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**MINUTES**

**560<sup>th</sup> MEETING**


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

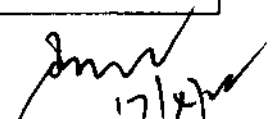
**Date: 17.10.2022**

**MINUTES OF THE 560<sup>th</sup> MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT  
ASSESSMENT AUTHORITY HELD ON 17.10.2022.**

Agenda No	Description	File No.	Minutes
a)	Confirmation of the minutes of the 559 <sup>th</sup> meeting of the Authority held on 15.10.2022.		The minutes of the 559 <sup>th</sup> meeting of the Authority held on 15.10.2022 was confirmed.
b)	The Action taken on the decisions of the 559 <sup>th</sup> meeting of the Authority held on 15.10.2022.		The Member Secretary informed that 559 <sup>th</sup> Minutes uploaded in Parivesh wesbsite and action taken report will be putup ensuing meeting.
1.	Proposed Rough Stone and Gravel quarry lease area over an extent of 2.02.0Ha at S.F.No. 100/1B(PART) of Nachipalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu by Thiru. S.Karthick- For Environmental Clearance.	9302	<p>SEAC has furnished its recommendations to the Authority for <b>granting Environmental Clearance to the Project</b> subject to the conditions stated therein. After detailed discussion, SEIAA decided to grant Environmental Clearance for the quantity as per the mine plan for a period of 5 years approved by the Department of Geology &amp; Mining subject to the conditions as recommended by SEAC in addition to the following condition &amp; conditions stated vide Annexure A.</p> <p>1. Restricting the quantity of 2,88,820 cu.m of Rough stone and 30,744 cu.m of Gravel are permitted for mining over a period of five years with ultimate depth of mining 37m below ground level, considering the environmental impacts due to the mining, safety precautionary measures</p>

  
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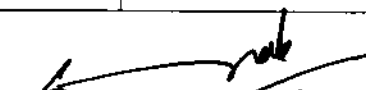
			<p>of the working personnel and following the principle of the sustainable mining.</p> <p>2. As per the MoEF&amp; CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 accepted by the Project proponent, the revised CER cost is Rs.5 lakhs and the amount shall be spent for the activities detailed in the SEAC minutes before obtaining CTO from TNPCB.</p>
2.	Proposed Rough Stone and Gravel quarry lease area over an extent of 2.07.21Ha at S.F.No.483/1A4B & 483/1A4C of Mccode Village, Thiruvattar Taluk, Kanniyakumari District, Tamil Nadu by Tmt. Anitha Raja Bai - For Environmental Clearance.	9316	<p>The authority noted that this proposal was placed for appraisal in 314<sup>th</sup> meeting of SEAC held on 23.09.2022 and SEAC decided that, During presentation, the Committee had observed that the site is a hilly terrain and presence of vegetation is found around the quarry as also a water course at a distance of 200m-300m from the proposed mine, and hence SEAC decided to carry out a site inspection by sub-committee to assess the present status of the project and environmental settings.</p> <p>In view of the above, the authority decided that the PP shall submit,</p> <ol style="list-style-type: none"> <li>1. The PP shall furnish a plan to transplant all the trees in the project area and the cost shall be covered in EMP.</li> <li>2. The PP shall furnish impact on hydrogeological regime.</li> <li>3. The PP shall furnish the type of</li> </ol>

  
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			<p>vegetation present in the site.</p> <p>4. The EMP shall cover the cost for soil and moisture besides greenbelt development.</p> <p>5. The PP shall study whether the proposed mining activity result in microclimatic changes due to temperature rise.</p> <p>6. The PP shall carry out study on impact of mining on Agriculture/Horticulture.</p> <p>7. The PP shall carry out a study on Biodiversity in the proposed mining area.</p> <p>8. The impacts of mining on flora, fauna &amp; soil microorganisms in the mining area shall be studied.</p> <p>9. The PP shall furnish details of soil erosion management and soil conservation plan.</p> <p>10. Impacts of mining on the waterbodies and roads situated in the vicinity of the project area shall be studied.</p>
3.	Proposed Earth quarry lease area over an extent of 4.37.0 Ha at S.F.No. 342/1, 343/1 and 343/2 of Erwadi Village, Keelakkarai Taluk, Ramanathapuram District, Tamil Nadu by Thiru.K. Raja- For Environmental Clearance.	9365	<p>The authority noted that this proposal was placed for appraisal in this 314<sup>th</sup> meeting of SEAC held on 23.09.2022 and the SEAC decided to recommend the issue of Environmental Clearance subject to certain conditions stated therein.</p> <p>After detailed discussion the authority decided to obtain the following details from</p>

