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# **MINUTES**

## **649<sup>th</sup> MEETING**

### **STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY-TAMIL NADU**

**Date: 23.08.2023**

**MINUTES OF THE 649<sup>th</sup> MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT  
ASSESSMENT AUTHORITY HELD ON 23.08.2023.**

<b>Agenda No</b>	<b>Description</b>	<b>File No.</b>	<b>Minutes</b>
a)	Confirmation of the minutes of the 648 <sup>th</sup> meeting of the Authority held on 22.08.2023.		The minutes of the 648 <sup>th</sup> meeting of the Authority held on 22.08.2023 was confirmed.
b)	The Action taken on the decisions of the 648 <sup>th</sup> meeting of the Authority held on 22.08.2023.		The Member Secretary informed that 648 <sup>th</sup> Minutes uploaded in Parivesh website and action taken report will be put up ensuing meeting.
1.	Expansion of additional facilities in addition to the existing building by M/s. Cancer Institute (WIA) at T.S.No. 1/2 of Block no 12, T.S. No. 1/2, 2/2, 3/2, of block No.13, T.S.No. 4/1 and T.S.No. 1/2 of Block No.15 Guindy Park Village, Mambalam - Guindy Taluk, Chennai District, Tamil Nadu by M/s. Cancer Institute (WIA) - For Environmental Clearance Non-Compliance.	3154	The proposal was placed in the 398 <sup>th</sup> SEAC Meeting held on 04.08.2023.  During the meeting the Committee noted that neither the project proponent nor the consultant attended the meeting. Hence the subject was not taken up for appraisal and committee decided that the project proponent should furnish the reason for his absence.  In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary to communicate the minutes of 398 <sup>th</sup> SEAC held on 04.08.2023 to the project proponent.
2.	File No: 9020 Existing High rise building for residential purposes in S. No. 17/1B1B, 17/1B2B, 17/2B1, 17/2B2, 17/2B3, 23/1, 23/2, 23/3, 26/5A, 26/8, 27, 28/2, 28/3, 29/1, 30/1, 30/2A, 30/2B1, 30/2B2, 30/2B3, 31/1B, 31/2A1A, 31/2A1B, 31/2A2, 31/2B2, 31/3A, 31/3B, 31/4B, 33/2B, 33/3B, 33/4, 34/1A, 34/1B, 34/2A, 34/2B, 34/3, 34/4A, 34/4B, 34/5A, 34/5B, 34/6A1, 34/6A2, 34/6B, 34/7A, 34/7B, 34/8A, 34/8B, 35/1B, 35/2B of Kovilambakkam Village, Tambaram Taluk, Chengalpet district, Tamil Nadu by M/s Emerald Haven Towers Limited- For amendment in Environmental Clearance (SIA/TN/MIS/301616/2023)  The authority noted that the proposal was earlier appraised in the 398 <sup>th</sup> SEAC meeting held on		

  
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04.08.2023.

Based on the presentation & documents furnished by the PP, SEAC decided to **recommend for the grant of the following amendment in the Environmental Clearance**, issued subject to following specific conditions.

Description	AS PER EC	Amendment recommended
Quantity of Sewage KLD	Grey Water Treatment Plant – 390 KLD Sewage Treatment Plant – 215 KLD	STP capacity – 605 KLD
Energy Conservation Measures	The proponent shall obtain minimum of 4-star rating in Green Rating for Integrated Habitat Assessment (GRIHA Rating).	The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
Statutory Compliance	The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to TNPCB before CTO.	The earlier issued condition remains unchanged. The proponent shall adhere to the condition as stated therein.


1. The PP shall operate & maintain the STP in the capacity of 605 KLD of SBR Technology for the period of 10 years.
2. The remaining conditions as stipulated vide EC Letter No. SEIAA-TN/F.No. 9020/EC/8(a)/861/2022 dated: 22.08.2022 is unaltered.

The Authority after detailed deliberation accepts the recommendation of SEAC and decided to grant amendment subject to the following conditions

Description	AS PER EC	Amendment recommended
Quantity of Sewage KLD	Grey Water Treatment Plant – 390 KLD Sewage Treatment Plant – 215 KLD	STP capacity – 605 KLD
Energy Conservation Measures	The proponent shall obtain minimum of 4-star rating in Green Rating for Integrated Habitat Assessment (GRIHA Rating).	The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.

  
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Statutory Compliance	The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to TNPCB before CTO.	The earlier issued condition remains unchanged. The proponent shall adhere to the condition as stated therein.
Brief Description of the project	The proposal consists - 4 blocks of combined basement floor + stilt floor + 18 Floors and the total no. of dwelling units is with 820 Nos with total built-up area of 1,22,961.65 Sq. m. with plot area _ 26565 Sq. m.	The proposal consists - 4 blocks of combined basement floor + stilt floor + 18 Floors and MLCP – G + 5 Floors + Terrace and the total no. of dwelling units is with 820 Nos with total built-up area of 1,22,961.65 Sq. m. with plot area _ 26565 Sq. m.

1. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.
2. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspection.
3. All other conditions as stipulated vide EC Letter No. SEIAA-TN/F.No. 9020/EC/8(a)/861/2022 dated: 22.08.2022 remains unaltered.

3.	Existing Construction of Mixed-Use Development (Residential & Commercial) at T.S.No.2, Block No.4 of Arumbakkam Village, Aminjikkarai Taluk (Earlier Egmore – Nungambakkam Taluk),	7627	The proposal was placed in the 398 <sup>th</sup> SEAC Meeting held on 04.08.2023. During the meeting the Committee noted that neither the project proponent nor the consultant attended the meeting. Hence the subject was not taken up for appraisal and committee decided that
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	Chennai District, Tamil Nadu by M/s. Tamil Nadu Housing Board – Environmental Clearance issued - Compliance of Hon'ble National Green Tribunal (SZ) order – Appeal No. 10 of 2021 (SZ).		the project proponent should furnish the reason for his absence. In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary to communicate the minutes of 398 <sup>th</sup> SEAC held on 04.08.2023 to the project proponent.
4.	Proposed Construction of High-Rise Residential building by M/s. Casa Grande Civil Engineering Private Limited at T. S. No. 156/4 of Perambur Village, Perambur Taluk, Chennai District Tamil Nadu - For Environmental Clearance. (SIA/TN/INFRA2/434015/2023)	10182	The proposal was placed in the 398 <sup>th</sup> SEAC Meeting held on 04.08.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the conditions stated therein. After detailed discussions, the Authority decided to request the Member Secretary, SEIAA-TN to obtain the following details and place before the Authority for further course of action. <ol style="list-style-type: none"> <li>1. The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the local body /TWAD.</li> <li>2. The company shall have a well laid down environmental policy duly approved by the Board of Directors.</li> <li>3. A detailed traffic management and traffic decongestion plan from reputed Research and Academic Institution such as NIRM, IITs, NITs, Anna University Chennai-CEG Campus etc., shall be submitted.</li> <li>4. The PP shall furnish the fire Noc.</li> <li>5. The PP shall furnish Disaster Management Plan and Evacuation plan.</li> </ol>

