

STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU

Minutes of 326th meeting of the State Expert Appraisal Committee (SEAC) held on 04.11.2022 November 2022 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects.

Agenda No: 326-01

(File No: 9418/2022)

Proposed construction of residential apartment at S.Nos.240/13 & 240/15 of Kalavakkam Village, Thiruporur Taluk and Chengalpet District by M/s Casa Grande Grace Pvt Ltd - For Environmental Clearance.(SIA/TN/MIS/284631/2022, dated 21/07/2022)

The proposal was earlier placed in the 311th meeting of SEAC held on 15.09.2022. The details of the project furnished by the proponent are available on the PARIVESH webportal (parivesh.nic.in). The project proponent gave detailed presentation on the project proposal. The SEAC noted the following:

1. The Proponent, M/s Casa Grande Grace Pvt Ltd has applied seeking Environmental Clearance for the proposed construction of residential apartment at S.Nos.240/13 & 240/15 of Kalavakkam Village, Thiruporur Taluk and Chengalpet District, Tamil Nadu.
2. The project/activity is covered under Schedule B2 Category 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. The project consists of residential apartment comprising 2 Blocks,
 - Block 1 - Stilt + 5 floors with club house, swimming pool and Podium on first floor level with 324 Dwelling units.
 - Block 2 – Stilt + 5 Floors with podium on first floor level with 347 Dwelling units totally 671 Dwelling Units.

Based on the presentation made and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the conditions stated therein.

Subsequently the subject was placed before the Authority in its 556th meeting held on 03.10.2022. The Authority, after detailed deliberations decided to refer back the


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subject to SEAC after the receipt of following additional particulars from the proponent.

1. Impact of project activity on the nearby agricultural lands.
2. Details of children's play area proposed shall be furnished.
3. Proponent shall furnish the details of parking area demarcated for the visitors' vehicles.
4. Details of in-House Gym facilities proposed for the occupants.
5. As the residential housing project is proposed in a remote area, details of availability of commercial establishments such as grocery shops etc shall be furnished.

Hence the subject was placed in this 326th meeting of SEAC held on 04.11.2022. The Project proponent made a presentation along with the clarifications for the above shortcomings observed by the SEIAA. The committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to reiterate its recommendation already made in 311th Meeting of SEAC held on 15.09.2022. All other conditions stipulated in the earlier minutes will remain unaltered.

Agenda No: 326-02

(File No: 9462/2022)

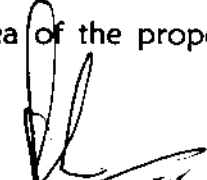
Proposed Construction of High-Rise Buildings in S.F. No: 453, 495/2C, 496, 497 and 498 of Perumbakkam Village, Tambaram Taluk Chengalpattu District, Tamil Nadu by M/s Brigade Enterprises Ltd - For Terms of Reference (SIA/TN/MIS/81178/2022, dated 25-07-2022)

The proposal was placed in 326th SEAC meeting held on 04.11.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, **M/s Brigade Enterprises Ltd** has applied for Terms of Reference for the Proposed Construction of High-Rise Buildings in S.F. No: 453, 495/2C, 496, 497 and 498 of Perumbakkam Village, Tambaram Taluk Chengalpattu District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of item 8(b) "Building & Construction" of the Schedule to the EIA Notification, 2006.
3. Total land area is 59,930 Sq.m & the total built-up area of the proposed High-Rise Buildings is 2,90,000 Sq.m.


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Neither the proponent nor the EIA coordinator was present for the appraisal. Hence, SEAC decided not to take up the proposal.

Agenda No: 326-03

(File No: 9119/2022)

Proposed Expansion of IT/ITES development at S.No. 119/1, 120/1, 120/2, 120/3, 121, 122, 123/1, 123/2, 123/3, 124/1, 124/2, 124/3, 125/1A1, 125/1A2, 125/1A3, 125/1B1, 125/1B2, 126, 127/2, 128/1 & 128/2 of Ramapuram Village, Maduravoyal Taluk and S.No.25/1, 26/1, 27/1 of Manapakkam village, Alandur Taluk, Chennai District, Tamil Nadu by M/s. Larsen & Toubro Limited - For Environmental Clearance (SIA/TN/MIS/82035/2022, dated 17-08-2022)

The proposal was placed in 326th SEAC meeting held on 05.11.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Larsen & Toubro Limited has applied for Environmental Clearance for the Proposed Expansion of IT/ITES development at S.No. 119/1, 120/1, 120/2, 120/3, 121, 122, 123/1, 123/2, 123/3, 124/1, 124/2, 124/3, 125/1A1, 125/1A2, 125/1A3, 125/1B1, 125/1B2, 126, 127/2, 128/1 & 128/2 of Ramapuram Village, Maduravoyal Taluk and S.No.25/1, 26/1, 27/1 of Manapakkam village, Alandur Taluk, Chennai District, Tamil Nadu.
2. The project/activity is covered under Category "B" of item 8(b) "Township and Area Development Projects" of the Schedule to the EIA Notification, 2006.
3. The proposed development involves a total plot area of 89600 Sq.m and a total built-up area of 670790.47 Sq.m.

Based on the presentation and document furnished by the proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance** subject to the following specific conditions in addition to normal conditions stipulated by MOEF&CC.

1. The PP shall adhere to IGBC Platinum norms and also obtain IGBC Platinum Certification before obtaining CTO.


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2. The proponent shall increase the green belt coverage from the proposed 15% to 20 % by suitably changing the open space & parking area.
3. The proponent shall provide Bio Methanation plant within project site for bio-degradable waste and shall dispose the non- Biodegradable waste to authorized recyclers as committed.
4. The proponent shall strive to generate minimum of 50% of the energy requirement of the project from renewable sources either within or outside the project site.
5. The proponent shall provide metered e-charging units in the parking area.
6. The proponent shall ensure that DG sets are run on green energy sources instead of Diesel.
7. The height of the stacks of DG sets shall be provided as per the CPCB norms.
8. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to TNPCCB before obtaining CTO.
9. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for Toilet flushing, Green belt development, OSR, and no treated water shall be let out of the premise.
10. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.
11. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix, in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
12. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted with 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.

13. The unit shall ensure the compliance of land use classification fit for construction.
14. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed.
15. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
16. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
17. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
18. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
19. No waste of any type to be disposed of in any other way other than the approved one.
20. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
21. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines.


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22. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
23. The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
24. Solar energy should be at least 25% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
25. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall adhere the EMP as committed.
26. As accepted by the Project Proponent an amount of Rs. 7.5 crore shall be spent as CER for implementing a massive tree plantation movement in **Chengalpattu** District in consultation and coordination with the district authorities. The PP may engage Auroville Foundation (Government of India organisation) as technical consultants for this initiative. The tree planting movement shall cover all Govt lands/offices/schools etc, in **Chengalpattu** district. In addition, PP has also come forward to adopt one or two panchayats in **Chengalpattu** District and work with the district authorities in developing these panchayats as Model Green Panchayats. The project should be launched within 6 months from the date of issue of Environmental Clearance.”

Agenda No: 326-04

(File No: 9449/2022)

Proposed Construction of Industrial/Logistics/Warehouse buildings at S.No. 27/1A, 27/2A, 27/2B, 28/1A, 28/1B, 28/2, 29/1, 29/2, 30/1, 30/2, 31/1, 31/2, 31/3, 32/1A, 32/1B, 32/2, 32/3, 32/4A, 32/4B, 33, 34/1, 34/2, 35/1, 35/2, 35/2B2, 35/3A, 35/3B1, 36/1, 36/2, 37/1A, 37/1B, 37/2A, 37/2B1, 37/2B2, 38/1, 38/2, 38/3, 38/4, 39, 40/1, 40/2, 40/3, 40/4, 41, 42/1, 42/2, 42/3, 42/5, 43/1, 43/2, 44/1A, 44/1B, 44/2, 45/1, 45/2, 46/1, 46/2, 46/3, 47, 48/1A, 48/1B, 48/1C, 48/2, 48/3A, 48/3B, 49/1, 49/2A, 49/2B, 49/2C, 49/3, 49/4, 49/5, 50/1, 50/2, 52/4, 53, 54, 67/1, 67/2, 68/1, 68/2, 68/3A, 68/3B, 69/1, 69/2, 69/3, 69/4, 69/5, 70, 71, 72/1, 72/2, 73/1, 73/2A, 73/2B, 76, 77/1A, 77/1B1, 77/1B2, 77/1B3A, 77/1B3B, 77/2A, 77/2B, 78/1, 78/2, 78/3, 78/4,


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78/5, 79/1, 79/2, 80, 81/1, 81/2, 81/3, 81/4, 82/1, 82/2A, 82/2B, 83/1, 83/2A, 83/2B, 84/1, 84/2, 85/1, 85/3, 85/4, 85/5, 86/1, 86/2, 86/3, 86/4, 86/5, 86/6, 88/1, 88/2, 89/1, 89/3B, 89/4 & 90 of Ullavur Village, Walajabad Taluk, Kanchepuram District, Tamil Nadu by ILP 3 INDIA 14 PRIVATE LIMITED - For Environmental Clearance (SIA/TN/MIS/289871/2022, dated 23-08-2022)

The proposal was placed in 326th SEAC meeting held on 05.11.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, **ILP 3 INDIA 14 PRIVATE LIMITED** has applied for Environmental Clearance for the Proposed Construction of Industrial/Logistics/Warehouse buildings at S.No. 27/1A, 27/2A, 27/2B, 28/1A, 28/1B, 28/2, 29/1, 29/2, 30/1, 30/2, 31/1, 31/2, 31/3, 32/1A, 32/1B, 32/2, 32/3, 32/4A, 32/4B, 33, 34/1, 34/2, 35/1, 35/2, 35/2B2, 35/3A, 35/3B1, 36/1, 36/2, 37/1A, 37/1B, 37/2A, 37/2B1, 37/2B2, 38/1, 38/2, 38/3, 38/4, 39, 40/1, 40/2, 40/3, 40/4, 41, 42/1, 42/2, 42/3, 42/5, 43/1, 43/2, 44/1A, 44/1B, 44/2, 45/1, 45/2, 46/1, 46/2, 46/3, 47, 48/1A, 48/1B, 48/1C, 48/2, 48/3A, 48/3B, 49/1, 49/2A, 49/2B, 49/2C, 49/3, 49/4, 49/5, 50/1, 50/2, 52/4, 53, 54, 67/1, 67/2, 68/1, 68/2, 68/3A, 68/3B, 69/1, 69/2, 69/3, 69/4, 69/5, 70, 71, 72/1, 72/2, 73/1, 73/2A, 73/2B, 76, 77/1A, 77/1B1, 77/1B2, 77/1B3A, 77/1B3B, 77/2A, 77/2B, 78/1, 78/2, 78/3, 78/4, 78/5, 79/1, 79/2, 80, 81/1, 81/2, 81/3, 81/4, 82/1, 82/2A, 82/2B, 83/1, 83/2A, 83/2B, 84/1, 84/2, 85/1, 85/3, 85/4, 85/5, 86/1, 86/2, 86/3, 86/4, 86/5, 86/6, 88/1, 88/2, 89/1, 89/3B, 89/4 & 90 of Ullavur Village, Walajabad Taluk, Kanchepuram District, Tamil Nadu.
2. The project/activity is covered under Category "B" of item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.
3. The project involves land area of 2,20,098.52 sq.m and built-up area of 1,48,737 sq.m.
4. The proposed development will be used for housing industrial/light and heavy engineering/assembling/logistics/storage units.


