

409

**MINUTES**

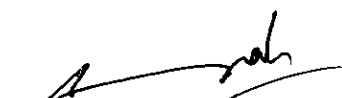
**660<sup>th</sup> MEETING**

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

**Date: 06.10.2023**

**MINUTES OF THE 660<sup>th</sup> MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT  
ASSESSMENT AUTHORITY HELD ON 06.10.2023.**

Agenda No	Description	File No.	Minutes
a)	Confirmation of the minutes of the 659 <sup>th</sup> meeting of the Authority held on 29.09.2023.		The minutes of the 659 <sup>th</sup> meeting of the Authority held on 29.09.2023 was confirmed.
b)	The Action taken on the decisions of the 659 <sup>th</sup> meeting of the Authority held on 29.09.2023.		The Member Secretary informed that 659 <sup>th</sup> Minutes uploaded in Parivesh website and action taken report will be putup ensuing meeting.
1.	Proposed Multi Colour Granite quarry lease over an extent of 3.54.5 Ha at SF. Nos. 544/1H2 & 549/2A1 of Gudalur Village, Kulithalai Taluk, Karur District Tamil Nadu by M/s. Himalaya Enterprises - For Terms of Reference. (SIA/TN/MIN/430580/2023)	10270	The authority noted that the subject was appraised in 409 <sup>th</sup> SEAC meeting held on 21.09.2023. 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> . 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 in addition to the following conditions and the conditions mentioned in 'Annexure B' of this minute:
2.	Existing Steel Plant at SF.Nos. 265/2E of Nallur Village, Paramathi Velur Taluk, Namakkal District, Tamil Nadu by M/s. Ran India Steels Private Limited - For Terms of	10305	The authority noted that the subject was appraised in 409 <sup>th</sup> SEAC meeting held on 21.09.2023. Based on the presentation made by the proponent SEAC recommended grant of <b>Terms of Reference (TOR) without Public Hearing</b> .

  
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	<p>Reference. (SIA/TN/IND1/438197/2023)</p>	<p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) without Public Hearing</b> 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.</p> <ol style="list-style-type: none"> <li>1. The proponent shall submit the green technologies deployed in the production to reduce carbon footprint, Green House Gas (GHG), CO2 and rise in temperature.</li> <li>2. Details regarding strategies adopted for occupational health safety and energy efficiency standards shall be submitted.</li> <li>3. The proponent shall submit detailed report regarding temperature rise and climate change impacts due to the proposed project and control measures.</li> <li>4. The PP shall study fugitive emissions and regular emission monitoring strategies to prevent their escape into the environment.</li> <li>5. Details regarding the transparency and accountability system in place during the operation period of the project.</li> <li>6. Details regarding the In-House environmental performance and evolution tools to evaluate the impacts of the project on the environment.</li> <li>7. Detailed study is to be made on material flow analysis and Life Cycle Assessment (LCA) in the process of production and the report shall be submitted.</li> </ol>
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		<ol style="list-style-type: none"> <li>8. Through a chart Illustration, clarify the cradle-to-grave approach for anticipated emissions and environmental threats in every stage, and the mitigation strategy at every stage shall be submitted.</li> <li>9. If the project activity includes disposal of waste/rejects into landfill, the proponent shall furnish details on the strategies adopted to manage the same.</li> <li>10. The proponent shall study the ways of improving recycling efficiency.</li> <li>11. The proponent shall furnish the details about the radioactive contaminations related to the project.</li> <li>12. The proponent shall furnish details about the management of quenching water.</li> <li>13. Project Proponent shall submit the action plan to study the impacts on human health viz respiratory impacts, toxicity impacts and radiation impacts.</li> <li>14. The proponent shall submit a detailed study report regarding the chemical exposures and risks anticipated to environment and human health.</li> <li>15. The proponent shall strictly adhere to the mitigation measures as committed regarding the emission of Green House Gas (GHG) and other gas emissions.</li> <li>16. The proponent shall submit a detailed study report regarding the terrestrial and aquatic toxicity due to the proposed project.</li> <li>17. The green belt area should be not less than 15% of the total land area of the project.</li> <li>18. The proponent shall furnish details on the green practices adopted so as to support the circular economy.</li> </ol>
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			<p>19. The proponent shall conduct a study and furnish details on the impact of the project on the communities in and around the project area.</p> <p>20. The proponent shall furnish details on the impact on employee health due to the project activities.</p>
3.	<p>Proposed Rough Stone quarry lease over an extent of 4.94.32 Ha at SF.Nos. 314 (Part – III) of Thuppuganapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. G. Perumal - For Terms of Reference. (SIA/TN/MIN/430287/2023)</p>	10312	<p>The proposal was placed in the 409<sup>th</sup> SEAC Meeting held on 21.09.2023.</p> <p>During the meeting the EIA coordinator informed that the project proponent was absent for the meeting. Hence the subject was not taken up for appraisal and committee decided that the project proponent shall furnish the reason for his absence.</p> <p>In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary to communicate the minutes of 409<sup>th</sup> SEAC Meeting held on 21.09.2023 to the project proponent.</p>
4.	<p>Proposed Rough Stone and Gravel quarry lease over an extent of 1.58.0 Ha at SF.Nos. 43/1A, 1B(P) &amp; 45/1A1, 1A2(P) of Appayanaickenpatti Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu by Thiru. S. Subburaj - For Terms of Reference. (SIA/TN/MIN/439326/2023)</p>	10319	<p>The authority noted that the subject was appraised in 409<sup>th</sup> SEAC meeting held on 21.09.2023.</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>