  
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			<p>6. The proponent shall provide details of sufficient grass lawns, Indoor games, Gym and play facilities for children.</p> <p>7. The PP shall furnish details regarding number of visitor's parking that are provided within the premises &amp; a detailed layout of the parking provided shall be furnished.</p> <p>Upon the receipt of above said details, further deliberation shall be done.</p>
5.	<p>Proposed Expansion of Existing Hotel and lodging house complex by M/s. SAS Hotels &amp; Enterprises Ltd at S.F.Nos. 358/1A, 2, 3A, 3B, 4, 5A, 5B, 6A, 6B, 7A, 7C, 8A1, 8A2, 8B, 9A1, 11A1, 11A2, 11A3, 11B, 11C, 11D, 11E, 15, 16, 18, 359/1B2, 2C3(part), 2D1, 2D3, 3(part), 5(part), 7(part), 359/8 of Ayanpappakudi Village, Madurai South Taluk, Madurai District, Tamil Nadu - For Environmental Clearance.</p> <p>(SIA/TN/INFRA2/424873/2023)</p>	9976	<p>The proposal was placed in the 398<sup>th</sup> SEAC Meeting held on 04.08.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the conditions stated therein. After detailed discussions, the Authority decided to request the Member Secretary, SEIAA-TN to obtain the following details and place before the Authority for further course of action.</p> <p>8. The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the local body /TWAD.</p> <p>9. The company shall have a well laid down environmental policy duly approved by the Board of Directors.</p> <p>10. A detailed traffic management and traffic decongestion plan from reputed Research and Academic Institution such as NIRM, IITs, NITs, Anna University Chennai-CEG Campus etc., shall be submitted.</p> <p>11. The PP shall furnish the fire Noc.</p>

  
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			<p>12. The PP shall furnish Disaster Management Plan and Evacuation plan.</p> <p>13. The proponent shall provide details of sufficient grass lawns. Indoor games. Gym and play facilities for children.</p> <p>14. The PP shall furnish details regarding number of visitor's parking that are provided within the premises &amp; a detailed layout of the parking provided shall be furnished.</p> <p>Upon the receipt of above said details, further deliberation shall be done.</p>
6.	<p>Proposed Expansion and construction of data centre building by M/s. Evita Constructions Private Limited at S.F.Nos. : 2/1, 2/2, 2/3, 3/1, 7, 8/1, 8/2B, 14/5A1, 14/5A2, 14/5B, 14/6, 16/1, 16/2, 17/1, 17/2, 17/3A1, 17/3A2, 17/3B, 17/4, 17/5A, 17/5B, 17/6, 17/7A, 17/7B, 17/8A, 17/8B, 17/9, 17/10, 17/11, 17/12, 17/13A, 17/13B, 20/1, 20/2, 20/3B, 20/4B, 21/1A, 21/1B, 21/2, 22, 23/1, 23/2, 23/3, 23/4B, 23/5C, 23/6A, 23/6B, 24/1B, 25/4C, 26/1C, 48/1C3, 48/1D2, 48/1E2, 48/1F, 48/2 of Senthamangalam Village, Chengalpet Taluk, Chengalpet District, Tamil Nadu by M/s. Evita Constructions Private Limited - For Environmental</p>	10117	<p>The authority noted that the subject was appraised in the 398<sup>th</sup> SEAC meeting held on 04.08.2023. SEAC has furnished its recommendations to the authority for granting environmental clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Environmental Clearance subject to the conditions as recommended by SEAC &amp; normal conditions and conditions in Annexure 'C' of this minutes in addition to the following conditions:</p> <p>i) This EC is approved in modification of the earlier EC issued vide Lr.No. SEIAA/TN/F.No.8507/EC/8(a)/779/2021 dated 13.08.2021.</p>

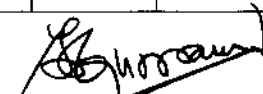
  
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	Clearance. (SIA/TN/INFRA21/431821/2023)		
7.	Proposed Construction of Residential High-Rise Group development in S.F.Nos 89/1A1, 93/1A, 93/1B1, 93/1B2, 93/1C1B, 94/2 & 95/11 of Karanai Village, Vandalur Taluk, Chengalpet District, Tamilnadu by M/s. Casagrand Builder Private Limited – For Environmental Clearance, (SIA/TN/INFRA2/435659/2023)	10201	The authority noted that the subject was appraised in the 398 <sup>th</sup> SEAC meeting held on 04.08.2023. SEAC has furnished its recommendations to the authority for granting environmental clearance subject to the conditions stated therein. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Environmental Clearance subject to the conditions as recommended by SEAC & normal conditions and conditions in Annexure 'C' of this minutes in addition to the following conditions: i) The proponent shall furnish adequate space for children's play area. ii) The proponent shall obtain NOC from Water Resource Department for Inundation before obtaining CTE from TNPCB. iii) The proponent shall strictly abide to the conditions imposed in the water commitment letter issued by the competent authority.
8.	Proposed construction of office building at Block No. 7, T.S No. 2/1, 2/2, 2/3 of Adyar Village, Guindy Taluk, Chennai District, Tamil Nadu by M/s. Baashyaam Infrastructure Private Limited – For Environmental Clearance. (SIA/TN/INFRA2/434428/2023)	10014	The authority noted that this proposal was placed for appraisal in 398 <sup>th</sup> meeting of SEAC held on 04.08.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein. After detailed discussion, SEIAA decided to obtain the following additional details from the PP. 1. The PP shall furnish the commitment letter obtained from the CMWSSB for the supply of fresh water and for the disposal of excess

  
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			<p>treated sewage for the proposed construction project.</p> <ol style="list-style-type: none"> <li>2. The PP shall furnish the water balance for HVAC application and HVAC details with capacity proposed for the said construction project.</li> <li>3. The PP shall furnish the Traffic congestion study &amp; Traffic NOC obtained from the competent authority.</li> <li>4. The PP shall furnish the details regarding the implementation of Environment Management Cell for the proposed construction project.</li> <li>5. The company shall have a well laid down environmental policy duly approved by the Board of Directors.</li> <li>6. The PP shall furnish the Disaster Management Plan.</li> <li>7. The PP shall furnish NOC obtained from the PWD in regard to River Adyar inundation point considering 2015 flood level since the proposed construction site is located at 100m.</li> </ol>
9.	Proposed construction of additional Block of Ground floor (Anechoic Chamber) Mezzanine floor (Air Plenum), 1st floor and 2nd floor (Office) and proposed 2nd floor over the existing R&D building with an installation of 3090 HP to the earlier existing blocks 1 to 12, warehouse & R&D building with an installation of 3910 HP at S. No. 175 (part) of Ernavoor Village,	10198	<p>The Authority noted that the subject was appraised in the 398<sup>th</sup> meeting of SEAC held on 04.08.2023. Based on the documents furnished and the presentation made by the proponent, the SEAC, after detailed deliberations, decided to obtain the following details, as neither the EIA Coordinator nor the person representing the PP could give the details asked for in the meeting,</p> <ol style="list-style-type: none"> <li>1. The PP shall furnish <b>certified compliance report</b> obtained from the TNPCB for the earlier CTE and CTO issued.</li> </ol>

  
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	<p>S.No. 6/1A1 of Tiruvottiyur Village in T.S. No. 3, 5/1A, 5/2A Block No. 1, Ward No. 1 of Thiruvottiyur, Wimco Nagar, Ennore Express Road, Chennai-600019, Thiruvallur District, Tamil Nadu by M/s. MRF Limited- For Clearance under CRZ Notification 2011. (SLA/TN/INFRA2/433358/2023.)</p>		<p>2. The PP shall submit the details of case pending in Application No.224 of 2021 filed by Thiru MR. Thiyagarajan against M/s. MRF Limited on the existing clearance issued by TNSCZMA on the Tyre testing facility and warehouse in the same warehouse.</p> <p>3. The PP shall furnish the details of R&amp;D activities undertaken in the existing R&amp;D facility, including ant new technologies developed, patents regidtered, research papers published etc.</p> <p>4. The PP shall furnish the details of activities in the existing warehouse with videographic proof of the same.</p> <p>On receipt of the above, further deliberations will be carried out. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.</p> <p>In view of the above, the Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 04.08.2023.</p>
10.	<p>Proposed for Development of Industrial Park/SEZ over an extent of 489.04 Ha (1207.92 Acres) at S.F.Nos.463/1A1A, 463/1A1B etc., of Peruvalayam Village, S.F.Nos.302, 303, etc., of Nedumpuli Village, S.F.Nos.1/1, 4, etc., of Thuraiyur Village,</p>	10204	<p>The Authority noted that the subject was appraised in the 398<sup>th</sup> meeting of SEAC held on 04.08.2023. The SEAC <b>decided to recommend the proposal for the grant of Terms of Reference (TOR)</b>, subject to the TORs, in addition to the standard terms of reference for EIA study and details issued by the MOEF &amp; CC to be included in EIA/EMP Report.</p>