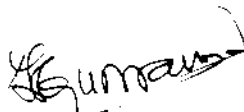
  
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		<p>the PP,</p> <ol style="list-style-type: none"> <li>1. The PP shall furnish the type of vegetation present in the site.</li> <li>2. The EMP shall cover the cost for soil and moisture besides greenbelt development.</li> <li>3. The PP shall study whether the proposed mining activity result in microclimatic changes due to temperature rise.</li> <li>4. There are lot of trees in the project area, the PP shall furnish a plan to transplant all the trees and the cost shall be covered in EMP.</li> <li>5. The PP shall carry out study on impact of mining on Agriculture/Horticulture.</li> <li>6. The PP shall carry out a study on Biodiversity in the proposed mining area.</li> <li>7. The impacts of mining on flora, fauna &amp; soil microorganisms in the mining area shall be studied.</li> <li>8. The PP shall furnish details of soil erosion management and soil</li> </ol>
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			<p>conservation plan.</p> <p>9. Impacts of mining on the waterbodies and roads situated in the vicinity of the project area shall be studied.</p>
4.	Proposed Rough Stone quarry lease area over an extent of 0.81.0 Ha at S.F.No. 415/3B, of Vellarivelli Village, Edappadi Taluk, Salem District, Tamil Nadu by Thiru. K. Ravisuthan - For Environmental Clearance.	9377	<p>The authority noted that this proposal was placed for appraisal in 314<sup>th</sup> meeting of SEAC held on 23.09.2022 and SEAC decided to obtain the following details,</p> <p>(i) The project proponent shall furnish certified compliance report.</p> <p>(ii) The proponent shall enumerate on the details of the structures located within 100m, 200m, 300m radius from the proposed mine lease area indicating the type of structure/building, usage/purposes of such building – commercial/industrial/residential/farm house/Govt. building such as Sub-station, occupants of such buildings/structures, ownership of the buildings/structures-whether it belongs to the PP (or) not, etc.</p> <p>(iii) The proponent shall construct the ‘S3 (or) G2’ type of fencing all around the boundary of the proposed working quarry with gates for entry/exit as recommended in the DGMS Circular, 11/1959 and shall furnish</p>

  
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			<p>the details of the photographs/map showing the same and the tree plantation completion work as committed earlier.</p> <p>In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 23.09.2022.</p>
5.	To consider the proposal for the grant of Environmental Clearance for the proposed Rough Stone Quarry Over an extent of 0.89.5 Ha located at S.F.No. 229/1, Ammapatti Village, Vedasandur Taluk, Dindigul District, Tamil Nadu by Thiru. P. Krishnan	9373	<p>SEAC has furnished its recommendations to the Authority for <b>granting Environmental Clearance to the Project</b> subject to the conditions stated therein. After detailed discussion, SEIAA decided to grant Environmental Clearance for the quantity as per the mine plan for a period of 5 years approved by the Department of Geology &amp; Mining subject to the conditions as recommended by SEAC in addition to the following condition &amp; conditions stated vide Annexure A.</p> <ol style="list-style-type: none"> <li>1. Restricting the quantity of 85706 cu.m of Rough stone are permitted for mining over a period of five years with ultimate depth of mining 32m below ground level, considering the environmental impacts due to the mining, safety precautionary measures of the working personnel and following the principle of the sustainable mining.</li> <li>2. As per the MoEF&amp; CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020</li> </ol>

  
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			accepted by the Project proponent, the revised CER cost is Rs.5 lakhs and the amount shall be spent for the activities detailed in the SEAC minutes before obtaining CTO from TNPCB.
6.	To consider the proposal for the grant of Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease over an extent of 1.70.0Ha at S.F.No.722/A(P) & 723/A1(P) of Senapathipalayam Village, Kangeyam Taluk, Tiruppur District, Tamil Nadu by M/s.Erode Mines	9304	<p>The Authority after detailed discussion with reference to specific condition (1) of SEAC, SEIAA decided to grant Environmental Clearance for a period of 5 years confining to the ultimate depth of mining 43 BGL and the quantity 283080m<sup>3</sup> of Rough Stone, &amp; 45978m<sup>3</sup> of Gravel with maintaining the Annual Peak Production capacity of 69160 m<sup>3</sup> as per approved mining plan issued by the Department of Geology &amp; Mining subject to the standard conditions as per Annexure - (I) &amp; all other specific conditions as recommended by SEAC &amp; other normal conditions stipulated by MOEF&amp;CC in addition to the following conditions &amp; Conditions stated vide Annexure 'A'.</p> <p>1. As per the MoEF&amp; CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 accepted by the Project proponent, the revised CER cost is Rs. 5 Lakhs and the amount shall be spent for the committed activities before SEAC i) Toilets facility, ii) Painting of school building, iii) Environmental science and science based books for library related books, iv) RO water facility, &amp;</p>