  
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5.	<p>Proposed Rough Stone and Gravel quarry lease over an extent of 0.70.50 Ha at SF.Nos. 163/1A, 1B, 1C of Chokkanathanputhur Village, Rajapalayam Taluk, Virudhunagar District, Tamil Nadu by Thiru. K. Prasanna - For Terms of Reference. (SIA/TN/MIN/440188/2023)</p>	10326	<p>The proposal was placed in the 409<sup>th</sup> SEAC Meeting held on 21.09.2023.</p> <p>Based on the presentation and document furnished by the proponent, SEAC noted that</p> <ol style="list-style-type: none"> <li>1. The sensitive structures possessed by Government Hospital and School are located within 500m radius from the proposed mine lease area.</li> <li>2. Another structure – Brick kiln which is highly sensitive to the impacts produced from the blasting operation is situated within 300 m.</li> <li>3. The Eco-sensitive Zone of the Srivilliputhur Grizzled Squirrel Wildlife Sanctuary &amp; SMTR boundary is located at a distance of 2.7 km (NW) from the lease area.</li> <li>4. Besides, two quarries are already operating within the vicinity of 500 m in the extent of 4.10 Ha and the addition of the proposed quarry may increase the pollution load in the existing area by virtue of using same transportation routes with the location of sensitive zones such as school and hospital premises.</li> <li>5. The proposed quarry is shown in the virgin area for a lease area of less than 1 Ha not ideally suitable for systematic &amp; scientific operations.</li> </ol> <p>Further, this proposal attracts the following legal implications:</p> <ol style="list-style-type: none"> <li>(i) Under the provisions of Tamil Nadu Minor Mineral Concession Rules, 1959, Rule 36 (1-A) (a) says</li> </ol>
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".... No lease shall be granted for quarrying stone within 300 meters (three hundred meters) from any inhabited site: Provided that the exiting quarries which are subsisting under current leases shall be entitled for continuance till the expiry of the lease period. The lessees whose quarries lie within a radius of 300 metres from the inhabited site shall undertake blasting operations only after getting permission of the Director of Mines Safety, Chennai".

Similarly, Rule 36 (1-A) (c) also indicates

".... No new layout, building plans falling within 300 metres from any quarry should be given approval by any agency unless prior clearance of the Director of Geology and Mining is obtained. On receipt of proposals for according clearance, the Director of Geology and Mining (DGM) shall decide upon the continuance or closure, as the case may be of any quarry which is situated within 300 metres from the now layout, building sought for such clearance....".

**In view of the above reasons, the SEAC decided that grant of Environmental Clearance for this proposal will be detrimental to environment in this area and consequently decided not to ToR and also not to recommend the Environmental clearance to this proposal at this juncture.**

  
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			The Authority, after discussions, accepted the decision of SEAC, rejected the proposal and decided to request Member Secretary, SEIAA-TN to grant rejection letter to proponent as per the 409 <sup>th</sup> SEAC minutes. Further, Authority decided to close and record this proposal.
6.	Proposed Rough Stone and Gravel Quarry at over an Extent of 3.01.00 Ha of S.F.Nos. 302/1 304/1A & 304/2A of Anaikulam Village, Veerakeralampudur Taluk, Tenkasi District, Tamil Nadu by Thiru. N.H.M. Pandian – For Terms of Reference (SIA/TN/MIN/439473/2023)	10299	The authority noted that the subject was appraised in the 409 <sup>th</sup> SEAC meeting held on 21.09.2023. During the meeting, the Committee noted that the project proponent was absent and hence the subject was not taken up for discussion. Further, the SEAC decided that the proponent shall furnish reason for absence. The Authority noted the minutes of SEAC.
7.	Proposed Multi Colour Granite Quarry lease over an Extent of 5.43.0 Ha at S.F.Nos. 96/2A, 96/2B(Part), 97/3A(Part), 94/1(Part), 93(Part), 92/3(Part), 91/2(Part) and 91/1(Part) of Sandhaiyur Village, Sattur Taluk, Virudhunagar District, Tamil Nadu by M/s. Siva Jeyam Granites – For Terms of Reference (SIA/TN/MIN/439527/2023)	10313	The authority noted that the subject was appraised in the 409 <sup>th</sup> SEAC meeting held on 21.09.2023. The SEAC after detailed deliberations decided the following: i) The EIA consultant is requested to submit the damage assessment report for the violations committed by the PP as per CPCB norms. The report shall include assessment of ecological damage, remediation plan and natural and community resource augmentation plan. ii) Further, the SEIAA is requested to point out to the IRO, MoEF & CC regarding the incorrect values pertaining to the existing depth of the quarry mentioned in the CCR dated. 03.02.2023 furnished by the Integrated Regional Office, MoEF & CC, Chennai.

