4.86.0 Ha at S.F.Nos.488/1B(P), 488/2(P), 488/3A, 489/4A, 489/5A1, 497 & 503/3(P) of Sithampoondi Village, Paramathivelur Taluk, Namakkal District, Tamil Nadu by M/s. P.K.K. Exports - For Terms of Reference. (SIA/TN/MIN/442578/2023, Dated: 01.09.2023).


The proposal was placed in the 436th Meeting of SEAC held on 29.12.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. P.K.K. Exports has applied for Terms of Reference for the Proposed Multi Colour Granite Quarry over an extent of 4.86.0 Ha at S.F.Nos.488/1B(P), 488/2(P), 488/3A, 489/4A, 489/5A1, 497 & 503/3(P) of Sithampoondi Village, Paramathivelur Taluk, Namakkal District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, the PP has obtained Environmental Clearance from SEIAA vide Lr. No. SEIAA/TN/F.No.2645/EC/1(a)/1567/2014 Dt: 11.02.2015 for the proposed Multi Colour Granite Quarry at S.F.Nos.488/1B(P), 488/2(P), 488/3(P), 489/4(P), 489/5A(P), 497, 503/3(P) of Sithampoondi Village, Paramathivelur Taluk,


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SEAC -TN

1

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SEAC- TN


Namakkal District for the production of Multi Colour Granite - 6000 cu.m & depth up to 13m.

4. Lease granted for the period of 20 years. The lease deed was executed on 17.04.2015 and lease period is valid up to 16.04.2035.
5. During the mining plan period, the lessee had transported a quantity of 13585.605 cbm of Multi Colour Granite (Up to 25.10.2018) for the period from 2015-16 to 2019-2020 in the above subject area. The SEIAA has approved an EC quantity of 6000 cbm of Multi Colour Granite valid for the period of 5 years from the date of execution of the quarry lease. The Year wise transported quantities are as given below.

S.No	Year	Quantity (in CBM)
1.	2015-2016	5549.156
2.	2016-2017	2964.353
3.	2017-2018	3711.702
4.	2018-2019	1359.394
5.	2019-2020 (25.10.2018)	Nil
Total		13585.605

6. The District Collector, Namakkal had issued demand notice to the lessee for violations of the EC approved quantity (Exceeded the EC approved quantity). Against the demand notice, the lessee Tvl.P.K.K.Exports filed a Writ Petition No.10923/2020 before the Hon'ble High Court of Madras. The Counter affidavit has been filed by the District Collector, Namakkal on 23.07.2021. The case is still pending in the Hon'ble court.
7. Therefore, based on the report of the Assistant Director (G&M), Namakkal district and in exercise of the powers conferred under Rule 18(4) of Granite Conservation and Development Rules, 1999 read with G.O. (Ms) No.87, Industries (MMC.1) Department dated 22.02.2001, the First Scheme of Mining submitted by Tvl.P.K.K.Exports is approved for the period from 2023-2024 to 2024-25 for a quantity of 24624 cbm.


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SEAC -TN

2

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Now, the proposal was placed in 436th Meeting of SEAC held on 29.12.2023. Based on the presentation and documents furnished by the PP, the Committee noted the following violation aspect:

1. As against EC approved quantity of 6000 m³, the Proponent had transported a quantity of 13585.605 m³ of Multi Colour Granite (Up to 25.10.2018) for the period from 2015-16 to 2019-2020 in the above subject area.

Hence, based on the above, Committee decided to treat the case as violation & decided to grant of Terms of Reference (ToR) under Violation category with Public Hearing, subject to the following ToRs, in addition to the standard terms of reference for EIA study for non-coal mining projects and 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 NABET accredited consultants. The grant of Terms of Reference (ToR) under Violation category does not entail EC which is subject to the outcome of the final orders of the Hon'ble High Court of Madras in the matter of W.P.(MD) No. 11757 of 2021.


1. The project proponent shall submit a Certified Compliance Report obtained from the IRO, MoEF & CC, Chennai as per the MoEF&CC O.M dated.08.06.2022 for the previous EC and appropriate mitigating measures for the non-compliance items, if any.
2. SEIAA may write to government to take credible action against the proponent under section 19 of Environment Protection Act, 1986.
3. The PP shall withdraw the remaining below applications with proper justification.

S.No	Online Application No
1.	SIA/TN/MIN/436601/2023, Dated:04.10.2023 for EC
2.	SIA/TN/MIN/449810/2023, Dated:21.10.2023 for ToR


4. The PP shall furnish letter from AD, mines including the following details,
 - Existing pit dimension through precise mine surveying (DGPS).
 - Quantity achieved Vs EC Approved Quantity.
 - Balance Quantity as per Mineable Reserve calculated.
 - Mined out Depth as on date Vs EC Permitted depth.


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SEAC -TN

3


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SEAC -TN

- Details of illegal/illicit mining carried out in the proposed quarry site.
 - Violation in the quarry during the past working.
 - Quantity of material mined out outside the mine lease area.
 - Condition of Safety zone/benches as on date.
5. Details of any penalties levied on the PP for any violation in the quarry operation.
 6. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.
 7. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry.
 8. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
 9. The PP shall submit the stability status of the existing quarry wall and slope stability action plan by carrying out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus.
 10. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & upto 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
 11. 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 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


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SEAC -TN

4

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corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.

12. 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.
13. Copy of valid mining lease approval obtained from the competent Authority.
14. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
15. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
16. Copy of 'No Objection Certificate' for the total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP if any.
17. Details of habitations and fireworks around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
18. 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.
19. 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.
20. 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.


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21. 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.
22. 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.
23. 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.
24. 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.
25. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).



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SEAC- TN


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26. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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


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

33. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
34. 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.
35. 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.
36. 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.
37. 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.
38. Impact on local transport infrastructure due to the Project should be indicated.
39. 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.
40. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
41. 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


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SEAC -TN

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SEAC- TN 

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

42. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
43. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
44. 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.
45. 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
46. 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.
47. 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.
48. 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.
49. 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.
50. 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


MEMBER SECRETARY
SEAC -TN

9

CHAIRMAN
SEAC- TN


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

51. 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.
52. 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.
53. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
54. 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.
55. 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.
56. 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.
57. 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: 436-02

(File No: 10527/2023)

Proposed Black Granite Quarry over an extent of 1.12.5 Ha at S.F.Nos. 915/1, 2, 3, 1021/1B & 1022/2 of Bargur Village, Anthiyur Taluk, Erode District, Tamil Nadu by M/s.


MEMBER SECRETARY
SEAC -TN

10

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SEAC- TN


Minrocks International Private Ltd - For Terms of Reference.

(SIA/TN/MIN/450679/2023, Dated: 01.11.2023).

The proposal was placed in the 436th Meeting of SEAC held on 29.12.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. Earlier, the PP has obtained Environmental Clearance from SEIAA vide Lr. No. SEIAA/TN/F.No.2512/EC/1(a)/1477/2014 Dt: 25.07.2014 for the Black Granite Quarry over an extent of 1.12.5 Ha at S.F.Nos.915/1, 2, 3, 1021/1B & 1022/2 of Bargur Village, Anthiyur Taluk, Erode District, Tamil Nadu for the production of Black Granite - 645 cu.m & depth up to 21m.
2. Lease granted for the period of 20 years. The lease deed was executed on 07.08.2014 and lease period is valid up to 06.08.2034.
3. The Project Proponent, M/s. Minrocks International Private Ltd has applied for Terms of Reference for Proposed Black Granite Quarry over an extent of 1.12.5 Ha at S.F.Nos.915/1, 2, 3, 1021/1B & 1022/2 of Bargur Village, Anthiyur Taluk, Erode District, Tamil Nadu.
4. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
5. As per the mining plan the lease period is 20 years (07.08.2014 to 06.08.2034). The scheme of mining plan is for the period of five years (2019 to 2024) & production should not exceed 2,162 m³ of ROM, 865 m³ of Granite Recovery (@40%) & 1297 m³ of Granite Waste (@60%) with ultimate depth of mining 21m BGL.

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

1. The PP shall withdraw the remaining below applications with proper justification.

S.No	Online Application No
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MEMBER SECRETARY
SEAC -TN

11

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SEAC- TN


1.	SIA/TN/MIN/57033/2020, Dated:26.09.2020 for ToR
2.	SIA/TN/MIN/176339/2020, Dated:09.10.2020 for EC extension

2. The project proponent shall submit a Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai as per the MoEF&CC O.M dated.08.06.2022 for the previous EC and appropriate mitigating measures for the non-compliance items, if any.
3. Proponent shall furnish the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
4. Since the RF is located within 500 m distance from the proposed mine lease, the PP shall furnish the mitigation measures for the free range animals as a special chapter in the EIA report, for the impacts caused due to the mining operation with a comprehensive study carried out by a reputed institution.
5. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which shall stipulate the following information:
 - i. Original pit dimension of the existing quarry
 - ii. Quantity achieved Vs EC Approved Quantity
 - iii. Balance Quantity as per Mineable Reserve calculated.
 - iv. Mined out Depth as on date Vs EC Permitted depth
 - v. Details of illegal/illicit mining carried out, if any
 - vi. Non-compliance/Violation in the quarry during the past working.
 - vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
 - viii. Existing condition of Safety zone/benches
 - ix. Details of any penalties levied on the PP for any violation in the quarry operation
6. The PP shall obtain registered lease consent document obtained from all the pattadhars of proposed mining area.
7. The project proponent shall submit the approved mining plan/scheme of mining for the next spell of mining along with the EIA/EMP report.


MEMBER SECRETARY
SEAC -TN

12

CHAIRMAN
SEAC- TN



8. The study on impact of the proposed quarrying operations on the surrounding environment which includes reserve forest, water bodies, etc.
9. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.
10. The Proponent shall furnish a comprehensive plan for storing the waste blockage of granite produced from the proposed quarrying operation to ensure sustainable environment.

Agenda No: 436-03

(File No: 10303/2023)

Proposed construction of Hospital Building at S.F.No. 102/2B2, 102/2C2, 104/1A2, 104/2A2, 104/1B, 104/2B2 of Veeraraghavapuram Village, Poonamallee taluk, Thiruvallur District, Tamil Nadu by M/s. Velammal Hospitals Private Limited- For Environmental Clearance (SIA/TN/INFRA2/438444/2023 dated: 29.07.2023).

The proposal was earlier placed in the 414th Meeting of SEAC held on 27.9.2023. The Committee discussed the matter and recommended a grant of environmental clearance for the project proposal and subject to the standard conditions as per the Annexure II of the minutes & normal conditions stipulated by MOEF &CC, in addition to the specific conditions stated therein.

Subsequently, the subject was placed in the 666th Authority meeting held on 30.10.2023. After detailed discussions, the authority decided to seek the following.

- (i) The PP shall furnish the details of Creche provided in the site.
- (ii) The PP shall earmark the Children play area in the map.
- (iii) The PP shall furnish NOC from Airport Authority of both Meenambakkam and Avadi.
- (iv) There is a nalla found at 140m and River Cooum is located at 380m from the project site, hence the PP shall furnish Inundation certificate from the competent Authority.
- (v) The PP shall furnish evacuation plan.


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SEAC -TN

13

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SEAC- TN


- (vi) The PP shall furnish disaster management plan.
- (vii) The PP shall furnish detailed EMP with amount of expenditure for each item of work to be elaborated.
- (viii) The PP shall furnish Gap Analysis Report from TNPCB.
- (ix) The proponent shall furnish action plan to mitigate carbon emissions, GHGs & to reduce carbon footprint to enable health comforts & management.
- (x) The proponent shall furnish appropriate plan for all types of waste management including bio medical waste.

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- n • The PP shall furnish NOC from Airport Authority.
- c • There is a nalla found at 140m and River Cooum is located at 380m
e from the project site, hence the PP shall furnish Inundation certificate
, from the competent Authority.
- t • The proponent shall furnish action plan to mitigate carbon emissions, GHGs
& to reduce carbon footprint to enable health comforts & management.

Therefore, SEAC decided to defer the proposal.


Agenda Item No: 436 - 04

File No: 10479/2023

Proposed Rough Stone and Gravel quarry over an extent of 2.35.98 Ha in S.F.Nos. 75/6, 75/7, 75/8, 75/9, 85/1, 85/2, 88/1, 88/2A and 88/4A, of Nelvaipalayam Village, Cheyyur Taluk, Chengalpattu District, Tamil Nadu by Thiru. K. Sundramoorthy - For Terms of Reference. (SIA/TN/MIN/448716/2023, dt: 13/10/2023)

The proposal was placed in this 436th meeting of SEAC held on 26.12.2023. The Project Proponent made a presentation on the proposed project. The details of the project are available on the PARIVESH web portal (parivesh.nic.in). The SEAC noted the following among other things:

1. The Project Proponent, Thiru. K. Sundramoorthy has applied seeking Terms of Reference for EIA study for the proposed Rough Stone Gravel quarry over an extent of 2.35.98 Ha in S.F.Nos. 75/6, 75/7, 75/8, 75/9, 85/1, 85/2, 88/1, 88/2A


MEMBER SECRETARY
SEAC -TN

14

CHAIRMAN
SEAC- TN


and 88/4A, of Nelvaipalayam Village, Cheyyur Taluk, Chengalpattu District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006 as amended.
3. The mine lease area is non-contiguous.

Based on the document and details furnished by the project proponent, SEAC decided to grant **Terms of Reference (ToR) with Public Hearing** subject to the following ToRs, in addition to (i) the standard terms of reference for EIA study shown in Annexure-I and (ii) the Standard ToR for non-coal mining projects and details issued by the MoEF&CC to be included in EIA/EMP Report:

1. Mining is permitted only in Block I bearing S.F.Nos. 88/1, 88/2A and 88/4A. Hence the PP shall furnish revised mining plan detailing the corresponding production quantity along with the EIA report.
2. No mining is permitted in Block II bearing S.F.Nos. 75/6, 75/7, 75/8, 75/9, 85/1, 85/2 and the area shall only be used for stocking the mined material or dumping the waste/reject material or for parking vehicles or establishing mine office.
3. The Proponent shall provide garland drain around the boundary of the proposed quarry and the photographs indicating the same shall be shown during the EIA appraisal.
4. The Proponent shall justify the selection of the site for carrying out the stone quarrying with the total volume arrived for the excavation & production adequate details such as lithology of the deposit, reserve estimation, place for waste dump/mined mineral storage, end-use of mined materials, identified potential customers/end-users and travel path.
5. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.


MEMBER SECRETARY
SEAC -TN

15

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SEAC- TN


6. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc located within 1 km of the proposed quarry.
7. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
8. The Proponent shall carry out Bio diversity study through Department of Ecology and Environmental Sciences, Pondicherry University and the same shall be included in EIA Report.
9. 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.

Agenda Item No: 436 - 05

File No: 10493/2023

Existing Magnesite Mine over an extent of 2.57.0 Ha (next scheme of mining) in S.F.Nos. 77, of Kondappanaickenpatty Village, Salem Taluk, Salem District, Tamil Nadu by G.Pasupathi (Prop. M/s. Sudharshaan Mining Corporation) - For Terms of Reference under violation category. (SIA/TN/MIN/446456/2023, dt: 30/09/2023)

The proposal was placed in this 436th meeting of SEAC held on 26.12.2023. The Project Proponent made a detailed presentation on the proposed project. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The SEAC noted the following among other things:

1. The Project Proponent, Thiru. G. Pasupathi (Prop. M/s. Sudharshaan Mining Corporation) has applied seeking Terms of Reference for EIA study for the Existing Magnesite Mine over an extent of 2.57.0 Ha in S.F.Nos. 77, of Kondappanaickenpatty Village, Salem Taluk, Salem District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006 as amended.
3. ToR under violation category issued vide Lr No. SEIAA-TN/F.No.6137/TOR-399/2018 Dated: 16.05.2018.


MEMBER SECRETARY
SEAC -TN

16

CHAIRMAN
SEAC- TN


4. Public hearing conducted on 26.02.2021.
5. Extension ToR issued vide Lr.No.SEIAA-TN/F.No.6137/ ToR-399 Ext/ dated.12.11.2022.
6. Subsequently the project proponent has submitted the EC application vide (SIA/TN/MIN/437134/2023 dated: 18.07.2023) pertaining to File No. 6137 along with the EIA Report. During the meeting, the SEAC decided to defer the proposal as the PP wanted time to submit more information. Now the PP has filed this application seeking fresh ToR under violation category as the validity of the existing ToR dated 16.05.2018 has expired.
7. The District Collector, Salem vide Lr. No. RoC. No. 45/2018/M-3/Mines A dated 31.07.2019 has levied a penalty of Rs.1,38,05,730/- for operating the mine from 15.01.2016 to 10.01.2017 without EC.

Hence the SEAC decided to grant Terms of Reference (ToR) under violation category subject to the following ToRs, in addition to (i) the standard terms of reference for EIA study shown in Annexure-I and (ii) the Standard ToR for non-coal mining projects and details issued by the MoEF&CC to be included in EIA/EMP Report.

1. The SEIAA may write to government to take credible action against the proponent under section 19 of Environment Protection Act, 1986.
2. The PP shall furnish letter from AD, mines including the following details.
 - Existing pit dimension through precise mine surveying (DGPS).
 - Quantity achieved Vs Approved Quantity.
 - Balance Quantity as per Mineable Reserve calculated.
 - Mined out Depth as on date Vs Permitted depth.
 - Details of illegal/illicit mining carried out in the proposed quarry site.
3. Status on the penalties levied on the PP for any violation in the quarry operation and the remittance details along with supporting documents.
4. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.


MEMBER SECRETARY
SEAC -TN

17

CHAIRMAN
SEAC- TN




5. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry.
6. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
7. The PP shall submit the stability status of the existing quarry wall and slope stability action plan by carrying out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions: CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus.
8. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & upto 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
9. 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 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.
10. 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.
11. Copy of valid mining lease approval obtained from the competent Authority.
12. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.