  
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			v) Developing Greenbelt in and around school campus for the Panchayat Union Middle School, Velappanaikenthalasu Village before obtaining CTO from TNPCB.
7.	Proposal for the grant of Environmental Clearance for the Proposed Gravel quarry lease over an extent of 1.85.5Ha at S.F.No.35/3A, 35/3B, 35/4 and 35/5 of Melachokkanathapuram Village, Bodinayakanur Taluk, Theni District, Tamil Nadu by Thiru.S.Radhakrishnan - For Environmental Clearance.	9318	<p>The authority noted that this proposal was placed for appraisal in this 314<sup>th</sup> meeting of SEAC held on 23.09.2022 and the SEAC have decided to call for the following details:</p> <ol style="list-style-type: none"> <li>i) Letter from DFO, Theni District in regard to shortest distance of the proposed quarrying area from Bodi West Hills Reserve Forest.</li> <li>ii) The proponent should produce a letter from the concerned Asst Director (Geology &amp; Mines) stating that the location of quarry site does not lie adjoining to the rivers, streams, canals and also does not come under any notified/declared protected zones in terms of the recent Judgment of Hon'ble Madras High Court.</li> </ol> <p>The authority after detailed discussion decided to call for the following additional particulars from the project proponent as follows</p> <ol style="list-style-type: none"> <li>i. Details of type of vegetations including no. of trees &amp; shrubs within the proposed mining area. If so, transplantation of such vegetations all along the boundary of the proposed</li> </ol>

  
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			<p>mining area shall be mentioned in EMP.</p> <p>ii. Impact on surrounding agricultural fields around the proposed mining Area.</p> <p>iii. Erosion control measures.</p> <p>iv. Impact on soil flora &amp; vegetation around the project site.</p>
8.	<p>Proposal for the grant of Environmental Clearance for the Proposed Gravel quarry lease over an extent of 4.17.66Ha at S.F.No.1438/1B, 1438/2B, 1438/3, 1438/1C, 1438/2C, 1486/1A and 1486/1B of Shanmugasundrapuram Village, Andipatti Taluk, Theni District, Tamil Nadu by Thiru.N.Gubendran.</p>	9353	<p>The authority noted that this proposal was placed for appraisal in this 314<sup>th</sup> meeting of SEAC held on 23.09.2022 and the SEAC have decided to call for the following details:</p> <p>i) NBWL Clearance as the proposed site lies within the default 10 km distance from the Srivilliputhur, Megamalai Tiger Reserve.</p> <p>ii) The proponent should produce a letter from the concerned Asst Director (Geology &amp; Mines) stating that the location of quarry site does not lie adjoining to the rivers, streams, canals and also does not come under any notified/declared protected zones in terms of the above Judgment.</p> <p>The authority after detailed discussion decided to call for the following additional particulars from the project proponent as follows</p> <p>i. Detailed study shall be carried out in regard to impact of mining around the</p>

  
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			<p>proposed mine lease area from reputed research institutions on the following</p> <p>a) Top soil, Soil health, bio-diversity, Agriculture, Forestry &amp; Traditional practices.</p> <p>b) . Aquifer in the vicinity, Ground water potential and impact on surrounding wells and other surface water bodies.</p> <p>c) Climate change leading to Droughts, Floods etc.</p> <p>d) Aquatic &amp; terrestrial vegetation in regard to pollution leading to release of Greenhouse gases (GHG), rise in Temperature, &amp; Livelihood of the local people.</p> <p>e) Possibilities of water contamination and impact on aquatic ecosystem health and wetlands.</p> <p>f) Hydrothermal/Geothermal effect due to destruction in the Environment.</p> <p>g) Bio-geochemical processes and its foot prints including environmental stress.</p> <p>h) Sediment geochemistry in the surface streams &amp; and water bodies.</p> <p>i) Erosion, Loss of habitat and land scape changes.</p>
9.	To consider the proposal for the grant of Environmental Clearance for Proposed Rough Stone and Gravel quarry over an extent of 4.30.0 Ha in S.F.No. 246 of	9116	SEAC has furnished its recommendations to the Authority for <b>granting Environmental Clearance to the Project</b> subject to the conditions stated therein. After detailed discussion, SEIAA decided to grant