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Based on the presentation and details furnished by the project proponent, the committee noted that as per the **O.M F.No.19-131/2019-IA-III [E 128798]** dated: **4th October, 2022**, Industrial sheds of area less than 1,50,000 sq.m, 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 are exempted from obtaining prior Environmental Clearance. Accordingly the PP stated that he would withdraw the proposal and avail the exemption as allowed in the above OM.

Agenda No: 326-05

(File No: 9512/2022)

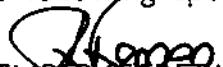
Proposed Plasticizers Manufacturing Unit at S.F.No.185 (Pt) and 186 (Pt), Plot No.P1, SIPCOT Industrial Park, Ingur Village, Perundurai Taluk, Erode District, Tamil Nadu by M/s. Payal Plastichem Pvt. Ltd- For Terms of Reference (SIA/TN/IND3/401852/2022 Dt. 11.10.2022)

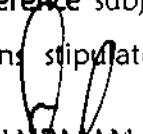
The proposal was placed in 326th SEAC meeting held on 05.11.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. Payal Plastichem Pvt. Ltd, has applied for Terms of reference for the proposed Plasticizers Manufacturing Unit at S.F.No.185 (Pt) and 186 (Pt), Plot No.P1, SIPCOT Industrial Park, Ingur Village, Perundurai Taluk, Erode District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 5(f) "Synthetic Organic Chemicals Industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)" of the Schedule to the EIA Notification, 2006.
3. The proposed project involves the production quantity of 8768 MT/month.


Based on the presentation and document furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Terms of Reference** subject to the following specific conditions in addition to normal conditions stipulated by


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1. The possibility of manufacturing bio-plasticizers may be explored in the EIA report.
2. The EIA report should contain the Chemical Abstracts Service (CAS) number of all the raw materials and products involved in the process.
3. The proponent shall give details on the following in table format:
 - i) How each raw material is transformed into final product?
 - ii) How much quantity of raw material is consumed at each stage?
 - iii) The quantity of raw materials and intermediates left out at each stage and the fate of those left over quantities.
4. The proponent shall give details on the accident history (if any) of similar plasticizers manufacturing units in the country.
5. The proponent shall furnish mass balance details for all the reactions involved in the process.
6. The alternate feedstocks for boiler shall be discussed. Not more than 50% of the boiler fuel should be coal.
7. At least 50% of the total fuel consumption should be from biofuels.
8. The proponent shall discuss the safety aspects for storage of raw materials within the premises.
9. The proponent shall discuss about the efforts that can be taken for minimizing effluent discharge.
10. The proponent shall furnish details on the size, power requirement and other technical and economic details of Mechanical Evaporator.
11. The proponent shall give details on the segregation of wastes generated.
12. The proponent shall discuss about the provisions made for continuous emission monitoring system.
13. The proponent shall discuss about the techniques adopted for the control of VOCs emission.
14. The proponent shall provide separate electric meter and flow meter for RO and similar units.
15. The proponent shall discuss about the economical and technical viability of

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16. The proponent shall discuss about the measures taken to prevent unforeseen circumstances that arises during handling ETP.
17. The proponent shall discuss about the gas emissions with quantification.
18. The specific source of fugitive emission along with quantification shall be discussed.
19. The proponent shall discuss about the applicability of Petroleum and Explosives Safety Organization (PESO) for the proposed project.
20. The process flow diagram should include quantity of various items, the effluents air emissions / hazardous waste generated including the quantity and their characteristics, appropriate pollution control measures contemplated for controlling each category of pollution, the pollutants getting discharged into the environment including the quantity as well as the characteristics.
21. The EIA should cover the possible impacts starting from unloading of chemicals, storage, process and finally letting into the environment.
22. The EIA should concentrate on specific pollutants emanated from the industry in addition to the normal pollutants which are dealt with in EIA study. The project proponent should focus and concentrate on the Volatile Organic Compounds (VOC) since it is one of the primary pollutants from the industry.
23. The occupational safety and health should be detailed to include the threat from the VOC exposure. In the same way, the exposure likely to be in the Gummidipoondi Village also to be studied.
24. Green belt development and CSR activities should be as per norms.
25. The odour from the fugitive emissions will be a major problem. The project proponent should formulate measures to monitor and control the odour appropriately.
26. Details on how the reactors are cleaned and how the residues are collected and disposed shall be elaborated.
27. Any washing of reactor with water is done such waste water shall be considered as effluent and the same shall be sent to proposed ETP. Accordingly, the project proponent shall design the ETP.


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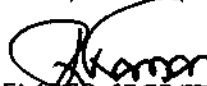
28. Hazardous waste generated shall be clearly identified and shall be disposed to TNPCB authorized recyclers. The project proponent shall furnish the proposal for Hazardous waste management.
29. EIA shall contain material balance indicating any by products, solid waste, etc
30. Fugitive emissions generated from the other activities shall be collected through adequate ducting system and provided with wet scrubbers.
31. A detailed health assessment study report for the staff working in the unit and for the people living in surrounding areas shall be furnished in the EIA.
32. Details of the procedures adopted for the regular health check-ups for the staff shall be furnished.
33. Details of extra safety standards against anticipated exhaust and exposures by the project proponent to be furnished and its impact on workers including disorders and disabilities to be listed.
34. Will exposures have any impact on workers? Can it cause disorders and disabilities?
35. Impact of anticipated vapours on the migratory birds and other bio-diversity and its harmful effect.
36. Can anticipated seepages if any, cause disturbances to soil, micro flora and to plantations including agriculture and bio-diversity.
37. Proper disaster management plan considering the worst case scenario shall be furnished.
38. The physical and chemical characteristics of all the chemicals shall be listed in the EIA report

Agenda No: 326-06

(File No: 9421/2022)

Proposed Construction of High-Rise Building for Residential purpose at Block No. 16, T.S. No. 9/1 of Velachery Village, Velachery Taluk, Chennai District, Tamil Nadu by M/s. IVAR Estates Private Limited - For Environmental Clearance. (SIA/TN/MIS/284803/2022 dated 22.07.2022)

The proposal was placed in this 326th Meeting of SEAC held on 04.11.2022. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in).


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The SEAC noted the following:

1. The Project Proponent, M/s. IVAR Estates Private Limited has applied for Environmental Clearance for Proposed Construction of High-Rise Building for Residential purpose at Block No. 16, T.S. No. 9/1 of Velachery Village, Velachery Taluk, Chennai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 8 (a) Building and Construction Projects of the Schedule to the EIA Notification, 2006.

SEAC pointed out that as the proposed site falls within 1 km radius of Guindy National Park, the project may have to be disallowed as per the Supreme Court's order as reported in 2022 Live law (SC) 540 dated 3rd June, 2022. The PP requested additional time to study the applicability of Supreme Court's order to the proposal under examination.

Hence the committee decided to defer the proposal.

Agenda No: 326-07

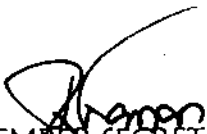
(File No: 9472/2022)

Proposed expansion in construction of Residential Group Development building in S.No.28/2A2, 33/3B, 33/3C, 34Pt, 35/1A, 35/1B, 35/1C, 35/1D,35/2A, 35/3A1, 35/3A2, 35/3A3, 35/3A4, 35/3B1, 35/3B2, 35/3B3, 35/3B4, 36/2A, 36/2B, 53/1, 53/2, 54/1A, 54/1B, 54/4A, 54/4B1, 54/4B2, 54/4B3, 54/4B4, 54/4C Vengampakkam Village, Tambaram Taluk and 577/280 Nedungundram Village, Vandalur Taluk, Chengalpattu District, Tamil Nadu by M/s. Casa Grande Zest Private Limited- For Environmental Clearance Expansion. (SIA/TN/MIS/288689/2022 dated 20.08.2022)

The proposal was placed in this 326th Meeting of SEAC held on 04.11.2022. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Casa Grande Zest Private Limited has applied for Expansion of Environmental Clearance for the proposed expansion in construction of Residential Group Development building in S.No. 28/2A2, 33/3B, 33/3C, 34Pt, 35/1A, 35/1B, 35/1C, 35/1D,35/2A, 35/3A1, 35/3A2, 35/3A3, 35/3A4, 35/3B1, 35/3B2, 35/3B3, 35/3B4, 36/2A, 36/2B, 53/1,


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53/2, 54/1A, 54/1B, 54/4A, 54/4B1, 54/4B2, 54/4B3, 54/4B4, 54/4C Vengampakkam Village, Tambaram Taluk and 577/280 Nedungundram Village, Vandalur Taluk, Chengalpattu District, Tamil Nadu.

2. The project/activity is covered under Category "B2" of Item 8 (a) Building and Construction Projects of the Schedule to the EIA Notification, 2006.
3. Environmental Clearance issued vide Letter No. SEIAA-TN/F.8645/EC/8(a)/791/2021 dated: 03.11.2021.

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

- (i) The PP shall furnish certified compliance report.
- (ii) The PP shall complete the CER activities committed in earlier EC issued vide Letter No. SEIAA-TN/F.8645/EC/8(a)/791/2021 dated: 03.11.2021.

On receipt of the reply, the Committee will deliberate further and decide future course of action.

Agenda No: 326-08

(File No: 9205/2022)

Proposed Construction of Commercial Mall at S.F Nos: 66/3B, 66/6A3 & 66/6A4 of Sennerkuppam Village, Poonamallee Taluk, Tiruvallur District, Tamil Nadu by Dr. N. M. Veeraiyan – For Environmental Clearance.(SIA/TN/MIS/269815/2022 dated 27.04.2022)

Earlier, this proposal was placed in this 303rd Meeting of SEAC held on 18.08.2022. The details of the project furnished by the proponent are available on the website (www.parivesh.nlc.in).

The SEAC noted the following:

1. The Project Proponent, Dr. N. M. Veeraiyan has applied for Environmental Clearance for the Proposed Construction of Commercial Mall at S.F Nos: 66/3B, 66/6A3 & 66/6A4 of Sennerkuppam Village, Poonamallee Taluk, Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.