MEMBER SECRETARY
SEAC -TN

18

CHAIRMAN
SEAC- TN


NF

13. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
14. Copy of 'No Objection Certificate' for the total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP if any.
15. Details of habitations and fireworks around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.



MEMBER SECRETARY
SEAC -TN

19


CHAIRMAN
SEAC- TN


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21. 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.
22. 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.
23. 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).
24. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
25. 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.
26. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with



MEMBER SECRETARY
SEAC -TN

20

CHAIRMAN
SEAC- TN


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

27. 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.
28. 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.
29. 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.
30. 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.
31. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
32. 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


MEMBER SECRETARY
SEAC -TN

21

CHAIRMAN
SEAC- TN


post operational phases and submitted. Impact, if any, of change of land use should be given.

33. 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.
34. 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.
35. 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.
36. Impact on local transport infrastructure due to the Project should be indicated.
37. 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.
38. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
39. 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.
40. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
41. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.


MEMBER SECRETARY
SEAC -TN

22

CHAIRMAN
SEAC- TN


42. 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.
43. 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
44. 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.
45. 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.
46. 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.
47. 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.
48. 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.
49. 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.


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN



50. 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.
51. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
52. 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.
53. 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.
54. 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.
55. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda Item No: 436 - 06

File No: 10500/2023

Proposed Rough Stone and Gravel quarry over an extent of 1.26.00 Ha in S.F.Nos. 205/3A, 205/3B1, 208/2B and 208/3B, of Duraiswamipuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by Thiru. G. Radhakrishnan - For Terms of Reference. (SIA/TN/MIN/448749/2023, dt: 16/10/2023)

The proposal was placed in this 436th meeting of SEAC held on 26.12.2023. The SEAC noted that the Project Proponent vide letter dated 28.12.2023 has informed that he is unable to attend the meeting and has requested the SEAC to defer the subject. The


MEMBER SECRETARY
SEAC -TN

24


CHAIRMAN
SEAC- TN

Committed accepted the request of the PP and decided to defer the subject to a later date.

Agenda Item No: 436 - 07

File No: 10535/2023

Proposed Multicolour Granite quarry over an extent of 2.51.5 Ha in S.F.Nos. 251, of Nallur Village, Kulithalai Taluk, Karur District, Tamil Nadu by Thiru. K. Sakthivel - For Terms of Reference. (SIA/TN/MIN/451778/2023, dt: 09/11/2023)

The proposal was placed in this 436th meeting of SEAC held on 26.12.2023. The Committee noted that the project proponent was absent for the meeting. The 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: 436-08

(File No: 9919/2023)

Existing Multi Colour Granite lease over an extent of 3.29.0 Ha at S.F.No. 1320 /2A, 1323/1B1, 1323/1B2, 1325/4B, 1325/5A1, 1325/5A2, 1325/5A3, 1325/5A4, 1325/5A5, 1325/5A6, 1325/5B1 & 1325/5B2, in Thiruthangal Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by Tvl. STANCO Traders – Environment Clearance. For next scheme of mining (SIA/TN/MIN/424980/2023 dated 06.04.2023)

The subject was earlier placed in the 408th meeting of SEAC held on 08.09.2023 and the SEAC has furnished its recommendations for the grant of Environmental Clearance to the project subject to the conditions stated therein. Subsequently the subject was placed in the 659th meeting of Authority held on 27.09.2023. The decided to seek the following additional particulars from the PP:

1. SEIAA noted that the proposed ultimate depth and production plan is 105m. Whereas the water table is 60m-70m. Will the working impact the water table and what is the mitigation action planned for prevention of ground water depletion and pollution.
2. Details of plantation to be done and that already done along with the cost incurred shall be furnished.


MEMBER SECRETARY
SEAC -TN

25

CHAIRMAN
SEAC- TN



3. PP shall furnish a report on mine safety precautions, workers' safety and health precautions.
4. Action taken report on the non-compliances mentioned in the CCR.
5. Action taken to maintain and restore the haul road.
6. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area from a reputed research institution on the following:
 - a. Soil health & bio-diversity.
 - b. Climate change leading to Droughts, Floods etc.
 - c. Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
 - d. Possibilities of water contamination and impact on aquatic ecosystem health.
 - e. Agriculture, Forestry & Traditional practices.
 - f. Hydrothermal/Geothermal effect due to distraction in the Environment.
 - g. Bio-geochemical processes and its foot prints including environmental stress.
 - h. Sediment geochemistry in the surface streams.

The PP furnished a study report dated 07.11.2023 and hence the subject was placed in the 672nd meeting of Authority held on 14.11.2023. After detailed discussions, the Authority decided to refer back the subject to the SEAC to furnish remarks on the report furnished by the PP.

Hence the subject was taken for discussion in this 436th meeting of SEAC held on 29.12.2023. The SEAC carefully examined the reply furnished by the PP and the report on geophysical survey conducted by VOC College wherein it is stated that,

"Based on the available information and the geophysical investigations it is concluded that the project area is considered to poor ground water potential up to 130m. There is no water seepage noticed in to the already quarried pits situated 90mts north and north west of the proposed quarry area"

The SEAC therefore decided to reiterate the recommendations already made in the 408th meeting of SEAC held on 08.09.2023 and the conditions remain unaltered.


MEMBER SECRETARY
SEAC -TN

26

CHAIRMAN
SEAC- TN

nr

Agenda No: 436-09

(File No: 10290/2023)

Proposed Rough stone lease over an extent of 1.54.4 Ha at S.F.No.121/2 and 121/3 in Chennimalai village, Perundurai Taluk, Erode District, Tamil Nadu by Thiru. Tmt.R. Maheswari- Environment Clearance. (SIA/TN/MIN/436752/2023 dt 14.07.2023)

The proposal was earlier placed in the 413rd meeting of SEAC held on 05.10.2023 and the SEAC furnished its recommendations for the grant of Environmental Clearance to the project subject to the conditions stated therein.

Subsequently the subject was placed in the 665th meeting of Authority held on 26.10.2023. The Authority noted that the subject was placed in the 413th meeting of SEAC held on 05.10.2023 and the SEAC noted that,

ToR issued for this proposal vide Lr.No. SEIAA-TN/F.No.9154/SEAC/ToR-1188/2022 dated 06.07.2022 under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended. Now, during this appraisal, the PP informed the Committee that the project activity falls under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended furnishing revised 500m Cluster letter dated 30.05.2023 issued by DD(Mines), Erode District and requested the Committee to grant EC considering the project activity as B2 category project. The SEAC, after detailed discussions accepted the request of the PP and decided to consider the project activity under Category "B2" and directed the PP to submit request letter to the Authority for surrendering the ToR granted vide SEIAA Lr.No. SEIAA-TN/F.No.9154/SEAC/ToR-1188/2022 dated 06.07.2022.

With the above noting, the SEAC has furnished its recommendations for the grant of Environmental Clearance to the project subject to the conditions stated therein.

After detailed discussions, the Authority decided to refer back the proposal to SEAC citing the following:

ToR vide Lr.No. SEIAA-TN/F.No.9154/SEAC/ToR-1188/2022 dated 06.07.2022 has already been issued for this proposal under Category "B1" of Item 1(a)


MEMBER SECRETARY
SEAC -TN

27

CHAIRMAN
SEAC- TN


"Mining Projects" of the Schedule to the EIA Notification, 2006, as amended. Now, for the same project, the PP has applied seeking EC under Category "B2" without disclosing the history of the granted ToR to circumvent the procedure of public hearing. It is suggested that surrender of ToR for the sake of category change may be justified with the necessary Notifications or O.M of MoEF&CC. Further if this kind of approach by the PP is entertained this may become a trend setter. Hence the SEAC may reconsider its recommendations for the change of category from B1 to B2 for the already 'appraised and ToR granted proposal' and the Authority feels no case to consider this request of PP.

Hence the subject was taken for discussion in this 436th meeting of SEAC held on 29.12.2023. The SEAC carefully examined the reply furnished by the PP as no mining operations were carried out and the revised cluster certificate is obtained following the sudden death of PP's husband. Here, the Committee felt that it has to accept the cluster letter revised and issued by competent authorities taking into account the changed circumstances, unless there is a reason to get additional details and hence it is decided to reiterate the recommendations already made in the 413rd meeting of SEAC held on 05.10.2023 and the conditions remain unaltered.

Agenda No: 436 - 10

(File No: 10494/2023)

Proposed Rough stone & Gravel quarry lease over an extent of 1.70.0 Ha at S.F.Nos. 163, 165 & 167/1 of Duraisamipuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by Thiru. V. Murugaiyan - For Terms of Reference.

(SIA/TN/MIN/449108/2023, Dated: 17.10.2023)

The proposal was placed for appraisal in this 436th SEAC meeting held on 29.12.2023. The details of the project furnished by the proponent are given in the website parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. V. Murugaiyan has applied for Terms of Reference for the Proposed Rough stone & Gravel quarry lease over an extent of 1.70.0 Ha at S.F.Nos. 163, 165 & 167/1 of Duraisamipuram Village, Sivakasi Taluk,


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


Virudhunagar District, Tamil Nadu.

2. The project/activity is covered under Schedule 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 5 years. The mining plan is for 5 years & production should not exceed 69,530 m³ of Rough Stone & 38,604 m³ of Gravel. The annual peak production of Rough Stone should not exceed 14,940 m³ of Rough Stone & 15,744m³ of Gravel. The ultimate depth of mining is 19m BGL.

Now, the proposal was placed in the 436th SEAC meeting held on 29.12.2023. Based on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs, as per the Annexure I of this minute, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The mining activity shall be restricted to SF No. 165, 167/1 (Pit-II) and accordingly Mining Plan shall be revised and approved by Competent Authority and the same shall be submitted along with EIA Report.
2. The PP shall furnish the comprehensive report on the mitigation measures to control the impacts due to mining operation on the adjacent agricultural activities by involving a reputed research institution.

Agenda No: 436 - 11

(File No: 10501/2023)


Proposed Lime Stone quarry lease over an extent of 3.07.0 Ha at S.F.Nos. 132/1 & 132/3(P) of Panamooppampatti Village, Usilampatti Taluk, Madurai District, Tamil Nadu by Tmt. B. Thiraviam - For Terms of Reference. (SIA/TN/MIN/449390/2023, Dated: 19.10.2023)

The proposal was placed for appraisal in this 436th SEAC meeting held on 29.12.2023. The details of the project furnished by the proponent are given in the website parivesh.nic.in).

The SEAC noted the following:


MEMBER SECRETARY
SEAC -TN

29

CHAIRMAN
SEAC- TN


1. The project proponent, Tmt. B. Thiraviam has applied for Terms of Reference for the Proposed Lime Stone quarry lease over an extent of 3.07.0 Ha at S.F.Nos. 132/1 & 132/3(P) of Panamooppampatti Village, Usilampatti Taluk, Madurai District, Tamil Nadu.
2. The project/activity is covered under Schedule 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Now, the proposal was placed in the 436th SEAC meeting held on 29.12.2023. Based on the presentation and documents furnished by the proponent, committee noted the following

1. Earlier the Proponent had obtained Environmental Clearance vide Lr. No. SEIAA-TN/F.No.6355/1(a)/EC. No:5720/2018, dated:09.05.2023 under 'B1' Category for Production for Five years, 563MT of production Limestone @30% and 1,313MT of rejects @70% with an ultimate depth of mining 13m BGL.
2. Now the proponent is proposing for an expansion in the production quantity with respect to the earlier issued Environmental clearance - 3,63,497.50 Tonnes of RoM, Production - 2,54,448.25 Tonnes @ 70% Recovery & 1,09,049.25 Tonnes of Mineral Reject. The annual peak production of RoM should not exceed 74,342.50 Tonnes. The ultimate depth of mining is 34m BGL.
3. MoEF&CC Office Memorandum Dated: 11.04.2022 regarding the Guidelines for granting Environmental Clearance (EC) under para 7(ii)(a) of EIA Notification, 2006 for expansion up to 50%, within the existing premises/ mine lease area, without additional land acquisition which inter alia states as follows

- a) Under sub para (iv) of Para 4

"The Proposed expansion shall not be more than 50% of production capacity as mentioned in prior EC, issued on the basis of public hearing held and the same shall be allowed in minimum three phases."

- b) Under para 5

'Subject to the fulfilment of the conditions at Para 4 (i) to (viii) above, following procedure shall be adopted for processing the application for considering expansion of proposed project up to 50% of capacity as


MEMBER SECRETARY
SEAC -TN

30

CHAIRMAN
SEAC - TN


mentioned in the existing EC. in minimum three phases under Para 7(ii)(a) of EIA Notification, 2006.

c) *Under para 8*

“The projects that do not qualify with the above requirement shall continue to be considered on a case-to-case basis by the concerned EAC/ SEAC as per the provisions of para 7(ii)(a) who will decide whether Environmental Impact Assessment and public consultations need to be carried out.”

Hence, based on the above facts and Office Memorandum issued by MoEF&CC issued from time to time, SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs, as per the Annexure I of this minute, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report.

Agenda No: 436 - 12

(File No.10495/2023)

Existing Magnesite Mine Lease over an extent of 2.56.9 Ha at S.F.No.36 (P) of Kondappanaickenpatty Village, Salem Taluk, Salem District, Tamil Nadu by Thiru. G. Rajkumar – For Terms of Reference (SIA/TN/MIN/446568/2023 dated.02.10.2023)

The proposal was placed for appraisal in the 436th Meeting of SEAC held on 29.12.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, **Thiru. G. Rajkumar** has applied for Terms of Reference for the Existing Magnesite Mines Lease over an extent of 2.56.9 Ha at S.F.No. 36(P), of Kondappanaickenpatty Village, Salem Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Category “B1” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.
3. Earlier, the proponent applied for ToR under violation category vide PARIVESH Proposal No.SIA/TN/MIN/23056/2018 dated.03.04.2018 (Offline No.6109).
4. Subsequently, ToR under violation category was issued to the proponent vide


MEMBER SECRETARY
SEAC -TN

31


CHAIRMAN
SEAC- TN


Lr.No.SEIAA-TN/F.No.6109/ToR-370/2018 dated.22.05.2018.

5. Further, the proponent submitted an application seeking extension of validity of ToR in the PARIVESH Portal vide Proposal No. SIA/TN/MIN/268363/2022 dated: 18.04.2022.
6. Subsequently, validity extension of ToR was issued vide Lr.No.SEIAA-TN/F.No.6109/ToR-370/Ext/ dated.26.11.2022.
7. Subsequently, the proponent submitted a proposal seeking Environmental Clearance along with EIA Report vide Proposal no. (SIA/TN/MIN/437204/2023 dated.18.07.2023.
8. It was noted that the proponent has submitted the EIA Report after expiry of validity of ToR. Further, the baseline data was collected during the period March-May 2019 which was older than 4 years.
9. Hence, the proponent submitted a fresh application seeking Terms of Reference vide this proposal No. SIA/TN/MIN/446568/2023 dated.02.10.2023.

Hence the SEAC decided to grant Terms of Reference (ToR) under violation category subject to the following ToRs, in addition to (i) the standard terms of reference for EIA study shown in Annexure-I and (ii) the Standard ToR for non-coal mining projects and details issued by the MoEF&CC to be included in EIA/EMP Report.

1. The SEIAA may write to government to take credible action against the proponent under section 19 of Environment Protection Act, 1986.
2. The PP shall furnish letter from AD, mines including the following details,
 - Existing pit dimension through precise mine surveying (DGPS).
 - Quantity achieved Vs Approved Quantity.
 - Balance Quantity as per Mineable Reserve calculated.
 - Mined out Depth as on date Vs Permitted depth.
 - Details of illegal/illicit mining carried out in the proposed quarry site.
3. Status on the penalties levied on the PP for any violation in the quarry operation and the remittance details along with supporting documents.
4. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying


MEMBER SECRETARY
SEAC -TN

32

CHAIRMAN
SEAC- TN


operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.

5. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry.
6. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
7. The PP shall submit the stability status of the existing quarry wall and slope stability action plan by carrying out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions: CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus.
8. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & upto 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
9. 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 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.
10. 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.
11. Copy of valid mining lease approval obtained from the competent Authority.


MEMBER SECRETARY
SEAC -TN

33

CHAIRMAN
SEAC- TN



12. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
13. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
14. Copy of 'No Objection Certificate' for the total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP if any.
15. Details of habitations and fireworks around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


21. 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.
22. 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.
23. 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).
24. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
25. 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.
26. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with



MEMBER SECRETARY
SEAC -TN

35

CHAIRMAN
SEAC- TN


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

27. 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.
28. 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.
29. 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.
30. 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.
31. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
32. 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


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


post operational phases and submitted. Impact, if any, of change of land use should be given.


33. 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.
34. 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.
35. 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.
36. Impact on local transport infrastructure due to the Project should be indicated.
37. 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.
38. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
39. 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.
40. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
41. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN



42. 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.
43. 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
44. 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.
45. 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.
46. 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.
47. 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.
48. 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.
49. 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.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

50. 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.
51. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
52. 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.
53. 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.
54. 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.
55. 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: 436 - 13

(File No.10502/2023)

Proposed Rough Stone and Gravel Quarry Lease over an extent of 2.43.5 Ha at S.F.No. 291/1A in Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by Thiru. V. Gopalakrishnan – For Terms of Reference (SIA/TN/MIN/450291/2023 dated.26.10.2023)

The proposal was placed for appraisal in the 436th Meeting of SEAC held on 29.12.2023. The details of the project furnished by the proponent are given in the website(parivesh.nic.in).