  
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	S.F.Nos.2/1A, 2/1B, etc., of Agavalam Village (Annexure-II), Nemili Taluk, Ranipet District, Tamil Nadu by M/s. State Industries Promotion Corporation of Tamil Nadu Limited - For Terms of Reference (SIA/TN/INFRA2/434694/2023).		<p>After detailed discussion, the Authority accepted the recommendation of SEAC and decided to grant of Terms of Reference as recommended by SEAC for undertaking the Environment Impact Assessment Study and preparation of Environment Management Plan subject to the conditions as recommended by SEAC in addition to the following conditions and conditions stated therein vide Annexure 'D':</p> <ol style="list-style-type: none"> <li>1. Status Report on litigations, if any pertaining to the project and acquired status of land pertaining to all the Survey nos. shall be furnished.</li> <li>2. The project proponent shall enumerate on the details of the trees available in the area and its species.</li> <li>3. The project proponent shall conduct detailed study of biodiversity flora &amp; fauna including invasives /endemic vulnerable species.</li> <li>4. Study on impact of the project on water table, water bodies, drainage pattern and soil erosion pattern.</li> <li>5. The proponent shall ensure that no agriculture &amp; Horticulture land is acquired for this project.</li> </ol>
11.	Proposed Construction of Residential Building - Mother's Village at S.F.Nos.537/2, 538, 539/1, 539/2, 541/1, 541/4 & 544/10 of Singanallur Village, Coimbatore South Taluk, Coimbatore District, Tamil Nadu by M/s. Mount Kailash Properties -	10114	The Authority noted that the subject was appraised in the 398 <sup>th</sup> meeting of SEAC held on 04.08.2023 and SEAC decided to issue the following Terms of Reference along with submission of assessment of ecological damage, remediation plan and natural and community resource augmentation plan, as per Notification vide S.O.804(E) Dt. 14.3.2017. Terms of Reference

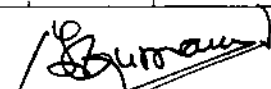
  
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<p>For Terms of Reference under Violation. (SIA/TN/INFRA2/428311/2023).</p>	<p><b>are issued subject to final orders of the Hon'ble High Court of Madras in the matter W.P.(MD) No. 11757 of 2021.</b></p> <p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) under violation category for undertaking the Environment Impact Assessment Study and preparation of Environment Management Plan subject to the standard terms of reference in addition to the conditions as recommended by SEAC &amp; following conditions in addition to the conditions in 'Annexure D' of this minute. Further, this ToR granted will be legally subject to the outcome of the case W.P (MD). No. 11757 of 2021 pending before Hon'ble Madurai Bench of the High Court of Madras.</p> <ol style="list-style-type: none"> <li>1. The PP shall furnish an Independent Chapter 13 as per the MoEF &amp; CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural &amp; community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.</li> <li>2. As a part of procedural formalities as per the MoEF &amp; CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under</li> </ol>
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			section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
12.	Proposed Construction of High-Rise Residential Building at T.S.No. 156/3 of Perambur Village, Perambur Taluk, Chennai District, Tamil Nadu by M/s. Casagrand Builder Private Limited - For Environmental Clearance. (SIA/TN/INFRA2/433006/2023).	10144	<p>The Authority noted that the subject was appraised in the 398<sup>th</sup> meeting of SEAC held on 04.08.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the conditions stated therein. After detailed discussions, the Authority decided to request the Member Secretary, SEIAA-TN to obtain the following details and place before the Authority for further course of action.</p> <ol style="list-style-type: none"> <li>1. The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the local body /TWAD.</li> <li>2. The company shall have a well laid down environmental policy duly approved by the Board of Directors.</li> <li>3. A detailed traffic management and traffic decongestion plan from reputed Research and Academic Institution such as NIRM, IITs, NITs, Anna University Chennai-CEG Campus etc., shall be submitted.</li> <li>4. The PP shall furnish the fire Noc.</li> <li>5. The PP shall furnish Disaster Management Plan and Evacuation plan.</li> <li>6. The proponent shall provide details of sufficient grass lawns, Indoor games, Gym and play facilities for children.</li> <li>7. The PP shall furnish details regarding number of visitor's parking that are provided within the</li> </ol>

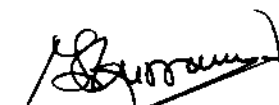
  
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			<p>premises &amp; a detailed layout of the parking provided shall be furnished.</p> <p>In view of the above, Authority decided to request the Member Secretary, SEIAA to communicate the minutes to the project proponent.</p>
13.	<p>Proposal for establishment of Common Bio-Medical Waste Treatment Facility at S.F.No. 123/4B at Nayapakkam Village, Uthukottai Taluk, Tiruvallur District, Tamil Nadu by M/s. Greater Chennai Bio Medical Waste Management Private Limited - For Environmental Clearance.</p> <p>(SIA/TN/INFRA2/429117/2023)</p>	7990	<p>The Authority noted that the subject was appraised in 398<sup>th</sup> meeting of SEAC held on 04.08.2023. Based on the documents submitted and presentation made by the project proponent along with the consultant, the SEAC, after detailed discussions, <b>decided not to recommend for the grant of Environmental Clearance for the project</b> for the following reasons:</p> <ol style="list-style-type: none"> <li>1. While selecting the location of the project site for establishment of CBMWTF, the PP has not followed the siting criteria guidelines for Management of Healthcare Waste as per Biomedical Waste Management Rules, 2016 issued by the Directorate General of Health Services, Ministry of Health &amp; Family Welfare and Central Pollution Control Board. The PP has not obtained prior approval from TNPCB for the location of project site.</li> <li>2. The proposed location is in the close proximity of two main drinking water sources for Chennai city, namely, (1) <b>Poondi Lake</b> that is located at 1.38km and (2) <b>Telugu Ganga canal</b> at a distance of 340m.</li> <li>3. Local villagers of Nayapakkam Village have vehemently opposed the establishment of CBMWTF in their village during public hearing and through petitions.</li> </ol>

  
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			<p>4. The Tribal people who live in the area, namely Irulas have stated in a representation that the site and the surrounding area are used by them as grazing ground for their livestock.</p> <p>5. The Grama Sabha has also opposed the establishment of the facility in the proposed site, vide their Resolution dated 26.01.2023.</p> <p>6. The PCCF has rejected N.O.C in reference in his letter no. TS1/10750/2022, dated. 02.08.2022, for the establishment of CBMWTF as Nayapakkam Reserve Forest is located at a distance of 220m which is surrounded by Red Sanders plantations, rich wildlife and many water bodies.</p> <p>7. The proposed site is surrounded by all the three important constituents of any land-based ecosystem i.e., forest, wildlife and water bodies and the establishment will be detrimental to the ecology of the area.</p> <p>The Committee, however, noted that there is a need for increasing the capacity of biomedical waste treatment, in the context of increase in number of hospitals and hospital beds and the project proponent may, therefore, resubmit the proposal afresh with alternative suitable project site.</p> <p>The Authority, after detailed discussions, accepted the recommendations of the SEAC and decided to reject the project proposal.</p>
14.	Proposed for the construction of residential development in S.No. 90/1, 90/2, 92/2, 91/1A2, 91/2B, 91/3B, 91/1A1, 91/1B, 91/2A,	9110	The Authority noted that the subject was appraised in 398 <sup>th</sup> meeting of SEAC held on 04.08.2023 and SEAC has furnished its recommendations for the