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PROJECT DETAILS					
S. No.	Description		Details		
1.	Name of the Project proponent and address		Dr. N. M Veeraiyan No. 162, Poonamallee High (By Pass) Road, Seneerkuppam, Chennai – 600 077.		
2.	Proposed Activity		Proposed Construction of Commercial Mall		
3.	Schedule No.		8 (a)		
4.	Project Location				
	i. Survey Nos.		66/3B, 66/6A3 & 66/6A4		
	ii. Revenue Village		Seneerkuppam		
	iii. Taluk		Poonamallee		
	iv. District		Tiruvallur		
	v. Latitude & Longitude		13° 03' 19.90" N & 80° 07' 25.40" E		
5.	Area of the Land		Total Land Area – 7,417.914 Sqm Total Ground Coverage Area of Buildings – 3,453.19 Sqm Roads and other Pavements Area – 1,972.81 Sqm STP, Transformer Yard and Other Utilities Area 487.074 Sqm Greenbelt development Area – 1,504.84 Sqm		
6.	Built up area		25,623.72 Sqm		
7.	Brief Description of the Project				
	The proposal involves the construction of commercial mall with a total built up area of 25,623.72 Sqm. The commercial complex will comprise of Retail Shops, Hyper Market, Multiplex Theatres (4 Screens), Gaming Zone & Food Court.				
	Details	FSI Area Sqm	Non FSI Area, Sqm	Total Built - Up Area, Sqm	Activity
	Basement 2		3,318.68	3,318.68	Parking
	Basement 1	-	3,318.68	3,318.68	Parking
	Ground Floor	2107.56	1,345.63	3,453.19	Retail Shops & Hyper Market

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	First Floor	2,871.31	591.74	3,463.05	
	Second Floor	2,782.28	630.65	3,412.93	
	Third Floor	2,907.31	557.61	3,464.92	
	Fourth Floor	1,030.59	697.57	1,728.16	Theatre (4 Screens)
	Fifth Floor	2,930.00	534.11	3,464.11	Game Zone, Shops
	Total Area, Sqm	14,629.05	10,994.67	25,623.72	Retail Shops, Hyper Market, Theatres (4 Screens), Gaming Zone & Food Court
8.	Expected Occupancies (Including Visitors)			3,632 Nos.	
9.	Greenbelt Area			1,504.84 Sqm	
10.	Parking Facilities			Four Wheelers – 303 Nos. Two Wheelers – 268 Nos. Parking Area – 6,637.36 Sqm	
11.	UTILITIES – WATER				
	Total Water Requirement			81 KLD	
	Source from where the fresh water is proposed to be drawn			Local Body – Seneerkuppam Village Panchayat	
	i. Domestic & Drinking Water Purposes (Fresh Water)			39 KLD	
	ii. Toilet Flushing (Recycled Water)			38 KLD	
	iii. Greenbelt (Recycled Water)			4 KLD	
12.	WASTE WATER				
	i. Sewage			69 KLD	
	ii. Details of Treatment			STP Capacity – 1 No. of 75 KLD (FBBR Technology) Bar Screen Chamber Equalization Tank Aeration Tank Secondary Settling Tanks Chemical Dosing Clarified Water Tank Pressure Sand Filter Activated Carbon Filter	

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		UV System Treated Water Tank Sludge Holding Tank
	iii. Mode of Disposal with Quantity	Treated Water i. Flushing - 38 KLD ii. Greenbelt development - 4 KLD iii. Avenue Plantation - 24 KLD
13.	SOLID WASTE	
	1) Municipal Solid waste	
	i. Bio Degradable – 290 kg/day	Converted into manure using Organic Waste Converter & utilized for greenbelt development
	ii. Non Bio degradable – 436 kg/day	Handed over to authorized recyclers
	iii. STP Sludge – 2 kg/week	Dried and used as manure for greenbelt development
	iv. E Waste – 456.4 kg/year	Handed over to authorized recyclers/ collection centres
14.	POWER REQUIREMENT	
	i. Electricity Board	2180 kVA from TNEB Grid
	ii. DG Sets	1000 kVA – 2 Nos.
	iii. Stack Height	39 m
15.	Provision of Rain Water Harvesting	Rain Water Storage Sumps – 139 KLD, 1 No. Rain Water Recharge Pits – 10 Nos.
16.	Project Cost	Rs. 37.618 Crores
17.	EMP Cost	Construction and Operation Phase Capital Cost – Rs. 189 Lakhs/Annum Operation Cost – Rs. 58 Lakhs/Annum
18.	CER Activities with the specific allocation of funds	Rs. 80 Lakhs

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

1. The project proponent shall explore the possibilities of shifting / moving the surface parking area proposed for 668.349 Sq.m (9.01 % of total plot area) to the basement area (1 & 2) or by adopting MLCP system. Details of the plan shall be furnished.


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2. The Surface parking area proposed for 668.349 Sq.m (9.01 % of total plot area) shall be converted into a Green belt area in addition to the Green belt area already proposed for 1,116.235 Sq.m (15.04 of total plot area). Totally 24.05 % of the total plot area shall be allotted for green belt development. Accordingly, the project proponent shall furnish the following:
 - i) Details of the revised green belt development plan and layout with the GPS co-ordinates.
 - ii) Details of revised land use break-up area.
 - iii) Details of the basement parking area.
3. Sewage treatment plant proposed should be above ground level.
4. A copy of the water (source water from the Thiruverkkadu Municipality supply) commitment letter obtained from the competent Authority shall be furnished.
5. The project proponent shall furnish a copy of the permission/ NOC obtained from the sister concern (Saveetha Dental University) for the utilization of treated sewage of 24 KLD for the Avenue plantation with area details and EMP shall be revised accordingly.
6. Details of the E-waste generation and disposal and management as per the e-waste management rules 2016.
7. Rainwater harvesting pits shall be re-designed considering the soil profile of the proposed site.
8. Species identified for Greenbelt development shall be revised considering the native species.
9. The project proponent shall furnish the following commitment in an affidavit:
 - i) 50 % utilization of solar power for street lights, etc from the total power consumption.
 - ii) will propose Air Cooled HVAC for the proposed mall
 - iii) we Will comply green building norms and obtain Indian Green Building Council) (IGBC) gold rating.
10. PP shall submit revised CER and EMP as discussed.


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Based on the PP's reply this proposal has again been placed in 326th SEAC meeting held on 4.11.2022. The PP has made the representation along with above said query.

Based on the presentation and document furnished by the proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance** subject to the following specific conditions in addition to normal conditions stipulated by MOEF&CC.

1. The project proponent shall obtain IGBC Gold rating for the construction project.
2. The project proponent shall maintain minimum 24.05% green belt as committed.
3. The fresh water shall be obtained from local body and the PP shall let out the treated sewage after obtaining necessary permission from competent authority.
4. The PP shall provide STP of capacity 75 KLD (FB8R Technology) in above ground level and treated sewage shall be utilized for Toilet flushing & Green belt development.
5. The 24 KLD of treated sewage will be utilized by M/s Saveetha dental College Hospital as committed.
6. The proponent shall provide OWC for bio-degradable waste and shall dispose the non- Biodegradable waste to authorized recyclers as committed.
7. The PP shall adopt air cooling HVAC system instead of water cooling system.
8. PP shall ensure that DG sets are run on green energy sources instead of Diesel.
9. The height of the stacks of DG sets shall be provided as per the CPCB norms.
10. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to TNPCCB before obtaining CTO.
11. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for Toilet flushing, Green belt development, OSR, and no treated water shall be let out of the premise.
12. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.


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13. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix, in consultation with the DFO, State Agriculture University. 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.
14. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted with 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.
15. The unit shall ensure the compliance of land use classification fit for construction.
16. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed.
17. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
18. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
19. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.

20. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
21. No waste of any type to be disposed of in any other way other than the approved one.
22. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
23. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines.
24. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
25. The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
26. The PP shall cover 50% of terrace area with solar panel and shall Solar energy should be at least 25% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
27. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall adhere the EMP as committed.
28. As accepted by the Project Proponent the CER cost is Rs. 80 lakhs and the amount shall be spent for the activities as committed by the proponent before CTO from TNPCB.


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Agenda No: 326-09

(File No: 9451/2022)

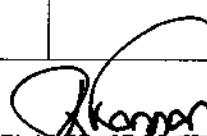
Proposed Construction of Group Development at Old S.No. 1014 part, 1015 Part, 1016 part, Old T.S.Nos.1/1 part (New T.S No. 1/9) & Old S.No. 1014/1 part Old T.S.No 1/3 part (New T.S.No 1/11), Ward B, Block No 24 of Madhavaram Village, Madhavaram Taluk, Tiruvallur District, Tamilnadu by M/s Hiliving Royal Hommes LLP – For Environmental Clearance. (SIA/TN/MIS/289702/2022 dated 3.11.2022)

This proposal was placed in this 326th Meeting of SEAC held on 4.11.2022. The details of the project furnished by the proponent are available on the website (www.parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, **M/s Hiliving Royal Hommes LLP** has applied for Environmental Clearance for the **Proposed Construction of Group Development at Old S.No. 1014 part, 1015 Part, 1016 part, Old T.S.Nos.1/1 part (New T.S No. 1/9) & Old S.No. 1014/1 part Old T.S.No 1/3 part (New T.S.No 1/11), Ward B, Block No 24 of Madhavaram Village, Madhavaram Taluk, Tiruvallur District, Tamilnadu.**
2. The project/activity is covered under Category "B" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.

Sl. No.	Details of the proposal	Data Furnished		
1.	Name of the Project	Proposed Construction of Group Development by M/s Hiliving Royal Hommes LLP		
2.	Location	Old S.No. 1014 part, 1015 Part, 1016 part, Old T.S.Nos.1/1 part (New T.S No. 1/9) & Old S.No. 1014/1 part Old T.S.No 1/3 part (New T.S.No 1/11), Ward B, Block No 24 of Madhavaram Village, Madhavaram Taluk, Tiruvallur District, Tamilnadu		
3.	Type of the Project	Building and Construction Projects Schedule 8 (a), Category "B"		
4.	Latitude and Longitude	S.No	Latitude	Longitude
		1.	13°8'43.28"N	80°14'9.77"E
		2.	13°8'42.18"N	80°14'15.26"E


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		3.	13°8'41.29"N	80°14'9.53"E																							
		4.	13°8'40.58"N	80°14'14.82"E																							
5.	Total area in sqm	9084 Sqm																									
6.	Built up Area	29,640.67 Sqm																									
7.	Cost of the Project	Rs.71.81 Crores																									
8.	Brief Description of the Project	<table><tr><th>Name of Block</th><th>Total Built Up Area</th></tr><tr><td>Block A (Combined Stilt+ 5)</td><td>3335.27</td></tr><tr><td>Block B (Combined Stilt+ 5)</td><td>3026.1</td></tr><tr><td>Block C (Combined Stilt+ 5)</td><td>3537.6</td></tr><tr><td>Block D (Combined Stilt+ 5)</td><td>4053.3</td></tr><tr><td>Block E (Combined Stilt+ 5)</td><td>4536.35</td></tr><tr><td>Block F (Combined Stilt+ 5)</td><td>3586.55</td></tr><tr><td>Combined stilt floor (Block A to Block F)</td><td>6813.16</td></tr><tr><td>Club House (with Block A)</td><td>744.34</td></tr><tr><td>Guard room</td><td>8</td></tr><tr><td>Grand Total (1+2)</td><td>29640.67</td></tr></table> Total number of Dwelling units- 221 Units				Name of Block	Total Built Up Area	Block A (Combined Stilt+ 5)	3335.27	Block B (Combined Stilt+ 5)	3026.1	Block C (Combined Stilt+ 5)	3537.6	Block D (Combined Stilt+ 5)	4053.3	Block E (Combined Stilt+ 5)	4536.35	Block F (Combined Stilt+ 5)	3586.55	Combined stilt floor (Block A to Block F)	6813.16	Club House (with Block A)	744.34	Guard room	8	Grand Total (1+2)	29640.67
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9.	a)Water Requirement (KLD)	<table><tr><th>S. No.</th><th>Details</th><th>Quantity (kLD)</th></tr><tr><td>1.</td><td>Total Water Requirement</td><td>168</td></tr><tr><td>2.</td><td>Fresh Water Requirement for domestic purposes</td><td>108</td></tr><tr><td>3.</td><td>Treated wastewater for Flushing</td><td>55</td></tr><tr><td>4.</td><td>Treated wastewater for Gardening</td><td>5</td></tr></table>				S. No.	Details	Quantity (kLD)	1.	Total Water Requirement	168	2.	Fresh Water Requirement for domestic purposes	108	3.	Treated wastewater for Flushing	55	4.	Treated wastewater for Gardening	5							
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4.	Treated wastewater for Gardening	5																									
10.	Quantity if Sewage KLD	Sewage Generation- 147 KLD Treated Water Generation- 140 KLD																									
11.	Details of Sewage Treatment Plant	STP of 150 KLD <table><tr><th>S.No</th><th>Description</th></tr><tr><td>1</td><td>Bar Screen Chamber</td></tr><tr><td>2</td><td>Equalization tank</td></tr><tr><td>3</td><td>SBR tank</td></tr><tr><td>4</td><td>Decanter Tank</td></tr><tr><td>5</td><td>Sludge Holding Tank</td></tr><tr><td>6</td><td>UF Feed Tank</td></tr><tr><td>7</td><td>UF Treated Water Tank</td></tr><tr><td>8</td><td>Treated Water Tank</td></tr></table>				S.No	Description	1	Bar Screen Chamber	2	Equalization tank	3	SBR tank	4	Decanter Tank	5	Sludge Holding Tank	6	UF Feed Tank	7	UF Treated Water Tank	8	Treated Water Tank				
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8	Treated Water Tank																										

