

**MINUTES**

**693<sup>rd</sup> MEETING**

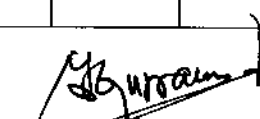
**STATE LEVEL ENVIRONMENT IMPACT  
ASSESSMENT AUTHORITY-TAMIL NADU**

**Date: 08.02.2024**

**MINUTES OF THE 693<sup>rd</sup> MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT  
ASSESSMENT AUTHORITY HELD ON 08.02.2024.**

Agenda No	Description	File No.	Minutes
a)	Confirmation of the minutes of the 692 <sup>nd</sup> meeting of the Authority held on 07.02.2024.		The minutes of the 692 <sup>nd</sup> meeting of the Authority held on 07.02.2024 was confirmed.
b)	The Action taken on the decisions of the 692 <sup>nd</sup> meeting of the Authority held on 07.02.2024.		The Member Secretary informed that 692 <sup>nd</sup> Minutes uploaded in Parivesh website and action taken report will be putup ensuing meeting.
1.	Proposed Multi Colour Granite Quarry over an extent of 4.86.0 Ha at S.F.Nos.488/1B(P), 488/2(P), 488/3A, 489/4A, 489/5A1, 497 & 503/3(P) of Sithampoondi Village, Paramathivelur Taluk, Namakkal District, Tamil Nadu by M/s. P.K.K. Exports - For Terms of Reference under violation. (SIA/TN/MIN/442578/2023)	10492	<p>The Authority noted that the subject was appraised in the 436<sup>th</sup> SEAC meeting held on 29.12.2023. Based on the presentation and documents furnished by the PP, the Committee noted the following violation aspect:</p> <ol style="list-style-type: none"> <li>1. As against EC approved quantity of 6000 m<sup>3</sup>, the Proponent had transported a quantity of 13585.605 m<sup>3</sup> of Multi Colour Granite (Up to 25.10.2018) for the period from 2015-16 to 2019-2020 in the above subject area.</li> </ol> <p>Hence, based on the above, Committee decided to treat the case as violation &amp; decided to grant of <b>Terms of Reference (ToR) under Violation category with Public Hearing, subject to the ToRs stated therein</b>, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the NABET accredited consultants. <b>The grant of Terms of Reference (ToR) under Violation category does</b></p>

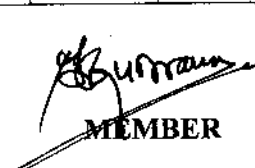
  
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			<p>not entail EC which is subject to the outcome of the final orders of the Hon'ble High Court of Madras in the matter of W.P.(MD) No. 11757 of 2021.</p> <p>The Authority noted the following,</p> <ul style="list-style-type: none"> <li>• The Ministry issued a Standard Operating Procedure dated 7<sup>th</sup> July 2021 bearing the file no. 22-21/2020-IA.III, for identification and handling of violation cases under EIA Notification 2006 in compliance to order of the Hon'ble National Green Tribunal in Appeal No. 34/2020 (WZ) titled Tanaji B. Gambhire Vs Chief Secretary, Government of Maharashtra.</li> <li>• This SOP was challenged in the Madurai Bench of the Hon'ble High Court of Madras in the matter W.P.(MD) No. 11757 of 2021 titled Fatima Vs Union of India and was interim stayed vide order dated 15<sup>th</sup> July 2021.</li> <li>• However, The Hon'ble Supreme Court in W.P.(C) No.1394/2023 titled Vanashakti vs. Union of India, has stayed the operation of both the Office Memoranda dated:7<sup>th</sup> July 2021 and dated 28<sup>th</sup> January 2022 issued by the Ministry.</li> </ul> <p>The Authority after detailed deliberation, decided that above facts shall be examined by SEAC and shall furnish its recommendations to SEIAA to take further course of action.</p>
2.	Proposed Black Granite Quarry over an extent of 1.12.5 Ha at S.F.Nos.	10527	The Authority noted that the subject was appraised in the 436 <sup>th</sup> SEAC meeting held on 29.12.2023. After

  
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	915/1, 2, 3, 1021/1B & 1022/2 of Bargur Village, Anthiyur Taluk, Erode District, Tamil Nadu by M/s. Minrocks International Private Ltd - For Terms of Reference. (SIA/TN/MIN/450679/2023)		detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) along with Public Hearing</b> under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions and conditions in <b>Annexure 'B'</b> of this minutes.
3.	Proposed construction of Hospital Building at S.F.No. 102/2B2, 102/2C2, 104/1A2, 104/2A2, 104/1B, 104/2B2 of Veeraraghavapuram Village, Poonamallee taluk, Thiruvallur District, Tamil Nadu by M/s. Velammal Hospitals Private Limited- For Environmental Clearance (SIA/TN/INFRA2/438444/2023)	10303	The Authority noted that the subject was appraised in the 436 <sup>th</sup> SEAC meeting held on 29.12.2023. During the meeting the PP has requested for additional time to produce the following details. Therefore, SEAC decided to defer the proposal. <ul style="list-style-type: none"> <li>• The PP shall furnish NOC from Airport Authority.</li> <li>• There is a nalla found at 140m and River Cooum is located at 380m from the project site, hence the PP shall furnish Inundation certificate from the competent Authority.</li> <li>• The proponent shall furnish action plan to mitigate carbon emissions, GHGs &amp; to reduce carbon footprint to enable health comforts &amp; management.</li> </ul> Therefore, SEAC decided to defer the proposal. 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 29.12.2023.
4.	Proposed Rough Stone and Gravel quarry over an extent of 2.35.98 Ha	10479	The Authority noted that the subject was placed in the 436 <sup>th</sup> meeting of SEAC held on 22.12.2023. Based on

  
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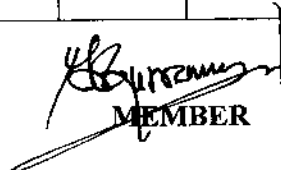
  