  
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			<p>The Authority, after deliberations, decided to request Member Secretary SEIAA to address IRO of MoEF&amp;CC, Chennai as directed by SEAC, to inform that the data provided in the Certified Compliance Report furnished by IRO, Chennai vide F.No.EP/12.1/2022-23/SEIAA/250/TN/155 dated.03.02.2023 for the EC issued by SEIAA dated.08.01.2016 is incorrect, specifically with respect to the current depth of mining achieved by the proposed.</p> <p>Further, the EIA consultant is requested to furnish the damage assessment report as indicated by SEAC within one month.</p>
8.	Proposed Rough Stone and Gravel Quarry lease over an extent of 1.25.0 Ha S.F.Nos. 492/2A(P), 492/2B(P), 492/2C(P), 492/2D(P), 493/1A2(P), 493/1B(P) and 493/1C(P) of Pakkam Village, Maduranthagam Taluk, Chengalpattu District Tamil Nadu by Thiru. R. Anugrahprasath – For Terms of Reference (SIA/TN/MIN/440547/2023)	10327	<p>The authority noted that the subject was appraised in the 409<sup>th</sup> SEAC meeting held on 21.09.2023. 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 &amp; normal conditions in addition to the conditions mentioned in 'Annexure B' of this minutes.</p>
9.	Proposed Multi Colour Granite Quarry over an extent of 2.30.0Ha at SF.No. 12/1A, 12/1B, 12/1C, 12/1D, 12/1E, 12/2A, 12/2B, 12/2C, 12/3A, 12/3B, 12/3C, 12/3D, 12/3E, 12/4A, 12/4B and 12/5A of Veeriyapalayam Village, Krishnarayapuram Taluk,	10272	<p>The Authority noted that the subject was appraised in the 409<sup>th</sup> Meeting of SEAC held on 21.09.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to grant ToR with Public Hearing subject to the conditions stated therein.</p>

  
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	Karur District, Tamil Nadu by Thiru. K. Deivendran - For Terms of Reference. (SIA/TN/MIN/430716/2023)		After detailed discussions, the Authority decided to request the Member Secretary, SEIAA-TN to obtain the following details and place before the Authority for further course of action.  1. As stated in SEAC minutes, the PP shall furnish an affidavit stating that the mining operations will remain suspended till they obtain the EC granted by the SEIAA after the reappraisal process as per MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.  In view of the above, Authority decided to request the Member Secretary, SEIAA to communicate the minutes to the project proponent.
10.	Proposed Construction of Multi Storeyed Residential Apartment Buildings at T.S.Nos 74/2, 74/3, 74/4, 74/5, 74/6, 74/7, 74/8 in Block 26, Ward-W (23) Ganapathy Village, and T.S. Nos: 7 (Part), 8 (Part) in Block 3, Ward-X (24) of Krishnarayapuram Village, Coimbatore North Part, Coimbatore North Taluk, Coimbatore District, Tamil Nadu by M/s. A.V Properties India Private Limited - For Terms of Reference. (SIA/TN/INFRA2/421190/2023)	10279	The authority after detailed discussion accepts the recommendation of SEAC in its 409 <sup>th</sup> SEAC meeting dated 21.09.2023 and decided to issue ToR, subject to conditions stated vide Annexure 'D'. Further, this ToR granted will not entail EC to the proponent as the case W.P (MD). No. 11757 of 2021 of 2021 is pending before Hon'ble Madurai Bench of the High Court of Madras.
11.	Proposed Rough stone & Gravel Quarry over an extent of 0.86.0Ha at SF.No. 347/1B & 347/2B of Elathur 'A' Village, Nambiyur Taluk, Erode	10286	The authority noted that this proposal was placed for appraisal in 409 <sup>th</sup> meeting of SEAC held on 21.09.2023, the committee has furnished its recommendations for granting ToR with Public