MEMBER SECRETARY
SEAC -TN

39

CHAIRMAN
SEAC- TN



The SEAC noted the following:

1. The Proponent, Thiru. V. Gopalakrishnan has applied for Terms of Reference for the Proposed Rough Stone and Gravel Quarry Lease over an extent of 2.43.5 Ha at S.F.No. 291/1A in Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. It is an existing quarry which was earlier quarried by Mr.Palanippan from 2017-2022. He has obtained EC from SEIAA vide Lr.No.SEIAA-TN/F.No.5797/1(a)/EC.No.3873/2016 dated.19.06.2017.
4. Now, the proponent Thiru. V. Gopalakrishnan has submitted an application for quarrying in the proposed area for a period of 5 years.
5. As per the AD Mines letter dated.01.06.2023, the existing pit dimensions are as follows:

Pit 1 – 140m x 98m x 21m; Pit 2 – 79m x 34m x 1m

6. As per the approved mining plan, the quantity for 5 years is 2,26,170m³ of Rough stone & 7,764m³ of Gravel up to the depth of 46m below ground level.

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

1. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.
2. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal,


MEMBER SECRETARY
SEAC -TN

40

CHAIRMAN
SEAC- TN



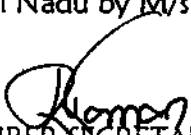
and Anna University Chennai-CEG Campus to design the controlled blast parameters and safe blasting practices in the cluster of mines for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations, through conducting the trial blasts in the adjacent operating quarry located in the same cluster to monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' near the all the structures (houses/temples/public roads) located within 500 m radial distance from the mine leases of the cluster and also at the distances of 750 m & 1000 m. Apart from the above, the PP shall capture the level & direction fly rock produced through slow-motion video. The PP shall submit a copy of the aforesaid report to the SEIAA during the time of appraisal for obtaining the EC after incorporating the same in the revised EIA being submitted at the Public Hearing.

3. The PP shall prepare a conceptual working plan accommodating the remedial actions based on the scientific studies carried out to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and slope stability action plan during the time of appraisal for obtaining the EC.
4. The PP shall undertake Hydrogeology study considering nearby existing wells, Aquifers, Ground water & surface water levels etc within the radius of 1km.

Agenda No: 436 - 14

(File No.10551/2023)

Proposed Rough Stone and Gravel Quarry Lease over an extent of 4.04.50 Ha at S.F.Nos. 361/1A, 361/2A2, 361/2B1, 366/1, 366/2, 366/3, 366/4, 366/5, 367/1, 367/2, 367/3A, 367/3B, 367/3C and 367/4 in Nambarai Village, Arcot Taluk, Ranipet District, Tamil Nadu by M/s. Dhana Blue metals – For Terms of Reference.


MEMBER SECRETARY
SEAC -TN

41

CHAIRMAN
SEAC- TN



(SIA/TN/MIN/451002/2023 dated.11.11.2023)

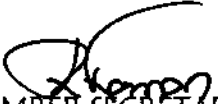
The proposal was placed for appraisal in the 436th Meeting of SEAC held on 29.12.2023. The details of the project furnished by the proponent are given in the website(parivesh.nic.in).

The SEAC noted the following:


1. The Proponent, **M/s. Dhana Blue metals** has applied for Terms of Reference for the Proposed Rough Stone and Gravel Quarry Lease over an extent of 4.04.50 Ha at S.F.Nos. 361/1A, 361/2A2, 361/2B1, 366/1, 366/2, 366/3, 366/4, 366/5, 367/1, 367/2, 367/3A, 367/3B, 367/3C and 367/4 in Nambarai Village, Arcot Taluk, Ranipet District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the production for 5 years is 3,71,250m³ of rough stone & 50,304m³ of gravel up to a depth of 27m below ground level.

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

1. The proponent shall revise the mining plan by leaving a safety distance of 100m from the toe of the dump situated on the northern side of the mine lease. The revised mining plan shall be submitted after incorporating the above safety distance, duly approved by the competent authority in the Dept. of Geology & Mining.
2. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.
2. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies by involving anyone of these reputed Research and


MEMBER SECRETARY
SEAC -TN

42


CHAIRMAN
SEAC- TN


Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus to design the controlled blast parameters and safe blasting practices in the cluster of mines for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations, through conducting the trial blasts in the adjacent operating quarry located in the same cluster to monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' near the all the structures (houses/temples/public roads) located within 500 m radial distance from the mine leases of the cluster and also at the distances of 750 m & 1000 m. Apart from the above, the PP shall capture the level & direction fly rock produced through slow-motion video. The PP shall submit a copy of the aforesaid report to the SEIAA during the time of appraisal for obtaining the EC after incorporating the same in the revised EIA being submitted at the Public Hearing.

3. The PP shall prepare a conceptual working plan accommodating the remedial actions based on the scientific studies carried out to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and slope stability action plan during the time of appraisal for obtaining the EC.
4. The PP shall undertake Hydrogeology study considering nearby existing wells, Aquifers, Ground water & surface water levels etc., within the radius of 1km.

Agenda No: 436 - 15

(File No: 10489/2023)


MEMBER SECRETARY
SEAC -TN

43

CHAIRMAN
SEAC- TN



Proposed Rough stone & Gravel quarry lease over an extent of 3.50.40Ha at SF.No. 167/2B, 2C, 2D (P) & 170/6 (P) of Pachapalayam Village, Suler Taluk, Coimbatore District, Tamil Nadu by Thiru.A.Krishnasamy - For Terms of Reference.

(SIA/TN/MIN/449067/2023, Dated:16.10.2023)

The proposal was placed in the 436th SEAC Meeting held on 29.12.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.A.Krishnasamy has applied for Terms of Reference for the Proposed Rough stone & Gravel quarry lease over an extent of 3.50.40Ha at SF.No. 167/2B, 2C, 2D (P) & 170/6 (P) of Pachapalayam Village, Suler Taluk, Coimbatore 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 lease period is for 5 years. The mining plan is for the period of five years & the production should not exceed 2,81,641m³ of rough stone & 12,120m³ of Gravel with an ultimate depth of mining is 47m BGL. The annual peak production is 63,007m³ of rough stone & 12,120m³ of Gravel.

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

1. In case of the existing quarry/operating mines, the PP shall obtain a letter from the concerned AD (Mines) which shall stipulate the following information:
 - i. Original pit dimension of the existing quarry
 - ii. Quantity achieved Vs EC Approved Quantity
 - iii. Balance Quantity as per Mineable Reserve calculated.
 - iv. Mined out Depth as on date Vs EC Permitted depth
 - v. Details of illegal/illicit mining carried out, if any
 - vi. Non-compliance/Violation in the quarry during the past working.


MEMBER SECRETARY
SEAC -TN

44

CHAIRMAN
SEAC- TN



- vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
 - viii. Existing condition of Safety zone/benches
 - ix. Details of any penalties levied on the PP for any violation in the quarry operation
3. The PP shall submit the stability status of the existing quarry wall and slope stability action plan by carrying out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus.
 4. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & upto 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc. Besides the PP shall obtain certificate from VAO/Panchayat President on the abandoned structure existing within the danger zone.
 5. The study on impact of the proposed quarrying operations on the surrounding environment which includes water bodies, Odai etc.,
 6. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.

Agenda No: 436 - 16

(File No: 10496/2023)

Proposed Multi Colour Granite quarry lease over an extent of 4.35.0Ha at SF.No. 504, 505/1, 505/2 & 856/2A of Sithampoondi Village, Paramathi Velur Taluk, Namakkal District, Tamil Nadu by M/s. Kalpa Exports - For Terms of Reference.

(SIA/TN/MIN/430764/2023, Dated:25.05.2023)


MEMBER SECRETARY
SEAC -TN

45

CHAIRMAN
SEAC- TN



The proposal was placed in the 436th SEAC Meeting held on 29.12.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Kalpa Exports has applied for Terms of Reference for the Proposed Multi Colour Granite quarry lease over an extent of 4.35.0Ha at SF.No. 504, 505/1, 505/2 & 856/2A of Sithampoondi Village, Paramathi Velur Taluk, Namakkal 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. EC obtained from DEIAA vide Lr.No.DEIAA-NMK-TN/F.No.259/Mines/03/Ec.No.01/2018 dated 23.02.2018.
4. The lease period is for 20 years. The mining plan is for the period of five years & the production should not exceed 69,955m³ of ROM [41,973m³ of Recoverable Reserves @60% and 27,982m³ of Granite waste @40%] and 1,652m³ of Weathered rock with an ultimate depth of mining is 33m BGL. The annual peak production is 14,145m³ of ROM [8,493m³ of Recoverable Reserves @60% and 5,662m³ of Granite waste @40%] and 760m³ of Weathered rock.

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

1. The proponent shall submit an Affidavit before the issuance of ToR to SEIAA-TN stating that the mining operations will remain suspended till they obtain the EC granted by the SEIAA after the reappraisal process as per MoEF & CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.
2. The project proponent shall submit a Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai as per the MoEF&CC O.M dated.08.06.2022 for the previous EC and appropriate mitigating measures for the non-compliance items, if any.


MEMBER SECRETARY
SEAC -TN

46

CHAIRMAN
SEAC- TN


3. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which shall stipulate the following information:
- i. Original pit dimension of the existing quarry
 - ii. Quantity achieved Vs EC Approved Quantity
 - iii. Balance Quantity as per Mineable Reserve calculated.
 - iv. Mined out Depth as on date Vs EC Permitted depth
 - v. Details of illegal/illicit mining carried out, if any
 - vi. Non-compliance/Violation in the quarry during the past working.
 - vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
 - viii. Existing condition of Safety zone/benches
 - ix. Details of any penalties levied on the PP for any violation in the quarry operation.
4. The PP shall submit the slope stability action plan by carrying out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall along with a conceptual working plan for maintaining the safety aspects within the lease.
5. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & upto 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
6. The study on impact of the proposed quarrying operations on the surrounding environment which includes water bodies, Odai etc.,
7. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.

Agenda No: 436 - 17

(File No: 10503/2023)



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47

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Proposed Lime kankar quarry lease over an extent of 57.36.0Ha at SF.Nos.204/10 (0.17.5), 204/11 (0.11.5), 204/12 (0.05.5), 204/13 (0.05.5), 204/14 (0.05.5), 204/15 (0.05.0), 204/17 (0.13.5), 204/18 (0.09.0), 204/19 (0.08.0), 204/20 (0.02.5), 204/25 (0.12.5), 204/26 (0.14.0), 204/27 (0.26.5), 204/28 (0.02.5), 204/29 (0.03.0), 204/30 (0.02.5), 204/31 (0.12.5), 204/32 (0.03.0), 204/33 (0.03.0), 205/3A (0.56.5), 205/3B (0.18.0), 205/4 (0.75.0), 205/5A (0.33.0), 205/5B (0.30.0), 205/6 (0.51.5), 205/7 (0.61.0), 206/1A (0.14.5), 206/1B (0.45.0), 206/1C (0.10.0), 206/1D (0.32.5), 206/1E (0.34.0), 206/2 (0.06.5), 206/3 (0.35.0), 206/4A (0.12.5), 206/4B (0.24.0), 206/5A (0.02.0), 206/5B (0.01.5), 206/5C (0.02.0), 206/6 (0.11.5), 206/7A (0.05.5), 206/7B (0.05.0), 206/8 (0.11.0), 206/9A (0.17.5), 206/9B (0.04.0), 206/10 (0.03.5), 206/11 (0.16.5), 206/12 (0.01.5), 206/13 (0.12.0), 206/14 (0.02.0), 206/16B (0.01.5), 206/17A (0.02.0), 206/17B (0.01.5), 206/18 (0.01.0), 206/19 (0.02.0), 207/2 (0.16.0), 207/3 (0.14.0), 207/4 (0.16.0), 207/5 (0.21.0), 207/6 (0.11.5), 207/7 (0.11.0), 207/8 (0.11.0), 207/9 (0.36.5), 207/10 (0.23.0), 207/11A (0.10.0), 207/11B (0.10.0), 207/12 (0.19.5), 207/13A (0.26.0), 207/13B (0.08.0), 207/13C (0.09.5), 207/14 (0.39.5), 207/15 (0.42.0), 208/1 (0.09.0), 208/2 (0.06.5), 208/3 (0.18.0), 208/4 (0.11.5), 208/5A (0.18.0), 208/5B (0.48.0), 208/5C (0.07.0), 208/6B (0.11.0), 208/7 (1.17.0), 208/8 (0.06.5), 208/9 (0.17.0), 208/10 (0.08.0), 208/11 (0.07.5), 208/12 (0.07.5), 208/13 (0.20.5), 208/14 (0.07.5), 208/15 (0.07.5), 208/16 (0.08.5), 208/18 (1.13.0), 208/19 (0.08.5), 209/1 (0.43.5), 209/2 (0.10.5), 209/3 (0.10.5), 209/4A (0.06.0), 209/4B (0.15.0), 209/5A (0.17.5), 209/5B2 (0.14.5), 209/5C (0.14.0), 209/5D (0.04.0), 209/5E (0.10.0), 209/6 (0.16.0), 209/7A (0.06.5), 209/7B (0.08.5), 209/7C (0.32.0), 209/8 (0.12.0), 209/9 (0.23.0), 209/10 (0.23.0), 209/11 (0.15.0), 209/12 (0.15.5), 209/14 (0.15.5), 210/4B (0.06.0), 210/5B (0.07.0), 210/6B (0.06.5), 210/7B (0.11.0), 210/9 (0.35.0), 210/10 (0.27.5), 210/11 (0.29.0), 210/12 (0.28.5), 213/1 (0.41.0), 213/2A (0.37.0), 213/2B (0.39.0), 213/2C (0.74.0), 213/3 (0.36.0), 213/4 (0.39.5), 213/5A (0.13.0), 213/5B (0.13.0), 213/5C (0.11.5), 213/5D (0.12.0), 213/6A (0.25.5), 213/7 (0.59.5), 213/8A (0.16.5), 213/8B (0.18.5), 213/9 (0.20.5), 214/2 (0.20.0), 214/3 (0.22.5), 214/4 (0.11.0), 214/5A (0.18.5), 214/5B (0.13.5), 214/6 (0.38.5), 214/7 (0.21.5), 214/8 (0.20.0), 214/9 (0.20.5), 214/10 (0.19.5), 214/11 (0.31.0), 214/12


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(0.32.5), 215/1A (0.04.5), 215/1B (0.03.0), 215/2A (0.04.0), 215/2B (0.03.5), 215/3A (0.04.0), 215/3B (0.03.5), 215/4 (0.21.0), 215/5A (0.15.0), 215/5B (0.32.0), 215/6A (0.07.0), 215/6B (0.18.5), 215/60 (0.20.0), 215/7 (0.44.0), 215/8A (0.17.5), 215/8B (0.14.0), 215/80 (0.15.0), 215/9 (0.40.5), 215/10A (0.31.5), 215/10B (0.03.5), 215/10C (0.41.0), 215/11 (0.38.0), 216/1A (0.28.0), 216/1B (0.32.5), 216/2 (0.02.5), 216/3 (0.19.0), 216/4 (0.16.5), 216/5A (0.46.5), 216/5B (0.43.0), 216/6 (0.84.0), 216/7 (0.25.0), 216/8 (0.28.0), 216/9A (0.26.0), 216/9B (0.27.5), 216/10 (0.70.5), 217/1 (0.29.5), 217/2 (0.36.0), 217/3 (0.29.5), 217/4 (0.28.5), 217/5 (0.42.0), 217/6 (0.48.0), 217/7A (0.25.5), 217/7B (0.28.5), 217/8A (0.07.5), 217/8B (0.06.0), 217/8C (0.13.0), 217/9 (1.84.0), 217/10A (0.04.0), 217/10B (0.03.0), 217/10C (0.04.5), 218/1A (0.13.0), 218/1C (0.17.5), 218/8 (0.48.5), 218/9A (0.12.5), 218/9B (0.41.0), 218/10 (0.34.5), 218/11 (0.10.0), 218/12 (0.34.0), 218/13 (0.10.5), 218/14 (0.15.5), 219/5 (0.81.5), 220/1A (0.14.0), 220/1B (0.16.0), 220/1C (0.22.0), 220/1D (1.28.0), 220/1E (0.19.0), 220/1F (0.40.0), 220/1G (0.11.0), 220/1H (0.12.0), 220/1I (0.12.0), 220/2 (0.06.0), 220/3 (0.45.0), 220/4A (0.52.5), 220/4B (0.50.0), 221/1 (0.06.0), 221/2 (0.05.5), 221/3 (0.05.5), 221/4 (0.23.5), 221/5 (0.22.0), 221/6A (0.20.0), 221/6B (0.18.0), 221/6C (0.34.0), 221/6D (0.31.0), 221/7A (0.04.5), 221/7B (0.18.0), 221/8 (0.39.0), 221/9 (1.03.5), 221/10 (0.40.5), 222/1 (0.39.5), 222/2 (0.11.0), 222/3 (0.12.5), 222/4 (0.12.0), 222/5 (0.13.5), 222/6 (0.18.0), 222/7 (0.19.0), 223/1A (0.52.0), 226/1 (0.14.0), 226/2 (0.16.0), 226/3 (0.16.5), 226/4 (0.14.0), 226/5 (0.34.5), 226/6 (0.04.0), 226/7 (0.12.5), 226/11 (0.09.5), 226/12 (0.11.5), 226/13 (0.11.5), 226/24 (0.04.0), 226/25 (0.04.5), 226/25 (0.04.5), 226/26 (0.04.0), 226/27 (0.04.0), 226/28 (0.04.0), 227/1 (0.03.0), 227/2 (0.02.5), 227/3 (0.02.5), 227/4 (0.05.5), 227/5A (0.07.0), 227/5B (0.14.5), 227/5C (0.03.0), 227/5D (0.13.5), 227/17 (0.07.5), 227/18A (0.07.0), 227/18B (0.14.0), 227/20 (0.10.5), 227/21 (0.08.0), 227/22 (0.09.5), 227/23 (0.12.0), 227/24 (0.25.0), 227/25 (0.30.0) and 227/26 (0.06.0) of Ottakovil Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu by M/s. The Ramco Cements Limited - For Terms of Reference. (SIA/TN/MIN/450881/2023, Dated:01.11.2023)


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SEAC -TN

49

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The proposal was placed in the 436th SEAC Meeting held on 29.12.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. The Ramco Cements Limited has applied for Terms of Reference for the Proposed Limekankar quarry lease over an extent of 57.36Ha at SF.Nos. 204/10, 204/11, 204/12, etc of Ottakovil Village, Ariyalur Taluk, Ariyalur 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 lease period is for 5 years. The mining plan is for the period of five years & the production should not exceed 12,49,031 Tonnes of Limekankar & 6,66,150m³ of Topsoil with an ultimate depth of mining is 2.75m (1.50m Topsoil + 1.25m Limekankar). The annual peak production is 6,99,891 Tonnes of Limekankar & 3,73,275m³ of Topsoil.