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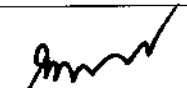
<p>in S.F.Nos. 75/6, 75/7, 75/8, 75/9, 85/1, 85/2, 88/1, 88/2A and 88/4A, of Nelvaipalayam Village, Cheyyur Taluk, Chengalpattu District, Tamil Nadu by Thiru. K. Sundramoorthy - For Terms of Reference. (SIA/TN/MIN/448716/2023)</p>	<p>the document and details furnished by the project proponent, SEAC decided to grant <b>Terms of Reference (ToR) with Public Hearing</b> subject to the conditions stated therein inter alia the following:</p> <ol style="list-style-type: none"> <li>1. <b>Mining is permitted only in Block I bearing S.F.Nos. 88/1, 88/2A and 88/4A.</b> Hence the PP shall furnish revised mining plan detailing the corresponding production quantity along with the EIA report.</li> <li>2. <b>No mining is permitted in Block II bearing S.F.Nos. 75/6, 75/7, 75/8, 75/9, 85/1, 85/2</b> and the area shall only be used for stocking the mined material or dumping the waste/reject material or for parking vehicles or establishing mine office.</li> </ol> <p>After detailed discussions, the Authority accepted the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) with Public Hearing under violation category</b> based on studies, assessments and records to be produced as sought by the SEAC and SEIAA, for undertaking the Environment Impact Assessment Study and preparation of Environment Management Plan subject to the conditions as recommended by SEAC &amp; normal conditions and conditions in <b>Annexure 'D'</b> of this minutes and the following:</p> <ol style="list-style-type: none"> <li>1. <b>Mining is permitted only in Block I bearing S.F.Nos. 88/1, 88/2A and 88/4A.</b> Hence the PP shall furnish revised mining plan detailing the corresponding production quantity along with the EIA report.</li> <li>2. <b>No mining is permitted in Block II bearing S.F.Nos. 75/6, 75/7, 75/8, 75/9, 85/1, 85/2</b></li> </ol>
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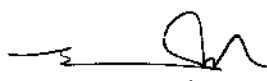
			<p>and the area shall only be used for stocking the mined material or dumping the waste/reject material or for parking vehicles or establishing mine office.</p> <p>3. The Member Secretary, SEIAA to write to the State Government/TNPCB to take credible action under the provisions of Section 19 of the Environment (Protection) Act, 1986 against the Project proponent as per the EIA Notifications dated: 14.03.2017 and 08.03.2018.</p>
5.	Existing Magnesite Mine over an extent of 2.57.0 Ha (next scheme of mining) in S.F.Nos. 77, of Kondappanaickenpatty Village, Salem Taluk, Salem District, Tamil Nadu by G.Pasupathi (Prop. M/s. Sudharshaan Mining Corporation) - For Terms of Reference under violation. (SIA/TN/MIN/446456/2023)	10493	The Authority noted that the subject was placed in the 436 <sup>th</sup> meeting of SEAC held on 22.12.2023. The SEAC noted that the project proponent was absent for the meeting. Hence the Committee decided to defer the subject to a later date directing the project proponent to furnish the reason for not attending the meeting.
6.	Proposed Rough Stone and Gravel quarry over an extent of 1.26.00 Ha in S.F.Nos. 205/3A, 205/3B1, 208/2B and 208/3B, of Duraiswamipuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by Thiru. G. Radhakrishnan - For Terms of Reference. (SIA/TN/MIN/448749/2023)	10500	The Authority noted that the subject was placed in the 436 <sup>th</sup> meeting of SEAC held on 22.12.2023 and the PP has requested to defer the subject. The Committee accepted the request of the PP and decided to defer the subject to a later date.
7.	Proposed Multicolour Granite quarry over an extent of 2.51.5 Ha in	10535	The Authority noted that the subject was placed in the 436 <sup>th</sup> meeting of SEAC held on 22.12.2023 and the

  
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	S.F.Nos. 251, of Nallur Village, Kulithalai Taluk, Karur District, Tamil Nadu by Thiru. K. Sakthivel - For Terms of Reference. (SIA/TN/MIN/451778/2023)		PP has requested to defer the subject. The Committed accepted the request of the PP and decided to defer the subject to a later date.
8.	Existing Multi Colour Granite lease over an extent of 3.29.0 Ha at S.F.No. 1320 /2A, 1323/1B1, 1323/1B2, 1325/4B, 1325/5A1, 1325/5A2, 1325/5A3, 1325/5A4, 1325/5A5, 1325/5A6, 1325/5B1 & 1325/5B2, in Thiruthangal Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by Tvl. STANCO Traders – Environment Clearance. (SIA/TN/MIN/424980/2023)	9919	<p>The Authority noted that the subject was placed in the 436<sup>th</sup> meeting of SEAC held on 22.12.2023 and the SEAC has furnished its recommendations for the grant of Environmental Clearance to the project subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to <b>grant Environmental Clearance for the quantity of grant Environmental Clearance for the quantity of 67698 m<sup>3</sup> of RoM, 27079 m<sup>3</sup> of Multicolor Granite@40% recovery upto the ultimate depth of 105m BGL and the annual peak production should not exceed 14820 m<sup>3</sup> of RoM and 5628 m<sup>3</sup> of Multicolor Granite@40% recovery as per the approved mining plan. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</b></p> <p>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this</p>



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Environmental Clearance is valid as per the approved mine plan period.

2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years and also during the mine plan period, till the project life so as to review the EC conditions and to ensure that they have all been adhered to and implemented.
3. The project proponent shall submit a Certified Compliance Report obtained from IRO of MoEF&CC to the monitoring, regulatory and other concerned authorities including SEIAA, while seeking a renewal of the mining plan to cover the project life.
4. There should be regular monitoring of air quality, water quality, ground water level and noise quality and reports regarding the same should be submitted to TNPCB, SEIAA & IRO of MoEF&CC once in every 6 months.
5. The proponent shall strictly adhere to the mining plan and half yearly and annual returns shall be submitted to the Director of Geology and Mining Department with copy marked to TNPCB, SEIAA & IRO of MoEF&CC.
6. Biodiversity in and around the project area should be monitored frequently and detailed biodiversity report should be submitted every year to SEIAA & IRO of MoEF&CC.
7. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly


  
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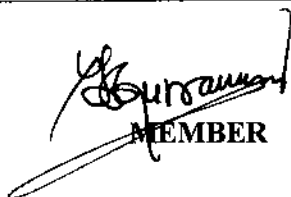
  
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			<p>followed as per the EMP and as per the amount committed and approved in EC for EMP. Status of progressive mine closure and green belt implementation should be included in the half yearly compliance report submitted to TNPCB, SEIAA &amp; IRO of MoEF&amp;CC.</p> <p>8. 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.</p> <p>9. 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 &amp; 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 inspections.</p>
9.	Proposed Rough stone lease over an extent of 1.54.4 Ha at S.F.No.121/2 and 121/3 in Chennimalai village, Perundurai Taluk, Erode District, Tamil Nadu by Thiru. Tmt.R. Maheswari- Environment	10290	<p>The Authority noted that the subject was placed in the 436<sup>th</sup> meeting of SEAC held on 22.12.2023 and the SEAC has furnished its recommendations for the grant of Environmental Clearance to the project subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the</p>



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Clearance.  
(SIA/TN/MIN/436752/2023)

safety aspects and to ensure sustainable, scientific and systematic mining, decided to **grant Environmental Clearance for the quantity of grant Environmental Clearance for the quantity of 164525 m<sup>3</sup> of Rough stone and 21292 m<sup>3</sup> of Gravel upto the proposed depth of 42m BGL and the annual peak production should not exceed 35875 m<sup>3</sup> of Rough stone and 8800 m<sup>3</sup> of Gravel as per the approved mining plan. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.**

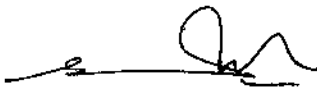
1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.
2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years and also during the mine plan period, till the project life so as to review the EC conditions and to ensure that they have all been adhered to and implemented.
3. The project proponent shall submit a Certified Compliance Report obtained from IRO of MoEF&CC to the monitoring, regulatory and other concerned authorities including SEIAA, while seeking a renewal of the mining plan to cover the project life.