  
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	District, Tamil Nadu by Thiru. K.Vijay Perichiyappan - For Terms of Reference. (SIA/TN/MIN/438772/2023)		hearing subject to the conditions stated therein. 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 in addition to the conditions in ' <b>Annexure B</b> ' of this minute.
12.	Proposed Ordinary stone & Gravel Quarry over an extent of 2.28.0Ha at SF.No. 174/4 & 176/1 of Edayarpalayam Village, Suler Taluk, Coimbatore District, Tamil Nadu by Thiru.K.Ranganathan - For Terms of Reference. (SIA/TN/MIN/436694/2023)	10293	The authority noted that this proposal was placed for appraisal in 409 <sup>th</sup> meeting of SEAC held on 21.09.2023, the committee has furnished its recommendations for granting ToR with Public hearing subject to the conditions stated therein. 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 in addition to the conditions in ' <b>Annexure B</b> ' of this minute.
13.	Proposed Manufacturing of Synthetic Organic Chemicals – API (Bulk Drugs & Intermediates) at S.F.No. 114/1A2, 113/7 & 113/8 of Porur Village, Cheyyur Taluk, Chengalpattu District Tamil Nadu by M/s. Nutri Flavours Private	10328	The authority noted that this proposal was placed for appraisal in 409 <sup>th</sup> meeting of SEAC held on 21.09.2023. Based on the presentation and details furnished by the project proponent, SEAC decided to defer and call for additional particulars as follows, The PP states that the plant is located outside the Notified industrial area and requires EC at SEAC/SEIAA which is small unit. Hence,

  
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	Limited - For Terms of Reference. (SIA/TN/IND3/439198/2023)		<ol style="list-style-type: none"> <li>1. The PP shall furnish original DPR.</li> <li>2. The PP shall submit water balance data.</li> <li>3. The PP shall furnish boiler capacity and its fuel consumption.</li> <li>4. The PP shall furnish the details of complete process description, flow data etc.,</li> <li>5. The PP should have obtained EC for the existing products (hydrolysed Vegetable Protein liquid/Powder &amp; Mixed Amino acid liquid ingredients, Bio fertilizer &amp; Pharma formulations), and the PP shall justify reason for not obtaining EC for the same.</li> </ol> <p>In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 21.09.2023.</p>
14.	Proposed Multi Colour Granite quarry over an extent of 4.08.5 Ha at S.F. Nos. 505/1, 509/1, 509/2, 510, 511 and 571/4 of Pilathu Village, Vedasandur Taluk, Dindigul District, Tamil Nadu by M/s. Alagu GG Granite - For Terms of Reference (SIA/TN/MIN/430639/2023)	10308	The authority noted that this proposal was placed for appraisal in 409 <sup>th</sup> SEAC meeting held on 21.09.2023, the committee has furnished its recommendations for granting ToR with Public hearing subject to the conditions stated therein. 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 in addition to the conditions in ' <b>Annexure B</b> ' of this minutes.
15.	Proposal of Software Development Complex at Plot No-3/G3 (S.F. Nos.	10315	The authority noted that this proposal was placed for appraisal in 409 <sup>th</sup> SEAC meeting held on

  
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<p>111/1 part, 168/1 part &amp; 130/1 part) of SIPCOT Information Technology Park, Siruseri, Egattur Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu by M/s. Intellect Design Arena Limited – For Terms of Reference under violation. (SIA/TN/INFRA2/439504/2023)</p>		<p>21.09.2023. Based on the presentation and documents furnished by the project proponent, the SEAC decided to <b>recommend for the grant of Terms of Reference (ToR) under violation category</b> subject to the ToRs stated therein, in addition to the standard terms of reference for EIA study and details issued by the MOEF &amp; CC to be included in the EIA/EMP report along with assessment of ecological damage, remediation plan and natural &amp; community resource augmentation plan and it shall be prepared as an independent chapter in the Environment Impact Assessment report by the accredited consultant and also with collection and analysis of data for the assessment of ecological damage, preparation of remediation plan and natural &amp; community resource augmentation plan to be done by an Environmental laboratory duly notified under the Environment (Protection) Act, 1986, accredited by NABET or a laboratory of Council of Scientific and Industrial Research Institutions working in the field of Environment. <b>This ToR is issued subject to the outcome of the court case filed before the Hon'ble High Court of Madras (Madurai Bench) vide W.P.(MD) No. 11757 of 2021 titled Fatima Vs Union of India challenging the SoP for violation proposals dated 07th July 2021.</b></p> <p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) under violation category</b> for undertaking EIA study followed by the EMP report along with assessment of ecological damage, remediation plan and natural and</p>
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			community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants subject to the conditions as recommended by SEAC & normal / standard conditions in addition to the following conditions and conditions stated therein vide <b>Annexure 'D'</b> .
16.	Proposed Expansion for Manufacturing of Synthetic Organic Chemicals – API (Bulk Drugs & Intermediates) at S.F. Nos. 45/2A, 45/1B, 45/2B of Pazhayanur Village and S.F. Nos. 39/1A (Pt), 39/1B (Pt), 39/1C (Pt), 44/4 (Pt), 45/4 (Pt) of Kolambakkam Village, Maduranthagam Taluk, Chengalpattu District, Tamil Nadu by M/s. Innovative Health Care (India) Pvt. Ltd. - For Terms of Reference (SIA/TN/IND3/436676/2023)	10329	<p>The authority noted that this proposal was placed for appraisal in 409<sup>th</sup> SEAC meeting held on 21.09.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following additional details.</p> <ol style="list-style-type: none"> <li>1. The project proponent has to furnish Detailed Project Report (DPR).</li> <li>2. The project proponent shall furnish complete process flow with detailed description along with stagewise chemical reaction details.</li> <li>3. The said expansion project is located between Vedanthangal Bird Sanctuary and Karikili Bird Sanctuary. Hence, the PP shall obtain NOC from the Wildlife Warden, Chennai.</li> <li>4. The project proponent shall furnish total water consumption details (detailed water balance).</li> </ol> <p>On receipt of the details sought above, the SEAC will further deliberate and decide on future course of action.</p> <p>In view of the above, the Authority decided to request Member Secretary, SEIAA to communicate the minutes of 409<sup>th</sup> SEAC meeting to the project proponent.</p>
17.	Proposed Construction of Hotel (Basement + Ground + 7 Floors) at	10302	The authority after detailed discussion accepts the recommendation of SEAC in its meeting dated