12.	Mode of disposal of treated sewage with quantity	Toilet flushing- 55 KLD Green Belt Development- 5 KLD To CMWSSB sewer line- 80 KLD			
13.	Quantity of Solid waste generated per day, Mode of treatment and disposal of solid waste	S. No.	Description	Quantity (kg/day)	Mode of treatment / disposal
		1	Biodegradable (@40% of waste generated)	249	Will be treated in Organic Waste Converter and used as manure for gardening.
		2	Non - Biodegradable (@ 60% of waste generated)	374	Sent to authorized recyclers or local bodies for recycling
		3	STP sludge	22	will be used as manure for greenbelt development
14.	Power Requirement	1922.56 KVA from TANGEDCO			
15.	Details of DG set with capacity	Back-up power supply through DG sets : 1 No. x 320 kVA, 1 No x 160 KVA Capacities			
16.	Details of Green Belt Area	1353 sqm			
17.	Details of Parking Area	Details	No. of Car parking	No of two-wheeler parking	Area allotted for parking in (Sqm)
		1) Total number of Parking in Stilt	202	83	6813.16
		Total number of Parking required as per CMDA norms	202	83	-
		Total number of Parking provided	202	83	
18.	Provision for Rain water Harvesting	Total Rainwater runoff- 161 cum 150 cum Rainwater Storage tank			


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19.	EMP Cost (Rs.)	Construction Phase: Capital Expenses- Rs.18.25 Lakhs O & M cost- Rs. 5.68 Lakhs Operation Phase: Capital Cost- Rs.140.7 Lakhs Recurring Cost- Rs.25.8 Lakhs
20.	CER activities with the specific allocation of funds	Rs.36 Lakhs


Based on the presentation and document furnished by the proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance** subject to the following specific conditions in addition to normal conditions stipulated by MOEF&CC,

1. The project proponent shall obtain IGBC Gold rating for the construction project.
2. The fresh water shall be obtained from CMWSSB/local body and the PP shall let out the treated sewage after obtaining necessary permission from competent authority.
3. The PP shall provide STP of capacity 150 KLD (SBR Technology) and treated sewage shall be utilized for Toilet flushing & Green belt development. The excess treated sewage shall be disposed through CMWSSB sewer line.
4. The proponent shall provide OWC for bio-degradable waste and shall dispose the non- Biodegradable waste to authorized recyclers as committed.
5. PP shall ensure that DG sets are run on green energy sources instead of Diesel.
6. The height of the stacks of DG sets shall be provided as per the CPCB norms.
7. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to TNPCB before obtaining CTO.
8. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for Toilet flushing, Green belt development, OSR, and no treated water shall be let out of the premise.


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9. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.
10. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix, in consultation with the DFO, State Agriculture University. 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.
11. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted with 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.
12. The unit shall ensure the compliance of land use classification fit for construction.
13. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed.
14. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
15. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
16. The project proponent shall allot necessary area for the collection of E waste


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- and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
17. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
 18. No waste of any type to be disposed of in any other way other than the approved one.
 19. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
 20. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines.
 21. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
 22. The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
 23. The PP shall cover 50% of terrace area with solar panel and shall Solar energy should be at least 10% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
 24. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall adhere the EMP as committed.
 25. As accepted by the Project Proponent the CER cost is Rs. 36 lakhs and the amount shall be spent for the activities as committed by the proponent before CTO from TNPCB.


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Agenda No. 326 - 10.

File No. 9507/2022.

Proposed construction of Residential Building Complex at Block No. 7, T.S No. 2/1, 2/2, 2/3 Adayar Village, Guindy Taluk, Chennai District Tamilnadu by M/s. Baashyamm Infrastructure Pvt Ltd – For Terms of Reference (ToR). (SIA/TN/MIS/402106/2022) Dt:03.10.2022.

The proposal was placed in the 326th SEAC Meeting held on 04.11.2022. The details of the minutes are available in the website (parivesh. nic. in).

The SEAC noted the following:

1. The Proponent, **M/s. Baashyamm Infrastructure Pvt Ltd** has applied for Terms of Reference (ToR) for the Proposed construction of Residential Building Complex at Block No. 7, T.S No. 2/1, 2/2, 2/3 Adayar Village, Guindy Taluk, Chennai District Tamilnadu.
2. The project/activity is covered under category “B” of Item 8 (b) “Building and Construction” of the schedule to the EIA Notification 2006.
3. Total land area available is 22822 Sqm. The total built-up area of the proposal is
177762.34 Sqm.

SEAC pointed out that as the proposed site falls within 1 km radius of Guindy National Park, the project may have to be disallowed as per the Supreme Court's order as reported in 2022 Live law (SC) 540 dated 3rd June, 2022. The PP requested additional time to study the applicability of Supreme Court's order to the proposal under examination.

Hence the committee decided to defer the proposal.

Agenda No. 326 - 11.

(File No: 9108/2022)

Proposed additional construction of existing infrastructure facilities for Hospital, Institutional building and Hostels on plot bearing Survey Nos: S.No. 149/2 and 150/1 & 4 of Karambakkam Village, S.No. 39/2 & 4 of Chettairagaram Village and S.No.79/2, 80/2, 81 to 85, 86/2, 87 to 102, 103/2 and 104 to 109/1 & 2 of Thandalam Village of Greater Corporation of Chennai, Zone – XI, Division – 150 and S.No. 151/6, 163/5 & 6, 187/2, 188 to 221 of Ayyappan Thangal Village & S.No. 1 to 3


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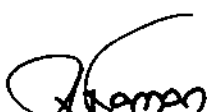

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of Thelliyaragaram Village, Sriperumpudur Taluk , Kundrathur Panchayat Union, Kanchipuram district and in S.No. 210/1 & 4 of Vanagaram Village, Ambattur Taluk, Villivakkam Panchayat Union, Ambattur Taluk, Tiruvallur District by M/s. Sri Ramachandra Educational And Health Trust – For Environmental Clearance. (SIA/TN/MIS/71548/2022), Dt:08.08.2022.

The minutes of 299th & 321st SEAC meetings 23.07.2022 & 14.10.2022 may kindly be seen. The proposal was placed in the 326th SEAC Meeting held on 04.11.2022. The details of the minutes are available in the website (parivesh.nic. in).

The SEAC noted the following:

1. Earlier, the PP has obtained EC vide Lr No. SEIAA /TN /F.No. 527/EC/8(b)/197/2012 Dt: 16.07.2013 & Extension of validity/Amendment vide Lr. No. SEIAA-TN/F-527/2012/A/-Ext/2016 Dt: 24.06.2016.
2. The Project proponent M/s.Sri Ramachandra Educational And Health Trust has applied for Terms of Reference for the proposed additional construction of existing infrastructure facilities for Hospital, Institutional building and Hostels vide (SIA/TN/MIS/71548/2022),Dt:29.01.2022.
3. The Project consists existing Built-up area of 393454.22 Sq. m & 133002.04 Sq. m. proposed Built-up area. Total Built up area after expansion 393454.22 + 133002.04 = 526456.26 Sq.m. The total land area 669604.19 Sq.m.(No additional land for the proposed expansion activity).
4. The project/activity is covered under Category "B" of item 8(b) "Building and Construction Projects" of the Schedule to the EIA Notification' 2006.
5. Auto ToR with public hearing generated on 21.04.2022. (As per paragraph 7(III) -1(d) EIA Notification, 2006 as amended – "Public consultation is exempted for all Building /Construction projects/Area Development projects and Townships (item 8).)
6. The project proponent, M/s. Sri Ramachandra Educational and Health Trust has applied for Environmental Clearance for the proposed additional construction of existing infrastructure facilities for Hospital, Institutional building and Hostels vide online proposal (SIA/TN/MIS/71547/2013), Dt:08.08.2022.


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7. Simultaneously, the project proponent vide Lr. Dt: 08.08.2022 has requested for withdrawal of online proposal (SIA/TN/MIS/71547/2013), Dt:08.08.2022 for the reasons stated therein.
8. Now, the project proponent, M/s. Sri Ramachandra Educational and Health Trust has applied for **Environmental Clearance with EIA report** for the proposed additional construction of existing infrastructure facilities for Hospital, Institutional building and Hostels vide online proposal (SIA/TN/MIS/71548/2022), Dt:08.08.2022.


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

1. The Proponent shall furnish the detailed report on emission, noise and vibration due to the operations of DG sets as proposed and the same shall be furnished to TNPCB before obtaining CTO and copy submitted to SEIAA-TN.
2. The building shall conform to minimum of IGBC Platinum building norms and shall obtain IGBC Platinum certificate in this regard before obtaining CTO from TNPCB.
3. The PP shall adopt IGBC Net Zero Water System.
4. The PP shall obtain fresh water supply commitment letter for the expansion activity from the CMWSSB before obtaining CTO.
5. The project proponent shall submit adequacy report for the proposed STP for the from reputed institutions like IITs, NIT Trichy, Anna university etc. before obtaining CTO from TNPCB.
6. The project proponent shall provide and maintain adequate capacity of Combined ETP and treated waste water shall be utilized for Toilet flushing, HVAC and green belt after meeting the standards prescribed TNPCB time to time as proposed and committed.


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7. The project proponent shall provide and maintain controlled green house, covering a minimum of ¼ acre, to grow organic vegetables for their hostel students, within the existing proposed project site.
8. The project proponent shall provide and maintain composting pits followed by bio-methanation plant for treatment and disposal of biodegradable waste.
9. The PP shall analyse the treated wastewater samples periodically through TNPCB.
10. The treated/untreated sewage water shall not be let-out from the unit premises.
11. The proponent shall provide adequate organic waste disposal facility such as organic waste convertor waste within project site as committed and non- Biodegradable waste to authorized recyclers as committed.
12. The height of the stacks of DG sets shall be provided as per the CPCB norms.
13. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. To TNPCB before obtaining CTO.
14. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for Toilet flushing, Green belt development & HVAC and no treated water be let out of the premise.
15. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.
16. The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.
17. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix, in consultation with the DFO, State Agriculture. The plant species with dense/moderate canopy


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of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.

18. Taller/one year old saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
19. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
20. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
21. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
22. No waste of any type to be disposed off in any other way other than the approved one.
23. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
24. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.
25. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.


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26. The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
27. The project proponent shall utilize 30 % & 50% of the open roof coverage area of the existing & proposed hostel buildings respectively for installation of Solar panel for harnessing green energy and shall be utilized maximum for illumination of common areas, street lighting etc before obtaining CTO.
28. The project proponent shall operate the DG sets with minimum of 30% of CNG substituted fuel to be achieved immediately and upto minimum 50% of CNG substituted fuel shall be adopted within next 3 years.
29. The project proponent shall form Environment Management Cell of qualified personals for continuous implementation and monitoring of EMP & recommendations stipulated by the competent authorities.
30. 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.
31. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall include demolishing plan & its mitigation measures in the EMP and adhere the same as committed.
32. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 accepted by the Project proponent, the revised CER cost is Rs. **300 Lakhs** and the 50% of the amount shall be spent in the 1st Year and remaining 50% in the 2nd Year for the 15 Nos. of Govt. Schools around the proposed site for Drinking Water facility, Provision toilets / Renovation of existing sanitation facility, Health Education, Smart classroom facility, Solid Waste Management facility, Solar power for common utilities & Green Belt development.