  
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		<ol style="list-style-type: none"> <li>4. There should be regular monitoring of air quality, water quality, ground water level and noise quality and reports regarding the same should be submitted to TNPCB, SEIAA &amp; IRO of MoEF&amp;CC once in every 6 months.</li> <li>5. The proponent shall strictly adhere to the mining plan and half yearly and annual returns shall be submitted to the Director of Geology and Mining Department with copy marked to TNPCB, SEIAA &amp; IRO of MoEF&amp;CC.</li> <li>6. Biodiversity in and around the project area should be monitored frequently and detailed biodiversity report should be submitted every year to SEIAA &amp; IRO of MoEF&amp;CC.</li> <li>7. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP and as per the amount committed and approved in EC for EMP. Status of progressive mine closure and green belt implementation should be included in the half yearly compliance report submitted to TNPCB, SEIAA &amp; IRO of MoEF&amp;CC.</li> <li>8. 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</li> </ol>
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			<p>in the PARIVESH Portal from the respective login.</p> <p>9. 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 &amp; 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 inspections.</p>
10.	<p>Proposed Rough stone &amp; Gravel quarry lease over an extent of 1.70.0 Ha at S.F.Nos. 163, 165 &amp; 167/1 of Duraisampuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by Thiru. V. Murugaiyan - For Terms of Reference. (SIA/TN/MIN/449108/2023)</p>	10494	<p>The authority noted that the subject was appraised in 436<sup>th</sup> SEAC meeting held on 29.12.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC after detailed deliberations, decided to <b>recommend the proposal for the grant of Terms of Reference (ToR)</b>.</p> <p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) along with Public Hearing</b> under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC &amp; normal conditions in addition to the following conditions and the conditions mentioned in 'Annexure B' of this minute:</p>
11.	<p>Proposed Lime Stone quarry lease over an extent of 3.07.0 Ha at S.F.Nos. 132/1 &amp; 132/3(P) of Panamooppampatti Village, Usilampatti Taluk, Madurai District,</p>	10501	<p>The authority noted that the subject was appraised in 436<sup>th</sup> SEAC meeting held on 29.12.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC after detailed</p>

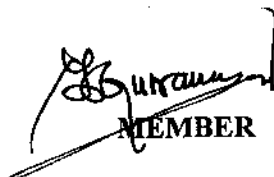
  
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	Tamil Nadu by Tmt. B. Thiraviam - For Terms of Reference. (SIA/TN/MIN/449390/2023)		<p>deliberations, decided to <b>recommend the proposal for the grant of Terms of Reference (ToR).</b></p> <p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) along with Public Hearing</b> under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC &amp; normal conditions in addition to the following conditions and the conditions mentioned in 'Annexure B' of this minute:</p>
12.	Existing Magnesite Mine Lease over an extent of 2.56.9 Ha at S.F.No.36 (P) of Kondappanaickenpatty Village, Salem Taluk, Salem District, Tamil Nadu by Thiru. G. Rajkumar – For Terms of Reference under violation (SIA/TN/MIN/446568/2023)	10495	<p>The authority noted that the subject was appraised in the 436<sup>th</sup> SEAC meeting held on 29.12.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to grant <b>Terms of Reference (ToR) under violation category</b> subject to the ToRs mentioned in the minutes, in addition to (i) the standard terms of reference for EIA study shown in <b>Annexure-I</b> and (ii) the Standard ToR for non-coal mining projects and details issued by the MoEF&amp;CC to be included in EIA/EMP Report.</p> <p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) under violation category with Public Hearing</b> for undertaking EIA study followed by the EMP report along with the assessment of ecological damage, remediation plan and natural and community resource augmentation plan pertaining to violation projects and it shall be prepared as an independent chapter by the accredited consultants subject to the conditions as recommended</p>

  
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by SEAC & normal / Standard conditions in addition to the following conditions and conditions stated therein vide **Annexure 'B'**. Further MS-SEIAA may write to government to take credible action against the proponent under section 19 of Environment Protection Act, 1986 as indicated by SEAC.

1. The PP shall furnish a Copy of valid mining lease approval obtained from the competent Authority.
2. The PP shall furnish Copy of mining plan approved by the competent authority of the Dept of Geology and Mining.
3. The PP shall furnish EMP for the project life including progressive mine closure plan and final mine closure plan with detailed budget plan.
4. The PP shall study in detail about the CO<sub>2</sub> release and temperature rise and the project activities that add to micro climate alternations and the same shall be included in the final EIA report.
5. The PP shall study in detail about impact of the proposed mining activity on the water bodies and natural flow of surface and ground water and the same shall be included in the final EIA report.
6. The PP shall study in detail about Possibilities of water contamination and impact on aquatic ecosystem health.
7. The PP shall study the impact on Invasive Alien Species (IAP).

  
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13.	Proposed Rough Stone and Gravel Quarry Lease over an extent of 2.43.5 Ha at S.F.No. 291/1A in Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by Thiru. V. Gopalakrishnan – For Terms of Reference (SIA/TN/MIN/450291/2023)	10502	The authority noted that the subject was appraised in the 436 <sup>th</sup> SEAC meeting held on 29.12.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) along with Public Hearing</b> under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions & the conditions mentioned in 'Annexure B' of this minutes.
14.	Proposed Rough Stone and Gravel Quarry Lease over an extent of 4.04.50 Ha at S.F.Nos. 361/1A, 361/2A2, 361/2B1, 366/1, 366/2, 366/3, 366/4, 366/5, 367/1, 367/2, 367/3A, 367/3B, 367/3C and 367/4 in Nambarai Village, Arcot Taluk, Ranipet District, Tamil Nadu by M/s. Dhana Blue metals – For Terms of Reference (SIA/TN/MIN/451002/2023)	10551	The authority noted that the subject was appraised in the 436 <sup>th</sup> SEAC meeting held on 29.12.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) along with Public Hearing</b> under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions & the conditions mentioned in 'Annexure B' of this minutes.
15.	Proposed Rough stone & Gravel quarry lease over an extent of 3.50.40Ha at SF.No. 167/2B, 2C, 2D (P) & 170/6 (P) of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by Thiru.A.Krishnasamy - For Terms of Reference. (SIA/TN/MIN/449067/2023)	10489	The Authority noted that the subject was appraised in the 436 <sup>th</sup> SEAC meeting held on 29.12.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) along with Public Hearing</b> under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by