  
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	S.F. No. 79/1A1, 79/1A2, 79/1B, 79/2, 79/3A, 79/3B, 79/5, 79/6, 79/7, 81/1A1A, 81/1A1B and 81/6A of Anuppanadi Village, Madurai South Taluk, Madurai District, Tamil Nadu by M/s. Velammal Hotels and Resorts LLP - For Terms of Reference. (SIA/TN/INFRA2/438890/2023)		21.09.2023 and decided to issue ToR (Under Violation category), subject to following ToRs including annexure 'D' in addition to sector specific Standard ToR and specific additional ToRs recommended by SEAC. Further, this ToR (Under Violation category) granted will not entail EC to the proponent as the case W.P (MD). No. 11757 of 2021 of 2021 is pending before Hon'ble Madurai Bench of the High Court of Madras and will be subject to final orders of the Hon'ble Madurai Bench of the High Court of Madras in the matter W.P(MD). No. 11757 of 2021.
18.	Proposed Rough Stone and Gravel Quarry over an extent of 3.66.45 Ha at S.F.No's : 19/7A, 19/7B, 19/12, 19/13, 19/14A, 19/14B and 119/1A of Thollamur & Nemili Village, Vanur Taluk, Villupuram District, Tamil Nadu by Thiru. A. Shanmugam -For Terms of Reference. (SIA/TN/MIN/437688/2023)	10275	The Authority noted that the subject was appraised in the 409 <sup>th</sup> Meeting of SEAC held on 21.09.2023. 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.  1. Restricting the ultimate depth of mining upto 45m for mining over a period of five years considering the environmental impacts due to the mining, safety precautionary measures of the working personnel and following the principle of the sustainable mining.
19.	Proposed Multi Colour Granite Quarry over an extent of 2.81.5 Ha at S.F.Nos. 911/1A1, 911/1B1.	10310	The Authority noted that the subject was appraised in the 409 <sup>th</sup> Meeting of SEAC held on 21.09.2023. Based on the presentation made by the proponent,

  
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	<p>913/1A1 (Part) and 913/1B1 (Part) of Alambadi Village, Gujiliamparai Taluk, Dindigul District, Tamil Nadu by M/s. S.G.Granites -For Terms of Reference. (SIA/TN/MIN/430659/2023)</p>		<p><b>SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing</b>, subject to the TORs stated therein, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF &amp; CC to be included in EIA/EMP Report. After detailed discussions, the Authority decided to request the Member Secretary, SEIAA-TN to obtain the following details and place before the Authority for further course of action.</p> <p>1. The proponent shall give an Affidavit before the issuance of ToR from SEIAA-TN stating that the mining operations will remain suspended till they obtain the EC granted by the SEIAA after the reappraisal process as per MoEF &amp;CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.</p> <p>In view of the above, Authority decided to request the Member Secretary, SEIAA to communicate the minutes to the project proponent.</p>
20.	<p>Proposed Expansion of Production Capacity of Textile Finishing Chemicals from 3682.032 TPA to 18,000 TPA at Plot No. 367, SIDCO Industrial Estate (North Phase), SF.No. 144, 152, 153, 161 &amp; 162 of Ambattur Village, Ambattur Taluk, Thiruvallur District, Tamil Nadu by M/s. Beva Silicones Private Limited - For grant of Terms of Reference. (SIA/TN/IND3/425929/2023)</p>	10331	<p>The Authority noted that the subject was appraised in the 409<sup>th</sup> Meeting of SEAC held on 21.09.2023. The Proponent vide letter dated 20.09.2023 stating his inability to attend the meeting on the aforesaid date, has requested the Committee to reschedule the appraisal of the proposal. The SEAC agreed for the same and decided to defer the subject to a later date. 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 21.09.2023.</p>