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

1. In case of the existing quarry/operating mines, the PP shall obtain a letter from the concerned AD (Mines) which shall stipulate the following information:
 - i. Original pit dimension of the existing quarry
 - ii. Quantity achieved Vs EC Approved Quantity
 - iii. Balance Quantity as per Mineable Reserve calculated.
 - iv. Mined out Depth as on date Vs EC Permitted depth
 - v. Details of illegal/fillicit mining carried out, if any
 - vi. Non-compliance/Violation in the quarry during the past working.
 - vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
 - viii. Existing condition of Safety zone/benches


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SEAC -TN

50

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SEAC- TN


- ix. Details of any penalties levied on the PP for any violation in the quarry operation
2. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & upto 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
 3. The study on impact of the proposed quarrying operations on the surrounding environment including the aforesaid any structures existing within 500 m radius from the mine lease apart from the water bodies, Odai etc.,
 4. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.
 5. The PP shall furnish the mining methodology so as to control the fugitive dust includes the progressive closure of mining activities in the EIA report.

Agenda No: 436 - 18

(File No: 10524/2023)


Proposed Rough stone & Gravel quarry lease over an extent of 6.60.5Ha at SF.Nos. 414/1, 415A/1A & 415A/2A of Palamadai Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by Thiru.K.Anantha Perumal - For Terms of Reference.

(SIA/TN/MIN/451228/2023, Dated:06.11.2023)

The proposal was placed in the 436th SEAC Meeting held on 29.12.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.K.Anantha Perumal has applied for Terms of Reference for the Proposed Rough stone & Gravel quarry lease over an extent of 6.60.5Ha at SF.Nos. 414/1, 415A/1A & 415A/2A of Palamadai 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.


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SEAC -TN

51

CHAIRMAN
SEAC- TN



3. The lease period is for 10 years. The mining plan is for the period of five years & the production should not exceed 9,26,070m³ of rough stone & 1,03,074m³ of Gravel with an ultimate depth of mining is 27m BGL. The annual peak production is 1,85,660m³ of rough stone & 78,474m³ of Gravel.

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

1. The PP shall leave 100m safety distance for railway line and shall furnish the modified mining plan duly approved by competent authority at the time of EIA presentation.
2. The PP shall prepare and submit a conceptual plan for working of quarry starting from south towards north showing the initial box cut.
3. The PP shall submit a comprehensive study on the behaviour of Gangaikondan spotted deer and the implications of the proposed activity on the eco system of the sanctuary by involving the research institutions such as ICFRE - Indian Council of Forestry Research and Education, Coimbatore (or) The Forest College and Research Institute (FC & RI), Coimbatore.
4. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & upto 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
5. The study on impact of the proposed quarrying operations on the surrounding environment which includes water bodies, Odai etc.,
6. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.

Agenda No: 436 - 19

(File No: 6299/2017)


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52

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Proposed Hotel and Restaurant Building Project located at Survey Nos. 205/1B8, 205/1C2, 205/2B, 205/3A2, & 205/3C of Vandalur (Madhura Otteri) Village, Chengalpattu Taluk, Kancheepuram District, Tamil Nadu by Mr.P.Rajendran - Amendment in Environmental Clearance. (SIA/TN/MIS/304188/2023, Dated.14.09.2023)

The proposal was placed in 419th SEAC Meeting held on 01.11.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Mr. P. Rajendran has applied for Amendment in Environmental Clearance for the Proposed Hotel and Restaurant Building Project located at Survey Nos. 205/1B8, 205/1C2, 205/2B, 205/3A2, & 205/3C of Vandalur (Madhura Otteri) Village, Chengalpattu Taluk, Kancheepuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 8(a) " Building & construction project" of the Schedule to the EIA Notification, 2006.
3. EC issued vide Letter No. SEIAA-TN/F.6299/EC/8(a)/4322/2020 dated:14.08.2020.
4. The PP furnished compliance report from MoEF&CC-IRO, Chennai dated 06.09.2023.

The subject was placed in 673rd authority meeting held on 17.11.2023.

The authority noted that the subject was appraised in 419th SEAC meeting held on 01.11.2023. Based on the presentation, SEAC decided to recommend the amendments to the of Environmental Clearance as requested by the PP, as above, subject to all the other conditions stipulated in EC vide Letter No. SEIAA-TN/F.6299/EC/8(a)/4322/2020 dated:14.08.2020 remains unaltered.

After detailed discussions, the Authority noted that the amendment recommended by SEAC are few items, while the PP has asked for amendment for more than 17 items with sub-divisions which includes seeking changes for about 40 items in EC issued. Therefore, SEAC may examine whether PP shall apply as new file/EC modification application.


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53

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In view of these, the Authority decided to refer back the proposal to SEAC for re-appraisal on the above said points.

Now the proposal was placed in the 436th SEAC Meeting held on 29.12.2023. The SEAC noted that, the proposal earlier was placed in 419th SEAC meeting. The PP made a detailed presentation through detailed PPT, hard copy of which available in file. On examination, it is found that the PP had requested several amendments numbering a total of 17 amendments, but while in the minutes only a few of the amendments sought by the PP were included and the rest of the amendments were not included inadvertently. The following is the list of all the amendments sought by the PP.

Sl. No.	Reference as per EC Dated 14.08.2020	Project Details	EC Obtained	EC Amendment Sought
1.	Subject, Page No.1	Type of the Project	Proposed Hotel and Restaurant Building Project	Construction of Hotel and Convention Centre
Section 2.0 Project Details				
2.	S.No. 2 of Page No.2	Proposed Activity	Construction of Hotel and Restaurant Building Project	Construction of Hotel and Convention Centre
3.	S.No. 4 (iv) of Page No.2	Taluk	Chengalpattu	Vandalur
	S.No. 4 (v) of Page No.2	District	Kancheepuram	Chengalpattu


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54

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SEAC- TN



4.	S.No.6 of Page No.2	Built up area	31,222 Sq.m	30,714 Sq.m
5.	S.No.7 of Page No.2	Brief Description of the project	Construction of 3 Commercial blocks (Block A - G + 3 Floors, Block B - G + 1 to 3 floors + Service floor + 4 to 9 floors + Service floor) with combined triple basement floors and Service Block (B + G + 2 Floors).	Construction of Hotel & Convention Centre comprising of Tower A (G + 9 Floors), Tower B (G + 3 Floors) and Tower C (G + 1 Floor) with Combined Double Basement Floors (for Towers A, B & C)
6.	S.No.8 of Page No.2	Expected number of Occupancy	4,256 Nos.	3,538 Nos.
7.	S.No.10 of Page No.2	Parking Area	2,752 Sq.m	3,408 Sq.m [Parking area (including driveway): 11,088 Sq.m]
8.	S.No.12 of Page No.2	Water Supply		
		Fresh Water Consumption during Operation Phase	210 KLD	132 KLD
	S.No.12 (i) of Page No.3	i. Domestic purpose except	209 KLD	107 KLD


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55

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		for Toilet Flushing		
	S.No.12 (ii) of Page No.3	ii. Swimming Pool Top Up	1 KLD	2 KLD
	-	HVAC use (additional Fresh water)	-	17 KLD
	-	Laundry	-	6 KLD
	S.No.12 (iii) of Page No.3	iii. Toilet Flushing (Recycled Water)	68 KLD	55 KLD
	S.No.12 (iv) of Page No.3	iv. Green Belt development (Recycled Water)	4 KLD	4 KLD
	S.No.12 (v) of Page No.3	v. HVAC Use (Recycled Water)	192 KLD	100 KLD
9.	S.No.13 (i) of Page No.3	i. Sewage Generation	277 KLD	167 KLD
	S.No.13 (ii) of Page No.3	ii. Details of Sewage Treatment Plants (STP)	STP Capacity of 1 no. of 300 KLD	STP Capacity of 1 no. of 175 KLD
	S.No.13 (iii) of Page No.3	iii. Treated Sewage	264 KLD	159 KLD


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SEAC -TN


56


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SEAC- TN

	S.No.13 (iv) (i) of Page No.3	iv. Mode of Reuse,	Toilet Flushing	68 KLD	55 KLD
	S.No.13 (iv) (iv) of Page No.3	Disposal with quantity	HVAC use	192 KLD	100 KLD
10.	-	iv. Effluent Generation		-	6 KLD
11.	-	v. Details of Effluent Treatment Plants (ETP)		-	ETP Capacity of 1 no. of 10 KLD
12.	-	vi. Treated Effluent		-	5 KLD
13.		vii. Mode of Reuse, Disposal with quantity			Sent for Further Treatment to STP - 5 KLD
Solid waste Management					
	S.No.14 (a) of Page No.3	a. Total Municipal Solid Waste generated		1,361 Kg/day	1,158 Kg/day
14.	S.No.14 (i) of Page No.3	i. Biodegradable Waste		800 Kg/day - Converted to compost using Organic Waste Converter - Manure used for gardening/landscaping & Excess sold to Vendors	685 Kg/day - Treated in Organic Waste Converter and used as manure for gardening


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57

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	S.No.14 (ii) of Page No.3	ii. Dried Sludge from STP	28 Kg/day- Treated in OWC along with Biodegradable Waste after dewatering and drying process	17 Kg/day - Dewatered and Processed in OWC and Converted into manure
	S.No.14 (b) of Page No.3	b. Non- Biodegradable & Recyclable Waste	533 Kg/day – Handed over to Authorized Recyclers	456 Kg/day - Handed over to Authorized Recyclers/Vendors
	-	c. E - Waste	-	747 Kg/Annum - Dedicated storage in SWM room & handed over to Recyclers/Vendors
	-	d. ETP Sludge	-	20 Kg/day - Dedicated storage in SWM room & handed over to TSDf
	Power Requirement			
	S.No.15 (a) of Page No.3	a. From Electricity Board	3, 000 kVA	1,600 kVA
15.	S.No.15 (b) (i) of Page No.3 & 4	b. DG sets i. Number of DG Sets	i. 2 Nos. of 500 kVA, ii. 1 No. of 750 kVA iii. 1 Nos. of 1,250 kVA	2 Nos. of 810 kVA


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58

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SEAC- TN


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	S.No.15 (b) (ii) of Page No.4	ii. Height of Stack above the tallest Building	i. 2 Nos. of 500 kVA – 21 m, ii. 1 No. of 750 kVA – 22 m iii. 1 Nos. of 1,250 kVA – 24 m	2 Nos. of 810 kVA – 19 m
16.	S.No.17 of Page No.4	EMP Cost	<u>From Construction Phase</u> Capital Cost – 7.5 Lakhs Operation Cost – 16.5 Lakhs <u>From Operation Phase</u> Capital Cost – 260 Lakhs Operation Cost – 50 Lakhs	<u>From Construction Phase</u> Capital Cost – 7.5 Lakhs Operation Cost – 18 Lakhs <u>From Operation Phase</u> Capital Cost – 250 Lakhs Operation Cost – 50 Lakhs
17.	Point 6 of Page No.5	CER Activity	2.0 % of the Project Cost – Utilized for improvement of infrastructure facilities in the Government High School and improvement of water bodies near the project area through the District administration	1.0 % of the project Cost – Utilized for Infrastructure Development for Government Adidravidar Nala Higher Secondary Schools of Kilambakkam, Vandalur R.F.,


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SEAC -TN

59

CHAIRMAN
SEAC- TN


				Urapakkam & Government High School, New Otteri, Manikka Jalakanda Salai, Vandalur.
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Hence SEAC decided to recommend the above amendments in modification of the earlier recommendations made in its 419th SEAC meeting held on 01.11.2023. All the other conditions stipulated in EC vide Letter No. SEIAA-TN/F.6299/EC/8(a)/4322/2020 dated:14.08.2020 will remain unaltered.

Agenda No. 436 - 20

(File No: 6691/2018)

Proposed Lime stone quarry lease over an extent of 66.11.0 Ha at S.F.Nos. 180, 176, 179/1, 4, 181, 182/18, 185/2 of Ariyalur (Kurumbanchavadi) Village, S.F.Nos. 91, 92/4, 5, 1, 6, 113/3 of Ameenabad Village S.F.Nos. 218/1A, 226/1, 233/2, 236, 238/2, 4, 261, 277/7, 16, 513/1, 2, 4, 514/1, 2, 9, 162/5B, 163/14, 164/1, 6, 165/1B, 166/2B, 167/1, 169/1, 474/1, 2 of Kallankurichi Village S.F.Nos. 28/1, 7, 29/1, 30/1, 13, 15, 31/10, 281/1, 281/3, 282, 291 of Kairulabad Village Ariyalur Taluk, Ariyalur District, Tamil Nadu by M/s. Tamil Nadu Cements Corporation Ltd- For Environmental Clearance under violation category. (SIA/TN/MIN/67645/2018 dated.22.09.2021).

The proposal was placed in 291st SEAC meeting held on 1.7.2022 and 324th SEAC meeting held on 21.10.2022. The details of the minutes are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. Tamil Nadu Cements Corporation Ltd has applied for Environmental Clearance under violation category for the proposed Lime stone quarry lease over an extent of 66.11.0 Ha at S.F.No: 180, 176, 179/1, 4, 181, 182/18, 185/2 of Ariyalur (Kurumbanchavadi) Village, S.F.Nos. 91, 92/4, 5, 1, 6, 113/3 of Ameenabad Village S.F.Nos. 218/1A, 226/1, 233/2, 236, 238/2, 4, 261, 277/7, 16, 513/1, 2, 4, 514/1, 2, 9, 162/5B, 163/14, 164/1, 6, 165/1B.


MEMBER SECRETARY
SEAC -TN

60


CHAIRMAN
SEAC- TN

166/2B, 167/1, 169/1, 474/1, 2 of Kallankurichi Village S.F.Nos. 28/1, 7, 29/1, 30/1, 13, 15, 31/10, 281/1, 281/3, 282, 291 of Kairulabad Village Ariyalur Taluk, Ariyalur 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. ToR issued vide Lr No. SEIAATN/F.No.6691/2019/ToR-610/2019 dated 27.02.2019 under violation category.
4. Public hearing conducted on 11.12.2020.
5. Limestone Production Capacity of 0.1 Million TPA and Topsoil capacity 0.015 Million TPA with total capacity of 0.115 MTPA of GO No.469, Kallankurichi Limestone Mine by M/s Tamil Nadu Cements Corporation Ltd. located at Kurumbanchavadi Village & Kallankurichi Village Ariyalur Taluk, Ariyalur District, Tamil Nadu.

Earlier, the proposal was placed in 569th Authority Meeting held on 10.11.2022 & 11.11.2022. After detailed discussion, the Authority decided to request the Member Secretary, SEIAA to inform the proponent to furnish the following particulars as recommended by SEAC in the Minutes of 324th SEAC Meeting held on 21.10.2022.

1. Accordingly, the amount prescribed for Ecological remediation (Rs. 16,52,750), natural resource augmentation (Rs. 19,83,300) & community resource augmentation (Rs. 26,44,400), totaling Rs. 62,80,450. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 62,80,450 in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
2. The amount committed by the Project proponent for CER (Rs. 16,52,750) shall be remitted in the form of DD to the beneficiary for the activities committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.


MEMBER SECRETARY
SEAC -TN

61

CHAIRMAN
SEAC- TN


3. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent (details of case filed with case number) under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
4. The notice for illegal mining compensation from District Collector, Ariyalur is required to be obtained by M/s. TANCEM and it shall be paid to State Government i.e. Department of Geology & Mining within a period of two weeks and obtain the NOC and submit the same to SEAC before grant of EC.

The PP has submitted reply to SEIAA ADS on 10.10.2023. The reply was placed in 666th Authority meeting held on 30.10.2023. The Authority decided to refer back the proposal to SEAC for re-appraisal/ seeking clarifications mainly on point no.4 on the above said points.

Now the proposal was placed in the 436th SEAC Meeting held on 29.12.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

S.No	ADS Query	Reply
1.	The amount prescribed for Ecological remediation (Rs. 16,52,750) natural resource augmentation (Rs. 19,83,300) & community resource augmentation (Rs. 26,44,400), totaling Rs. 62,80,450. Hence the SEAC decided to direct the project Proponent to remit the amount of Rs. 62,80,450 in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The fund shall be utilized for the remediation plan. Natural resource augmentation plan & Community	Bank Guarantee Valid for Rs. 62,80,450/- submitted to TNPCB on 24.04.2023 and obtained acknowledgement copy from TNPCB on 26.06.2023.


MEMBER SECRETARY
SEAC -TN

62

CHAIRMAN
SEAC- TN


	resource augmentation Plan at indicated in the EIA/EMP report.	
2.	Proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environmental (protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018	TNPCB filed case against Tancem vide C.C.No.81/2021 on 05.08.2021. The case is under trial.
3.	The notice for illegal mining compensation from District Collector, Ariyalur is required to be obtained by M/s. TANCEM and it shall be paid to state Government i.e. Department of Geology & Mining within a period of two weeks and obtain the NOC and submit the same to SEAC before grant of EC.	Directorate of Geology & Mining, Ariyalur issued a letter to Tancem dated 12.02.2022, wherein the Department stated that there is no Penalty levied for Illegal Mining. Hence, they issued NOC to Tancem. The copy of the letter is enclosed.
4.	The amount committed by the Project proponent for CER (Rs. 16,52,750) shall be remitted in the form of DD to the beneficiary for the activities committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA.TN.	Tancem issued Rs.10,00,000/- to Panchayat Union School, Usenabath on 22.02.2023. Tancem issued Rs.6,52,750/- to Panchayat Union School, Srinivasapuram on 21.09.2023.