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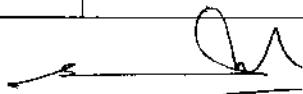


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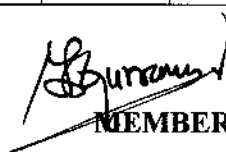


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			SEAC & normal conditions and conditions in <b>Annexure 'B'</b> of this minutes.
16.	Proposed Multi Colour Granite quarry lease over an extent of 4.35.0Ha at SF.No. 504, 505/1, 505/2 & 856/2A of Sithampoondi Village, Paramathi Velur Taluk, Namakkal District, Tamil Nadu by M/s. Kalpa Exports - For Terms of Reference. (SIA/TN/MIN/430764/2023)	10496	The Authority noted that the subject was appraised in the 436 <sup>th</sup> SEAC meeting held on 29.12.23. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) along with Public Hearing</b> under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions and conditions in <b>Annexure 'B'</b> of this minutes.  1. The PP shall submit the proposal for utilization of weathered rock for mine closure plan.
17.	Proposed Lime kankar quarry lease over an extent of 57.36.0Ha at SF.Nos.204/10 (0.17.5), 204/11 (0.11.5), 204/12 (0.05.5), 204/13 (0.05.5), 204/14 (0.05.5), 204/15 (0.05.0), 204/17 (0.13.5), 204/18 (0.09.0), 204/19 (0.08.0), 204/20 (0.02.5), 204/25 (0.12.5), 204/26 (0.14.0), 204/27 (0.26.5), 204/28 (0.02.5), 204/29 (0.03.0), 204/30 (0.02.5), 204/31 (0.12.5), 204/32 (0.03.0), 204/33 (0.03.0), 205/3A (0.56.5), 205/3B (0.18.0), 205/4 (0.75.0), 205/5A (0.33.0), 205/5B (0.30.0), 205/6 (0.51.5), 205/7 (0.61.0), 206/1A (0.14.5), 206/1B	10503	The Authority noted that the subject was appraised in the 436 <sup>th</sup> SEAC meeting held on 29.12.23. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) along with Public Hearing</b> under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions and conditions in <b>Annexure 'B'</b> of this minutes.  1. The PP shall submit the proposal for utilization of Top soil for green belt development.



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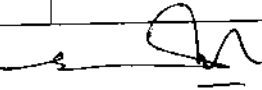
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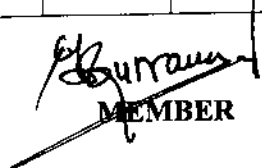
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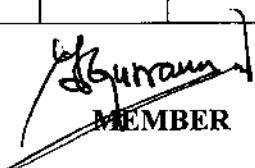
  
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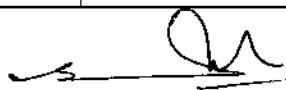
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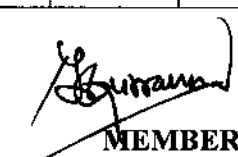
  
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18.	Proposed Rough stone & Gravel quarry lease over an extent of	10524	The Authority noted that the subject was appraised in the 436 <sup>th</sup> SEAC meeting held on 29.12.23. After



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<p>6.60.5Ha at SF.Nos. 414/1, 415A/1A &amp; 415A/2A of Palamadai Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by Thiru.K.Anantha Perumal - For Terms of Reference. (SIA/TN/MIN/451228/2023)</p>		<p>detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) along with Public Hearing</b> under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC &amp; normal conditions and conditions in <b>Annexure 'B'</b> of this minutes.</p> <p>1. The PP shall submit a comprehensive study on the behaviour of Gangaikondan spotted deer and the implications of the proposed activity on the eco system of the sanctuary by involving the research institutions such as ICFRE - Indian Council of Forestry Research and Education, Coimbatore (or) The Forest College and Research Institute (FC &amp; RI), Coimbatore (or) Wildlife Institution of India, Dehradun (or) Salim Ali Institute, Coimbatore.</p>
<p>19.</p>	<p>File No: 6299 Proposed Hotel and Restaurant Building Project located at Survey Nos. 205/1B8, 205/1C2, 205/2B, 205/3A2, &amp; 205/3C of Vandalur (Madhura Otteri) Village, Chengalpattu Taluk, Kancheepuram District, Tamil Nadu by Mr.P.Rajendran - Amendment in Environmental Clearance. (SIA/TN/MIS/304188/2023)</p> <p>The authority noted that the subject was appraised in 419<sup>th</sup> SEAC meeting held on 01.11.2023. Based on the presentation, SEAC decided to recommend the amendments to the of Environmental Clearance as requested by the PP, as above, subject to all the other conditions stipulated in EC vide Letter No.SEIAA-TN/F.6299/EC/8(a)/4322/2020 dated:14.08.2020 remains unaltered. After detailed discussions, the authority referred back the proposal to SEAC for re-appraisal on certain points.</p> <p>Now, the proposal was placed in the 693<sup>rd</sup> Authority meeting held on .02.2024. The authority noted that the subject was appraised in the 436<sup>th</sup> SEAC Meeting held on 29.12.2023. Based on the</p>	

  
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presentation, SEAC decided to recommend the amendments in modification of the earlier recommendations made in its 419<sup>th</sup> SEAC meeting held on 01.11.2023. SEAC has recommended for the grant of amendment of Environmental Clearance as requested by the PP as follows subject to all the other conditions stipulated vide EC Letter No. SEIAA-TN/F.No.6299/EC/8(a)/4322/2020 dated: 14.08.2020 remains unaltered.