  
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	Karattupalayam "B" Village, Nambiyur Taluk, Erode District, Tamil Nadu by Thiru.P.Balaji.		<p>Environmental Clearance for the quantity as per the mine plan for a period of 5 years approved by the Department of Geology &amp; Mining subject to the conditions as recommended by SEAC in addition to the following conditions &amp; conditions stated vide Annexure A.</p> <ol style="list-style-type: none"> <li>1. Restricting the ultimate depth of mining up to 39m BGL (2m Gravel + 35m Rough stone) and quantity of 3,92,495 cu.m of Rough stone &amp; 47,490 cu.m of Gravel are permitted 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.</li> <li>2. As per the MoEF&amp; CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 as accepted by the Project proponent the revised CER cost is Rs. 6.0 lakhs and the amount shall be spent for the Panchayath Union Primary School, Nambiyur Union, Erode District &amp; Elephant Water hole in consultation with concern DFO as committed, before obtaining CTO from TNPCB.</li> </ol>
10.	Proposed Earth quarry lease over an extent of 3.46.98 Ha (Patta Land) in S.F.No. 62/1, 63/1B &	9408	The authority noted that this proposal was placed for appraisal in this 314 <sup>th</sup> meeting of SEAC held on 23.09.2022 and SEAC

  
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	<p>63/2B Kothapatti Village, Andipatti Taluk, Theni District, Tamil Nadu by Thiru R.Nagaraj- For Environmental Clearance</p>	<p>decided to obtain the following details from the PP.</p> <ol style="list-style-type: none"> <li>1. The Srivilliputhur Megamalai Tiger Reserve is located at a distance of 1.9km (SE) and hence the PP shall obtain NBWL clearance, vide, MoEF &amp;CC Office Memorandum no. FC-11/119/2020-FC dated 17<sup>th</sup> May, 2022.</li> <li>2. The proponent should produce a letter from the concerned Asst Director (Geology &amp; Mines) stating that the location of quarry site does not lie adjoining to the rivers, streams, canals and also does not come under any notified/declared protected zones in terms of the above Judgment.</li> </ol> <p>After detailed discussion, the Authority decided to obtain following details from the PP in addition to the above.</p> <ol style="list-style-type: none"> <li>1. The impacts of mining on Agriculture and vegetation around the mining area shall be studied.</li> <li>2. The PP shall furnish details of soil erosion management and soil conservation plan.</li> <li>3. The impacts of mining on the water table shall be studied.</li> </ol> <p>On receipt of the above details, the SEAC would further deliberate on this project and decide the further course of action.</p> <p>In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project</p>
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			proponent held on 23.09.2022.
11.	Proposed Rough stone quarry lease over an Extent of 4.55.0 Ha in S.F. Nos. 126/2(P), 127/1(P), 133/1(P), 133/2(P) Thennilai East Village of Pugalur Taluk, Karur District, Tamil Nadu by Tvl. Teru Murugan Blue Metal- For Environmental Clearance.	7661	The Authority noted that the subject was appraised by SEAC during its 314 <sup>th</sup> meeting held on 23.09.2022 and that the Committee has furnished its recommendation for the grant of Environmental Clearance for the project subject to the conditions stated therein. The Authority, after detailed discussions, decided to seek Certified Compliance Report (CCR) for the existing quarry operated by the Proponent. On receipt of the CCR, the Authority will further deliberate on the same.
12.	Proposed Gravel Quarry lease over an Extent of 4.21.00 Ha Patta land in S.F.Nos.101 at Thirumalaipuram Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu by Thiru. P. Pothiraj- For Environmental Clearance.	9313	The Authority noted that the subject was placed in the 314 <sup>th</sup> meeting of SEAC held on 23.09.2022. SEAC has furnished its recommendations to the Authority for <b>granting Environmental Clearance to the Project</b> subject to the conditions stated therein. After detailed discussion, the Authority with reference to specific condition (1) of SEAC, SEIAA decided to grant Environmental Clearance as per the mine plan period for <b>3 years</b> approved by the Department of Geology & Mining subject to the standard conditions as per Annexure - (I) & all other specific conditions as recommended by SEAC & other normal conditions stipulated by MOEF&CC in addition to the following