Based on the above clarification, SEAC decided to reiterate its recommendation already made in its 324th SEAC meeting held on 21.10.2022, subject to all the other conditions stipulated therein.

Agenda No: 436 - 21

(File No: 10545/2023)


MEMBER SECRETARY
SEAC -TN

63

CHAIRMAN
SEAC- TN


Proposed Rough stone & Gravel quarry lease over an extent of 2.82.5Ha at SF.Nos. 153/1, 2, 3, 4, 5, 6, 154/3A2, 162/9, 10 & 11 of Udaiyalipatti Village, Kulathur Taluk, Pudukottai District, Tamil Nadu by Tmt.U.Vijayalakshmi - For Terms of Reference. (SIA/TN/MIN/452543/2023, Dated:17.11.2023)

The proposal was placed in the 436th SEAC Meeting held on 29.12.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Tmt.U.Vijayalakshmi has applied for Terms of Reference for the Proposed Rough stone & Gravel quarry lease over an extent of 2.82.5Ha at SF.Nos. 153/1, 2, 3, 4, 5, 6, 154/3A2, 162/9, 10 & 11 of Udaiyalipatti Village, Kulathur Taluk, Pudukottai 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 lease period is for 5 years. The mining plan is for the period of five years & the production should not exceed 90,700m³ of rough stone & 11,856m³ of Gravel with an ultimate depth of mining is 40m BGL. The annual peak production is 19,131m³ of rough stone & 6,156m³ of Gravel.

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

1. In case of the existing quarry/operating mines, the PP shall obtain a letter from the concerned AD (Mines) which shall stipulate the following information:

- i. Original pit dimension of the existing quarry
- ii. Quantity achieved Vs EC Approved Quantity
- iii. Balance Quantity as per Mineable Reserve calculated.
- iv. Mined out Depth as on date Vs EC Permitted depth
- v. Details of illegal/illicit mining carried out, if any
- vi. Non-compliance/Violation in the quarry during the past working.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

- vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
 - viii. Existing condition of Safety zone/benches
 - ix. Details of any penalties levied on the PP for any violation in the quarry operation
2. Since the existing depth of quarry has reached 28 m, the PP shall submit the stability status of the existing quarry wall and slope stability action plan by carrying out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus.
 3. The PP shall submit a report on free ranging animals straying out and mitigation measures for it.
 4. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & upto 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
 5. The study on impact of the proposed quarrying operations on the surrounding environment which includes water bodies, Odai etc.,
 6. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.


Agenda No: 436-22

(File No: 10497/2023)

Proposed Rough Stone and Gravel quarry over an extent of 0.99.50 Ha at S.F.Nos. 205/1 and 207/1 of Duraiswamipuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by Thiru. V. Rajendran – For Terms of Reference.


MEMBER SECRETARY
SEAC -TN

65

CHAIRMAN
SEAC- TN


(SIA/TN/MIN/447529/2023, Dated: 16.10.2023)

The proposal was placed for appraisal in this 436th meeting of SEAC held on 29.12.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. V. Rajendran has applied seeking Terms of Reference for the proposed Rough Stone and Gravel quarry over an extent of 0.99.50 Ha at S.F.Nos. 205/1 and 207/1 of Duraiswamipuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.

The Project Proponent vide letter dated 28.12.2023 has requested the Committee to defer their proposal for later meeting, since, the proponent was not able to attend the meeting due to health issue. Hence, the Committee decided to defer the proposal.

Agenda No: 436-23

(File No: 10553/2023)

Proposed Rough Stone and Gravel quarry over an extent of 4.09.0 Ha at S.F.Nos. 405/2, 406/1A, 406/1B1A, 406/1B1B, 406/1C1 & 406/2A of Panapatti Village, Kinathukkadavu Taluk, Coimbatore District, Tamil Nadu by Thiru. M. Rajesh - For Terms of Reference. (SIA/TN/MIN/447079/2023, Dated: 05.10.2023)

The proposal was placed for appraisal in this 436th meeting of SEAC held on 29.12.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. M. Rajesh has applied seeking Terms of Reference for the proposed Rough Stone and Gravel quarry over an extent of 4.09.0 Ha at S.F.Nos. 405/2, 406/1A, 406/1B1A, 406/1B1B, 406/1C1 & 406/2A of Panapatti Village, Kinathukkadavu Taluk, Coimbatore District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.


MEMBER SECRETARY
SEAC -TN

66

CHAIRMAN
SEAC- TN


3. The precise area communication was issued for the period of 5 Years. The mining plan is for 5 Years. The annual peak production shall not exceed 79694 m³ of Rough Stone for the ultimate depth of 45m below ground level.
4. Earlier, EC was accorded to the ex-proponent Thiru. H. Karthik vide Lr. No. SEIAA-TN/F.No.3268/EC/1(a)/2515/2015 dated: 01.12.2015 for the Proposed Rough Stone and Gravel quarry lease over an extent of 3.14.0 Ha at S.F.Nos. 406/1A, 406/1B1A, 406/1B1B, 406/1C1 & 406/2A of Panapatti Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu, for the quantity of 115198 cu.m of Rough Stone & 11775 cu.m of Gravel upto a depth of 29m Rough Stone & 5m Gravel.
5. The ex-proponent Thiru. H. Karthik obtained consent from Tmt. Velathal on 08.03.2021 and the deed cancelled on 9th June 2022. Tmt. Velathal sold the land to Thiru. Rameshkumar and Thiru. Rameshkumar sold the land to Sankar Anand Infra and last the land purchased by the proponent Thiru. M. Rajesh on 28th January 2023.
6. The ex-proponent Thiru. H. Karthik earlier applied seeking Environment Clearance (File No. 8458 and Online Proposal No. SIA/TN/MIN/203361/2021 dated: 13.03.2021) for the Proposed Rough Stone and Gravel quarry lease over an extent of 3.14.0 Ha at S.F.Nos. 406/1A, 406/1B1A, 406/1B1B, 406/1C1 & 406/2A of Panapatti Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu. The proposal was placed for appraisal in the 229th meeting of SEAC held on 27.08.2021. Based on the presentation and documents furnished by the project proponent, SEAC noted that there are no benches, no green belt development in already mined out area and also there are 2 odai nearby. Hence the SEAC decided that MS, SEIAA shall write a letter to AD mines to check whether mining plan is followed during mining when the project proponent comes for second mining activity and also recommended that AD mines may visit the site and then shall approve the mining plan. The visit proceedings by the AD (mines) may also be submitted.

On receipt of the above AD mines letter, the committee would further deliberate


MEMBER SECRETARY
SEAC -TN

67

CHAIRMAN
SEAC- TN


on this project and decide the further course of action.

Subsequently, the subject was placed in the 468th Authority meeting held on 11.10.2021 & 12.10.2021. After detailed discussions, the Authority decided to request the MS-SEIAA to write a letter to AD/Mines, Coimbatore with a copy to Director of Mines requesting to furnish clarifications as requested by SEAC as per the decision taken in 229th SEAC meeting. On receipt of details, it may be sent to SEAC. Also, the minutes of SEAC shall be communicated to the Project Proponent.

Now, the Proponent had submitted a request vide letter dated: 18.10.2023 to withdraw the online proposal No. SIA/TN/MIN/203361/2021 dated: 13.03.2021. Hence, the proposal was placed in the 674th Authority meeting held on 20.11.2023.

In view of the above, the Authority after detailed discussions, decided to request the MS-SEIAA to write a reminder letter to AD/Mines, Coimbatore with a copy to Director of Mines requesting to furnish clarifications as requested by SEAC as per the decision taken in 229th SEAC meeting. On receipt of details, it may be sent to SEAC.

7. In 674th SEIAA minutes mentioned that the ex-proponent Thiru. H. Karthik would submit the letter obtained from AD Mines but the land ownership subsequently changed to the proponent Thiru. M. Rajesh.

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

1. In case of the existing quarry/operating mines, the PP shall obtain a letter from the concerned AD (Mines) which shall stipulate the following information:
 - i. Original pit dimension of the existing quarry
 - ii. Quantity achieved Vs EC Approved Quantity
 - iii. Balance Quantity as per Mineable Reserve calculated.


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


- iv. Mined out Depth as on date Vs EC Permitted depth
 - v. Details of illegal/illicit mining carried out, if any
 - vi. Non-compliance/Violation in the quarry during the past working.
 - vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
 - viii. Existing condition of Safety zone/benches
 - ix. Details of any penalties levied on the PP for any violation in the quarry operation
- 2 Since the existing depth of quarry has reached 30 m, the PP shall submit the stability status of the existing quarry wall and slope stability action plan by carrying out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus.
 - 3 The PP shall submit the copy of the official documents (such as permits) showing the quantity of gravel & rough stone quarried during the previous spells.
 - 4 The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & upto 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
 - 5 The study on impact of the proposed quarrying operations on the surrounding environment which includes Canal, Vaikkal, water bodies, Odai etc.
 - 6 The PP shall carry out the blast-induced ground & air-vibrations caused during the quarrying operation in any of the quarry situated in the cluster for designing the safe maximum charge per round (kg) and maximum number of holes to be blasted / round in a day keeping the surrounding sensitive structures in mind.
 - 7 The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the


MEMBER SECRETARY
SEAC -TN

69

CHAIRMAN
SEAC- TN


format prescribed by the SEAC considering the cluster situation.

Agenda No: 436-24

(File No: 8022/2020)

Proposed Black Granite quarry lease over an extent of 1.68.5 Ha at S.F.Nos. 408/2B, 410/1A, 420/1A, 420/1B1 & 421/2B of Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Tmt. Mohana Gopinath (Legal Heir), W/o. Late. A. Gopinath (applicant) – For Environmental Clearance.

(SIA/TN/MIN/180892/2020, Dated: 28.10.2020)

The proposal was placed for appraisal in this 436th meeting of SEAC held on 29.12.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Tmt. Mohana Gopinath (Legal Heir), W/o. Late. A. Gopinath (applicant) has applied seeking Environmental Clearance for the proposed Black Granite quarry lease over an extent of 1.68.5 Ha at S.F.Nos. 408/2B, 410/1A, 420/1A, 420/1B1 & 421/2B of Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under category “B2” of Item 1(a) “Mining of Minerals Projects” of the schedule to the EIA Notification, 2006, as amended.
3. Earlier, EC was accorded to the proponent Late. A. Gopinath vide Lr. No. SEIAA-TN/F.No.4595/EC/1(a)/3059/2015 dated: 02.03.2016 for the Proposed Black Granite quarry lease over an extent of 1.68.5 Ha at S.F.Nos. 408/2B, 410/1A, 420/1A, 420/1B1 & 421/2B of Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu, for the quantity of 2417 cu.m of Black Granite upto a depth of 16m.
4. The PP has submitted death certificate of applicant and legal heir certificate.
5. The legal heir has furnished the supplementary lease deed executed from the competent authority.
6. Certified Compliance Report (CCR) obtained from Integrated Regional Office (South Eastern Zone), MoEF&CC vide E.P./12.1/2022-23/ SEIAA/207/TN/1356 Dated: 15.12.2022


MEMBER SECRETARY
SEAC -TN

70

CHAIRMAN
SEAC- TN




7. Earlier, this proposal was placed in the 337th meeting of SEAC held on 13.12.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total production quantity ROM-24668 m³ with not exceeding the annual peak production capacity of ROM-5300 m³ by maintaining the ultimate depth of mining to 31m BGL subject to the standard conditions as per the Annexure-1 of this minutes & normal conditions stipulated by MOEF&CC, in addition to the specific conditions stated therein.
8. Subsequently, the proposal was placed in the 582nd Authority meeting held on 09.01.2023. The Authority noted that this proposal was placed for appraisal in this 337th meeting of SEAC held on 13.12.2022. The SEAC decided to recommend the proposal for the grant of Environmental Clearance for total production quantity ROM-24668 m³ with not exceeding the annual peak production capacity of ROM- 5300m³ by maintaining the ultimate depth of mining to 31m BGL subject to the standard conditions.

In view of the above, the Authority after detailed discussion decided to call for the following additional particulars from the project proponent for further processing the proposal.


- i) The project proponent shall submit the Mining Plan/scheme of mining plan approved by the Competent authority/Directorate of Geology and Mining.
- ii) Details of mining plan submitted to AD mines & Geology.
- iii) Details of remainder sent to AD mines & Geology.

On the receipt of above said details, the authority decided to further course of action.

9. Based on the proponent's reply furnished by the PP on 09.02.2023, this subject was again placed in the 595th Authority meeting held on 20.02.2023 & 21.02.2023. After detailed discussion, the Authority decided to request the Member Secretary SEIAA-TN to obtain following details and place before the Authority for the further course of action.



MEMBER SECRETARY
SEAC -TN

71

CHAIRMAN
SEAC- TN


SEIAA query	PP reply
<p>The PP shall Furnish the Approved/valid Mining plan from Competent Authority.</p>	<p>1.The previous mining scheme between 2014-2019 was valid for five years, during this period we extracted overburden/wastages and recovery percentage is about 20% was proposed.</p> <p>2. During proposed mining Scheme between 2019- 2024, we have proposed 30% recovery as we have gone depth. In normal course of mining recovery % is more as we go deeper and deeper, therefore we have proposed recovery percentage @ 30%, keeping ROM Quantity is same.</p> <p>3.We would like clarify that since ROM quantity this proposed mining scheme is same as of previous mining scheme there will be no adverse impact on environment.</p> <p>Since we have clarified the reason for increased recovery percentage from 20% to 30% and ROM being same, we earnestly request you to kindly grant us Environmental Clearance at the earliest, Since we have left with only about 10 months before the expiry of our mining lease period.</p>

10. Based on the proponent's reply furnished by the PP on 20.03.2023, this subject has again been placed in the 610th Authority meeting held on 11.04.2023. After detailed discussion, the Authority noted that the ROM of this scheme of mining


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


is same as earlier scheme of mining. The recovery percentage is increased from 20% to 30%. Hence, the Authority decided to refer back to SEAC for getting specific remarks and recommendation.

11. This proposal was taken up in this 383rd SEAC meeting held on 15.6.2023 and the PP has made the detailed presentation along with approved mining plan for the period of 2019-20 to 2023-24. Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC and the replies given by the PP and decided as follows.

i) SEIAA may obtain clarification from the Director, Department of Mines & Geology, as to how the mine was allowed to operate without NBWL clearance & without CTO from TNPCB.

12. Subsequently, the subject was placed in 633rd Authority meeting held on 26.06.2023 & 27.06.2023. The Authority noted that the subject was appraised in 383rd SEAC meeting held on 15.06.2023 and SEAC has furnished its recommendations to SEIAA. After detailed discussion, SEIAA decided to obtain the following additional details.

(i) SEIAA may obtain clarification from the Director, Department of Mines & Geology, as to how the mine was allowed to operate without NBWL clearance & without CTO from TNPCB.

(ii) The PP shall furnish the clarification from Chief Wildlife Warden regarding a separate Eco Sensitive Zone is required for Cauvery South Wildlife Sanctuary.

13. The proponent vide letters dated 25.07.2023 & 04.09.2023 has submitted reply to the details sought by SEIAA.

14. The subject was again placed in the 668th Authority meeting held on 01.11.2023. After detailed discussions, the Authority noted that earlier a letter was addressed to the Director, Department of Mines & Geology vide letter dated 14.08.2023. So far no reply has been received.

Hence the Member Secretary, SEIAA was requested to send a remainder letter to the Director, Department of Mines & Geology, requesting him to clarify as to how the


MEMBER SECRETARY
SEAC -TN

73

CHAIRMAN
SEAC- TN



mine was allowed to operate without NBWL clearance & without obtaining CTO from TNPCB.

15. A reminder letter was addressed to the Director, Department of Mines & Geology vide letter dated 14.11.2023. So far no reply has been received.

16. Now, the proponent has submitted a request letter dated 16.11.2023 stating as follows:

"...We submit that we met Commissioner Mines and Geology and Deputy Director Geology and Mines with minutes of the meeting NO 383 dated 15.06.2023, File no 8022. And requested them to give clarification to SEAC as to how mining operations was allowed for a period of 630 days without NBWL clearance and without CTO from TNPCB.

After going through the observation of the authority during the meeting, no 383, SL. NO 20. File no 8022, they said these are very sensitive issues and expressed their inability to give anything in writing in this regard, they further said that they have acted as per the directions of the government of the day and well within the law, and directed us to re-apprise your good office once again and sort out the issue..."

17. The subject was placed in the 675th Authority meeting held on 22.11.2023. In view of the above, the Authority decided to refer back the proposal to SEAC for remarks / recommendations on the above-mentioned points.