Sl. No.	Reference as per EC Dated 14.08.2020	Project Details	EC Obtained	Amendment Recommended by SEAC
1.	Subject, Page No.1	Type of the Project	Proposed Hotel and Restaurant Building Project	Construction of Hotel and Convention Centre
<b>Section 2.0 Project Details</b>				
2.	S.No. 2 of Page No.2	Proposed Activity	Construction of Hotel and Restaurant Building Project	Construction of Hotel and Convention Centre
3.	S.No. 4 (iv) of Page No.2	Taluk	Chengalpattu	Vandalur
	S.No. 4 (v) of Page No.2	District	Kancheepuram	Chengalpattu
4.	S.No.6 of Page No.2	Built up area	31,222 Sq.m	30,714 Sq.m
5.	S.No.7 of Page No.2	Brief Description of the project	Construction of 3 Commercial blocks (Block A – G + 3 Floors, Block B – G + 1 to 3 floors + Service floor + 4 to 9 floors + Service	Construction of Hotel & Convention Centre comprising of Tower A (G + 9 Floors), Tower B

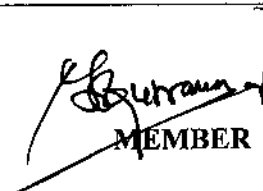
  
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			floor) with combined triple basement floors and Service Block (B + G + 2 Floors).	(G + 3 Floors) and Tower C (G + 1 Floor) with Combined Double Basement Floors (for Towers A, B & C)
6.	S.No.8 of Page No.2	Expected number of Occupancy	4,256 Nos.	3,538 Nos.
7.	S.No.10 of Page No.2	Parking Area	2,752 Sq.m	3,408 Sq.m [Parking area (including driveway): 11,088 Sq.m]
8.	S.No.12 of Page No.2	Water Supply		
		Fresh Water Consumption during Operation Phase	210 KLD	132 KLD
	S.No.12 (i) of Page No.3	i. Domestic purpose except for Toilet Flushing	209 KLD	107 KLD
	S.No.12 (ii) of Page No.3	ii. Swimming Pool Top Up	1 KLD	2 KLD
	-	HVAC use (additional Fresh water)	-	17 KLD
	-	Laundry	-	6 KLD
	S.No.12 (iii) of Page No.3	iii. Toilet Flushing (Recycled Water)	68 KLD	55 KLD

  
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	S.No.12 (iv) of Page No.3	iv. Green Belt development (Recycled Water)	4 KLD	4 KLD
	S.No.12 (v) of Page No.3	v. HVAC Use (Recycled Water)	192 KLD	100 KLD
9.	S.No.13 (i) of Page No.3	i. Sewage Generation	277 KLD	167 KLD
	S.No.13 (ii) of Page No.3	ii. Details of Sewage Treatment Plants (STP)	STP Capacity of 1 no. of 300 KLD	STP Capacity of 1 no. of 175 KLD
	S.No.13 (iii) of Page No.3	iii. Treated Sewage	264 KLD	159 KLD
	S.No.13 (iv) (i) of Page No.3	iv. Mode of Reuse, Disposal	Toilet Flushing	68 KLD
	S.No.13 (iv) (iv) of Page No.3	with quantity	HVAC use	192 KLD
	10.	-	iv. Effluent Generation	-
11.	-	v. Details of Effluent Treatment Plants (ETP)	-	ETP Capacity of 1 no. of 10 KLD
12.	-	vi. Treated Effluent	-	5 KLD

  
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13.		vii. Mode of Reuse, Disposal with quantity		Sent for Further Treatment to STP – 5 KLD
Solid waste Management				
	S.No.14 (a) of Page No.3	a. Total Municipal Solid Waste generated	1,361 Kg/day	1,158 Kg/day
	S.No.14 (i) of Page No.3	i. Biodegradable Waste	800 Kg/day – Converted to compost using Organic Waste Converter – Manure used for gardening/landscaping & Excess sold to Vendors	685 Kg/day - Treated in Organic Waste Converter and used as manure for gardening
14.	S.No.14 (ii) of Page No.3	ii. Dried Sludge from STP	28 Kg/day- Treated in OWC along with Biodegradable Waste after dewatering and drying process	17 Kg/day - Dewatered and Processed in OWC and Converted into manure
	S.No.14 (b) of Page No.3	b. Non-Biodegradable & Recyclable Waste	533 Kg/day – Handed over to Authorized Recyclers	456 Kg/day - Handed over to Authorized Recyclers/Vendors
	-	c. E - Waste	-	747 Kg/Annum - Dedicated storage in SWM room & handed over to Recyclers/Vendors
	-	d. ETP Sludge	-	20 Kg/day - Dedicated storage in SWM room &



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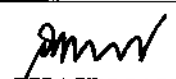


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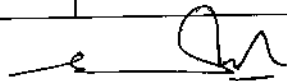
				handed over to TSDF
	<b>Power Requirement</b>			
	S.No.15 (a) of Page No.3	a. From Electricity Board	3, 000 kVA	1,600 kVA
15.	S.No.15 (b) (i) of Page No.3 & 4	b. DG sets i. Number of DG Sets	i. 2 Nos. of 500 kVA, ii. 1 No. of 750 kVA iii. 1 Nos. of 1,250 kVA	2 Nos. of 810 kVA
	S.No.15 (b) (ii) of Page No.4	ii. Height of Stack above the tallest Building	i. 2 Nos. of 500 kVA – 21 m, ii. 1 No. of 750 kVA – 22 m iii. 1 Nos. of 1,250 kVA – 24 m	2 Nos. of 810 kVA – 19 m
16.	S.No.17 of Page No.4	EMP Cost	<u>From Construction Phase</u> Capital Cost – 7.5 Lakhs Operation Cost – 16.5 Lakhs <u>From Operation Phase</u> Capital Cost – 260 Lakhs Operation Cost – 50 Lakhs	<u>From Construction Phase</u> Capital Cost – 7.5 Lakhs Operation Cost – 18 Lakhs <u>From Operation Phase</u> Capital Cost – 250 Lakhs Operation Cost – 50 Lakhs
17.	Point 6 of Page No.5	CER Activity	2.0 % of the Project Cost – Utilized for improvement of	1.0 % of the project Cost – Utilized for Infrastructure

  
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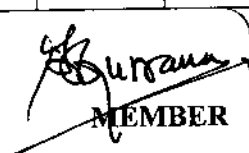
  
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			infrastructure facilities in the Government High School and improvement of water bodies near the project area through the District administration	Development for Government Adidravidar Nala Higher Secondary Schools of Kilambakkam, Vandalur R.F., Urappakkam & Government High School, New Otteri, Manikka Jalakanda Salai, Vandalur.
<p>In this connection, the authority after detailed discussion accepts the recommendation of SEAC in its 436<sup>th</sup> meeting held on 29.12.2023 and decided to grant of amendment of Environmental Clearance as recommended by SEAC in the EC issued vide Lr. No. SEIAA-TN/F.No.6299/EC/8(a)/4322/2020 dated: 14.08.2020 and the same shall be amended and substituted, subject to all the other conditions stipulated vide EC Lr. No. SEIAA-TN/F.No.6299/EC/8(a)/4322/2022 dated: 14.08.2020 remains unaltered.</p>				
20.	Proposed Lime stone quarry lease over an extent of 66.11.0 Ha at S.F.Nos. 180, 176, 179/1, 4, 181, 182/18, 185/2 of Ariyalur (Kurumbanchavadi) Village, S.F.Nos. 91, 92/4, 5, 1, 6, 113/3 of Ameenabad Village S.F.Nos. 218/1A, 226/1, 233/2, 236, 238/2, 4, 261, 277/7, 16, 513/1, 2, 4, 514/1, 2, 9, 162/5B, 163/14, 164/1, 6, 165/1B, 166/2B, 167/1, 169/1, 474/1, 2 of Kallankurichi Village S.F.Nos. 28/1, 7, 29/1, 30/1, 13, 15, 31/10, 281/1,	6691	<p>The authority noted that the subject was appraised in the 436<sup>th</sup> SEAC meeting held on 29.12.2023 and SEAC decided to reiterate its recommendations already made in the 324<sup>th</sup> SEAC meeting held on 21.10.22, subject to all the other conditions stipulated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects, and to ensure sustainable, scientific and systematic mining, SEIAA decided to grant <b>Environmental Clearance under Violation category for the total RoM quantity of 4,64,174 tonnes which includes 4,64,174 tonnes of</b></p>	