  
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			<p>conditions &amp; Conditions stated vide Annexure 'A':</p> <ol style="list-style-type: none"> <li>1. Considering the environmental impacts due to mining, safety of the working personnel and following the principle of sustainable mining, the production quantity is restricted to 43,940 m<sup>3</sup> and to a depth of 2m for mining over a period of 3 years as per the approved mining plan.</li> <li>2. As per the MoEF&amp; CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 accepted by the Project proponent, the revised CER cost is Rs.2.0 Lakh and the amount shall be spent for the committed activities in SEAC before obtaining CTO from TNPCB.</li> </ol>
13.	Proposed Rough stone and Gravel Quarry lease over an Extent of 1.81.0Ha Patta land in S.F.No. 182/2A2 at Vilangampadi Village, Tindivanam Taluk, Villupuram District, Tamil Nadu by Thiru.S.Kumaresan- For Environmental Clearance	9327	<p>The Authority noted that the subject was placed in the 314<sup>th</sup> meeting of SEAC held on 23.09.2022. SEAC has furnished its recommendations to the Authority for granting Environmental Clearance to the Project subject to the conditions stated therein. After detailed discussion, the Authority with reference to specific condition (1) of SEAC, SEIAA decided to grant Environmental Clearance for the quantity of 1,83,500m<sup>3</sup> Rough stone, 21,600m<sup>3</sup> of Gravel for an ultimate depth of 35m BGL in 5 years as per the mine plan approved by the Department of Geology &amp;</p>

  
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			<p>Mining subject to the standard conditions as per Annexure - (I) &amp; all other specific conditions as recommended by SEAC &amp; other normal conditions stipulated by MOEF&amp;CC in addition to the following conditions &amp; Conditions stated vide Annexure 'A':</p> <p>1. As per the MoEF&amp; CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 accepted by the Project proponent, the revised CER cost is <b>Rs.6.10 Lakh</b> and the amount shall be spent for the committed activities before SEAC before obtaining CTO from TNPCB.</p>
14.	Proposed Rough stone and Gravel Quarry lease over an Extent of 0.50.5 Ha (Patta Land) in S.F.Nos. 11/1 at Perundurai Village, Perundurai Taluk, Pudukkottai District, Tamil Nadu by Thiru V.Muthu- For Environmental Clearance.	9348	<p>The Authority noted that the subject was appraised by SEAC during its 314th meeting held on 23.09.2022 and that the Committee has directed the Proponent to submit the copy of Certified Compliance Report for the existing quarry. On receipt of the aforesaid details, the subject will be taken up for further deliberations.</p> <p>The Authority, after detailed discussions, decided to seek the following details in addition to the above from the Proponent.</p> <p>1. Study report on the impact of the proposed mining activity on the nearby agriculture, land, water, soil and biological environment and other natural resources.</p>

  
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			<p>2. Will the proposed activity result in Carbon emissions, temperature rise or add to micro climate alternations? Explain.</p> <p>3. Justify that the proposed mining activity will neither affect the water bodies and natural flow of surface and ground water nor cause any pollution to water sources in the area.</p>
15.	<p>Proposed Rough stone and Gravel Quarry lease over an Extent of 1.40.5 Ha (Patta Land) in S.F.Nos. 475/1A, 475/1B, 475/1C, 475/1D, 475/1E, 475/1F, 475/2A, 475/2B, 475/2C, 475/2E, 475/2F and 475/2G at Thennampatti Village, Vendasandur Taluk, Dindigul District, Tamil Nadu by Tmt J Latha - For Environmental Clearance.</p>	9369	<p>The Authority noted that the subject was placed in the 314<sup>th</sup> meeting of SEAC held on 23.09.2022. SEAC has furnished its recommendations to the Authority for granting Environmental Clearance to the Project subject to the conditions stated therein. After detailed discussion, the Authority with reference to specific condition (1) of SEAC, SEIAA decided to grant Environmental Clearance for a period of 5 years as per the mine plan approved by the Department of Geology &amp; Mining subject to the standard conditions as per Annexure - (I) &amp; all other specific conditions as recommended by SEAC &amp; other normal conditions stipulated by MOEF&amp;CC in addition to the following conditions &amp; Conditions stated vide Annexure 'A':</p> <p>1. As per the MoEF&amp; CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 accepted by the Project proponent, the</p>

  
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			revised CER cost is <b>Rs.5.0 Lakh</b> and the amount shall be spent for the committed activities before SEAC before obtaining CTO from TNPCB.
16.	Proposed Rough stone and Gravel Quarry lease over an Extent of 3.65.0 Ha Patta lands in S.F.Nos. 676/1B (P), 676/4B (P) at Thanakkarkulam Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu by R.Ravichandran - For Environmental Clearance.	9374	<p>The Authority noted that the subject was placed in the 314<sup>th</sup> meeting of SEAC held on 23.09.2022. SEAC has furnished its recommendations to the Authority for granting Environmental Clearance to the Project subject to the conditions stated therein. After detailed discussion, the Authority with reference to specific condition (1) of SEAC, SEIAA decided to <b>grant Environmental Clearance for a period of 5 years</b> as per the mine plan approved by the Department of Geology &amp; Mining subject to the standard conditions as per Annexure - (I) &amp; all other specific conditions as recommended by SEAC &amp; other normal conditions stipulated by MOEF&amp;CC in addition to the following conditions &amp; Conditions stated vide Annexure 'A':</p> <ol style="list-style-type: none"> <li>1. Considering the environmental impacts due to mining, safety of the working personnel and following the principle of sustainable mining, the ultimate <b>depth of mining is restricted to 32m (2m Gravel + 30m Rough Stone) BGL</b> and the production quantity of <b>4,68,958m<sup>3</sup></b> of Rough</li> </ol>