Hence, this proposal was again placed in this 436th meeting of SEAC held on 29.12.2023. The PP furnished the following reply:

SEIAA Query	PP's Reply
SEIAA may obtain clarification from the Director, Department of Mines & Geology, as to how the mine was allowed to operate without NBWL clearance & without CTO from TNPCB.	The Department of Geology and Mining allowed mining limit up to 630 days by applying section 41&42 of the Tamil Nadu mineral Concession Rules 1959. We approach Department of Geology and Mining for the Clarification regarding "the mine was allowed to operate without

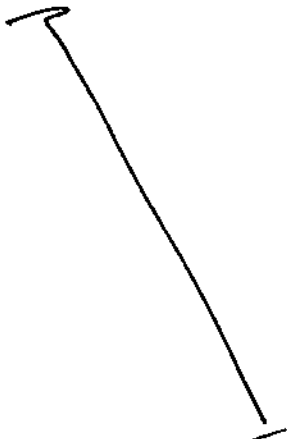

MEMBER SECRETARY
SEAC -TN

74

CHAIRMAN
SEAC- TN


	<p>NBWL clearance & without CTO from TNPCB" in 383rd SEAC Minutes of Meeting. In this regard they said that these are very sensitive issues and expressed their inability to give anything in writing and further they said that they have acted as per the directions of the Government of the day and well within the law.</p>
<p>The PP shall furnish the clarification from Chief Wildlife Warden regarding a separate Eco Sensitive Zone is required for Cauvery South Wildlife Sanctuary.</p>	<p>We are herewith enclosing NBWL Clearance issued by Wildlife Warden, Hosur, dated. 04.10.2019.</p> <p>Clarification from Wildlife Warden, Hosur, dated. 02.09.2023 regarding separate Eco Sensitive Zone of Cauvery South Wildlife Sanctuary is enclosed.</p>

SEAC further noted that the Cauvery North Wildlife Sanctuary is situated in between the Cauvery South Wildlife Sanctuary and the proposed site. Further, the Cauvery North Wildlife Sanctuary has been notified and the proposed mine site is out of the Eco Sensitive Zone of the Cauvery North Wildlife Sanctuary. Hence, SEAC decided that the proposal doesn't require prior clearance from National Board for Wildlife (NBWL).

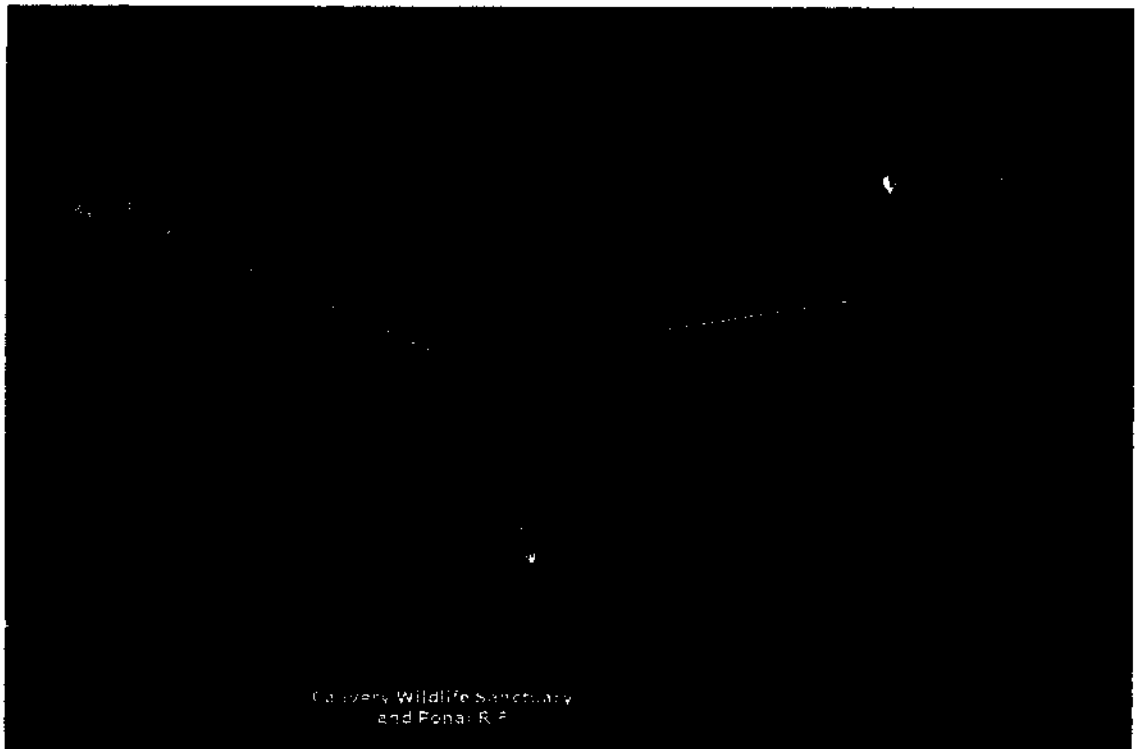



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SEAC- TN 



Cauvery North Wildlife Sanctuary – 2.82 Km – South East
Cauvery South Wildlife Sanctuary – 7.76 Km – South West




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SEAC -TN

CHAIRMAN
SEAC- TN


Jowlagiri Reserve Forest – 4.0 Km – North West

Noganoor Reserve Forest – 4.8 Km – North East

Cauvery Wildlife Sanctuary and Ponai Reserve Forest – 2.7 km – South

The SEAC carefully reviewed the reply furnished by the proponent and after detailed deliberations, decided to reiterate its recommendations already made in the 337th SEAC meeting held on 13.12.2022. All other conditions mentioned in the minutes will remain unchanged and unaltered.

Agenda No: 436-25

File No: 10491/2023

Proposed Rough Stone and Gravel Quarry Extent: 1.60.0ha S.F.Nos.162 & 163/2 (P) of Pachapalayam Village, Sulur Taluk, Coimbatore District by Thiru. R. Durairaj - For Terms of Reference. (SIA/TN/MIN/450067/2023, dt: 25/10/2023)

The proposal was placed in the 436th SEAC Meeting held on 29.12.2023. The details of the minutes are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.R.Durairaj has applied for Terms of Reference for the Proposed Rough Stone and Gravel Quarry Extent: 1.60.0ha S.F.Nos.162 & 163/2 (P) of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per the precise area communication the lease period of 5 Years. The mining plan is for 5 Years. The Mineable reserve /production for 5 Years shall not to exceed 117125m³ of Rough stone & 25722m³ of Weathered rock & 19500m³ of Gravel and the ultimate depth upto 35m BGL (2m Gravel + 3m Weathered rock + 30m Rough stone)

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


MEMBER SECRETARY
SEAC -TN

77

CHAIRMAN
SEAC- TN


1. The Project Proponent shall furnish the revised EMP by carrying out study on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby habitations, agricultural lands/coconut farms for the life of the mine considering the cluster situation.
2. Since many operating quarries are situated within a radial distance of 500 m, the PP shall carry out a comprehensive study on assessing the environmental impacts caused due to the existing and proposed quarries followed by the suitable mitigation measures by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus including the design of the controlled blast parameters and safe blasting practices in the cluster of mines for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations, through conducting the trial blasts in the adjacent operating quarry located in the same cluster to monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' near the all the structures (houses/temples/public roads) located within 500 m radial distance from the mine leases of the cluster and also at the distances of 750 m & 1000 m. Apart from the above, the PP shall capture the level & direction fly rock produced through slow-motion video. The PP shall submit a copy of the aforesaid report to the SEIAA during the time of appraisal for obtaining the EC after incorporating the same in the revised EIA being submitted at the Public Hearing.
3. The PP shall undertake Hydrogeology study considering nearby existing wells, Aquifers, Ground water & surface water levels etc within the radius of 1km.
4. The PP shall furnish the genuine report on implications of urbanization on the quarrying operations by involving a reputed research institution.
5. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of


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SEAC -TN

CHAIRMAN
SEAC- TN


occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.

Agenda No: 436 - 26

(File No: 10198/2023)

Proposed Expansion in Existing Warehouse storage & R & D building at S. No. 175 (part) of Ernavoor Village, S. No. 6/1A1 of Tiruvottiyur Village in T.S. No. 3, 5/1A, 5/2A Block No. 1, Ward No. 1 of Tiruvottiyur, Wimco Nagar, Ennore Express Road, Chennai - 600019, Thiruvallur District, Tamil Nadu by M/s. MRF Limited– For Clearance under CRZ Notification 2011. (SIA/TN/INFRA2/433358/2023, Dated: 15.06.2023)

The proposal was earlier placed in the 398th meeting of SEAC held on 04.08.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. MRF Limited has now applied for obtaining CRZ Clearance under CRZ Notification 2011 for the Proposed Expansion in Existing Warehouse storage & R & D building at S. No. 175 (part) of Ernavoor Village, S. No. 6/1A1 of Tiruvottiyur Village in T.S. No. 3, 5/1A, 5/2A Block No. 1, Ward No. 1 of Tiruvottiyur, Wimco Nagar, Ennore Express Road, Chennai - 600019, Thiruvallur District, Tamil Nadu.
2. The project area is falling on the landward side of the existing road at Tiruvottiyur and the project site is falling in CRZ-II.
3. Earlier the proponent had submitted application on 30.01.2017 to SEIAA for the proposed construction of warehouse in the same site for grant of Environmental Clearance and the proposal was placed in 92nd SEAC meeting and additional details were called for stated therein and the same was communicated to the proponent vide Lr. No. SEIAA-TN/F.-6227/2017 Dt: 13.07.2017. Subsequently, the project proponent in his letter dated: 07.08.2017 informed that since the project is an industrial shed which involves housing of raw materials and finished products, the proposed project is exempted from obtaining prior Environmental Clearance and hence he is withdrawing his application for EC. The proposal of


MEMBER SECRETARY
SEAC -TN

79

CHAIRMAN
SEAC- TN


the proponent was placed in 234th SEIAA meeting held on 21.08.2017 and the Authority directed the proponent to submit the application for seeking CRZ Clearance and only on receipt of the recommendation from Tamil Nadu Coastal Zone Management Authority for the issue of CRZ Clearance, the withdrawal of the EC application will be considered. There is, however, no record in SEIAA to show that the proponent had applied for CRZ clearance with the recommendation of TNCZMA, but in due course SEIAA had closed the file as withdrawn.

4. COMPARISON STATEMENT

S. No.	Description	Existing	Expansion proposal	Incremental load
1	Land Area (Sqm)	48206.59 Sqm	50224.50 Sqm	2017.91
2	FSI Area (Sqm)	29542.16 Sqm	33892.83 Sqm	4350.67
3	No. of Blocks	1 Block of G.F + F.F warehouse building, 1 Block of G.F (Tyre testing activity) + F.F office building and 9 blocks of G.F Amenity building blocks totally 12 blocks	1 Block of G.F + F.F warehouse building, 1 Block of G.F (Tyre testing activity) + F.F office building and 9 blocks of G.F Amenity building blocks totally 12 blocks & Proposed Block - Ground Floor (Anechoic Chamber), Mezzanine Floor (Air Plenum), 1st	Proposed additional Block of Ground floor (Anechoic Chamber) Mezzanine floor (Air Plenum), 1 st floor and 2 nd floor (Office) and proposed


MEMBER SECRETARY
SEAC -TN

80

CHAIRMAN
SEAC- TN


			floor and 2nd floor (Office) and Proposed 2nd floor over the Existing R&D building.	2 nd floor over the existing R&D building.
4	No. of Occupants	157 Nos	220 Nos	63 Nos
5	Fresh Water Requirement	6 KLD	8 KLD	2 KLD
6	Recycled water requirement	26 KLD	26 KLD	No increase
7	Total Solid waste generated (kg/day)	27.7 kg/day	39/day	11.3 kg/day
8	Power requirement and DG sets	3910 Hp and DG 1250 KVA	7000 Hp and DG 1250 KVA	3090 Hp
9	STP capacity	12 KLD	12 KLD	--


5. Earlier the proposal was placed in 398th SEAC meeting held on 04.08.2023.

Based on the documents furnished and the presentation made by the proponent, the SEAC, after detailed deliberations, decided to obtain the following details.

1. The PP shall furnish certified compliance report obtained from the TNPCB for the earlier CTE and CTO issued.
2. The PP shall explain the details of The Application No.224 of 2021 filed by Thiru MR. Thiyagarajan against M/s. MRF Limited on the existing clearance issued by TNSCZMA on the Tyre testing facility and warehouse in the same warehouse and it is pending with the Hon'ble NGT (SZ).


MEMBER SECRETARY
SEAC -TN

81

CHAIRMAN
SEAC- TN


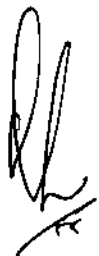
3. The PP shall furnish the details of Achievements, New technology adopted & design parameters so far made in the existing R&D facility.
 4. The PP shall furnish the details of existing warehouse viz builtup area, type of activities carrying out and shall submit the videographic proof of the same.
6. Subsequently, based on the Proponent's reply, the proposal was again placed in the 412th meeting of SEAC held on 04.10.2023. Based on the documents furnished and the presentation made by the proponent, the SEAC, after detailed deliberations, decided to obtain the following details.
1. The industrial shed is located abutting MRF Tyre Industry. According to the PP, the shed is used for storing raw materials meant for the use of not Tiruvottiyur MRF factory but also for other factories of the Company located elsewhere. Hence, the PP is requested to clarify why the industrial shed which serves as storage for MRF factory/factories should not be considered as expansion of existing industry.
 2. The PP stated that construction of building within CRZ is a permitted activity. Hence, the PP is requested to furnish information whether the term "Building" will cover industrial sheds and buildings used by an industry for R&D purposes.
 3. The PP is requested to give details regarding any Hazardous chemical storage & log book extract.
 4. The PP shall submit the details of Solid waste generated, discarded & disposed.
 5. The PP shall submit the details of number of persons working in the existing facility & the proposed increase in workforce due to the proposed expansion of existing facility.

Now, based on the reply furnished by the proponent for the queries raised in 412th SEAC meeting, the proposal was again placed in the 436th SEAC meeting held on 29.12.2023. Based on the documents furnished by the proponent in the Parivesh Portal, Committee noted the following:


MEMBER SECRETARY
SEAC -TN


82

CHAIRMAN
SEAC- TN



I. CHRONOLOGY OF EVENTS – Based on TNCZMA 120th Minutes of Meeting held on 05.04.2023:

- (i) The Project Proponent has obtained CRZ Clearance from TNCZMA vide the office Proc. No. P1/2327/2017, dated 12.02.2018 under the CRZ Notification, 2011 for the "Construction of industrial shed, for raw material and finished products with allied facilities, which consisting of one Block of Ground Floor plus First Floor warehouse, one block of Ground Floor plus First Floor office and 9 blocks of Ground Floor Amenity buildings at S.No.175 (part) of Ernavoor Village, S.No.6/1A1 of Thiruvottiyur Village in T.S.No 3, 5/1A, 5/2A Block No.1, Ward No.1 of Thiruvottiyur Village, Ambattur Taluk, Tiruvallur district, with the Total Plot Area is 48,206.59 Sqm and the Total Built up area is 29515.80 Sqm.
- (ii) The project area has been changed as "Special and Hazardous Industrial Use Zone" to facilitate the setting up of "Tyre Testing Unit". The CMDA has informed that the reclassification is allowed only for setting up of a Tyre Testing Unit.
- (iii) Further, the Project Proponent has obtained amendment for the above Recommendation to erect "Tyre Testing Unit" in the warehouse, in the area of 1717.07 sq. m at Ground Floor and 1419.91 sq. m at First Floor for Research and Development activity vide the office Proc. No. P1/1721/2019, dated 31.07.2019.
- (iv) Again, the PP has obtained amendment for the Built-up area of the project, as 29,542.16 Sq.m instead of 29,515.80 Sq.m subject to the existing specific conditions issued in the Clearance vide the office Proc. No. P1/2327/2017, dated 12.02.2018 and vide the office Proc. No. P1/1721/2019, dated 31.07.2019.
- (v) The PP had obtained Consent to Operate from the Tamil Nadu Pollution Control Board vide Proceedings No. F.1849AMB/OL/DEE/TNPCB/AMB/A/2022 dated:03.09.2022 for operating the facility for the manufacture of Tyres for testing in tyre testing unit for


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SEAC -TN

CHAIRMAN
SEAC- TN


Research and Development activity and warehouse for storage of Raw materials, finished products with allied facilities in a built-up area of 29542.16 Sq.m.

(vi) Now, the Proponent has Proposed for additional construction of Block of Ground floor (Anechoic Chamber) Mezzanine floor (Air Plenum), 1st floor and 2nd floor (Office) and proposed 2nd floor over the existing R&D building. The existing FSI area for the project is 29542.16sqm and proposed FSI area is 4065.73 sqm.

(vii) The above proposal was placed in DCZMA meeting held on 14.06.2022 and the DCZMA has resolved to recommend the above project to the Tamil Nadu State Coastal Zone Management Authority subject to the conditions stated therein.

(viii) Subsequently, the proposal was examined by TNCZMA in the 118th meeting held on 14.10.2022 regarding the recommendation of DCZMA and the replies furnished submitted by the PP and decided to resubmit the proposal after receiving the legal opinion from the standing counsel.

(ix) Subsequently, the subject was again placed before the 120th meeting of the Tamil Nadu State Coastal Zone Management Authority (TNSCZMA) held on 05.04.2023 and the SCZMA examined the recommendation of the DCZMA of Chennai district and also the legal opinion on the Original Application No. 224 of 2021 offered by Dr. D Shanmuganathan, Standing Counsel, NGT (Southern Zone) in the 120th meeting of TNSCZMA held on 05.04.2023 and decided to recommend the project to SEIAA for issuing CRZ Clearance, with the conditions stated therein.

II. Provisions in the CRZ Notification, 2011 & EIA Notification, 2006

I. CRZ Notification, 2011

(i) S. O. 19(E) dated 06.01.2011 which inter-alia states as below

- As per the CRZ Notification, 2011 vide Para 1, the restrictions apply on the setting up and expansion of industries, operations or process and the like in the CRZ. Further, vide Para 3(1), setting up of new


MEMBER SECRETARY
SEAC -TN

84

CHAIRMAN
SEAC- TN


industries and expansion of existing industries are prohibited activities.