  
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21.	Proposed Expansion of existing production capacity along with 26 new additional products in the category of bulk drug products and Installation of Additional Equipments in the existing facility at Plot No.85, 86, 87, 88, 105, 106, 107, 108, 109, 112, 113, 114, 115 & 116 (Survey No. 223p, 224p, 250, 251, 278 & 279p), in Pappankuppam Village Gummidipoondi Taluk Tiruvallur District by M/s. Anjan Drug Private Limited - For Terms of Reference. (SIA/TN/IND3/439141/2023)	10297	The Authority noted that the subject was placed in the 409 <sup>th</sup> meeting of SEAC held on 21.09.2023 and the SEAC has sought certain additional details from the PP. The proponent is advised to submit the above-mentioned details within a period of 30 days failing which the proposal will be automatically delisted from the PARIVESH Portal.
22.	Proposed repair & re-construction of existing shore protection seawall for the Arulmigu Subramaniya Swamy Temple, Tiruchendur, Tamil Nadu – Application seeking CRZ Clearance – Submitted under Terms of Reference (SIA/TN/INFRA1/440855/2023)	10369	The authority noted that the subject was appraised in the 409 <sup>th</sup> SEAC meeting held on 21.09.2023. Based on the presentation and documents submitted by the project proponent, the SEAC decided to call for the following details/documents from the project proponent before deciding on the proposal:  i) The proponent shall prepare a detailed Shore Management Plan covering 1 km stretch on either side of the proposed structure through a reputed consultant. As a part of the study, the proponent shall furnish details on the past erosion data and the implications of the proposed work on erosion. The PP shall also suggest a district level monitoring system to administer the Shore Management Plan in consultation with the District Collector.

  
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			<p>ii) The proponent shall explain in detail the technology proposed to be adopted and implementation process/procedures involved during the re-construction of the seawall.</p> <p>iii) The PP shall provide the source of places with mode of transportation &amp; storage facilities for the raw materials (boulders) to be supplied for the construction.</p> <p>iv) The PP shall carry out a detailed study on Risk Assessment &amp; Management and submit a 'Safety Audit' for the work is to be accomplished considering the movement of large public in the vicinity.</p> <p>v) Further, the proponent shall furnish the timeline related to the implementation of the proposed activities.</p> <p>vi) The PP shall provide the Disaster Management Cell headed by a senior official from PWD coordinating the overall activities pertaining to the aforesaid construction.</p> <p>The Authority, after deliberations, decided to obtain the following additional details from the proponent in addition to those called by SEAC above:</p> <p>a) A detailed Marine Biodiversity Study and Biodiversity Management Plan. The study/plan shall also include the impact of the proposed project on the marine biodiversity and the mitigation measures proposed for the same.</p>
23.	Existing Limestone quarry over an extent of 2.25.0 Ha at S.F. No. 455/1, 456/2 & 456/3 of Khairulabad Village, Ariyalur	6568	<p>The Authority noted that the subject was appraised in the 409<sup>th</sup> Meeting of SEAC held on 21.09.2023. <b>After detailed deliberation</b>, SEAC carefully examined the proposal and the remarks and the</p>

  
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<p>Taluk, Ariyalur District, Tamil Nadu by M/s. Dalmia Cement (Bharat) Limited -- For Environmental Clearance under Violation (SIA/TN/MIN/430142/2023)</p>	<p>recommendations made by the Sub-Committee. The SEAC have observed that the Mining of Limestone in an extent of 2.25.0 ha without prior EC is categorized under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the SEAC decided to recommend grant of Environmental Clearance under violation category for Mining of Limestone in an extent of 2.25.0 Ha at S.F. Nos: 455/1, 456/2 &amp; 456/3 of Khairulabad Village, Ariyalur Taluk, Ariyalur District Tamil Nadu <b>for the Annual Peak Production Capacity of 6,028 Tonnes by maintaining an ultimate pit depth of 26.5 m BGL</b> subject to the conditions stated therein in addition to the normal conditions.</p>
	<p>After detailed discussion, the Authority decided to obtain the following:</p>
	<ol style="list-style-type: none"> <li>1. The amount prescribed for Ecological remediation (Rs. 4.80 Lakhs), natural resource augmentation (Rs. 5.60 lakhs) &amp; community resource augmentation (Rs. 5.80 Lakhs), totaling Rs. 16.20 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 16.20 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan &amp; Community resource augmentation plan as indicated in the EIA/EMP report.</li> <li>2. The project proponent shall carry out the works assigned under ecological damage,</li> </ol>