  
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	<p>91/3A, 92/1, 95/2, 94/2B, 95/1B, 94/1B, 95/1A, 99/4,105, 94/2B, 95/1B, 96,104, 94/1A, 94/2A, 99/3 of Valasaravakkam Village, Maduravoyal Taluk Chennai District, Tamil Nadu by M/s.Landmark Metro Projects Pvt. Ltd. - For Environmental Clearance. (SIA/TN/MIS/72653/2022)</p>		<p><b>grant of Environmental Clearance</b> for the project subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority decided to seek the following additional particulars from the Project Proponent:</p> <ol style="list-style-type: none"> <li>1. The PP shall furnish reason for filing a new ToR application for this project and when the same is pending, the PP has applied additionally this EC application.</li> <li>2. The PP shall furnish the copy of fresh water supply commitment letter and disposal of excess treated water from the local body /Metro Water/TWAD.</li> <li>3. The PP shall furnish copy of NoC obtained from AAI, Departments of Fire, Traffic and Disaster Management.</li> <li>4. The PP shall furnish the environmental policy approved by the Board of Directors.</li> </ol> <p>On receipt of the details sought above, the Authority will further deliberate and decide on future course of action.</p>
15.	<p>Proposed Construction of Residential Building with 470 dwelling units at Dr. Thomas Road in old T.S. no 6578 part, new T.S no 6578/2 part of Block No. 141, in T.Nagar Village, Chennai District, Tamil Nadu by M/s. Tamil Nadu by Urban Habitat Development Board - For Environmental Clearance. (SIA/TN/INFRA2/435906/2023)</p>	10205	<p>The Authority noted that the subject was appraised in 398<sup>th</sup> meeting of SEAC held on 04.08.2023 and SEAC has furnished its recommendations for the <b>grant of Environmental Clearance</b> for the project subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority accepted the recommendations of SEAC and decided to <b>grant Environmental Clearance</b> as recommended by the SEAC subject to the conditions stated therein &amp; the normal conditions stated in <u>Annexure C</u> in addition to the following conditions:</p>

  
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		<ol style="list-style-type: none"> <li>1. The proponent shall deploy cost-effective technology to reduce GHG emissions.</li> <li>2. The proponent shall adopt strategies to develop carbon-neutral or zero-carbon building.</li> <li>3. The proponent shall adopt strategies to reduce emissions during operation (operational phase and building materials).</li> <li>4. The proponent shall adopt strategies to decarbonize the building.</li> <li>5. The proponent shall adopt strategies to maintain the health of the inhabitants.</li> <li>6. The proponent shall adopt strategies to reduce electricity demand and consumption.</li> <li>7. The proponent shall provide provisions for automated energy efficiency.</li> <li>8. The proponent shall provide provisions for controlled ventilation and lighting systems.</li> <li>9. The proponent shall adopt strategies to reduce temperature including the Building Façade.</li> <li>10. The proponent shall adopt methodologies to effectively implement the Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste Management Rules, 2016, &amp; Batteries (Management and Handling) Rules, 2001.</li> </ol>
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		<ol style="list-style-type: none"> <li>11. The proponent shall provide solar panels and contribute to the grid from the solar panel as proposed.</li> <li>12. The proponent shall adopt methodology to control thermal environment and other shocks in the building.</li> <li>13. The proponent shall adopt strategies to reduce anthropogenic GHGs such as CO<sub>2</sub>, CH<sub>4</sub>, nitrous oxide, etc., resulting from human activities.</li> <li>14. The database record of environmental conditions of all the events from pre-construction, construction and post-construction should be maintained in digitized format.</li> <li>15. There should not be any impact due to the modification of the habitat on critically endangered species, biodiversity, etc.,.</li> <li>16. The proponent should develop an emergency response plan in addition to the disaster management plan.</li> <li>17. The proponent should maintain environmental audits to measure and mitigate environmental concerns.</li> <li>18. The proponent shall develop building-friendly pest control strategies by using non chemical measures so as to control the pest population thereby not losing beneficial organisms.</li> <li>19. The proponent shall ensure that the proposed activities in no way result in the spread of invasive species.</li> <li>20. As per the 'Polluter Pay Principle', the proponent will be held responsible for any environmental damage caused due to the</li> </ol>
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			<p>proposed activity including withdrawal of EC and stoppage of work.</p> <p>21. The proponent shall develop detailed plan to reduce carbon footprints and also develop strategies for climate proofing and climate mitigation.</p> <p>22. The proponent shall adopt strategies to ensure that the buildings in blocks do not trap heat and become local urban heat islands.</p> <p>23. The proponent shall adopt sustainability criteria to protect the micro environment from wind turbulences and change in aerodynamics since high rise buildings may stagnate air movements.</p> <p>24. The proponent shall adopt strategies to prevent bird hits.</p> <p>25. The proponent shall ensure that the building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues.</p> <p>26. The proponent shall develop detailed evacuation plan for disabled people and a safety evacuation plan in emergencies.</p>
16.	Proposed Rough Stone & Gravel quarry lease over an extent of 4.83.50 at SF.No. 270/13, 270/14A, 270/14B, 270/3, 271/1B(P), 271/1C, 271/1D, 271/1E, 271/2(P), 271/3(P), 271/4(P), 271/5, 271/6, 271/7, 272/1, 276/1A, 276/1B and 276/2 of Kattankulam Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu by M/s. Sri	9964	<p>The authority noted that this proposal was earlier placed for appraisal in 637<sup>th</sup> Authority meeting held on 11.07.2023 and noted that SEAC recommended the proposal for the grant of Environmental Clearance in 387<sup>th</sup> meeting of SEAC held on 28.06.2023 subject to the certain conditions. The Authority in its 637<sup>th</sup> meeting raised ADS. The PP has submitted reply for SEIAA ADS.</p> <p>After detailed discussions, SEIAA observed that, this PP &amp; EIA Co-ordinator have manipulated the</p>

  
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<p>Thaiyalnayagi Earth Movers Private Limited - for Environmental Clearance.</p>	<p>records letter of AD mines which has given details of existing and proposed quarry. In the signed PPT presented before SEAC committee they have removed the details of the existing quarry, thereby falsifying records and data provided before the Committee and Authority and applied as "B2" category instead of "B1" category. This may please be examined and action may be initiated and suggested.</p> <p>In view of these, the authority decided to refer back the proposal to SEAC for re-appraisal/ seeking clarifications on the above said points.</p>
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17. File No: 9357  
Proposed Rough stone and gravel Quarry lease over an extent of 2.02.0 Ha at S.F.No. 482/2C in Munnur Village, Pugalur Taluk, Karur District, Tamilnadu by Tmt.N.Latha - For Terms of Reference.