- As per Para 8 (1) II CRZ II (ii) of CRZ Notification 2011, buildings shall be permitted on the landward side of the existing and proposed roads or existing authorized structures subject to the existing Local Town and Country Planning regulations as modified from time to time, except the Floor Space Index or Floor Area Ratio, which shall be as per 1991 level.
- As per para 4 (i) (d) Construction involving more than 20,000sq mts built-up area in CRZ-II shall be considered in accordance with EIA notification, 2006 and in case of projects less than 20,000sq mts built-up area shall be approved by the concerned State or Union territory Planning authorities in accordance with this notification after obtaining recommendations from the concerned CZMA and prior recommendations of the concern CZMA shall be essential for considering the grant of environmental clearance under EIA notification, 2006 or grant of approval by the relevant planning authority.
- As per para 4.2
 - in sub-para (ii)


The concerned CZMA shall examine the above documents in accordance with the approved CZMP and in compliance with CRZ notification and make recommendations within a period of sixty days from the date of receipt of complete application

(a) MoEF or State Environmental Impact Assessment Authority (hereinafter referred to as the SEIAA) as the case may be for the project attracting EIA Notification, 2006;

(b) MoEF for the projects not covered in the EIA notification, 2006 but attracting para 4(ii) of the CRZ notification;
 - in sub-para (iii)


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SEAC -TN

85

CHAIRMAN
SEAC- TN


MoEF or SEIAA shall consider such projects for clearance based on the recommendation of concerned CZMA within a period of sixty days.

(ii) S. O. No. 3085(E) dated 28.11.2014 which inter-alia states as below

- Under Para (3) of the above said Notification, following amendment has been made

In paragraph 4.2 in sub-paragraph (ii), after clause (b), the following clause shall be inserted, namely: -

“(c) SEIAA, for the projects specified under paragraph 4(i) (except with respect to item (d) thereof relating to building projects with less than 20,000 sq. mts of built-up area) and for the projects not attracting EIA Notification, 2006”

II. EIA Notification, 2006

(i) As per MoEF & CC O.M dated 4th October, 2022:

“...the Ministry deems it necessary to clarify that, the word Industrial Shed mentioned in the Notification S.O. 3252 (E) dated 22/12/2014 implies buildings/ warehouses/ sheds (whether RCC or otherwise) which are used for housing machinery of industrial units and/or storage of raw materials and finished goods and industrial products including but not limited to industrial and factory-made products, irrespective of the location and proximity of the Industrial Shed -- any Industry. These Industrial Sheds shall strictly implement the guidelines issued vide OM dated 9/06/2015 to ensure sustainable environmental management. However, if any of the activities/processes covered in the schedule to the EIA Notification 2006 are housed in the said Industrial Shed, then the state shall be required to obtain prior EC under the provisions of EIA Notification, 2006”.

(ii) As per MoEF & CC O.M dated 1st September, 2022:

“...R&D activities on laboratory scale/pilot scale carried out for the projects or activities which are listed in the schedule to the EIA


MEMBER SECRETARY
SEAC -TN

86

CHAIRMAN
SEAC- TN


Notification 2006, as amended and where no commercial production is involved, are exempted from the requirements of prior EC, provided such activities are clearly mentioned as R&D activities in the consents obtained from the respective State Pollution Control Board”.

III. Litigation pending before the Hon'ble NGT (SZ):

There is a case pending before Hon'ble NGT (SZ) in the matter of OA No.224 of 2021 filed by Thiru. Thiyagarajan against M/s. MRF Limited on the existing CRZ clearance issued by TNSCZMA for the Tyre testing facility and warehouse, wherein the following order has been uploaded on 28.12.2023 as follows

“... ”


1. *This is an Interlocutory Application [I.A. No. 127 of 2023(SZ)] filed by the applicant for reopening the matter which was reserved for judgment on 12.07.2023. There is yet another Interlocutory Application [I.A. No. 113 of 2023(SZ)] filed for receiving the additional documents.*
2. *So, both the interlocutory applications [I.A. No. 113 of 2023(SZ) and I.A. No. 127 of 2023(SZ)] are allowed.*
3. *Heard the learned counsels. Judgment Reserved.”*

IV. Reply submitted by the proponent for the query raised by the Committee in its earlier 412th SEAC meeting held on 04.10.2023.

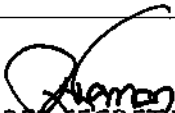
S. No.	Query	Reply
1.	The industrial shed is located abutting MRF Tyre Industry. According to the PP, the shed issued for storing raw materials meant for the use of not Tiruvottiyur MRF factory but also for other factories of the Company located elsewhere. Hence, the PP is requested to	<p>➤ We would like to humbly submit that MRF Tiruvottiyur Factory has been in existence since 1962 and has been producing Bias Tyres and allied products from the said factory for use in heavy vehicles, tractor, truck etc.</p> <p>➤ The factory has been</p>


MEMBER SECRETARY
SEAC -TN

87

CHAIRMAN
SEAC- TN


<p>clarify why the industrial shed, which serves as Storage for MRF factory/factories, should not be considered as expansion of existing industry.</p>	<p>independently functioning with all the requisite statutory approvals viz., Factories Act, Pollution Control Board etc. and has never found to be in violation of any applicable laws.</p> <p>➤ The Bias tyre technology is an older technology and slowly shrinking in the tyre market. The factory has separate administrative set up inside the precincts of the factory.</p> <p>The PP had spare land available outside the above existing factory premises which is well suited to build a Warehouse and R&D building being a permissible activity under the applicable CRZ Regulations, and also having direct access to the highway for movement of goods and materials. The said area falls under CRZ II Zone.</p> <p>The PP had applied for CRZ clearance for the above Warehouse and R&D Building and had obtained CRZ clearance vide Proceedings No. P1/2327/2017 dated 12.02.2018 and vide amended proceedings dated 03.10.2019.</p> <p>The current approval pending before SEIAA is based on recommendation</p>
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SEAC -TN

CHAIRMAN
SEAC- TN


from TNSCZMA for the approval of proposed construction of additional Block of Ground Floor (Anechoic Chamber) Mezzanine floor (Air Plenum), extension of the 1st floor and building of 2nd floor, in addition to the approved existing R&D building at S. No. 175 (part) of Emavoor Village, S. No. 6/1A1 of Tiruvottiyur Village in T.S. No 3, 5/1A, 5/2A Block No. 1, Ward No. 1 of Tiruvottiyur, Wimco Nagar, Ennore Express Road, Chennai.

The CRZ notification permits the construction of buildings in CRZ II zone on the landward side of the existing or on the landward side of the existing authorized structure as per the existing local town and country planning regulations.

The restriction is only on setting up of new industries or expansion of existing industries. The PP is not undertaking any expansion of the existing factory or setting up a new factory. MRF would like to explain the rationale for not expanding the existing factory in the said premises.

- a) The existing factory is operated on an old technology of Bias Tyres whose demand is slowly shrinking


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


	<p>in the market and revamp of the existing factory to the new Radial technology which is in demand would be unviable.</p> <p>b) The existing warehouse layout and design is not congruent and completely different to the layout and design of a manufacturing process of either Radial or Bias tyres. Hence, the reference in the query relating to expansion of the existing factory is prima facie not sustainable.</p> <p>c) There is a clear physical demarcation and separation of areas between the existing factory premises and the present Warehouse.</p> <p>d) The Warehouse is constructed principally for storage and distribution of imported raw materials to serve the imports from the three Ports viz., Kattupally, Ennore and Chennai. It has served as an independent entity ever since it became operational and never linked to production or manufacturing process.</p>
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SEAC -TN

CHAIRMAN
SEAC- TN


	<p>e) The Warehouse is operating in the nature of a separate private bonded warehouse where imported raw materials are stored for de-bonding and onward transit to other locations. This is not possible, if the Warehouse is also involved in the manufacturing activities of Tiruvottiyur factory.</p> <p>f) The proximity of the Factory with that of the Warehouse is purely coincidental and does not have any direct connection either in its operations, administration or the statutory approvals.</p> <p>The activity in the Warehouse has a separate consent order of the Pollution Control Board, whereas the factory is operating under the provisions of the Factories Act and with separate Pollution Control Board approvals.</p> <p>g) The rationale for locating this Warehouse is similar to other warehouses of the PP established in other Port towns namely Cochin, Krishnapatinam and Navseva which are ideally located to serve the Ports.</p>
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MEMBER SECRETARY
SEAC -TN

91

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SEAC- TN

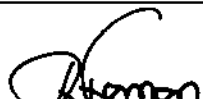


	<p>h) The land wherein Tiruvottiyur warehouse is located has proximity to the National Highway and the Sea Ports stated above. It makes sense for the warehouse to have the imported containers unloaded at the closest location from the Ports since the containers have to be resent to the Ports after unloading.</p> <p>i) The existing factory is self-sufficient for its operations. The work done in the Warehouse and the R&D building coming under the CRZ Zone are not dependent in any way on the factory. The raw materials sent from the Warehouse to the Tiruvottiyur factory is miniscule and also undergoes the same process of receipt as is done in other factories of the PP. The logic of the Warehouse and the R&D building being an extension of the existing factory does not arise. The factory being an independent unit can function without the need for the bonded Warehouse in the factory and vice-versa.</p>
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SEAC -TN

CHAIRMAN
SEAC- TN

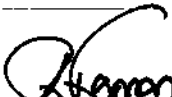

	<p>j) Even assuming that there was no Tiruvottiyur Factory of the PP in existence in the said place, the Warehouse will still have an independent separate existence and would be a permissible activity under the CRZ regulations and therefore cannot be treated as an expansion of the existing factory.</p> <p>k) The Warehouse and the R&D building will be functioning as an independent establishment under the Shops and Commercial Establishment Act of Tamil Nadu since no manufacturing activities are intended.</p> <p>l) The Warehouse is a private bonded warehouse under the supervision of the Customs Authorities and it is important to have an area earmarked specifically for the bonded house to avoid outside interference, pilferage etc. m) The R&D activity being carried out in the said premises does not involve any commercial production and is therefore not an industrial activity. It is also not a prohibited activity under CRZ regulations.</p>
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MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN



		<p>n)The management of the Warehouse is under the separate control of Executive Vice President- Finance. Likewise, the Research & Development Department comes under the management of the Executive Vice President - R&D. The Tiruvottiyur Factory is independent and comes under the management of the Vice President - Manufacturing.</p>
<p>2.</p>	<p>The PP stated that construction of building within CRZ is a permitted activity. Hence,the PP is requested to furnish information whether the term "Building" will cover industrial sheds and buildings used by an industry for R&D purposes.</p>	<ul style="list-style-type: none"> ➤ The clarification whether the term 'building' will cover industrial sheds and buildings used for R&D purpose. ➤ we submit that CRZ Regulations have been issued under the Environment Protection Act / Rules to conserve and protect coastal stretches and the livelihood of the local communities and also to promote development through sustainable manner based on scientific principles. ➤ It contemplates declaring coastal stretches as Coastal Regulation Zones (CRZ), which restricts setting up of, and expansion of any industry.


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


operations or processes or manufacture or handling oil storage or disposal of hazardous substances as specified in the Hazardous Substances (Handling, Management and Transboundary Movement) Rules, 2009 in the said CRZ.

It also stipulates that in CRZ II, buildings shall be permitted on the landward side of the existing road or on the landward side of the existing authorized structures. It also lays down that the buildings permitted on the landward side of the existing and proposed roads or existing authorized structures shall be based on the existing local Town & Country planning regulations.

- The CMDA Development Regulations which would be applicable in this case define the building as under: -
- *Building includes a house, out house, stable, latrine, godown, shed, hut, wall (other than a boundary wall) and any other structure whether of masonry, bricks, mud, wood, metal or any other material whatsoever. a*


MEMBER SECRETARY
SEAC -TN

95

CHAIRMAN
SEAC- TN


structure on wheels or simply resting on the ground without foundation, a ship, vessel, boat, tent, van and any other Structure used for human habitation or used for keeping or storing any article or goods, and the garden, grounds, carriages and stables, if any, appurtenant to any building

It is worth mentioning that the CRZ II only refers to the permissibility of the building being constructed in CRZ II and does not lay down the activities to be carried out in the building. The prohibition of activities in the CRZ is stated separately and among others includes setting up of new industries and expansion of existing industries. It is humbly submitted that we have got the CRZ approval for the warehouse and R&D Tyre Testing Facility vide Proceedings No. P1/2327/2017 dated 12.02.2018 and vide amended proceedings dated 03.10.2019 under CRZ Notification. Further, we would like to submit that the said expansion for which the approval is sought is not a prohibited activity in the CRZ II zone. The term 'building' is to be appropriately interpreted in the


MEMBER SECRETARY
SEAC -TN

96

CHAIRMAN
SEAC- TN


		context of activity being undertaken and proposed in the said building and it is not falling under the prohibited activities of the CRZ Notification. There is no prohibited activity under the CRZ Notification being undertaken in the buildings proposed by the PP and under consideration for approval.
3.	The PP is requested to give details regarding any Hazardous chemical storage & Log book extract.	There are no hazardous chemicals processed, packed or unpacked, stored for disposal in the warehouse as per the extant Notification G.S.R. No. 395 (E) dated 04.04.2016 in this regard. We would like to state that the CRZ approval, Consent to Establish and Consent to Operate for the above Warehouse has been obtained. The present application before the Committee deals only with the proposed R&D Building. There is no storage of hazardous chemicals in the proposed R&D building as per the extant Notification stated above. The current extract of the Bond Ledger for the last three months September, October and November 2023 has been submitted.
4.	The PP shall submit the details of Solid waste generated, discarded & disposed.	As regards Query No. 4, the solid waste generated from the warehouse material storage and tyre cut sections


 MEMBER SECRETARY
 SEAC -TN

97

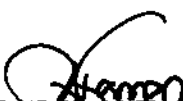
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		from the R&D tyre testing facility are disposed through the authorised recyclers. The dry tree leaves and vegetation waste along with STP dried sludge is disposed as manure for the green belt development. The details has been submitted.
5.	The PP shall submit the details of number of persons working in the existing facility & the proposed increase in workforce due to the proposed expansion of existing facility.	The details of the persons working in the approved existing Warehouse and R&D building and the proposed increase in workforce on account of the expansion of R & D building has been submitted.

OBSERVATIONS OF THE COMMITTEE

1. The PP and EIA Coordinator made a detailed presentation and submitted replies to the queries raised by the SEAC in its meeting 412th meeting held on 04.10.2023.
2. However, Committee noted that as per the CRZ Notification, 2011 vide S. O. No. 3085(E) dated 28.11.2014 which inter-alia states as below
Under Para (3) of the above said Notification, following amendment has been made in paragraph 4.2 in sub-paragraph (ii), after clause (b), the following clause shall be inserted, namely: -
“(c) SEIAA, for the projects specified under paragraph 4(i) (except with respect to item (d) thereof relating to building projects with less than 20,000 sq. mts of built-up area) and for the projects not attracting EIA Notification, 2006”
3. Although the present proposal is for expansion of built-up area, the question arises as to whether the PP had obtained CRZ clearance from the competent authority (SEIAA) for the existing construction with a built-area of 29,542.16 Sqm.


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SEAC -TN


CHAIRMAN
SEAC- TN

In view of the above facts and observations, recommendation made by the TNSCZMA and the provisions contained in CRZ Notification, 2011 as amended, SEAC is of the opinion that SEIAA may get the remarks of TNCZMA on the following points.

- A. As per CRZ Notification, "setting up of new industries and expansion of existing industries, operations or process," is a prohibited activity. The total built-area of the existing structures in the impugned area is 29,542.16 Sqm and the structure is used as warehouse-cum-trye testing (R&D) facility by the proponent. Whether the existing industrial shed or warehouse-cum-trye testing facility is a permitted activity within CRZ II area.
- B. It is found from the record that the PP has obtained CRZ clearance from TNCZMA and not from SEIAA which is the competent authority to issue CRZ clearance as per the CRZ Notification, 2011 amended vide S.O. No. 3085(E) dated 28.11.2014. Hence, the TNSCZMA may consider the following;
 1. As the proponent has not obtained CRZ clearance for the existing structures from SEIAA, which is the competent authority, this proposal falls under violation category attracting the procedure prescribed by MoEF&CC for CRZ Clearance vide S.O. 3085(E) dated: 28.11.2014 and therefore, TNCZMA has to follow the SOP issued by MoEF&CC vide Office Memorandum Dated: 19.02.2021 for assessing Environmental Compensation and make its recommendations, if it arrives at the conclusion that the existing structures are not covered under prohibited activities.

Further, the SEAC also noted that the petition filed before the NGT, Southern Zone is still pending and the judgement is awaited. Hence, PP is directed to submit a copy of the judgment to the Committee, as soon as it is delivered.

Agenda No: 432 - 27

File No: 10573/2023

Proposed Integrated 4GW Solar cell and Module Manufacturing plant at SF. Nos: 1641 pt, 1474 pt, 1475, 1476, 1477 pt, 1478 pt, 1479, 1480, 1481 pt, 1495 pt, 1642 pt, 1901 pt, 1903 pt, 1904 pt, 1905 pt, 1906 pt, 1907 pt, 1908, 1909, 1910 pt, 1911, 1912 pt, 1913


MEMBER SECRETARY
SEAC -TN

99

CHAIRMAN
SEAC- TN


pt, 1914 pt, 1915 pt, 1916 pt, 1917 pt, 1922 pt, 1923 pt, 1924 pt, 1925 pt, 1926 pt, 1927 pt, 1931 pt, 1919 pt, 1921 pt (Plot No. A104, A105, A106, A107 & A108, A109) at SIPCOT Industrial park of Gangaikondan Village, Tirunelveli District, Tamil Nadu by M/s. TP Solar Limited- For Terms of Reference. (SIA/TN/INFRA2/454338/2023, Dated:05.12.2023)


The proposal was placed in the 432nd SEAC meeting held on 20.12.2023. The details of the project furnished by the proponent are available in the website. (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. TP Solar Limited has applied for Terms of Reference for the Proposed Integrated 4GW Solar cell and Module Manufacturing plant at SF. Nos: 1641 pt, 1474 pt, 1475, 1476, 1477 pt, 1478 pt, 1479, 1480, 1481 pt, 1495 pt, 1642 pt, 1901 pt, 1903 pt, 1904 pt, 1905 pt, 1906 pt, 1907 pt, 1908, 1909, 1910 pt, 1911, 1912 pt, 1913 pt, 1914 pt, 1915 pt, 1916 pt, 1917 pt, 1922 pt, 1923 pt, 1924 pt, 1925 pt, 1926 pt, 1927 pt, 1931 pt, 1919 pt, 1921 pt (Plot No. A104, A105, A106, A107 & A108, A109) at SIPCOT Industrial park of Gangaikondan Village, Tirunelveli District, Tamil Nadu.
2. The project activity is covered under Category "B1" of Item 8(b) "Township & Area Development projects" of the Schedule to the EIA Notification, 2006.
3. Complaints received against the unit regarding illegally commenced its new industry construction in Gangaikondan postal limit, Tirunelveli District without obtaining prior EC from SEIAA.
4. Hon'ble Madras High Court Judgement dated 28.11.2023 in its W.M.P (MD) No. 26531 of 2023 stated that,

"M/s.T.P.Solar Limited shall within one week from today apply to the State Level Environmental Assessment Authority for environmental clearance and the said State Level Environmental Assessment Authority shall take a decision on the application of the respondent M/s.T.P.Solar Limited for environmental clearance within four weeks from the date of receipt of the application".