  
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			<p>natural resource augmentation and community resource augmentation within a period of one year from the issue of EC. If not, the bank guarantee will be forfeited to TNPCB without further notice.</p> <p>3. The company shall produce the 'No Dues Certificate' obtained from the State Government i.e. Department of Geology &amp; Mining to the SEIAA before grant of EC.</p> <p>4. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.</p> <p>5. Copy of approved review of scheme of mining plan by the competent authority.</p> <p>On receipt of above details, the Member Secretary is requested to place the proposal before the Authority for further course of action.</p>
24.	Existing limestone mines over an extent of 1.21.5 Ha at S.F. No: 393/8 & 395/1(P), Uthappanaickanur Village, Usilampatti Taluk, Madurai District, Tamil Nadu by M/s. Suriya Industrial Minerals- For Environmental Clearance Under Violation (SIA/TN/MIN/414344/2023)	6172	<p>The authority noted that the subject was appraised in the 409<sup>th</sup> SEAC meeting held on 21.09.2023. SEAC has furnished its recommendations to the Authority for granting Environmental Clearance to the Project subject to the conditions stated therein.</p> <p>After detailed discussion, the Authority decided to request the Member Secretary, SEIAA to inform the proponent to furnish the following particulars as recommended by SEAC in the Minutes of 409<sup>th</sup> SEAC meeting held on 21.09.2023.</p>

  
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			<ol style="list-style-type: none"> <li>1. The project proponent shall remit the amount prescribed for Ecological remediation (Rs.2.30 Lakhs), natural resource augmentation (Rs.2.50 lakhs) &amp; community resource augmentation (Rs.4.00 Lakhs), totaling <b>Rs. 8.80 Lakhs</b> in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit acknowledgement of the same to SEIAA-TN.</li> <li>2. The project proponent shall submit the proof for the action taken by the State Government/TNPCB against the project proponent under the provisions of Section 19 of the Environment (Protection) Act 1986 as per the EIA notification dated 14.03.2017 and amended 08.03.2018.</li> <li>3. The proponent shall remit 100% Penalty amount imposed as per the District collector/AD mines and submit the receipt of the same to SEIAA-TN for mining operations carried out during the period 15.01.2016 to 10.01.2017 (or) more. The PP shall produce the 'No Dues Certificate' obtained from the State Government i.e., Department of Geology &amp; Mining after remitting the same.</li> <li>4. Further, the proponent shall furnish details of Progressive Mine Closure Plan.</li> </ol>
25.	Proposed Gravel Quarry over an extent of 3.55.0Ha SF.No.248/2, 248/3 and 250/5 of Sembanur Village, Karaikudi Taluk, Sivagangai District by Thiru. S. Subramanian - For Environmental Clearance.	10057	The authority after detailed discussion accepts the recommendation of SEAC in its 392 <sup>nd</sup> meeting held on 14.07.2023 and in 409 <sup>th</sup> meeting held on 21.09.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.

  
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(SIA/TN/MIN/430653/2023)

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 32264 Cu.m of Gravel for an ultimate depth of 2m BGL only from the pit-1 (Sf.No.248/2, 248/3 – 2.24 ha) for a period of one Year. 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 mine plan period, till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.
3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life.
4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.
5. 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-

  
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			<p>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>6. 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> <p>7. The PP shall carryout transplantation/plantation/afforestation of tall native saplings of 500 Nos. of Trees per hectare of mining lease area all along the periphery within the proposed mining area and as well as avenue plantation as committed.</p>			
26.	<p>File No: 8869</p> <p>Proposed Rough Stone and Gravel quarry lease area over an extent of 1.56.0 Ha at S.F.Nos. 90/4, 91/2D (P) &amp; 111/3 of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by Thiru. T. Pushparaj - For Environmental Clearance Amendment.</p> <p>The authority noted that the Proponent has obtained Environmental Clearance vide Lr. No.SEIAA-TN/F.No.8869/ EC.No:5859/2023 dated: 10.07.2023. Now the proponent has applied for Amendment in Environmental Clearance in Form-4 vide SIA/TN/MIN/304583/2023, dated: 25.09.2023.</p> <p>After detailed discussion, the Authority decided to issue the following amendment in the Environmental Clearance issued vide Lr. No.SEIAA-TN/F.No.8869/EC.No:5859/2023 dated: 10.07.2023.</p>					
<table border="1"> <tr> <td data-bbox="245 1845 606 1917">Description</td> <td data-bbox="606 1845 1034 1917">As per EC issued dated.10.07.2023</td> <td data-bbox="1034 1845 1465 1917">Amendment issued</td> </tr> </table>	Description	As per EC issued dated.10.07.2023	Amendment issued			
Description	As per EC issued dated.10.07.2023	Amendment issued				

  
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Page No. 3 of 40	10°52'45.44"N to 10°52'50.23"N	10°52'51.31"N to 10°53'00.51"N
Sl.No.8	77°02'33.54"E to 77°02'41.08"E	77°02'42.74"E to 77°02'47.55"E
Latitude & Longitude of all corners of the quarry site		
All other conditions and validity mentioned in the Environmental Clearance dated.10.07.2023 will remain unchanged and unaltered.		

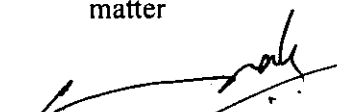
**Annexure 'A'**

**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

  
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c) **Safe mining Practices**

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

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

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.

  
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15. Regular monitoring of ground water level and water quality shall be carried out around the mine area during mining operation. At any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.
16. Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.