Agenda No. 326 - 12

File No. 9480/2022.

Proposed construction of Residential Building Complex at Old TS. No. 3, New S.F.No 6/1, 6/2 & 6/3, Block No 31 of Venkatapuram Village, Guindy Taluk, Chennai District, Tamilnadu by M/s. DLF IT Offices Chennai Private Limited – For Terms of Reference (ToR). (SIA/TN/MIS/81600/2022) Dt:03.08.2022.

The proposal was placed in the 326th SEAC Meeting held on 04.11.2022. The details of the minutes are available in the website (parivesh. nic. in).

The SEAC noted the following:

1. The Proponent, M/s. DLF IT Offices Chennai Private Limited has applied for Terms of Reference (ToR) for the Proposed construction of Residential Building Complex at Old TS. No. 3, New S.F.No 6/1, 6/2 & 6/3, Block No 31 of Venkatapuram Village, Guindy Taluk, Chennai District, Tamilnadu.
2. The project/activity is covered under category "B" of Item 8 (a) "Building and Construction" of the schedule to the EIA Notification 2006.
3. Total Plot area proposed – 22,484 Sqm. The total built-up area proposed – 1,61,473 Sqm. ((Blocks 6 Nos. of G+19 Floors each with Combined 3.nos. of basement floor & a Club House Block (G+2 Floor) with 421 Nos. of dwelling units.

SEAC pointed out that as the proposed site falls within 1 km radius of Guindy National Park, the project may have to be disallowed as per the Supreme Court's order as reported in 2022 Live law (SC) 540 dated 3rd June, 2022. The PP requested additional time to study the applicability of Supreme Court's order to the proposal under examination.

Hence the committee decided to defer the proposal.

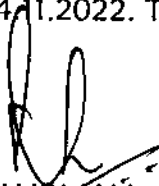
Agenda No. 326 - 13

File No. 9480/2022.

Amendment in the existing Black granite lease for an extent of 166.92.0 Ha at SF.No. 917(P), 921(p) Mahimandalam Village, Katpadi Taluk, Veilore District by M/s. TAMIN – For an amendment . (SIA/TN/CMIN/293127/2022) Dt:19.10.2022.

The proposal was placed in the 326th SEAC Meeting held on 04.11.2022. The details of the minutes are available in the website (parivesh. nic. in).


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The SEAC noted the following:


1. The Proponent, **M/s. TAMIN** has applied for amendment in the existing EC issued under violation category from MoEF& CC vide File No.23-203/2018-IA.III (V). Dt. 9.4.2021 with **valid up to 22.11.2022**.
2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of minerals" of the schedule to the EIA Notification 2006.

Now the PP has applied for amendment in the existing EC issued to Increase the recovery % from 10% to 20% without Changing RoM through online.

S.No	Events	Dates
1	Lease Granted : 20 Years. G.O (3D) No.21 Indus. (MMEI) Dept.	20.11.2002
2.	Lease expires [23.11.2022 to 22.11.2022]	22.11.2022
3.	Environmental Clearance obtained under violation Category from MoEF& CC File No.23-203/2018-IA.III (V). EC valid up to 22.11.2022	09.04.2021
4.	CTO obtained from TNPCB . Valid up to 22.11.2022	18.10.2021
5.	CCR obtained from Integrated Regional Office , MoEF&CC, Chennai	11.04.2022
7.	Revised Scheme of Mining-IV approved by Department of Geology and Mining, Tamil Nadu, vide letter No. Rc. No. 5387/MM4/2022.	18.10.2022

Based on the presentation made and documents furnished by the project proponent, the SEAC noted the Parappumalai RF is located within 1 KM from the proposed site and also the lease granted for the said proposal is due to expire on 22.11.2022. Therefore, the SEAC decided to not recommend the proposal.


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Agenda No: 326-TA-1

(File No: 6404/2020)

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

The proposal was placed in 302nd Meeting of SEAC held on 18.08.2022. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s.Dalmia Cement (Bharat) Limited has applied for Environmental Clearance for the proposed Lime stone quarry lease over an extent of 1.135 Ha S.F. Nos. 257/1 & 257/2 of Kallakudi Village, Lalgudi Taluk, Trichy District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. From the Review of Mining Plan approved by the competent authority, the mine was operated under deemed extension as per rule 24A(6) of MCR1960 but however as per the recent MMDR Amendment Act 2015, the validity of the mining lease is extended upto 31.03.2030. It has also been ascertained that the total production quantity should not exceed 27171 Tonnes which includes 20991 Tonnes of Lime stone and 6180 Tonnes of Marl with maintaining the annual peak production of 9978 Tonnes of Lime stone (5th year) and 2520 Tonnes of Marl (2nd year).
4. ToR obtained vide Lr. SEIAA-TN/F.No.6404/TOR-357/2018 dt. 17.05.2018.
5. Public Hearing held on 05.05.2022.

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

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


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In the view of above, A Subcommittee was formed by the Chairman, SEAC and the sub committee inspected the site on 15.10.2022.

Observations Made by the Sub-Committee:

1. The Sub Committee has visited Kallakudi Pit No. 1, Pit No. 2 and Kovandakurchi Pit No. 3 during the Inspection to have over all mining scenario in Kallakudi Region.
2. GO 262 Lease over an extent of 1.1356 Ha is one of the four Leases being operated in the Kallakudi Pit No. 1. It is wire fenced in all side.
3. As per Amended MMDR Act 2015, validity of the Lease is upto March 31, 2030.
4. Kallakudi settlements/habitations are observed in 50-150 m from Lease boundary in northern and eastern sides.
5. There was no mining activities in the Pit.
6. Rain water accumulated in the Pit and atleast 2 bottom most benches are covered in water, as noticed.
7. Other than the 2 Leases of <5 Ha extent, other Leases are having valid ECs, approved Mining Plans and Consents to Operate, as reported. Thus, the mining operations in the Pit are subjected to compliance of existing EC conditions and CTO conditions. As reports produced to the Sub Committee, the EC conditions were reportedly complied.
8. During Violation Period, Environmental friendly Mining activities, without Drilling & Blasting were carried out in the Lease.
9. There was no Top Soil and Over Burden generation during the Period and thus no waste dump in the Lease.
10. No Ground Water-table intersection as noticed in the existing benches of the Pit No. 1.
11. Dedicated Haul Roads from Mine Pit to NH-81 and from NH to the Cement Plant exists and no transportation through village road (even during the Violation Period).


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12. Green Belt, common for all 4 Leases, was developed along the periphery of Mine Pits including in Safety Barriers.
13. Water sprinklers are installed along the Haul Road and were working.
14. Dalmia has installed a good Tipper Tyre Cleaning Mechanism at Kallakudi Pit No. 2 (at a Cost of Rs.4.00 Lakhs) which is working good.
15. There is no Tyre Cleaning Mechanism at Kallakudi Pit No. 1.
16. Garland Drains are provided along the periphery but its maintenance has to be improved.
17. Green belt developed along the eastern side boundaries are infested with Procopius juliflora which are to be eradicated and additional green belt shall be developed.
18. An Eco Park is developed in an abandoned Mine Pit on Kallakudi Pit No. 2 area and maintained well by Dalmia for local people use.
19. Dalmia is carrying out various CSR activities in the Region as per CSR Policy of the Company, as reported.
20. An Occupational Health Centre/Hospital exists in the Township for Employees as well as for local people medical emergency.

Conclusions:

As the Proposal falls in Low Level Ecological Damage and EMP measures were in place (collectively for all Leases in Kallakudi Mine Pit No. 1) during the Violation Period, the Sub-Committee is of the opinion that the higher Environmental Compensation value has been arrived based on the CPCB Violation Norms (as proposed by the Proponent) is Rs.3,75,000/- which is higher than the other two estimations - (i) Environmental Compensation values of Rs. 55,000 based on the EIA model prepared by the EIA coordinator and (ii) Rs.1,07,825 arrived on SEAC-TN model. Therefore, the aforesaid value of Rs. 3,75,000/- must be compensated for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan as follows:

Sl. No.	Activity Proposed	Total, Rs.
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1	Ecological Damage Remediation Plan	1,75,000
2	Natural Resource Augmentation Plan	1,00,000
3	Community Resource Augmentation Plan	1,00,000
Grand Total		3,75,000

The Project Cost is Rs.27.84 Lakhs. CER Budget is estimated as 2% of the Project Cost i.e. Rs.55,680/-, say Rs.56,000/-. However, the PP had committed to provide the following budget towards the Corporate Environmental Responsibility (CER) during the SEAC appraisal meeting.

Name of the Village	Particulars	CER Amount
Kallakudi & Kovandakurichi Villages	Education & Repairs and Maintenance of School buildings, Upliftment of Toilet facilities for Girls Students, etc.	Rs.15.00 Lakhs
	Up-gradation of Primary Health Centres	
	Water Supply to the Villages	
	Maintenance of Village Roads	
	Skill Development, Coaching Centre for Training of Village Women for self-employment, facilitating the educated youths	
Direction of SEAC	Contribution to Ariyalur DFO, for providing infrastructure facilities at Karaivetti Bird Sanctuary	Rs.10.00 Lakhs
Total		Rs.25.00 Lakhs

Statutory procedures to be followed:


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1. The Bank Guarantee for Rs.3,75,000/- has to be given to TNPCB for successful implementation of the Schemes in 1 year period. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. CER fund of Rs. 25.00 Lakhs has to be spent by DCBL as committed during the appraisal and receipt has to be produced to SEAC/SEIAA-TN for awarding the EC.
3. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

RECOMMENDATIONS:

The SEAC Sub-Committee observed that the Mining of Limestone & Marl in an extent of 1.135 Ha SF No. 257/1, 257/2 for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the subcommittee opines the grant of Environmental Clearance for Mining of Limestone & Marl in an extent of 1.135 Ha SF No. 257/1, 257/2 of M/s. Dalmia Cements (B) Limited may be considered subject to the following conditions in addition to the normal conditions:

1. The amount prescribed for Ecological remediation (Rs.1.75 Lakhs), natural resource augmentation (Rs.1.00 lakhs) & community resource augmentation (Rs.1.00 Lakhs), totaling Rs. 3.75 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 3.75 Lakhs 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 project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of six months. If not, the bank guarantee will be forfeited to TNPCB without further notice.


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3. The amount committed by the Project proponent for CER (Rs. 25.00 Lakhs) shall be remitted in the form of DD to the beneficiary for the activities committed by the proponent for both the leases granted (1.135 Ha - SF No. 257/1, 257/2 and 0.28.5 Ha located at S.F.No. 256). A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.
4. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent 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.
5. The company shall obtain 'No Dues Certificate' from State Government i.e. Department of Geology & Mining within a period of two weeks and submit the same to SEAC before grant of EC.
6. The proposed action plan for green belt development shall be maintained in 33 % of the overall project area and accordingly the plantation shall be carried out in 8.02 Ha.
7. Bio remediation using microorganisms shall be carried out at the end of the mining to restore the soil environment to enable carbon sequestration.
8. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
9. 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.