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281/3. 282, 291 of Kairulabad Village Ariyalur Taluk, Ariyalur District, Tamil Nadu by M/s. Tamil Nadu Cements Corporation Ltd- For Environmental Clearance under violation.


(SIA/TN/MIN/67645/2018

**Limestone (100% recovery) with an ultimate depth of mining 10m BGL and the annual peak production capacity of not exceeding RoM quantity of 1,00,680 tonnes (100% recovery Limestone).** This is also subject to the conditions imposed by SEAC, normal conditions stipulated by MOEF&CC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.

1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.
2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years and also during the mine plan period, till the project life so as to review the EC conditions and to ensure that they have all been adhered to and implemented.
3. The project proponent shall submit a Certified Compliance Report obtained from IRO of MoEF&CC to the monitoring, regulatory and other concerned authorities including SEIAA, while seeking a renewal of the mining plan to cover the project life.
4. There should be regular monitoring of air quality, water quality, ground water level and noise quality and reports regarding the same should be submitted to TNPCB, SEIAA & IRO of MoEF&CC once in every 6 months.
5. The proponent shall strictly adhere to the mining plan and half yearly and annual

  
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returns shall be submitted to the Director of Geology and Mining Department with copy marked to TNPCB, SEIAA & IRO of MoEF&CC.

6. Biodiversity in and around the project area should be monitored frequently and detailed biodiversity report should be submitted every year to SEIAA & IRO of MoEF&CC.
7. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP and as per the amount committed and approved in EC for EMP. Status of progressive mine closure and green belt implementation should be included in the half yearly compliance report submitted to TNPCB, SEIAA & IRO of MoEF&CC.
8. 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.
9. 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-

  
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			annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.
21.	Proposed Rough stone & Gravel quarry lease over an extent of 2.82.5Ha at SF.Nos. 153/1, 2, 3, 4, 5, 6, 154/3A2, 162/9, 10 & 11 of Udaiyalipatti Village, Kulathur Taluk, Pudukottai District, Tamil Nadu by Tmt.U.Vijayalakshmi - For Terms of Reference. (SIA/TN/MIN/452543/2023)	10545	The Authority noted that the subject was appraised in the 436 <sup>th</sup> SEAC meeting held on 29.12.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) along with Public Hearing</b> under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions and conditions in <b>Annexure 'B'</b> of this minutes.
22.	Proposed Rough Stone and Gravel quarry over an extent of 0.99.50 Ha at S.F.Nos. 205/1 and 207/1 of Duraiswamipuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by Thiru. V. Rajendran – For Terms of Reference. (SIA/TN/MIN/447529/2023)	10497	The authority noted that the subject was appraised in the 436 <sup>th</sup> SEAC meeting held on 29.12.2023. The Project Proponent vide letter dated 28.12.2023 has requested the Committee to defer their proposal for later meeting, since, the proponent was not able to attend the meeting due to health issue. Hence, the Committee decided to defer the proposal. In view of the above, the Authority accepted the decision of SEAC and decided to request Member Secretary, SEIAA to communicate the minutes of 436 <sup>th</sup> SEAC meeting to the project proponent.
23.	Proposed Rough Stone and Gravel quarry over an extent of 4.09.0 Ha at S.F.Nos. 405/2, 406/1A, 406/1B1A, 406/1B1B, 406/1C1 & 406/2A of Panapatti Village, Kinathukkadavu Taluk, Coimbatore District, Tamil Nadu by Thiru. M. Rajesh - For	10553	The authority noted that the subject was appraised in the 436 <sup>th</sup> SEAC meeting held on 29.12.2023. SEAC has furnished its recommendations for granting Terms of Reference with Public Hearing subject to the conditions stated therein.

  
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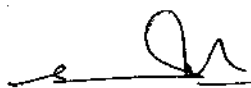
	<p>Terms of Reference. (SIA/TN/MIN/447079/2023)</p>		<p>The Authority, after detailed discussions decided to consider the proposal after obtaining the following particulars from the project proponent:</p> <ol style="list-style-type: none"> <li>1. In case of the existing quarry/operating mines, the PP shall obtain a letter from the concerned AD (Mines) which shall stipulate the following information: <ol style="list-style-type: none"> <li>i. Original pit dimension of the existing quarry</li> <li>ii. Quantity achieved Vs EC Approved Quantity</li> <li>iii. Balance Quantity as per Mineable Reserve calculated.</li> <li>iv. Mined out Depth as on date Vs EC Permitted depth</li> <li>v. Details of illegal/illicit mining carried out, if any</li> <li>vi. Non-compliance/Violation in the quarry during the past working.</li> <li>vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.</li> <li>viii. Existing condition of Safety zone/benches</li> <li>ix. Details of any penalties levied on the PP for any violation in the quarry operation</li> </ol> </li> </ol>
24.	<p>Proposed Black Granite quarry lease over an extent of 1.68.5 Ha at S.F.Nos. 408/2B, 410/1A, 420/1A, 420/1B1 &amp; 421/2B of Karandapalli Village, Denkanikottai Taluk,</p>	8022	<p>The authority noted that the subject was appraised in the 436<sup>th</sup> SEAC meeting held on 29.12.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p>

  
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<p>Krishnagiri District, Tamil Nadu by Tmt. Mohana Gopinath (Legal Heir), W/o. Late. A. Gopinath (applicant) – For Environmental Clearance. (SIA/TN/MIN/180892/2020)</p>	<p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of 4723 m<sup>3</sup> ROM which includes 1417 m<sup>3</sup> of Black Granite Recovery (@30%) &amp; 3306 m<sup>3</sup> of Granite Waste (@70%) up to the ultimate depth of 31m below ground level for the period of 2023-24. This is also subject to the conditions imposed by SEAC, normal conditions stipulated by MOEF&amp;CC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <ol style="list-style-type: none"> <li>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</li> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years and also during the mine plan period, till the project life so as to review the EC conditions and to ensure that they have all been adhered to and implemented.</li> <li>3. The project proponent shall submit a Certified Compliance Report obtained from IRO of MoEF&amp;CC to the monitoring, regulatory and other concerned authorities including SEIAA, while seeking a renewal of the mining plan to cover the project life.</li> <li>4. There should be regular monitoring of air quality, water quality, ground water level and noise quality and reports regarding the same should be</li> </ol>
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submitted to TNPCB, SEIAA & IRO of MoEF&CC once in every 6 months.