  
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			<p>stone and 52,284 m<sup>3</sup> of Gravel as per the approved mining plan.</p> <p>2. The EMP cost towards planting 2100 nos of trees as part Green belt shall be revised as <b>Rs.300/tree</b> for planting and <b>Rs. 150/tree/annum</b> towards maintenance.</p> <p>3. As per the MoEF&amp; CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 accepted by the Project proponent, the revised CER cost is <b>Rs.7.0 Lakhs</b> and the amount shall be spent for the committed activities before SEAC before obtaining CTO from TNPCB.</p>
17.	Proposed Red Earth quarry lease over an Extent of - 1.47.5 Ha Patta Land in S.F.Nos. 192/1 at V.Parangani Village, Vanur Taluk, Viluppuram District, Tamil Nadu by Thiru R. Ragothaman - For Environmental Clearance.	9381	<p>The Authority noted that the subject was appraised by SEAC during its 314th meeting held on 23.09.2022 and that the Committee has furnished its recommendation for the grant of Environmental Clearance for the project subject to the conditions stated therein.</p> <p>The Authority, after detailed discussions, decided to seek the following additional particulars from the Proponent.</p> <ol style="list-style-type: none"> <li>1. Copy of District survey report shall be furnished.</li> <li>2. Enlist all the major and minor minerals present within 1km from the periphery of the project area.</li> <li>3. Organic and inorganic constituents of the soil at project site and usefulness of</li> </ol>

  
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			<p>the soil for agricultural purpose shall be detailed.</p> <p>4. Study report on the impact of the proposed mining activity on the nearby agriculture, land, water, soil and biological environment and other natural resources.</p> <p>5. Will the proposed activity result in Carbon emissions, temperature rise or add to micro climate alternations? Explain.</p> <p>6. Justify that the proposed mining activity will neither affect the water bodies and natural flow of surface and ground water nor cause any pollution to water sources in the area.</p> <p>All the study report detailed above shall be conducted through accredited Institutions.</p>
18.	Proposed Rough stone quarry lease over an Extent of 1.52.00 Ha (Government Land) in S.F.Nos. 155/3 in Kaplampadi Village, Melmalaiyanur Taluk, Villuppuram District and Tamil Nadu by Tmt.M.Vijayalakshmi- For Environmental Clearance	9402	<p>The Authority noted that the subject was appraised by SEAC during its 314<sup>th</sup> meeting held on 23.09.2022 and that the Committee has directed the Proponent to furnish letter from the DFO, Villuppuram District detailing the location (along with GPS coordinates) and distance of the proposed mine lease area from the nearby Reserve Forests. On receipt of the aforesaid details, the subject will be taken up for further deliberations.</p> <p>The Authority, after detailed discussions, decided to seek the following details in addition to the above from the Proponent.</p>

  
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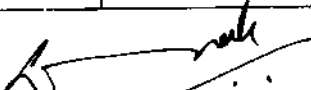
			<ol style="list-style-type: none"> <li>1. Study report on the impact of the proposed mining activity on the 3 nos. of lakes situated within 2km radius from the project site (i.e. Kaplamabadi Lake-0.95 km, Maniyanthapattu lake-0.98km, Nochalur Lake-2.09 km) and 3 nos. of temples ( Shri Murugan Temple-0.80 km, Mariamman Temple-0.78 km, Pillaiyar Kovil-0.94 km) shall be furnished.</li> <li>2. Study report on the impact of the proposed mining activity on the nearby agriculture, land, water, soil and biological environment and other natural resources.</li> <li>3. Will the proposed activity result in Carbon emissions, temperature rise or add to micro climate alternations? Explain.</li> <li>4. Justify that the proposed mining activity will neither affect the water bodies and natural flow of surface &amp; ground water nor cause any pollution to water sources in the area.</li> </ol> <p>All the study report detailed above shall be conducted through accredited Institutions</p>
19.	Proposed Rough Stone and Gravel Quarry lease over an Extent of 4.87.5Ha Patta Lands in S.F.Nos. 21/25, 22/3A, 22/3B, 22/3C, 22/3D, 22/4, 22/5, 22/6A, 22/6B, 23/10B, 23/13, 23/3B,	9409	The Authority noted that the subject was placed in the 314 <sup>th</sup> meeting of SEAC held on 23.09.2022. SEAC has furnished its recommendations to the Authority for granting Environmental Clearance to the Project subject to the conditions stated