5. Based on the above judgement, the PP applied ToR to SEIAA.

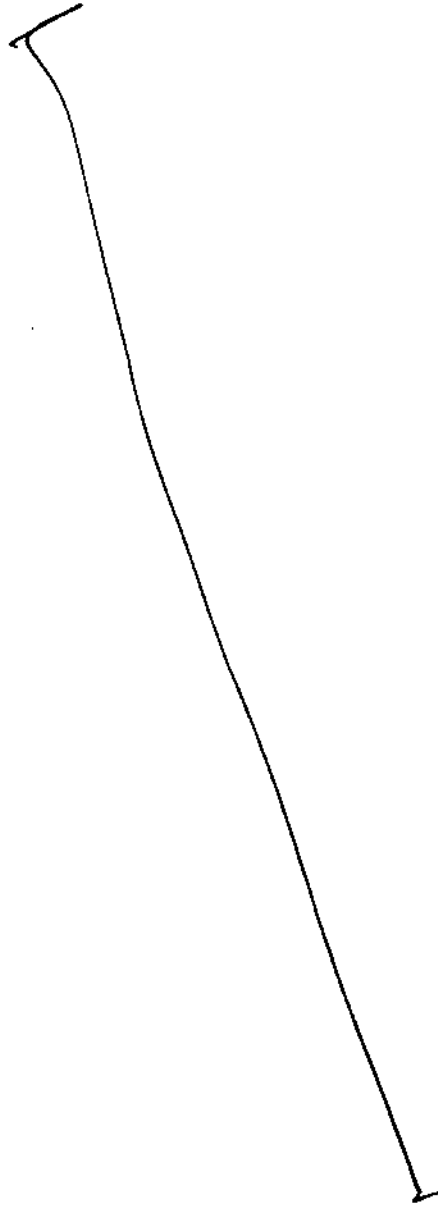

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SEAC -TN

100

CHAIRMAN
SEAC- TN



The proposal was placed in the 436th SEAC Meeting held on 29.12.2023. During the meeting the PP requested additional time to present his proposal. Hence the Committee decided to defer the proposal.




MEMBER SECRETARY
SEAC -TN

101

CHAIRMAN
SEAC- TN


ANNEXURE-I

SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED WITHIN 1 KM FROM THE RESERVE FORESTS

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


MEMBER SECRETARY
SEAC -TN

102

CHAIRMAN
SEAC- TN


9. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.
10. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying operations within 'Permissible Limits' specified under the environmental laws.
11. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.
12. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry out the quarrying on steep hill slopes with a gradient of 20° or more or areas with a high degree of erosion on forestland.
13. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco- sensitive Zone of 60 m without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.
14. The PP shall not use plastic carry bags within the quarry area.
15. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free from blockage for runoff disposals. This run off from the road side drainage shall relate to the natural drainage system in the area.
16. The PP shall adhere to the provisions of the MoEF had issued Notification No. S.O. 1545 dated 25th June 2009 regulating certain activities in the eco-sensitive zone to conserve and protect the reserved forest area from ecological and environmental point of view.


MEMBER SECRETARY
SEAC -TN

103

CHAIRMAN
SEAC- TN



GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS

1. The proponent shall mandatorily appoint the statutory competent persons and commence the quarry operations within the purview of Mines Act 1952.
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
4. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short-Term Permit (STP), Query license or any other name.
5. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals.
6. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly.
7. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.


MEMBER SECRETARY
SEAC -TN

104

CHAIRMAN
SEAC- TN



8. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics.
9. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
10. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
11. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
12. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
13. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.


MEMBER SECRETARY
SEAC -TN

105

CHAIRMAN
SEAC- TN


14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
15. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
16. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
17. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCCB) by the proponent without fail.
18. 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.
19. 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.
20. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.

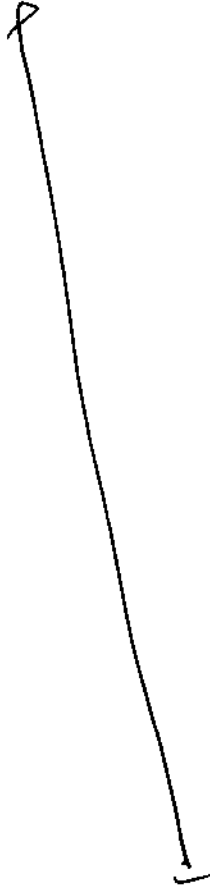

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SEAC -TN

106

CHAIRMAN
SEAC- TN



21. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
22. 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.
23. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.




MEMBER SECRETARY
SEAC -TN

107

CHAIRMAN
SEAC- TN



ROUGH STONE/JELLY/BLUE METAL QUARRY

- 1) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 2) 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.
- 3) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 4) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry including all the contractual employees/truck drivers shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy / Salem / Hosur.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) The proponent shall install the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.


MEMBER SECRETARY
SEAC -TN

108

CHAIRMAN
SEAC- TN


- 8) The Proponent shall submit a conceptual 'Slope Stability Action Plan' incorporating the benches & accessible haul road approved by the concerned AD (Mines) for the proposed quarry to the DEE/TNPCB at the time of obtaining the CTO.
- 9) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are undergoing the initial/periodical medical examination in the DGMS approved OHS Clinics/Hospitals as per the DGMS Circular No. 01 of 2011 before they are engaged in mining activities.
- 10) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are provided with adequate PPEs before engaged in mining operations.
- 11) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 12) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 13) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 14) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 15) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 16) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.


MEMBER SECRETARY
SEAC -TN

109

CHAIRMAN
SEAC- TN



- 17) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 18) 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.
- 19) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 20) Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
- 21) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 22) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the


MEMBER SECRETARY
SEAC -TN

110

CHAIRMAN
SEAC- TN


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

23) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.

24) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.

25) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.

26) The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.

27) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.

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

29) 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.

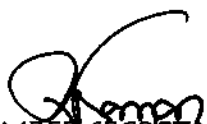

MEMBER SECRETARY
SEAC -TN

111

CHAIRMAN
SEAC- TN



- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 32) 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.
- 33) 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.
- 34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 36) 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.


MEMBER SECRETARY
SEAC -TN

112


CHAIRMAN
SEAC- TN

37) 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.

38) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

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

40) 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.

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


MEMBER SECRETARY
SEAC -TN

113

CHAIRMAN
SEAC- TN



SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED IN CLOSE PROXIMITY TO THE WINDMILLS


Sl. No	Existing (or) Virgin Quarry	
	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m Up to 500 m
1.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.
2.	Special precautions are to be taken during blasting within danger zone such as posting guards, etc.	Blast design parameters should be mentioned in mining plan/scheme. and may be reviewed by a competent mining engineer.
3.	Blast design parameters should be mentioned in mining plan/scheme.	MCPD and total charge should be fixed such that it should not exceed 1.3 kg and 26.50 kg respectively.
4.	The recommendations of scientific organisation need to be incorporated in the mining plan/scheme before its approval.	Fresh scientific study may be conducted if mine management wants to increase the MCPD and total explosive charge above the quantity of 1.30 kg and 26.50 kg respectively. Continuous monitoring using seismograph should also be done in such cases by the mine management.
5.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.
6.	Training of the blasting crew on controlled blasting practices before engaged in operation.	Training of the blasting crew on controlled blasting practices before engaged in operation.


MEMBER SECRETARY
SEAC -TN

114

CHAIRMAN
SEAC- TN


7.	Submission of monthly report on blast design pattern and detailed explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, PESO or SPCB.	Submission of monthly report on blast design pattern and detailed explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, SPCB. Report of recorded ground vibration need to be added in monthly report.
8.	Report of recorded ground vibration need to be added in monthly report which shall be sent to all the statutory body viz. DGMS, DMG, SPCB.	Report of recorded ground vibration need to be added in monthly report which shall be sent to all the statutory body viz. DGMS, DMG, SPCB.
9.	Small diameter emulsion cartridge of 25 mm diameter (125 gm weight per cartridge) shall be used. However, ANFO explosives may also be used as main explosive charge.	Small diameter emulsion cartridge of 25 mm diameter (125 gm weight per cartridge) shall be used. However, ANFO explosives may also be used as main explosive charge.
10.	Electronic (or) Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.	Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.
11.	Max. number of holes in a round: 30.	Max. number of holes in a round: 40 to 60.


 MEMBER SECRETARY
 SEAC -TN

115

CHAIRMAN
 SEAC- TN


TERMS OF REFERENCE (ToR) FOR GRANITE / ROUGH STONE QUARRY

1. In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following:
 - (i) Original pit dimension
 - (ii) Quantity achieved Vs EC Approved Quantity
 - (iii) Balance Quantity as per Mineable Reserve calculated.
 - (iv) Mined out Depth as on date Vs EC Permitted depth
 - (v) Details of illegal/illicit mining
 - (vi) Violation in the quarry during the past working.
 - (vii) Quantity of material mined out outside the mine lease area
 - (viii) Condition of Safety zone/benches
 - (ix) Revised/Modified Mining Plan showing the benches of not exceeding 6 m height and ultimate depth of not exceeding 50m.
2. 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.
3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
4. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry.
5. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.


MEMBER SECRETARY
SEAC -TN

116

CHAIRMAN
SEAC- TN


6. 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.
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 the PP shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC.
8. However, in case of the fresh/virgin quarries, 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.
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. 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.


MEMBER SECRETARY
SEAC -TN

117

CHAIRMAN
SEAC- TN




12. 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.
13. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
14. Quantity of minerals mined out.
 - Highest production achieved in any one year
 - Detail of approved depth of mining.
 - Actual depth of the mining achieved earlier.
 - Name of the person already mined in that leases area.
 - If EC and CTO already obtained, the copy of the same shall be submitted.
 - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
15. 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).
16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc.,
17. 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.
18. 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.


MEMBER SECRETARY
SEAC -TN

118

CHAIRMAN
SEAC- TN


19. 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 the 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.
20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of groundwater 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.
21. 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.
22. 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.
23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
24. 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


MEMBER SECRETARY
SEAC -TN

119

CHAIRMAN
SEAC- TN



- encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
25. 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.
 26. 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.
 27. 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.
 28. Impact on local transport infrastructure due to the Project should be indicated.
 29. 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.
 30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
 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


MEMBER SECRETARY
SEAC -TN

120

CHAIRMAN
SEAC- TN


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.
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.


MEMBER SECRETARY
SEAC -TN

121

CHAIRMAN
SEAC- TN


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.


MEMBER SECRETARY
SEAC -TN

122


CHAIRMAN
SEAC- TN

Annexure II

Standard Environmental Clearance Conditions prescribed by MoEF&CC for Construction Projects.

1. Statutory Compliance:

1. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc as per National Building Code including protection measures from lightning etc.
3. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
4. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
5. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
6. The project proponent shall obtain the necessary permission for drawing of ground water / surface water required for the project from the competent authority.
7. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department and Civil Aviation


MEMBER SECRETARY
SEAC -TN

123


CHAIRMAN
SEAC- TN


Department shall be obtained, as applicable, by project proponents from the respective competent authorities.

9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

2. Air quality monitoring and preservation:

1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
3. The project proponent shall install a system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM25) covering upwind and downwind directions during the construction period.
4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
5. Sand, murrum, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.
6. Wet jet shall be provided for grinding and stone cutting.


MEMBER SECRETARY
SEAC -TN


124

CHAIRMAN
SEAC- TN


7. Unpaved surfaces and loose soil should be adequately sprinkled with water to suppress dust.
8. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
9. The diesel generator sets to be used during construction phase shall be low Sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.
10. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
11. For indoor air quality the ventilation provisions as per National Building Code of India.

3. Water Quality Monitoring and Preservation:

1. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.
2. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
3. Total freshwater use shall not exceed the proposed requirement as provided in the project details.
4. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).


MEMBER SECRETARY
SEAC -TN

125

CHAIRMAN
SEAC- TN


5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
6. At least 20% of the open spaces as required by the local building byelaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation car washing, thermal cooling, conditioning etc. shall be done.
8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
9. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
11. The local bye-law provisions on rainwater harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rainwater harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
12. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total freshwater requirement


MEMBER SECRETARY
SEAC -TN

126

CHAIRMAN
SEAC- TN



shall be provided. In areas where ground water recharging is not feasible, the rainwater should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.

13. All recharges should be limited to shallow aquifer.
14. No ground water shall be used during construction phase of the project.
15. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
16. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).
17. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, not related water shall be disposed into municipal drain.
18. No sewage or untreated effluent water would be discharged through storm water drains.
19. Onsite sewage treatment of capacity of treating 100% wastewater to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated wastewater shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be taken to mitigate the odor problem from STP.


MEMBER SECRETARY
SEAC -TN

127

CHAIRMAN
SEAC- TN


21. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Centre Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

4. Noise Monitoring and Prevention:

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

5. Energy Conservation Measures:

1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
2. Outdoor and common area lighting shall be LED.
3. The proponent shall provide solar panels covering a minimum of 50% of terrace area as committed.
4. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN



design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.

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

6. Waste Management:

1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
2. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
3. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.


MEMBER SECRETARY
SEAC -TN

129

CHAIRMAN
SEAC- TN


5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
 6. Any hazardous waste generated during construction phase shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
 7. Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.
 8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September 1999 and amended from time to time. Ready mixed concrete must be used in building construction.
 9. Any wastes from construction and demolition activities related thereto shall be managed to strictly conform to the Construction and Demolition Rules, 2016.
 10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.
- 7. Green Cover:**
1. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
 2. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.


MEMBER SECRETARY
SEAC -TN

130

CHAIRMAN
SEAC- TN


3. Where the trees need to be cut with prior permission from the concerned local authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
4. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
5. A wide range of indigenous plant species should be planted as given in the Appendix-1, in consultation with the Government Forest/Horticulture Departments and State Agriculture University.

8. Transport:

1. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation.
2. Vehicles hired to bring construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
3. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms


MEMBER SECRETARY
SEAC -TN

131

CHAIRMAN
SEAC- TN



radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

9. Human Health Issues:


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

10. Corporate Environment Responsibility:

1. The PP shall complete the CER activities, as committed, before obtaining CTE.


MEMBER SECRETARY
SEAC - TN

132

CHAIRMAN
SEAC- TN


2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of Half Yearly Compliance Report (HYCR).
3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Half Yearly Compliance Report (HYCR).

11. Miscellaneous:

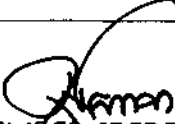
1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in Tamil language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.


MEMBER SECRETARY
SEAC -TN

133

CHAIRMAN
SEAC- TN


3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4. The project proponent shall submit Half Yearly Compliance Reports (HYCR) on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
6. The project proponent shall inform the Authority (SEIAA) of the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
7. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
8. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also during their presentation to the State Expert Appraisal Committee.
9. No further expansion or modifications to the plant shall be carried out without prior approval of the Authority (SEIAA).
10. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11. The Authority (SEIAA) may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. The Authority reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.


MEMBER SECRETARY
SEAC -TN

134

CHAIRMAN
SEAC- TN


13. The Regional Office of the MoEF&CC Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

14. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.


MEMBER SECRETARY
SEAC -TN

135

CHAIRMAN
SEAC- TN 

Appendix - I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vitvam	விவம்
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சரி, ஆனந்தகுன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aafhi	ஆஃபி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவத்தி
8	<i>Buchanania axillaris</i>	Kattuma	கட்டமா
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Pannai	பனை
13	<i>Cassia fistula</i>	Sarakondrai	சரகண்டரை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கண்டரை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரசம்மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கொங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூலி
18	<i>Creteva adansoni</i>	Mavalingum	மாவலிங்கம்
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	வாகை
23	<i>Ficus amplissima</i>	Kallitchi	கல் இச்சி
24	<i>Hibiscus tiliaceus</i>	Aarupoovarasu	ஆர்பூர்பாரசு
25	<i>Hartwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயில் மரம், ஆயிலி
27	<i>Lansia coromandlica</i>	Odhiam	ஒடியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	வில்லி மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிசிப்பை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனா
38	<i>Phoenix sylvestre</i>	Eachai	ஈச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Munnai	முள்ளை
41	<i>Premna serratifolia</i>	Narumunnai	நடு முள்ளை
42	<i>Premna tomentosa</i>	Malipoovarasu	மலை முள்ளை
43	<i>Prosopis cinerea</i>	Vanni maram	வாணி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்டிங்கை
46	<i>Pterospermum xylocarpum</i>	Polavu	புலாவை
47	<i>Putterlickia roxburghii</i>	Kanipala	கனிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	அகா மரம்
49	<i>Sapindus emarginatus</i>	Maripungan, Soapukai	மாசிபுண்டி சோபுகை
50	<i>Sarcococa</i>	Asoca	அசோகா
51	<i>Strabius asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேர்தங்கை கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாந்திரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேன் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சாந்தா வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	புவாரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்பூசி

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