The authority noted the following:

1. Earlier, the subject was placed in the 603<sup>rd</sup> authority meeting held on 20.03.2023 & 21.03.2023. The authority decided that the PP shall clarify the following from Director of Geology and Mining:
  - a) Whether the resources are exhausted in the two quarries belonging to P.Senthilkumar and R.Natrajan located in the cluster?
  - b) Whether these two quarries can be called as abandoned quarries as per the G.O (Ms). No.23 dated.23.02.2022 of Industries (MMC.1) Department?
2. The proponent, vide letter dated.01.08.2023, has submitted the following documents/letters to the above queries raised by the Authority in its 603<sup>rd</sup> meeting.
  - i) A letter from Deputy Director, Dept. of G&M dated.31.07.2023. The details furnished in the letter of Deputy Director are as follows:

**I. Existing quarries: -**

Sl.No	Name of the lesse/ firm holder	Name of the mineral	Taluk & Village	S.F.No	Extent (hect)	Lease period
1	--Nil--					

**II. Proposed Quarries: -**

  
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Sl.No	Name of the lesse/ firm holder	Name of the mineral	Taluk & Village	S.F.No	Extent (hect)	Lease period
1	Tmt.N.Latha, W/o. Natarajan, Door No.6/67A, Ganapathypalayam Vettamangalam West cross Street, Pugalur Taluk, Karur District.	Rough stone	Pugalur Taluk & Munnur Village	482/2C (Part)	2.02.0	Proposed area

**III. Expired Quarries: -**

Sl.No	Name of the lesse/ firm holder	Name of the mineral	Taluk & Village	S.F.No	Extent (hect)	Lease period
1	Thiru.P.Senthilkumar S/o.Periyasamy (late) Majara Salipalayam Kuppuchipalayam Village Aravakurichi Taluk Karur District.	Rough stone	Pugalur Taluk & Munnur Village	478/A (P) 478/B1 (P)	2.54.0	14.07.2016 to 13.07.2021  Last permit obtained on 04.05.2021.  No further application received by this office as on date.
2	R.Natarajan, S/o Ramasamygounder, Vettamangalam Melpagam Village,	Rough stone	Pugalur Taluk & Munnur Village	481/1 Part 481/2 Part	1.61.0	23.6.2017 to 22.6.2022

  
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	<p>Ganapathipalayam, Manmangalam Taluk, Karur District.</p>				<p>Last permit obtained on 20.12.2021.</p> <p>No further application received by this office as on date.</p> <p>Further, the ex-lessee has submitted affidavit stating that he will not renew/ re-apply the application for quarrying of rough stone over an extent of 1.61.00 hectares Munnur Village, Pugalur Taluk, Karur District.</p>
<p>IV. Abandoned Quarries: -</p>					


  
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SI.No	Name of the lesse/ firm holder	Name of the mineral	Taluk & Village	S.F.No	Extent (hect)	Lease period
1	K.Periyasamy Salipalayam Aravakurichi, Karur.	Rough stone	Pugalur Taluk & Munnur Village	478/A 484/3A 485/3B	1.21.5	10.03.2010 to 09.03.2015
<p>ii) An affidavit dated.20.07.2023 obtained from Thiru. R. Natarajan stating that he will not renew/ reapply the application for quarrying of rough stone in the lease area over an extent of 1.61.0 hectares.</p> <p>The authority, after carefully taking into consideration the revised cluster letter of Deputy Director dated.31.07.2023 &amp; the affidavit from Thiru.R.Natarajan dated. 20.07.2023, decided to accept the proponent's request to consider the proposal under 'B2' category. Hence, the proponent shall apply accordingly.</p>						
18.	<p>File No: 9695</p> <p>Proposed Rough stone &amp; Gravel quarry lease over an extent of 1.14.9 Ha in S.F.Nos 54/1B1A, 64/4B, 64/4D &amp; 64/5B1 in Kulasekarankottai Village, Vadipatti Taluk, Madurai District, Tamilnadu by Thiru.M.K.Annadurai – For Environmental Clearance</p> <p>The authority noted the following:</p> <ol style="list-style-type: none"> <li>1. Earlier, the subject was placed in the 633<sup>rd</sup> authority meeting held on 26.06.2023 &amp; 27.06.2023. The authority noted that the subject was appraised in the 383<sup>rd</sup> SEAC meeting held on 15.06.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</li> </ol> <p>The Authority, after carefully examining the KML file and the recommendations/ conditions specified by the SEAC, noted that <b>structures/habitations not belonging to the proponent are located within a distance of 300m</b> from the proposed project site. Therefore, the authority after detailed discussions decided to consider the proposal after obtaining some additional particulars from the project proponent as mentioned in the minutes.</p> <ol style="list-style-type: none"> <li>2. Subsequently, the proponent, vide letter dated.14.08.2023 has furnished a letter obtained from Assistant Director (i/c), Dept. of G&amp;M, dated.19.06.2023, stating the details of structures located within 300m radius from the proposed quarry site.</li> <li>3. The details of structures furnished by the Assistant Director (i/c) in his letter dated.19.06.2023 are as follows:</li> </ol>					

  
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0-100m	No Structures
100-200m	One farm house with cow shed at 190m
200-300m	One coir factory at 210m Two farm houses at 280m 2 farm houses, 5 houses, 19 small sheds at a distance of 220 to 280m

Based on the details furnished by the proponent, the authority decided that the proponent shall furnish the NOC obtained as per para 36 (1-A) under section V of Tamil Nadu Minor Mineral Concession Rules, 1959.

On receipt of the same, further deliberations will be done.

19. File No: 517

Proposed construction of Residential Building Complex entitled "MARG Brindavan" at S.No: 88/1, 91/1, 2, 121/1B, 2B, 122/1A, 1B1, 2B, 3, 123/4B, 5B, 498/1B, 499/1, 2, 3, 4, 5, 6, 7, 8, 500/1A, 1B, 2A, 3, 4A, 5A, 6B, 501/4B, 8, 9, 10B of Pondur 'B' Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu by M/s. MARG Properties Limited- For Environmental Clearance

The Authority noted the following:

1. The Proponent, **M/s. MARG Properties Limited** has applied to SEIAA-TN for ToR under violation notification dated: 08.03.2018 of MoEF & CC on 31.03.2018, for the construction of Residential Building Complex entitled "MARG Brindavan" with built up area of 2,65,000 Sq.m at S.No: 88/1, 91/1, 2, 121/1B, 2B, 122/1A, 1B1, 2B, 3, 123/4B, 5B, 498/1B, 499/1, 2, 3, 4, 5, 6, 7, 8, 500/1A, 1B, 2A, 3, 4A, 5A, 6B, 501/4B, 8, 9, 10B of Pondur 'B' Village, Sriperumbudur Taluk, Kancheepuram District, Tamilnadu.
2. The ToR was issued by SEIAA vide Lr.No.SEIAA-TN/F.No.517/SEAC-CXIII/Violation/ToR-496/2018 dated:14.06.2018.
3. Based on the ToR, the proponent submitted the EIA report to SEIAA-TN on 13.07.2018. The EIA report was placed in the 117<sup>th</sup> SEAC meeting held on 27.07.2018. Based on the presentation made by the proponent, the Committee decided to recommend the proposal to SEIAA for grant of post construction EC subject to the following conditions in addition to the normal conditions:
  - The amount prescribed for Ecological remediation (Rs. 107.88 lakhs), natural resource augmentation (Rs. 43.15 lakhs) & community resource augmentation (Rs. 64.72 lakhs), totalling Rs. 215.75 lakhs shall be remitted in the form of bank guarantee to Tamil Nadu Pollution Control board, before obtaining Environmental

  
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Clearance and submit the acknowledgement of the same to SEIAA-TN. The funds should be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.