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	<p>23/4, 23/5, 23/6A, 23/6B, 23/6C, 23/7, 23/9A, 8/11 and 8/12 in Madipakkam Village, Cheyyar Taluk, Tiruvannamalai District and Tamil Nadu by Thiru.K.Maharajan - For Environmental Clearance</p>	<p>therein. After detailed discussion, the Authority with reference to specific condition (1) of SEAC, SEIAA decided to grant Environmental Clearance for a period of 5 years as per the mine plan approved by the Department of Geology &amp; Mining subject to the standard conditions as per Annexure - (I) &amp; all other specific conditions as recommended by SEAC &amp; other normal conditions stipulated by MOEF&amp;CC in addition to the following conditions &amp; Conditions stated vide Annexure 'A':</p> <ol style="list-style-type: none"> <li>1. Considering the environmental impacts due to mining, safety of the working personnel and following the principle of sustainable mining, the depth of mining is restricted to 18m BGL by leaving last bench in X1Y1-AB section and XY-AB section and corresponding quantity 369145 m<sup>3</sup> of Rough stone and 57994 cu.m of Gravel is permitted for mining over a period of 5 years as per the approved mining plan</li> <li>2. As per the MoEF&amp; CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 accepted by the Project proponent, the revised CER cost is Rs.5.0 Lakh and the amount shall be spent for the committed activities before SEAC before obtaining CTO from TNPCB.</li> </ol>
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20.	Proposed Brick Earth quarry lease over an extent of 0.64.0 Ha at S.F.No.39/2B of Athangikavanur Village, Uthukottai Taluk, Tiruvallur District Tamil Nadu by Thiru. V. Ramadass - For Environmental Clearance.	8592	<p>The Authority noted that the subject was placed in the 314<sup>th</sup> meeting of SEAC held on 23.09.2022. SEAC has furnished its recommendations to the Authority for <b>granting Environmental Clearance to the Project</b> subject to the conditions stated therein. After detailed discussion, the Authority with reference to specific condition (1) of SEAC, SEIAA decided to grant Environmental Clearance as per the mine plan period for one year as approved by the Department of Geology &amp; Mining subject to the standard conditions as per Annexure - (I) &amp; all other specific conditions as recommended by SEAC &amp; other normal conditions stipulated by MOEF&amp;CC in addition to the following conditions &amp; Conditions stated vide Annexure 'A':</p> <p>1. As per the MoEF&amp; CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 accepted by the Project proponent, the <b>revised CER cost is Rs.2.0 Lakh</b> and the amount shall be spent for the committed activities in SEAC before obtaining CTO from TNPCB.</p>
21.	Proposed Rough Stone and Gravel Quarry lease over an extent of 2.65.5 Ha in S.F.Nos. 224/3A, 224/3B, 224/4A, 224/4B, 240/1B1, 240/1B2, 240/2A, 240/2B & 240/2C of Alapakkani	9314	<p>The authority noted that the subject was appraised in 314<sup>th</sup> SEAC meeting held on 22.09.2022.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC decided to call for additional details as given</p>