5. The proponent shall strictly adhere to the mining plan and half yearly and annual returns shall be submitted to the Director of Geology and Mining Department with copy marked to TNPCB, SEIAA & IRO of MoEF&CC.
6. Biodiversity in and around the project area should be monitored frequently and detailed biodiversity report should be submitted every year to SEIAA & IRO of MoEF&CC.
7. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP and as per the amount committed and approved in EC for EMP. Status of progressive mine closure and green belt implementation should be included in the half yearly compliance report submitted to TNPCB, SEIAA & IRO of MoEF&CC.
8. 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.
9. 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

  
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			EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.
25.	Proposed Rough Stone and Gravel Quarry Extent: 1.60.0ha S.F.Nos.162 & 163/2 (P) of Pachapalayam Village, Suler Taluk, Coimbatore District by Thiru. R. Durairaj - For Terms of Reference. (SIA/TN/MIN/450067/2023)	10491	<p>The authority noted that the subject was appraised in the 436<sup>th</sup> SEAC meeting held on 29.12.2023 and SEAC has furnished its recommendations for granting <b>Terms of Reference (ToR) along with Public Hearing</b> subject to the conditions stated therein.</p> <p>After detailed discussion accepts the decision of SEAC and decided to grant <b>Terms of Reference (ToR) along with Public Hearing</b> under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the following special conditions &amp; conditions as recommended by SEAC &amp; normal conditions in addition to the conditions in '<b>Annexure B</b>' of this minute.</p> <ol style="list-style-type: none"> <li>1. The project proponent shall prepare mine closure plan considering quantity of Topsoil &amp; Weathered rock.</li> <li>2. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.</li> </ol>
26.	Proposed Expansion in Existing Warehouse storage & R & D building at S. No. 175 (part) of Ernavoor Village, S. No. 6/1A1 of Tiruvottiyur Village in T.S. No. 3,	10198	The Authority noted that the subject was appraised in the 436 <sup>th</sup> SEAC meeting held on 29.12.2023. In view of the facts and observations, recommendation made by the TNSCZMA and the provisions contained in CRZ Notification, 2011 as amended, SEAC is of the

  
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5/1A, 5/2A Block No. 1, Ward No. 1 of Tiruvottiyur, Wimco Nagar, Ennore Express Road, Chennai - 600019, Thiruvallur District, Tamil Nadu by M/s. MRF Limited- For Clearance under CRZ Notification 2011.

(SIA/TN/INFRA2/433358/2023)

opinion that SEIAA may get the remarks of TNCZMA on the following points.

A. As per CRZ Notification, "setting up of new industries and expansion of existing industries, operations or process," is a prohibited activity. The total built-area of the existing structures in the impugned area is 29,542.16 Sqm and the structure is used as warehouse-cum-trye testing (R&D) facility by the proponent. Whether the existing industrial shed or warehouse-cum-trye testing facility is a permitted activity within CRZ II area.

B. It is found from the record that the PP has obtained CRZ clearance from TNCZMA and not from SEIAA which is the competent authority to issue CRZ clearance as per the CRZ Notification, 2011 amended vide S.O. No. 3085(E) dated 28.11.2014. Hence, the TNSCZMA may consider the following;

I. As the proponent has not obtained **CRZ clearance for the existing structures** from SEIAA, which is the competent authority, this proposal falls under violation category attracting the procedure prescribed by MoEF&CC for CRZ Clearance vide S.O. 3085(E) dated: 28.11.2014 and therefore, TNCZMA has to follow the SOP issued by MoEF&CC vide Office Memorandum Dated: 19.02.2021 for assessing Environmental Compensation and

  
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make its recommendations, if it arrives at the conclusion that the existing structures are not covered under prohibited activities.

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

**The Authority after detailed discussions, decided the following,**

1. The MS, SEIAA is requested to get the remarks of TNCZMA on the following points.
  - a. As per CRZ Notification, "setting up of new industries and expansion of existing industries, **operations or process,**" is a prohibited activity. The total built-area of the existing structures in the impugned area is 29,542.16 Sqm and the structure is used as warehouse-cum-trye testing (R&D) facility by the proponent. Whether the existing industrial shed or warehouse-cum-trye testing facility is a permitted activity within CRZ II area.
  - b. It is found from the record that the PP has obtained CRZ clearance from TNCZMA and not from SEIAA which is the competent authority to issue CRZ clearance as per the CRZ Notification, 2011 amended vide S.O.

  
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No. 3085(E) dated 28.11.2014. Hence, the TNSCZMA may consider the following;

- As the proponent has not obtained **CRZ clearance for the existing structures** from SEIAA, which is the competent authority, this proposal falls under violation category attracting the procedure prescribed by MoEF&CC for CRZ Clearance vide S.O. 3085(E) dated: 28.11.2014 and therefore, TNCZMA has to follow the SOP issued by MoEF&CC vide Office Memorandum Dated: 19.02.2021 for assessing Environmental Compensation and make its recommendations, if it arrives at the conclusion that the existing structures are not covered under prohibited activities.

2. The Authority further noted that the petition filed before the NGT, Southern Zone in Original Application No.224 of 2021 is disposed. Based on the Judgement, the Authority after detailed deliberation, decided to request the MS, SEIAA to do the following,

  
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			<p>I. As per the NGT direction, the present proposal may be referred to TNCZMA for examination and for according recommendation by imposing additional conditions, if any based on the CRZ Notification, 2011 as amended.</p> <p>II. The Judgement copy dated:30.01.2024 may be forwarded to SEAC to call the Chairman, CMDA for enquiry as directed by the NGT (SZ) in para 36 and to arrive at Environmental Compensation.</p> <p>Upon the receipt of the remarks from TNCZMA, this proposal may be forwarded to SEAC along with remarks of TNCZMA.</p>
27.	Proposed Integrated 4GW Solar cell and Module Manufacturing plant at SF. Nos: 1641 pt, 1474 pt, 1475, 1476, 1477 pt, 1478 pt, 1479, 1480, 1481 pt, 1495 pt, 1642 pt, 1901 pt, 1903 pt, 1904 pt, 1905 pt, 1906 pt, 1907 pt, 1908, 1909, 1910 pt, 1911, 1912 pt, 1913 pt, 1914 pt, 1915 pt, 1916 pt, 1917 pt, 1922 pt, 1923 pt, 1924 pt, 1925 pt, 1926 pt, 1927 pt, 1931 pt, 1919 pt, 1921 pt (Plot No. A104, A105, A106, A107 & A108, A109) at SIPCOT Industrial park of Gangaikondan Village, Tirunelveli District, Tamil Nadu by M/s. TP Solar Limited- For Terms of	10573	<p>The Authority noted that the subject was appraised in the 436<sup>th</sup> Meeting of SEAC held on 29.12.23. During the meeting the PP requested additional time to present his proposal. Hence the Committee decided to defer the proposal.</p> <p>In view of the above, Authority decided to request the Member Secretary, SEIAA to communicate the minutes to the project proponent held on 29.12.23.</p>

  
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Reference. (SIA/TN/INFRA2/454338/2023)		
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**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.
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.