- 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.
  - The amount specified as CER (Rs. 107.88 Lakhs) shall be remitted in the form of DD to the beneficiary before issue of EC for the following activities. A copy of receipt from the beneficiary shall be submitted before issue of EC.
  - Certificate for structural safety from Stability certificate should be obtained from reputed institutions like Anna University, IIT, NIT, Central Universities, Government Engineering colleges, PWD & Structural Engineering Research Centre of Government of India before obtaining CTO from TNPCB.
  - The treated excess sewage of 663 KLD should be used for watering the trees in the avenue plantation along the Sriperumbudur- Singaperumal Koil State highway (the stretch of the highway from Sriperumbudur in the north to Appur village in the south totalling to 19.5 Km) as committed by the proponent.
  - "As per the MoEF & CC Notification, S.O.1030 (E) dated:08.03.2018, "The project proponent will be required to submit a bank guarantee equivalent to the amount of remediation plan and Natural and Community Resource Augmentation Plan with the State Pollution Control Board and the quantification will be recommended by the Expert Appraisal Committee for category A projects or by the State or Union territory level Expert Appraisal Committee for category B projects, as the case may be, and finalised by the concerned Regulatory Authority, and the bank guarantee shall be deposited prior to the grant of environmental clearance"
4. Subsequently, the subject was placed in the 329<sup>th</sup> SEIAA meeting held on 06.08.2018. The Authority decided to accept the recommendation of the SEAC and direct the proponent to furnish bank guarantee to Tamil Nadu Pollution Control Board as recommended by the SEAC and furnish the copy of the receipt so as to take further action.
5. The above details were communicated to the project proponent vide letter dated 06.08.2018. The Proponent has furnished a request on 05.12.2018 stating the following,

  
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- *"We have completed only 10% of the overall project so the charges raised by yourself can be completed waived.*
- *The existing purchases/customers are all gone for RERA as the project is under standstill progress.*
- *As the project is under standstill progress the existing purchases and the proposal purchasers and the present real estate value are all gone in an uncertain way."*

6. Hence, the subject was placed before the 335<sup>th</sup> SEIAA Meeting held on 31.12.2018. The authority decided to refer back this subject to SEAC for scrutinizes the above said representation submitted by the proponent.

7. Subsequently, the proposal was placed in the 124<sup>th</sup> SEAC Meeting held on 04.01.2019. The Committee discussed in detail and decided that the proponent representation as requested cannot be completely waived and committee decided to stay with the recommendation already issued to the proponent.

Meanwhile, again the PP has submitted a representation to the O/o SEIAA along with present status of the project and Project Cost Certificate, stating the following,

*"...we wish to state that we have completed construction of only 20% of the buildings proposed and remaining 80% of the works yet to be started. The block wise status of construction is enclosed and the total project cost of the completed construction is Rs 37.99 Crores. In view of this, we pray and request the SEAC/SEIAA to levy the charges towards the ecological damages based on the completed construction of our project i.e Rs 37.99 Crores and not on the overall project cost of Rs.431.52 Crores."*

In view of the above, the subject was placed before the 649<sup>th</sup> meeting of Authority held on 23.08.2023. After detailed discussions, the authority decided to refer back this subject to SEAC for scrutiny and remarks the above said representation submitted by the proponent.

#### Annexure 'A'

##### **a) EC Compliance**

1. The Environmental Clearance is accorded based on the assurance from the project proponent that there will be full and effective implementation of all the undertakings given in the Application Form, Pre-feasibility Report, mitigation measures as assured in the Environmental Impact Assessment/ Environment Management Plan and the mining features including Progressive Mine Closure Plan as submitted with the application.
2. All the conditions as presented by the proponent in the PPT during SEAC appraisal should be addressed in Full.

  
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3. The proponent shall submit Compliance Reports on the status of compliance of the stipulated EC conditions including results of monitored data. It shall be sent to the respective Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA).
4. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

**b) Applicable Regulatory Frameworks**

5. The project proponent shall strictly adhere to the provisions of Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006, Wildlife Protection Act, 1972, Forest Conservation Act, 1980, Biodiversity Conservation Act, 2016, the Biological Diversity Act, 2002, Biological diversity Rules, 2004 & TN Forest Act, 1882 and Rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter

**c) Safe mining Practices**

6. The AD/DD, Dept. of Geology & Mining shall ensure operation of the proposed quarry after the submission slope stability study conducted through the reputed research & Academic Institutions such as NIRM, IITs, NITS Anna University, and any CSIR Laboratories etc.
7. The AD/DD, Dept. of Geology & Mining & Director General of Mine safety shall ensure strict compliance and implementation of bench wise recommendations/action plans as recommended in the scientific slope stability study of the reputed research & Academic Institutions as a safety precautionary measure to avoid untoward accidents during mining operation.
8. A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling unit or other structures, and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendations of SEAC depending on specific local conditions.

**d) Water Environment – Protection and mitigation measures**

  
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9. The proponent shall ensure that the activity does not disturb the water bodies and natural flow of surface and groundwater, nor cause any pollution, to water sources in the area.
10. The proponent shall ensure that the activities do not impact the water bodies/wells in the neighboring open wells and bore wells. The proponent shall ensure that the activities do not in any way affect the water quantity and quality in the open wells and bore wells in the vicinity or impact the water table and levels. The proponent shall ensure that the activities do not disturb the river flow, nor affect the Odai, Water bodies, Dams in the vicinity.
11. Water level in the nearest dug well in the downstream side of the quarry should be monitored regularly and included in the Compliance Report.
12. Quality of water discharged from the quarry should be monitored regularly as per the norms of State Pollution Control Board and included in the Compliance Report.
13. Rain Water Harvesting facility should be installed as per the prevailing provisions of TNMBR/TNCDBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
14. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the compliance reports to SEIAA.
15. Regular monitoring of ground water level and water quality shall be carried out around the mine area during mining operation. At any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.
16. Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.

e) **Air Environment – Protection and mitigation measures**

17. The activity should not result in CO<sub>2</sub> release and temperature rise and add to micro climate alternations.
18. The proponent shall ensure that the activities undertaken do not result in carbon emission, and temperature rise, in the area.
19. The proponent shall ensure that Monitoring is carried out with reference to the quantum of particulate matter during excavation; blasting; material transport and also from cutting waste dumps and haul roads.

f) **Soil Environment – Protection and mitigation measures**

  
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20. The proponent shall ensure that the operations do not result in loss of soil biological properties and nutrients.
21. The proponent shall ensure that activity does not deplete the indigenous soil seed bank and disturb the mycorrhizal fungi, soil organism, soil community nor result in eutrophication of soil and water.
22. The activities should not disturb the soil properties and seed and plant growth. Soil amendments as required to be carried out, to improve soil health.
23. Bio remediation using microorganisms should be carried out to restore the soil environment to enable carbon sequestration.
24. The proponent shall ensure that the mine restoration is done using mycorrhizal VAM, vermin-composting, Biofertilizers to ensure soil health and biodiversity conservation.
25. The proponent shall ensure that the topsoil is protected and used in planting activities in the area.
26. The proponent shall ensure that topsoil to be utilized for site restoration and Green belt alone within the proposed area.
27. The top soil shall be temporarily stored at earmarked place (s) and used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geotextile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.
28. Activities should not result in invasion of site by exotic and alien plant and animal species and disturb the native biodiversity and soil micro flora and fauna.

**g) Noise Environment – Protection and mitigation measures**

29. The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
30. The sound at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Hence, the PP shall ensure that the biological clock of the villages are not disturbed because of the mining activity.

**h) Biodiversity - Protection and mitigation measures**

  
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31. The proponent should ensure that there is no disturbance to the agriculture plantations, social forestry plantations, waste lands, forests, sanctuary or national parks. There should be no impact on the land, water, soil and biological environment and other natural resources due to the mining activities.
32. No trees in the area should be removed and all the trees numbered and protected. In case trees fall within the proposed quarry site the trees may be transplanted in the Greenbelt zone. The proponent shall ensure that the activities in no way result in disturbance to forest and trees in vicinity. The proponent shall ensure that the activity does not disturb the movement of grazing animals and free ranging wildlife. The proponent shall ensure that the activity does not disturb the biodiversity, the flora & fauna in the ecosystem. The proponent shall ensure that the activity does not result in invasion by invasive alien species. The proponent shall ensure that the activities do not disturb the resident and migratory birds. The proponent shall ensure that the activities do not disturb the vegetation and wildlife in the adjoining reserve forests and areas around.
33. The proponent shall ensure that the activities do not disturb the agro biodiversity and agro farms. Actions to be taken to promote agroforestry, mixed plants to support biodiversity conservation in the mine restoration effort.
34. The proponent shall ensure that all mitigation measures listed in the EIA/EMP are taken to protect the biodiversity and natural resources in the area.
35. The proponent shall ensure that the activities do not impact green lands/grazing fields of all types surrounding the mine lease area which are food source for the grazing cattle.