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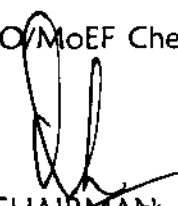

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The above Sub-committee report was placed in this 325th Meeting of SEAC held on 03.10.2022. After detailed deliberation, the SEAC accepted the recommendation of the Sub-committee and decided to recommend the proposal for grant of Environment Clearance for the total ROM production of 27171 tonnes which includes 20,991 tonnes of Limestone and 6180 tonnes of Marl with an ultimate depth of mining 31m below ground level and the annual peak production of 7578 tonnes of Limestone and 2520 tonnes of Marl subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The amount prescribed for Ecological remediation (Rs.1.75 Lakhs), natural resource augmentation (Rs.1.00 lakhs) & community resource augmentation (Rs.1.00 Lakhs), totalling Rs. 3.75 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 3.75 Lakhs 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.
3. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of six months. If not, the bank guarantee will be forfeited to TNPCB without further notice.
4. The amount committed by the Project proponent for CER (Rs. 25.00 Lakhs) shall be remitted in the form of DD to the beneficiary for the activities committed by the proponent which is common for both the leases granted (1.135 Ha located at SF No. 257/1, 257/2 and 0.28.5 Ha located at S.F.No. 256). A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.

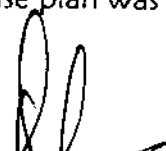
5. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent (details of case filed with case number) under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018 **before obtaining EC from SEIAA .**
6. The company shall obtain 'No Dues Certificate' from State Government i.e. Department of Geology & Mining within a period of two weeks and submit the same to SEAC before grant of EC.
7. The PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of the surface bench as it is designed to take care of run-off water (size, gradient and length).
8. The proposed action plan for green belt development shall be maintained in 33 % of the overall project area and accordingly the plantation shall be carried out in 8.02 Ha.
9. Bio remediation using microorganisms shall be carried out at the end of the mining to restore the soil environment to enable carbon sequestration.
10. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
10. The PP shall ensure that all the persons employed directly by him/her in the mines as well as the contractual labours undergo the vocational training on "Occupational Exposure to Noise and Vibration in Mines." in the Group Vocational Training Centre, Trichy before obtaining the CTO from TNPCB.
11. The PP shall conduct the Occupational health survey for all the persons employed in the mine including contractual labours and maintain the record indicating the status of their health condition once in six months and a copy of report of the same shall be submitted to the DEE/TNPCB, IRO/MoEF Chennai, SEIAA and DMS, Chennai.


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12. The PP shall carryout the studies pertaining to the Airborne Respirable Dust, Noise for the proposed mining operations and the Whole-Body Vibration (WBV) of the HEMMs used annually by involving a reputed Research and Academic Institution such as National Institute of Miners' Health - KGF, NIT Surathkal – Dept of Mining Engg, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
13. 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.
14. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed production of ROM ore in the mine under expansion as per the provisions of Mines Act 1952, Mines Rules 1955 and Metalliferous Mines Regulations, 1961.
15. The PP shall conduct the Occupational health survey for all the persons employed in the mine including contractual labours and maintain the record indicating the status of their health condition once in six months and a copy of report of the same shall be submitted to the DEE/TNPCB, IRO/MoEF Chennai, SEIAA and DMS, Chennai.
16. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall within one year of operation of commencement of mining operations, by involving a reputed Research and Academic Institution such as NIRM, IIT-Chennai, NIT Surathkal – Dept of Mining Engg, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
17. 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


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mentioned for total excavation i.e. quantum of ROM ore, waste, over burden, and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.

18. The proponent shall ensure that the surface of the benches mined out is suitably vegetated in scientific manner with the native species to maintain the slope stability, prevent erosion and surface run off. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps.
19. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt of atleast 10 m wide along the boundary of the quarrying site from the Highway and suitable working methodology for the same to be adopted by considering the wind direction.
20. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
21. Taller/one year old Saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper espacement 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.

22. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities like IBM, MoEF & CC, DMG, etc.
23. Machine-Induced Noise and Vibration: 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. Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone. The Proponent shall also ensure that the level of Noise & Body vibration of all the HEMM deployed in the mine are monitored periodically and the report on such periodic monitoring shall be submitted to the Integrated Regional Office (IRO), MoEF&CC, Chennai / the Regional Office of CPCB, Chennai once in 12 months.
24. The proponent shall undertake the activities of restoration, reclamation and rehabilitation of lands affected by the quarrying operations in a phased manner and shall complete this work before the conclusion of such operations and the relinquishment of the quarrying operations shall be carried out as assured in the Environmental Management Plan & the Mine Closure Plan approved by the Regional Controller of Mines, Indian Bureau of Mines, Chennai.
25. The proponent shall obtain the 'No objection Certificate' from the Regional Director, Central Ground Water Board (CGWB), Chennai when the quarrying operations interfere with the ground water table.
26. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to the Integrated Regional Office (IRO), MoEF & CC, Chennai / Regional office of CPCB, Chennai. The same shall be intimated to the local habitants through village panchayat.
27. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical

de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.

28. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
29. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried ROM ore; and transport of ROM ore will be as per IRC Guidelines with respect to complying with traffic congestion and density. Perennial maintenance of haulage road/village / Panchayat Road shall be carried out by the project proponent accordingly.
30. The Occupational health and safety are very closely related to productivity and good employer-employee relationship. The main factors of occupational health in mines are fugitive dust, noise, vibration and ergonomic problem. Safety of employees and maintenance of mining equipment is to be taken care of as per the Metalliferous Mines Regulations, 1961, Mines Rules, 1955 and Circulars of DGMS. To avoid any adverse effects, sufficient measures which include (i) Provision of rest shelters for mine workers with amenities like drinking water, toilets, etc.; (ii) Provision of personnel protection devices for the workers; (iii) Rotation of workers exposed to high noise areas; (iv) First-aid facilities.
31. The project proponent shall ensure that the provisions of the MMDR Act, 1957, and the MCDR 2017 are complied by carrying out the mining operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
32. The quarrying activity shall be stopped if the entire quantity of ROM ore indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and

- Mining), District Environmental Engineer (TNPCB), and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
33. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
34. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter as well as in the Precise area communication letter issued by concerned District Collector should be strictly followed.
35. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
36. The recommendation for the issue of environmental clearance is subject to the outcome of the Hon'ble NGT, Principal Bench, New Delhi in O.A.No.186 of 2016 (M.A.No.350/2016) and O.A.No.200/2016 and O.A.No.580/2016 (M.A.No.1182/2016) and O.A.No.102/2017 and O.A.No.404/2016 (M.A.No. 758/2016, M.A.No.920/2016, M.A.No.1122/2016, M.A.No.12/2017 & M.A.No.843/2017) and O.A.No.405/2016 and O.A.No.520 of 2016 (M.A.No.981/2016, M.A.No.982/2016 & M.A.No.384/2017).
37. 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.
38. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere the EMP as committed.
39. As accepted by the Project Proponent the revised CER cost is Rs. 25 lakhs and the amount shall be spent on the committed activities, before obtaining CTO from TNPCB.


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Agenda No: 326 - TA2

(File No. 6409/2022)

Proposed Limestone quarry over an Extent of 0.28.5 Ha located at S.F.No. 256 of Kallakudi Village, Lalgudi Taluk, Trichy District, Tamil Nadu by M/s. Dalmia Cement (Bharat) Limited for Environmental Clearance. (SIA/TN/MIN/76806/2018 dated: 16.05.2022)

The proposal was placed in this 326th Meeting of SEAC held on 04.11.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, M/s. Dalmia Cement (Bharat) Limited has applied for Environmental Clearance for the Limestone quarry over an Extent of 0.28.5 Ha located at S.F.No. 256 of Kallakudi Village, Lalgudi Taluk, Trichy District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B" – "Under Violation" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. ToR under violation issued vide SEIAA. Lr No. SEIAA-TN/F.No.6409/TOR- 495/2018 Dated: 13.06.2018.
4. As per MoEF&CC Notification S.O. 1247(E), dated the 18 March, 2021, *the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearances granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid.*
5. Public Hearing conducted date: 05.05.2022.
6. EIA Report submitted on 02.06.2022.
7. Earlier this proposal was placed in 309th SEAC meeting held on 02.09.2022. Based on the presentation made by the proponent, SEAC decided to call for additional details


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Within 1 km Radius, details regarding ~~the type of Agricultural~~ activities taking place near the proposed mine lease area and further details regarding the source of irrigation for the above said activities and number of activities dependent on Ground Water for irrigation purpose. The photograph of the activities taking place around the proposed mine lease area shall be submitted.

Since the ~~proposed mining is expected to intersect the Ground Water~~ Table, the PP shall submit a detailed Hydrology report indicating Number of open wells and tube wells along with the depth of the well, the time duration of pumping, time duration to recharge and the treatment facility provided to treat the water, effects of mining on GWT and details regarding the storage or utilization of the pumped-out water shall be submitted.

Data regarding the flow rate of ~~water supply from the proposed mine~~ lease area to the Natham village Tank shall be submitted.

The PP shall install the ~~Environmental Management Cell headed by~~ the statutory Mines Manager of the concerned quarry under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.

Further the Sub Committee shall inspect the site to assess the Environmental Damage Conditions and to check the Remedial Plan & Community Augmentation Plan (to restore the environmental damage caused including its social aspects) submitted by the PP.

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

Based on the above, The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Lr No. SEAC-TN/ MIN/76806/2018, to inspect and study the field condition for the proposal seeking EC for Mining of Limestone & Marl in an extent of 0.285 Ha in SF No. 256 at Kallakudi Village, Lalgudi Taluk,

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Trichy District. The Committee comprises of Thiru. K. Kumar, member SEAC and Dr. P. Balamadeswaran, member SEAC.

Salient Features of the Project

Particulars	Details
Name of Project	Kallakudi Limestone Mining Lease under GO No. 263
Project Proponent	M/s. Dalmia Cement (Bharat) Limited
Location of mine	Kallakudi Village SF No. 256
Category of Project	B1
Proposed Capacity per Annum	10368 TPA ROM
Mine Lease Area	0.285 Ha
Life of Mine	10 years
Total Working Day/Year	240 days
Total Number of workers employed	25
Total Water Requirement & Source	4 KLD Source collected rain water
Latitude & Longitude	10o58'37.26"-10o58'39.60" North Latitude & 78o56'40.02" -78o56'47.64" East Longitude
Topo Sheet number	58 J /13
Eco Sensitivity	Karaivetti Bird Sanctuary, Notified Eco Sensitive Area (ESA) vide S.O. 1909(E) dated 31.05.2019, is located at a distance of 9.6 km in east direction from the Lease. The shortest Eco Sensitive Zone (ESZ) of Karaivetti Bird Sanctuary is 8.7 km in ENE direction. There are no other Eco Sensitive Areas like National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Sites, Tiger/Elephant Reserves, Reserved Forests, etc. (existing as well as proposed) within 10 km from the Lease.
Type of Land	Govt. Poramboke land
Method of Mining	Non – Conventional Opencast Method of Mining without Drilling & Blasting using Rock Breakers
Bench parameters	Height 6.5-8.0 meters & Width 10 m
Depth of Mining	56 m BGL
Dimension of the Pit -Ultimate	132 (L) x 13.7 (W) x 56 m (D)
Nearest railway station	Kallakudi Palanganatham – 1 km (East)
Nearest Highway	Trichy-Chidambaram National Highway-81 adjacent in the west
Nearest air port	Trichy Airport at 30 km in southwest

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Particulars	Details
Seismic zone	Zone-III
Cost of the Project	Rs.11.51 Lakhs