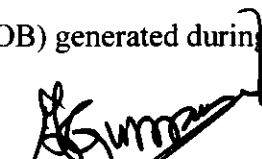
**e) Air Environment – Protection and mitigation measures**

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

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

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

  
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at earmarked dump site(s) only. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geotextile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.

28. Activities should not result in invasion of site by exotic and alien plant and animal species and disturb the native biodiversity and soil micro flora and fauna.

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

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

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

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.

  
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34. The proponent shall ensure that all mitigation measures listed in the EIA/EMP are taken to protect the biodiversity and natural resources in the area.
35. The proponent shall ensure that the activities do not impact green lands/grazing fields of all types surrounding the mine lease area which are food source for the grazing cattle.

**i) Climate Change**

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

  
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51. The project activities should support the use of renewables for carbon capture and carbon storage in the project site and forest surrounds.
52. The project activities should not result in changes in forest structure, habitats and genetic diversity within forests.

**k) Green Belt Development**

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

**l) Workers and their protection**

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

  
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59. The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

**n) Storage of wastes**

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

**o) CER/EMP**

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

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-

  
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litter, have deep root system, fix atmospheric nitrogen and improve soil productivity. Species selected should have the ability to tolerate altered pit and toxicity of and site. They should be capable of meeting requirement of local people in regard to fuel fodder and should be able to attract bird, bees and butterflies. The species should be planted in mixed association.

67. For mining area reclamation plot culture experiments to be done to identify/ determine suitable species for the site.
68. Top soil with a mix of beneficial microbes (Bacteria/Fungi) to be used for reclamation of mine spoils. AM Fungi (Arbuscular mycorrhizal fungi), plant growth promoting Rhizo Bacteria and nitrogen fixing bacteria to be utilized.
69. Soil and moisture conservation and water harvesting structures to be used where ever possible for early amelioration and restoration of site.
70. Top soil is most important for successful rehabilitation of mined sites. Topsoil contains majority of seeds and plant propagation, soil microorganism, Organic matter and plant 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.

  
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- The rate of rehabilitation should be similar to rate of mining. The land disturbed should be reshaped for long term use. Mining should be as far as possible be eco-friendly. Integration of rehabilitation strategies with mining plan will enable speedy restoration.
- 75. Efforts should to taken to aesthetically improve the mine site. Generally, there are two approaches to restoration i.e Ecological approach which allows tolerant species to establish following the succession process allowing pioneer species to establish. The other approach i.e plantation approach is with selected native species are planted. A blend of both methods may be used to restore the site by adding soil humus and mycorrhiza.
- 76. Action taken for restoration of the site should be specifically mentioned in the EC compliances.

**Annexure 'B'**

**Cluster Management Committee**

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.

  
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11. The committee shall furnish the fire safety and evacuation plan in the case of fire accidents.

### **Impact study of mining**

12. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area covering the entire mine lease period as per precise area communication order issued from reputed research institutions on the following

- a) Soil health & soil biological, physical land chemical features .
- b) Climate change leading to Droughts, Floods etc.
- c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
- d) Possibilities of water contamination and impact on aquatic ecosystem health.
- e) Agriculture, Forestry & Traditional practices.
- 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.

  
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21. The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.
22. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.

### **Water Environment**

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

  
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33. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock.

#### **Mine Closure Plan**

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

#### **EMP**

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

#### **Risk Assessment**

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 - 'D'**

1. Impacts on Energy requirement.

  
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- 2: Impacts on living System (air ,water ,soil & micro organism).
3. Impacts on terrestrial & aquatic within and surrounding areas.
4. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed EMP mentioning all the CER activities as committed with the action plan.
5. All the construction of Buildings shall be energy efficient and confirm to the green building norms.
6. The proponent shall provide adequate parking facility for vehicles of all the workers & visitors.
7. The proponent shall ensure that no treated or untreated trade effluent/sewage discharged outside the premises under any circumstances.
8. The disaster management and disaster mitigation standards to be seriously adhered to avoid of calamities.
9. The proponent shall provide the action taken for reduction of green house gas emissions to support the climatic action to make it sustainable buildings.
10. The project proponent shall furnish the action taken to provide adequate parking space for visitors of all inmates including clean traffic plan.
11. The project proponent shall furnish the action taken to improve water usage efficiency in the building.
12. The project proponent shall conduct detailed study of biodiversity flora & fauna including invasives /endemic vulnerable species.
13. The project proponent shall furnish NOC obtained from competent authority that there is no encroachment of water bodies (including canals).
14. The project proponent shall furnish impact of Green House Gases emissions and climate change likely due to activities.
15. The project proponent shall conduct detailed soil investigation including microflora /fauna.
16. The project proponent shall study impact on livelihoods of locals.
17. The project proponent shall furnish List of trees available in the area.
18. The project proponent shall study impact of activities on water bodies/wetlands.
19. The project proponent shall conduct studies on invasive and alien species.

  
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