**i) Climate Change**

36. The project activity should not in any way impact the climate and lead to a rise in temperature.
37. There should be least disturbance to landscape resulting in land use change, contamination and alteration of soil profiles leading to Climate Change.
38. Intensive mining activity should not add to temperature rise and global warming.
39. Operations should not result in GHG releases and extra power consumption leading to Climate Change.
40. Mining through operational efficiency, better electrification, energy use, solar usage, use of renewable energy should try to decarbonize the operations.
41. Mining Operation should not result in droughts, floods and water stress, and shortages, affecting water security both on site and in the vicinity.

  
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42. Mining should not result in water loss from evaporation, leaks and wastage and should support to improve the ground water.
43. Mining activity should be flood proof with designs and the drainage, pumping techniques shall ensure climate-proofing and socio-economic wellbeing in the area and vicinity.

**j) Reserve Forests & Protected Areas**

44. The activities should provide nature based support and solutions for forest protection and wildlife conservation.
45. The project activities should not result in forest fires, encroachments or create forest fragmentation and disruption of forest corridors.
46. There should be no disturbance to the freshwater flow from the forest impacting the water table and wetlands.
47. The project proponent should support all activities of the forest department in creating awareness to local communities on forest conservation.
48. The project activities should not alter the geodiversity and geological heritage of the area.
49. The activities should not result in temperature rise due to increased fossil fuels usage disrupting the behaviour of wildlife and flora.
50. The activities should support and recognise the rights and roles of indigenous people and local communities and also support sustainable development.
51. The project activities should support the use of renewables for carbon capture and carbon storage in the project site and forest surrounds.
52. The project activities should not result in changes in forest structure, habitats and genetic diversity within forests.

**k) Green Belt Development**

53. The proponent shall ensure that in the green belt development more indigenous trees species (Appendix as per the SEAC Minutes) are planted.
54. The proponent shall ensure the area is restored and rehabilitated with native trees as recommended in SEAC Minutes (in Appendix).

**l) Workers and their protection**

55. The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying /Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.

  
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56. The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.
57. The workers shall be employed for working in the mines and the working hours and the wages shall be implemented/enforced as per the Mines Act, 1952.

**m) Transportation**

58. No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a bypass road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.
59. The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

**n) Storage of wastes**

60. The project proponent shall store/dump the waste generated within the earmarked area of the project site for mine closure as per the approved mining plan.

**o) CER/EMP**

61. The CER should be fully Implemented and fact reflected in the Half-yearly compliance report.

  
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62. The EMP shall also be implemented in consultation with local self-government institutions & Govt. departments.

63. The follow-up action on the implementation of CER Shall be included in the compliance report.

**p) Directions for Reclamation of mine sites**

64. The mining closure plan should strictly adhere to appropriate soil rehabilitation measures to ensure ecological stability of the area. Reclamation/Restoration of the mine site should ensure that the Geotechnical, physical, chemical properties are sustainable that the soil structure composition is buildup, during the process of restoration.

65. The proponent shall ensure that the mine closure plan is followed as per the mining plan and the mine restoration should be done with native species, and site restored to near original status. The proponent shall ensure that the area is ecologically restored to conserve the ecosystems and ensure flow of goods and services.

66. A crucial factor for success of reclamation site is to select sustainable species to enable develop a self-sustaining eco system. Species selected should easily establish, grow rapidly, and possess good crown and preferably be native species. Species to be planted in the boundary of project site should be un palatable for cattle's/ goats and should have proven capacity to add leaf-litter to soil and decompose. The species planted should be adaptable to the site conditions. Should be preferably pioneer species, deciduous in nature to allow maximum leaf-litter, have deep root system, fix atmospheric nitrogen and improve soil productivity. Species selected should have the ability to tolerate altered pit and toxicity of and site. They should be capable of meeting requirement of local people in regard to fuel fodder and should be able to attract bird, bees and butterflies. The species should be planted in mixed association.

67. For mining area reclamation plot culture experiments to be done to identify/ determine suitable species for the site.

68. Top soil with a mix of beneficial microbes (Bacteria/Fungi) to be used for reclamation of mine spoils. AM Fungi (Arbuscular mycorrhizal fungi), plant growth promoting Rhizo Bacteria and nitrogen fixing bacteria to be utilized.

69. Soil and moisture conservation and water harvesting structures to be used where ever possible for early amelioration and restoration of site.

70. Top soil is most important for successful rehabilitation of mined sites. Topsoil contains majority of seeds and plant propagation, soil microorganism, Organic matter and plant

  
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- nutrients. Wherever possible the topsoil should be immediately used in the area of the for land form reconstruction, to pre mining conditions.
71. Over burdens may be analyzed and tested for soil characteristics and used in the site for revegetation. Wherever possible seeds, rhizome, bulbs, etc of pioneering spices should be collected, preserved and used in restoring the site.
  72. Native grasses seeds may be used as colonizers and soil binders, to prevent erosion and allow diverse self- sustaining plant communities to establish. Grasses may offer superior tolerance to drought, and climatic stresses.
  73. Reclamation involves planned topographical reconstruction of site. Care to be taken to minimize erosion and runoff. Topsoils should have necessary physical, chemicals, ecological, properties and therefore should be stored with precautions and utilized for reclamation process. Stocked topsoil should be stabilized using grasses to protect from wind. Seeds of various indigenous and local species may be broad casted after topsoil and treated overburden are spread.
  74. Alkaline soils, acidic soils, Saline soils should be suitably treated/amended using green manure, mulches, farmyard manure to increase organic carbon. The efforts should be taken to landscape and use the land post mining. The EMP and mine closure plan should provide adequate budget for re-establishing the site to pre-mining conditions. Effective steps should be taken for utilization of over burden. Mine waste to be used for backfilling, reclamation, restoration, and rehabilitation of the terrain without affecting the drainage and water regimes. The rate of rehabilitation should be similar to rate of mining. The land disturbed should be reshaped for long term use. Mining should be as far as possible be eco-friendly. Integration of rehabilitation strategies with mining plan will enable speedy restoration.
  75. Efforts should to taken to aesthetically improve the mine site. Generally, there are two approaches to restoration i.e Ecological approach which allows tolerant species to establish following the succession process allowing pioneer species to establish. The other approach i.e plantation approach is with selected native species are planted. A blend of both methods may be used to restore the site by adding soil humus and mycorrhiza.
  76. Action taken for restoration of the site should be specifically mentioned in the EC compliances.

**Annexure 'B'**

**Cluster Management Committee**

  
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1. Cluster Management Committee shall be framed which must include all the proponents in the cluster as members including the existing as well as proposed quarry.
2. The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc.,
3. The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease and the same shall be updated every year to the AD/Mines.
4. Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network.
5. The committee shall deliberate on risk management plan pertaining to the cluster in a holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan.
6. The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the environmental policy devised shall be given in detail.
7. The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner.
8. The committee shall furnish the Emergency Management plan within the cluster.
9. The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public.
10. The committee shall furnish an action plan to achieve sustainable development goals with reference to water, sanitation & safety.
11. The committee shall furnish the fire safety and evacuation plan in the case of fire accidents.

**Impact study of mining**

12. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area covering the entire mine lease period as per precise area communication order issued from reputed research institutions on the following
  - a) Soil health & soil biological, physical land chemical features .
  - b) Climate change leading to Droughts, Floods etc.
  - c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
  - d) Possibilities of water contamination and impact on aquatic ecosystem health.
  - e) Agriculture, Forestry & Traditional practices.

  
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- f) Hydrothermal/Geothermal effect due to destruction in the Environment.
- g) Bio-geochemical processes and its foot prints including environmental stress.
- h) Sediment geochemistry in the surface streams.