  
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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**

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



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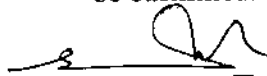
labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.

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

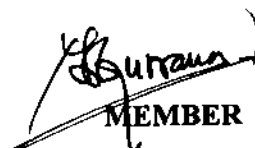
17. The activity should not result in CO<sub>2</sub> release and temperature rise and add to micro climate alternations.
18. The proponent shall ensure that the activities undertaken do not result in carbon emission, and temperature rise, in the area.
19. The proponent shall ensure that Monitoring is 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**

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.



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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**

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.

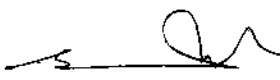
33. The proponent shall ensure that the activities do not disturb the agro biodiversity and agro farms. Actions to be taken to promote agroforestry, mixed plants to support biodiversity conservation in the mine restoration effort.

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.



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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.
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.

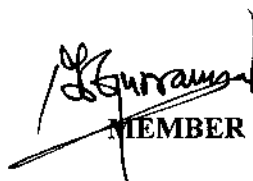
**j) Reserve Forests & Protected Areas**

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**



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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.

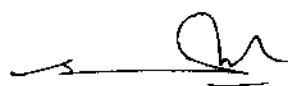
56. The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.

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-



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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.

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.

  
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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 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

  
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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

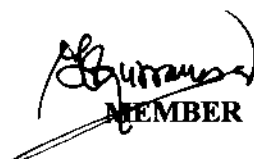
1. Cluster Management Committee shall be framed which must include all the proponents in the cluster as members including the existing as well as proposed quarry.
2. The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water 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 .

  
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- b) Climate change leading to Droughts, Floods etc.
- c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
- d) Possibilities of water contamination and impact on aquatic ecosystem health.
- e) Agriculture, Forestry & Traditional practices.
- f) Hydrothermal/Geothermal effect due to 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,

  
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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.

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**

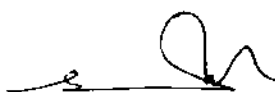
32. The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities.

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**



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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**

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.

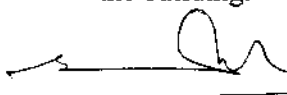
**Others**

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.



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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.
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

  
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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**

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**

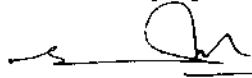
28. The proponent should develop an emergency response plan in addition to the disaster management plan.

29. The proponent shall develop detailed evacuation plan for disabled people and safety evacuation plan in emergencies.

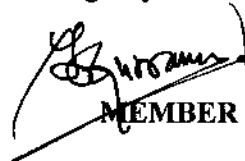
30. All bio-safety standards, hygienic standards and safety norms of working staff and patients to be strictly followed as stipulated in EIA/EMP.

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.



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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.

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**

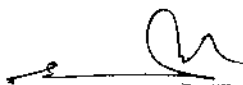
41. The proponent shall ensure that no form of municipal solid waste shall be disposed outside the proposed project site at any time.

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.



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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.

**Annexure - 'D'**

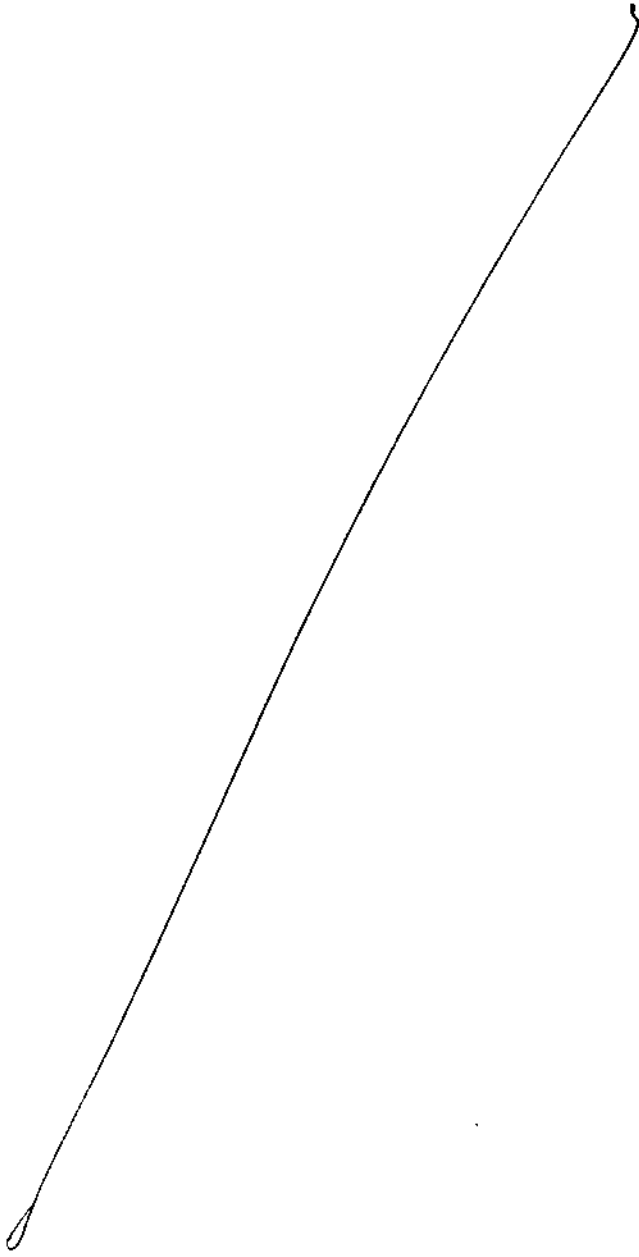
1. Impacts on Energy requirement.
2. Impacts on living System (air ,water ,soil & micro organism).
3. Impacts on terrestrial & aquatic within and surrounding areas.
4. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed 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.

  
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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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