Mining Lease Details

Sl. No.	ML Grant	ML Grant Reference	Validity		Remarks
			From	To	
1	Initial Grant	GO Ms No 4113 (ILC) dated 18.09.1956	01.06.1957	31.05.1977	
2	1 st Extension	GO Ms No 229 (Ind) dated 11.03.1978	01.06.1977	31.05.1982	
3	2 nd Extension	Ms. No.1205 (Ind) dated 27.09.1983	01.06.1982	31.05.1987	
4	3 rd Extension	GO Ms No 263 (Ind) dated 15.11.1995	01.06.1987	31.05.1997	Lease Deed executed on 30.05.1997
5	4 th Extension	Application submitted on 17.05.1996	01.06.1997	31.05.2017	
6	MMDR (Amend) Act, 2015	-	01.06.1987	31.03.2030	

Mining Plan Details

Sl. No.	Mining Plan/Scheme	Plan Period	Approval vide IBM Letter Reference
1	Mining Plan	01.04.2003 to 31.03.2008	TN/TCR/MP/LST-1485/SZ dated 23.07.2003


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2	1 st Scheme of Mining	01.04.2008 to 31.03.2013	TN/TCR//LST/MS-467/SZ/374 dated 18.03.2008
3	2 nd Scheme of Mining	01.04.2013 to 31.03.2018	TN/TCR/LST/MS-1041.MDS dated 07.04.2014
4	Review of Mining Plan	01.04.2018 to 31.03.2022	TN/TCR/LST/ROMP-1420.MDS dated 31.05.2017
5	Review of Mining Plan	01.04.2022 to 31.03.2027	TN/TCR/LST/ROMP-1682.MDS dated 02.12.2021

Details of Mining

Sl. No.	Particulars	Details
1	Method of mining	Non- Conventional Opencast Method of Mining (without Drilling & Blasting) using Rock breakers
2	Geological reserve	292,752 tonnes
3	Mineable reserve available- As on 01.09.2020	65,830 tonnes
4	Proposed production per Annum	10368 tonnes
5	Elevation range of the mine site	Top RL 88 m
6	Bench height	6.5-8.0 m
7	Bench width	10 m
8	Bench slope	70-80° to vertical
9	Proposed Depth of mining	56 m BGL (Bottom RL 32 m)
10	Life of mine	10 years

OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION


1. Sub Committee has visited Kallakudi Pit No. 1, Pit No. 2 and Kovandakurchi Pit No. 3 during the Inspection to have over all mining scenario in Kallakudi Region.
2. GO 263 Lease over an extent of 0.285 Ha is one of the four Leases being operated in the Kallakudi Pit No. 1. in its western part near NH-81.
3. Pit No. 1 is wire fenced in all side.


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4. As per Amended MMDR Act 2015, validity of the Lease is upto March 31, 2030.
5. Kallakudi settlements/habitations are observed in 50-150 m from Lease boundary in northern and eastern sides of Pit No. 1.
6. There was no mining activities in the Pit.
7. Rain water accumulated in the Pit and atleast 2 bottom most benches are covered in water, as noticed.
8. Other than the 2 Leases of <5 Ha extent, other Leases are having valid ECs, approved Mining Plans and Consents to Operate, as reported. Thus, the mining operations in the Pit are subjected to compliance of existing EC conditions and CTO conditions. As reports produced to the Sub Committee, the EC conditions were reportedly complied.
9. During Violation Period, environmentally friendly Mining activities, without Drilling & Blasting, were carried out in the Lease.
10. There was no Top Soil and Over Burden generation during the Period and thus no waste dump in the Lease.
11. No Ground Water-table intersection as noticed in the existing benches of the Pit No. 1.
12. Ultimate Pit depth at Conceptual Stage will be 56 m BGL. Ground Water-table in the Mine vicinity is found to be at 45 m BGL during Post monsoon Season and 50 m BGL during Pre monsoon Season. Thus, the Mining will intersect the ground water table.
13. As directed by SEAC, the EIA Coordinator and Officials of M/s. Thrust Geo-consultants Private Limited, an Accredited Ground Water Professionals for 'Hydrogeological Report for Mining Projects' by Central Ground Water Authority (CGWA) have carried out the Hydrogeological Survey including a Pumping Test during 03-04.09.2022 and submitted the Report.
14. As per the Hydrogeological Survey Report, monitored Ground Water Levels during the Premonsoon-2022 Season, were in-between 1.82 - 18.73 m BGL within 1-km, in-between 2.64- 11.00 m BGL in 1-3 km and in-between 0.80 - 16.27 m BGL in 3-5 km Areas. The mine pits are in relatively elevated area from the surroundings. Low Transmissivity of Limestone Benches do not allow any water seepage from nearby zones into Pits. It concluded that the operating Mines for the last 8 decades do not have negative impact on the Ground Water Regime in their vicinity.
15. Dedicated Haul Roads from Mine Pit No. 1 to NH-81 and from NH to the Cement Plant exists and no transportation through village road (even during the Violation Period).


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16. Green Belt, common for all 4 Leases, was developed along the periphery of Mine Pits including in Safety Barriers.
17. Water sprinklers are installed along the Haul Road and were working.
18. Dalmia has installed a good Tipper Tyre Cleaning Mechanism at Kallakudi Pit No. 2 (at a Cost of Rs.4.00 Lakhs) which is working good.
19. There is no Tyre Cleaning Mechanism at Kallakudi Pit No. 1.
20. Garland Drains are provided along the periphery but its maintenance has to be improved.
21. Green belt developed along the eastern side boundaries are infested with Procopius juliflora which are to be eradicated and additional green belt shall be developed.
22. An Eco Park is developed in an abandoned Mine Pit on Kallakudi Pit No. 2 area and maintained well by Dalmia for local people use.
23. Dalmia is carrying out various CSR activities in the Region as per CSR Policy of the Company, as reported.
24. An Occupational Health Centre/Hospital exists in the Township for Employees as well as for local people medical emergency.
25. Project Cost is Rs.11.51 Lakhs.

CONCLUSIONS:

As the Proposal falls in **Low Level Ecological Damage** and EMP measures were in place (collectively for all Leases in Kallakudi Mine Pit No. 1) during the Violation Period, the Sub-Committee is of the opinion that the higher Environmental Compensation value has been arrived **based on the CPCB Violation Norms** (as proposed by the Proponent) is **Rs.1,75,000/-** which is **higher than** the other two estimations - (i) Environmental Compensation values of **Rs. 30,000 based on the EIA model prepared by the EIA coordinator** and (ii) **Rs.34,200 arrived on SEAC-TN model**. Therefore, the **aforesaid value of Rs. 1,75,000/-** must be compensated for Remediation, Natural Resource

Sl. No.	Activity Proposed	Total, Rs.
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1	Cost of Ecological Damage Remediation Plan	75,000
2	Natural Resource Augmentation Plan	50,000
3	Community Resource Augmentation Plan	50,000
Grand Total		1,75,000

The Project Cost is Rs.11.51 Lakhs. CER Budget can be 2% of the Project Cost i.e. Rs.23,020/-, say Rs.23,000/-.

However, the PP had already committed to provide the following budget towards the Corporate Environmental Responsibility (CER) during the SEAC appraisal meeting.

Name of the Village	Particulars	CER Amount
Kallakudi & Kovandakurichi Villages	Education & Repairs and Maintenance of School buildings, Upliftment of Toilet facilities for Girls Students, etc.	Rs.15.00 Lakhs
	Up-gradation of Primary Health Centres	
	Water Supply to the Villages	
	Maintenance of Village Roads	
	Skill Development, Coaching Centre for Training of Village Women for self-employment, facilitating the educated youths	
Direction of SEAC	Contribution to Ariyalur DFO, for providing infrastructure facilities at Karaivetti Bird Sanctuary	Rs.10.00 Lakhs
Total		Rs.25.00 Lakhs

STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs.1,75,000/- has to be given to TNPCB for successful implementation of the Schemes in 1 year period. The Bank Guarantee will be


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released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.

2. CER fund of Rs.23,000/- has to be spent by DCBL directly and receipt has to be produced to SEAC/SEIAA-TN for awarding the EC.
3. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

RECOMMENDATIONS

The SEAC Sub-Committee observed that the Mining of Limestone & Marl in an extent of 0.285 Ha SF No. 256 for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the subcommittee opines the grant of Environmental Clearance for Mining of Limestone & Marl in an extent of 0.285 Ha SF No. 256 of M/s. Dalmia Cements (B) Limited may be considered subject to the following conditions

1. The Bank Guarantee for Rs.1,75,000/- has to be given to TNPCB for successful implementation of the Schemes in 1 year period. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. CER fund of Rs.23,000/- has to be spent by DCBL directly and receipt has to be produced to SEAC/SEIAA-TN for awarding the EC.
3. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.


The above Sub-committee report was placed in this 325th Meeting of SEAC held on 03.10.2022. After detailed deliberation, the SEAC accepted the recommendation of the Sub-committee and decided to recommend the proposal for grant of Environment Clearance for the total ROM production of 34,261 tonnes which includes 32,325 tonnes of Limestone and 1936 tonnes of Marl with an ultimate depth of mining 56 m below ground level and the annual peak production of 10368 tonnes of Limestone and 1936 tonnes of Marl subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


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1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The amount prescribed for Ecological remediation (Rs. 0.75 Lakhs), natural resource augmentation (Rs. 0.50 lakhs) & community resource augmentation (Rs. 0.50 Lakhs), totaling Rs. 1.75 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 1.75 Lakhs 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.
3. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of six months. If not, the bank guarantee will be forfeited to TNPCB without further notice.
4. The amount committed by the Project proponent for CER (Rs. 25.00 Lakhs) shall be remitted in the form of DD to the beneficiary for the activities committed by the proponent which is common for both the leases granted (1.135 Ha located at SF No. 257/1, 257/2 and 0.28.5 Ha located at S.F.No. 256). A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.
5. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent 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.
6. The company shall obtain 'No Dues Certificate' from State Government i.e. Department of Geology & Mining within a period of two weeks and submit the same to SEAC before grant of EC.
7. The PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of the


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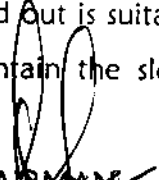
surface bench as it is designed to take care of run-off water (size, gradient and length).

8. The proposed action plan for green belt development shall be maintained in 33 % of the overall project area and accordingly the plantation shall be carried out in 8.02 Ha.
9. Bio remediation using microorganisms shall be carried out at the end of the mining to restore the soil environment to enable carbon sequestration.
9. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
10. The PP shall ensure that all the persons employed directly by him/her in the mines as well as the contractual labours undergo the vocational training on "Occupational Exposure to Noise and Vibration in Mines," in the Group Vocational Training Centre, Trichy before obtaining the CTO from TNPCB.
11. The PP shall conduct the Occupational health survey for all the persons employed in the mine including contractual labours and maintain the record indicating the status of their health condition once in six months and a copy of report of the same shall be submitted to the DEE/TNPCB, IRO/MoEF Chennai, SEIAA and DMS, Chennai.
12. The PP shall carryout the studies pertaining to the Airborne Respirable Dust, Noise for the proposed mining operations and the Whole-Body Vibration (WBV) of the HEMMs used annually by involving a reputed Research and Academic Institution such as National Institute of Miners' Health - KGF, NIT Surathkal – Dept of Mining Engg, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
13. 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.

14. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed production of ROM ore in the mine under expansion as per the provisions of Mines Act 1952, Mines Rules 1955 and Metalliferrous Mines Regulations, 1961.
15. The PP shall conduct the Occupational health survey for all the persons employed in the mine including contractual labours and maintain the record indicating the status of their health condition once in six months and a copy of report of the same shall be submitted to the DEE/TNPCB, IRO/MoEF Chennai, SEIAA and DMS, Chennai.
16. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall within one year of operation of commencement of mining operations, by involving a reputed Research and Academic Institution such as NIRM, IIT-Chennai, NIT Surathkal – Dept of Mining Engg, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
17. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of ROM ore, waste, over burden, and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
18. The proponent shall ensure that the surface of the benches mined out is suitably vegetated in scientific manner with the native species to maintain the slope


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stability, prevent erosion and surface run off. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps.

19. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt of atleast 10 m wide along the boundary of the quarrying site from the Highway and suitable working methodology for the same to be adopted by considering the wind direction.
20. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
21. Taller/one year old Saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper espacement 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.
22. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities like IBM, MoEF & CC, DMG, etc.
23. Machine-Induced Noise and Vibration: 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. Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone. The Proponent shall also ensure that the level of Noise & Body vibration of all the HEMM deployed in

the mine are monitored periodically and the report on such periodic monitoring shall be submitted to the Integrated Regional Office (IRO), MoEF&CC, Chennai / the Regional Office of CPCB, Chennai once in 12 months.

24. The proponent shall undertake the activities of restoration, reclamation and rehabilitation of lands affected by the quarrying operations in a phased manner and shall complete this work before the conclusion of such operations and the relinquishment of the quarrying operations shall be carried out as assured in the Environmental Management Plan & the Mine Closure Plan approved by the Regional Controller of Mines, Indian Bureau of Mines, Chennai.
25. The proponent shall obtain the 'No objection Certificate' from the Regional Director, Central Ground Water Board (CGWB), Chennai when the quarrying operations interfere with the ground water table.
26. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to the Integrated Regional Office (IRO), MoEF & CC, Chennai / Regional office of CPCB, Chennai. The same shall be intimated to the local habitants through village panchayat.
27. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
28. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
29. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried ROM ore; and transport of ROM ore will be as per IRC Guidelines with respect to complying with traffic congestion and density. Perennial maintenance of haulage


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road/village / Panchayat Road shall be carried out by the project proponent accordingly.


30. The Occupational health and safety are very closely related to productivity and good employer-employee relationship. The main factors of occupational health in mines are fugitive dust, noise, vibration and ergonomic problem. Safety of employees and maintenance of mining equipment is to be taken care of as per the Metalliferous Mines Regulations, 1961, Mines Rules, 1955 and Circulars of DGMS. To avoid any adverse effects, sufficient measures which include (i) Provision of rest shelters for mine workers with amenities like drinking water, toilets, etc.; (ii) Provision of personnel protection devices for the workers; (iii) Rotation of workers exposed to high noise areas; (iv) First-aid facilities.
31. The project proponent shall ensure that the provisions of the MMDR Act, 1957, and the MCDR 2017 are complied by carrying out the mining operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
32. The quarrying activity shall be stopped if the entire quantity of ROM ore indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining), District Environmental Engineer (TNPCB), and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
33. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
34. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter as well as in the Precise area communication letter issued by concerned District Collector should be strictly followed.


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35. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
36. The recommendation for the issue of environmental clearance is subject to the outcome of the Hon'ble NGT, Principal Bench, New Delhi in O.A.No.186 of 2016 (M.A.No.350/2016) and O.A.No.200/2016 and O.A.No.580/2016 (M.A.No.1182/2016) and O.A.No.102/2017 and O.A.No.404/2016 (M.A.No.758/2016, M.A.No.920/2016, M.A.No.1122/2016, M.A.No.12/2017 & M.A.No.843/2017) and O.A.No.405/2016 and O.A.No.520 of 2016 (M.A.No.981/2016, M.A.No.982/2016 & M.A.No.384/2017).
37. 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.
38. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere the EMP as committed.


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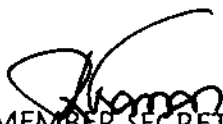
ANNEXURE-I

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


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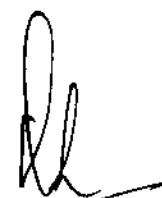
7. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
8. The Project Proponent shall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


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13. **Noise and Vibration Related:** (i) The Proponent shall carry out only the Controlled Blasting operation using NONEL shock tube initiation system during daytime. Usage of other initiation systems such as detonating cord/fuse, safety fuse, ordinary detonators, cord relays, should be avoided in the blasting operation. The mitigation measures for control of ground vibrations and to arrest fly rocks should be implemented meticulously under the supervision of statutory competent persons possessing the I / II Class Mines Manager / Foreman / Blaster certificate issued by the DGMS under MMR 1961, appointed in the quarry. No secondary blasting of boulders shall be carried out in any occasions and only the Rock Breakers (or) other suitable non-explosive techniques shall be adopted if such secondary breakage is required. The Project Proponent shall provide required number of the security sentries for guarding the danger zone of 500 m radius from the site of blasting to ensure that no human/animal is present within this danger zone and also no person is allowed to enter into (or) stay in the danger zone during the blasting. (ii) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
14. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
15. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
16. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.


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17. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
18. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
19. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.
20. The Project proponent shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flora, fauna etc.
21. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
22. The project proponent shall ensure that the provisions of the MMRD, 1956, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
23. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
24. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the


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Project Proponent liable for legal action in accordance with Environment and Mining Laws.

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


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Appendix -I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விவ்வம்
2	<i>Adonanthura parviflora</i>	Manjadi	மஞ்சாடி ஆனைக்குன்றம்
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>	Aathu	ஆத்து
7	<i>Bauhinia tomentosa</i>	Iruvathu	இருவாத்து
8	<i>Euchlanthus axillaris</i>	Kattuma	காட்டும்மா
9	<i>Borassus flabellifer</i>	Parai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax esiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புனை
13	<i>Cassia fistula</i>	Sarakondrai	சரகொன்றை
14	<i>Cassia torburelun</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon strictum</i>	Puramaram	புரம் மரம்
16	<i>Codiospermum religiosum</i>	Kongu, Manjalilavu	கோங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Nannuli	நன்னுளி
18	<i>Croton adansonii</i>	Mavalungum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	Suru Uva, Sitruza	சுரு உவா
21	<i>Diospyros ebenum</i>	Karungali	கருங்காலை
22	<i>Diospyros chloroxylon</i>	Vagavai	வாகவை
23	<i>Ficus amplissima</i>	Kallitchi	கல் இச்சி
24	<i>Hibiscus tiliaceus</i>	Aatrupoovarasu	ஆற்றுப்புவரசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aavili	ஆவா மரம், ஆயில்
27	<i>Lamnea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstrœmia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottamaram	நெய் கொட்டை மரம்
30	<i>Linum acidissima</i>	Vilamaram	விலா மரம்
31	<i>Litsea glutinosa</i>	Pimpattai	அம்பா பிச்சைபட்டை
32	<i>Madhuca longifolia</i>	Illupai	இலுப்பை
33	<i>Mamillaria hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitrasopha parvifolia</i>	Kadambari	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுணா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுணா
38	<i>Phoenix sylvestris</i>	Eachai	எச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்


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40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunnai	நறு முன்னை
42	<i>Premna tomentosa</i>	Malaipoovarasu	மலை பூவரசு
43	<i>Presopis cinerea</i>	Varri maram	வன்னி மரம்
44	<i>Pterocarpus marsipium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vernangu, Tada	வேண்ணாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	பூலவு
47	<i>Puthanipora roxburghii</i>	Karipala	கற்பலா
48	<i>Salvadora persica</i>	Ugaa Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Manpurigan Soapukai	மணிப்புங்கன் சோப்புக்காய்
50	<i>Sanea asoca</i>	Asoca	அசோகா
51	<i>Strobilus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தன் கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தான்றி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேண் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Theospsia populnea</i>	Puvarasu	பூவரசு
59	<i>Walsura trifoliata</i>	valsura	வாலசுரா
60	<i>Wrehtia tinctoria</i>	Veppalai	வேப்பாலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கோடுக்காப்புளி


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

-----கரங்கம்

கரங்கங்களில் குவாரி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது. E 44, ----- தேதியிடப்பட்டு சுற்றுச்சூழல் அனுமதி ----- தேதி வரை செல்லத்தக்கதாக உள்ளது.

பகனம் பகுதி வளர்ச்சி	குவாரியின் எல்லைளையச் சுற்றி வேலி அமைக்க வேண்டும்.
மேம்பாட்டுக்கான கரங்கத் திட்டம்	கரங்கப்பாடலின் ஆழம் தளமட்டத்திலிருந்து பீட்டர்க்கு மிகமல் இருக்க வேண்டும்.
	காற்றில் மாக ஏற்படாதவாறு கரங்க பணிகளை மேற்கொள்ள வேண்டும்.
நடப்பட்டு	வாகனங்கள் செல்லும் பாதையில் மாக ஏற்படாத அளவிற்கு தண்ணீரை முறையாக தண்ணீர் லாரிகளின் மூலமாக அவ்வப்போது தெளிக்க வேண்டும்.
பராமரிக்கப்பட வேண்டிய மரங்கள் எண்ணிக்கை:	இரைச்சல் அளவையும் தூசி மாகபாடலையும் குறைப்பதற்காக குவாரியின் எல்லையை சுற்றி அடர்த்தியான பகனம் பகுதியை ஏற்படுத்த வேண்டும்.
	கரங்கத்தில் வெடி வைக்கும்பொழுது நில அதிர்வுகள் ஏற்படாதவாறும் மற்றும் சுற்கள் பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை உன்னிப்பாக செயல்படுத்தப்பட வேண்டும்.
	கரங்கத்தில் இருந்து ஏற்படும் இரைச்சல் அளவு 85 டிபிபிஎஸ் (dBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.
	கரங்க சட்ட விதிகள் 1955ன் கீழ் கரங்கத்தில் உள்ள பணியாளர்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு சுகாதாரமுள்ள கழிப்பறை வசதிகளை செய்து தர வேண்டும்.
	கிராமம் அல்லது பஞ்சாயத்து வட்டியாக வாகனங்கள் செல்லும் சாலைகளைத் தொடர்ந்து நன்கு பராமரிக்க வேண்டும்.
	கரங்கப்பணிகளால் அருகில் உள்ள விவசாயப் பணிகள் மற்றும் நீர்நிலைகள் பாதிக்கப்படக் கூடாது.
	நீர்நிலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் திடத்தடி திரின் தூத்தினை தொடர்ந்து அணுகாணிக்க வேண்டும்.
	கரங்கத்திலிருந்து கனிம பொருட்களை எடுத்துச் செல்லது கிராம மக்களுக்கு எந்தத் சிரமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் சுற்றுச்சூழல் பாதிக்கவாத வண்ணம் வாகனங்களை இயக்க வேண்டும்.
	கரங்கப்பணிகள் முடிக்கப்பட்டவுடன் காவசு மூடல் திட்டத்தில் உள்ளவாறு கரங்கத்தினை மூட வேண்டும்.
	கரங்க நடவடிக்கைகளை முடித்தபின்னர் கரங்கப் பகுதி மற்றும் கரங்க நடவடிக்கைகளால் இடையூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமானம் செய்து தாவரங்கள் விலங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பகனம்பகுதியை உருவாக்க வேண்டும்.
	முழுமையான நிபந்தனைகளை அறிய பாரிவேஷை http://parivesh.nic.in என்கிற இணையதளத்தைப் பார்வையிடவும். மேலும் எந்தவித சுற்றுச்சூழல் சார்ந்த புகார்களுக்கும் சென்னையில் உள்ள சுற்றுச்சூழல் மற்றும் வன அமைச்சகத்தின் ஓரங்குவிலைந்த வட்டார அலுவலகம்: 044 - 28222225 (அல்லது) தமிழ்நாடு மாக கட்டுப்பாடு வாரியத்தின் மாவட்ட சுற்றுச்சூழல் பொறியாளரை அணுகவும்.


MEMBER SECRETARY
SEAC - TN


CHAIRMAN
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