**Agriculture & Agro-Biodiversity**

- 13. Impact on surrounding agricultural fields around the proposed mining Area.
- 14. Impact on soil flora & vegetation around the project site.
- 15. Details of type of vegetations including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetations all along the boundary of the proposed mining area shall committed mentioned in EMP.
- 16. The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.
- 17. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.
- 18. The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.

**Forests**

- 19. The project proponent shall detailed study on impact of mining on Reserve forests free ranging wildlife.
- 20. The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.
- 21. The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.
- 22. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.

**Water Environment**

- 23. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the entire mine lease period.
- 24. Erosion Control measures.

  
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25. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas.
26. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.
27. The project proponent shall study and furnish the details on potential fragmentation impact on natural environment, by the activities.
28. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts.
29. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.
30. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.

**Energy**

31. The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilise the Energy shall be furnished.

**Climate Change**

32. The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities.
33. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock.

**Mine Closure Plan**

34. Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued.

**EMP**

35. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued.
36. The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan.

**Risk Assessment**

  
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37. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.

**Disaster Management Plan**

38. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities covering the entire mine lease period as per precise area communication order issued.

**Others**

39. The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc.
40. 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 address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan.
41. The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the environment. The ecological risks and impacts of plastic & microplastics on aquatic environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.

**Annexure 'C'**

**Climate Change**

1. The proponent shall adopt strategies to decarbonize the building.
2. The proponent shall adopt strategies to reduce emissions during operation (operational phase and building materials).
3. The proponent shall adopt strategies to reduce temperature including the Building Façade.
4. The proponent shall adopt methodology to control thermal environment and other shocks in the building.
5. The proponent shall adopt detailed plan to reduce carbon footprints and also develop strategies for climate proofing and climate mitigation.
6. The proponent shall adopt strategies to ensure the buildings in blocks are not trapping heat to become local urban heat islands.
7. The proponent shall ensure that the building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues.

  
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8. The activities should in no way cause emission and build-up Green House Gases. All actions to be eco-friendly and support sustainable management of the natural resources within and outside the campus premises.
9. The proponent shall ensure that the buildings should not cause any damage to water environment, air quality and should be carbon neutral building.

**Health**

10. The proponent shall adopt strategies to maintain the health of the inhabitants.

**Energy**

11. The proponent shall adopt strategies to reduce electricity demand and consumption.
12. The proponent shall provide provisions for automated energy efficiency.
13. The proponent shall provide provisions for controlled ventilation and lighting systems.
14. The proponent shall provide solar panels and contribute to the grid from the solar panel as proposed.
15. All the construction of Buildings shall be energy efficient and conform to the green building norms. The PP shall ensure that carbon neutral building.
16. The proponent shall provide adequate capacity of DG set (standby) for the proposed STP so as to ensure continuous and efficient operation.

**Regulatory Frameworks**

17. The proponent shall adopt methodologies to effectively implement the Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001.
18. The project proponent shall ensure to provide adequate elevated closed area earmarked for collection, segregation, storage & disposal of wastes generated within the premises as per provisions of Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001.
19. The proponent shall provide elevator as per rules CMDA/DTCP.

**Database maintenance & audits**

  
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20. The database record of environmental conditions of all the events from pre-construction, construction and post-construction should be maintained in digitized format.
21. The proponent should maintain environmental audits to measure and mitigate environmental concerns.

**Biodiversity**

22. There should not be any impact due to the modification of the habitat on critically endangered species, biodiversity, etc.,.
23. The proponent shall ensure that the proposed activities in no way result in the spread of invasive species.
24. The proponent shall adopt sustainability criteria to protect the micro environment from wind turbulences and change in aerodynamics since high rise buildings may stagnate air movements.
25. The proponent shall ensure almost safety for the existing biodiversity, trees, flora & fauna shall not disturb under any circumstances.
26. The proponent shall develop building-friendly pest control strategies by using non chemical measures so as to control the pest population thereby not losing beneficial organisms.
27. The proponent shall adopt strategies to prevent bird hits.

**Safety measures**

28. The proponent should develop an emergency response plan in addition to the disaster management plan.
29. The proponent shall develop detailed evacuation plan for disabled people and safety evacuation plan in emergencies.
30. All bio-safety standards, hygienic standards and safety norms of working staff and patients to be strictly followed as stipulated in EIA/EMP.
31. The disaster management and disaster mitigation standards to be seriously adhered to avoid any calamities.
32. The proponent shall provide the emergency exit in the buildings.
33. The proponent shall adhere to the provision and norms regard to fire safety prescribed by competent authority.

**Water/Sewage**

34. The proponent shall ensure that no treated or untreated sewage shall be let outside the project site & shall find access to nearby water-bodies under any circumstances other than the permitted mode of disposal.

  
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35. The proponent shall provide STP of adequate capacity as committed and shall continuously & efficiently operate STP so as to satisfy the treated sewage discharge standards prescribed by the TNPCB time to time.
36. The proponent shall periodically test the treated sewage the through TNPCB lab /NABL accredited laboratory and submit report to the TNPCB.
37. The proponent shall periodically test the water sample for the general water quality core parameters including fecal coliform within the proposed project site through TNPCB lab /NABL accredited laboratory and submit report to the concerned authorities.
38. The proponent shall ensure that provision should be given for proper utilization of recycled water.
39. The project proponent shall adhere to storm water management plan as committed.

#### **Parking**

40. The project proponent shall adhere to provide adequate parking space for visitors of all inmates including clean traffic plan as committed.

#### **Solid waste Management**

41. The proponent shall ensure that no form of municipal solid waste shall be disposed outside the proposed project site at any time.
42. The proponent should strictly comply with, Tamil Nadu Government order regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.

#### **EMP**

43. The proponent shall ensure that the EIA/EMP and disaster management plan should be adhered strictly.
44. The proponent shall ensure that all activities of EMP shall be completed before obtaining CTO from TNPCB.
45. The proponent shall provide and ensure the green belt plan is implemented as indicated in EMP. Also, the proponent shall explore possibilities to provide sufficient grass lawns.

#### **Others**

46. As per the 'Polluter Pay Principle', the proponent will be held responsible for any environmental damage caused due to the proposed activity including withdrawal of EC and stoppage of work.
47. The project proponent shall adhere to height of the buildings as committed.

  
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**Annexure - 'D'**

1. Impacts on Energy requirement.
2. Impacts on living System (air ,water ,soil & micro organism).
3. Impacts on terrestrial & aquatic within and surrounding areas.
4. 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 furnish the detailed EMP mentioning all the CER activities as committed with the action plan.
5. All the construction of Buildings shall be energy efficient and confirm to the green building norms.
6. The proponent shall provide adequate parking facility for vehicles of all the workers & visitors.
7. The proponent shall ensure that no treated or untreated trade effluent/sewage discharged outside the premises under any circumstances.
8. The disaster management and disaster mitigation standards to be seriously adhered to avoid of calamities.
9. The proponent shall provide the action taken for reduction of green house gas emissions to support the climatic action to make it sustainable buildings.
10. The project proponent shall furnish the action taken to provide adequate parking space for visitors of all inmates including clean traffic plan.
11. The project proponent shall furnish the action taken to improve water usage efficiency in the building.
12. The project proponent shall conduct detailed study of biodiversity flora & fauna including invasives /endemic vulnerable species.
13. The project proponent shall furnish NOC obtained from competent authority that there is no encroachment of water bodies (including canals).
14. The project proponent shall furnish impact of Green House Gases emissions and climate change likely due to activities.
15. The project proponent shall conduct detailed soil investigation including microflora /fauna.
16. The project proponent shall study impact on livelihoods of locals.
17. The project proponent shall furnish List of trees available in the area.
18. The project proponent shall study impact of activities on water bodies/wetlands.
19. The project proponent shall conduct studies on invasive and alien species

  
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