  
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	<p>Village, Nemili Taluk, Ranipet District, Tamil Nadu by Thiru.D.Mohanadoss - Environmental Clearance</p>	<p>below:</p> <ol style="list-style-type: none"> <li>1. As per the land use classification, the proposed mine lease area falls under the "Nanjai Land" category. Hence the PP shall get the land classification changed from 'Punjai' to 'industrial use'.</li> <li>2. As per the provisions contained in Tamil Nadu Change of Land Use (From Agriculture to Non-agriculture Purposes in Non-planning Areas) Rules, 2017, agriculture land in the state cannot be used for the development purpose, without the consent of the concerned designated local authority (Municipality / Town Panchayat / Village Panchayat) in which the land is situated.</li> <li>3. Hence, the proponent is requested to submit the aforesaid permission obtained from the Competent Authority.</li> <li>4. Further, from the KML file uploaded in the online through Parivesh Portal, it is ascertained that a well exists within the lease area. Hence, the proponent is requested to submit the details regarding             <ol style="list-style-type: none"> <li>i. The current status of the well</li> <li>ii. The Depth of Water level in the well</li> <li>iii. Whether the well is in use for agricultural activities?</li> </ol> </li> </ol>
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			<p>In addition to the above queries, the proponent shall submit the following details</p> <ol style="list-style-type: none"> <li>1. From the KML file uploaded by the proponent through online in Parivesh Portal, it is ascertained that the project can result in onsite and offsite ecological damage.</li> </ol> <p>Hence, the proponent may submit the following details</p> <ol style="list-style-type: none"> <li>(i) Impact on agricultural lands nearby</li> <li>(ii) Impact on water table, watershed</li> <li>(iii) Impact on biodiversity.</li> </ol> <p>In view of the above, SEAC shall examine the above-mentioned queries in addition to the queries raised by SEAC. Hence, Authority decided to request the Member Secretary, SEIAA to communicate the minutes to the project proponent.</p>
22.	<p>proposed Rough stone and Gravel quarry lease over an extent of 1.00.0 ha at S.F.Nos 20/2B (Part) and 21/5C (part) Marapparai Village, Tiruchengode Taluk, Namakkal District Tamil Nadu by Thiru. R. Paramasivam</p>	7773	<p>The Authority, after detailed discussions, decided to refer back the proposal to SEAC after the receipt of following additional particulars from the project proponent:</p> <ol style="list-style-type: none"> <li>i) The sub-committee in its inspection report has reported that an industrial Shed is located at about 270m North East side of the project site. Hence the proponent shall furnish copy of permission obtained from Director Mines Safety, Dept. of Geology &amp; Mining, Tamil Nadu for in regard to</li> </ol>

  
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			<p>rough stone quarry proposed within 300m radius from the industrial shed and for method of mining (blasting technique) as per Rule 36 (1-A) (a) of TNMMCR,1959.</p> <p>ii) The sub-committee has further reported that 11 nos. of Neem trees within the project site and has recommended to transplant the Trees in the boundary barrier. Hence the proponent shall complete the said work and furnish photograph of the same.</p> <p>iii) The proponent shall furnish photographs of erected barbed wire fencing around the proposed mining site.</p> <p>iv) SEAC remarks &amp; recommendation on the Certified Compliance Report (CCR) &amp; CER activities proposed by the project proponent.</p> <p>v) Details of Cluster Management Committee proposed and its Environmental Policy to practice sustainable mining &amp; EMP for effective implementation of including Green Belt Development, Water sprinkling, blasting plan &amp; its frequency by the member units of the cluster, usage of haul roads, risk management plan with safety measures to avoid untoward accidents, Emergency management/evacuation</p>
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			plan during natural disaster/calamities, Health of workers/ the public nearby etc.,
23.	Proposed Rough stone and Gravel quarry over an extent of 1.00.0 Ha in S.F.No. 21/5B (P) at Marapparai Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu by Thiru. K.Periyasamy- For Environmental Clearance.	7774	<p>The Authority after detailed discussion decided to refer back the proposal to SEAC after the receipt of following additional particulars from the project proponent as follows</p> <ul style="list-style-type: none"> <li>i) To furnish copy of permission obtained from Director Mines Safety, Dept. of Geology &amp; Mining, Tamilnadu in regard to proposed existing rough stone quarry lie within 300m radius from the inhabited sites and for method of mining (blasting technique) as per Rule 36 (1-A) (a) of TNMMCR,1959.</li> <li>ii) The proponent shall furnish photographs of erected barbed wire fencing around the proposed mining site.</li> <li>iii) SEAC remarks &amp; recommendation on the Certified Compliance Report (CCR) Dt:29.06.2022 &amp; CER activities proposed by the project proponent.</li> <li>iv) Details of Cluster Management Committee proposed and its Environmental Policy to practice sustainable mining &amp; EMP for effective implementation of including Green Belt Development, Water</li> </ul>

  
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			sprinkling, blasting plan & its frequency by the member units of the cluster, usage of haul roads, risk management plan with safety measures to avoid untoward accidents, Emergency management/evacuation plan during natural disaster/calamities, Health of workers/ the public nearby etc.,
24.	Proposed Rough stone quarry project over an extent of 1.40.0 Ha in S.F.No. 22/4 (Part) at Marapparai Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu by Tmt.B.Mekala- For Environmental Clearance.	8445	<p>The Authority, after detailed discussions, decided to refer back the proposal to SEAC after the receipt of following additional particulars from the project proponent:</p> <p>i) The sub-committee in its inspection report has reported presence of structures (shed) at a distance of 160m North West and at distance of 220m North and nearest house is located at a distance of 170m South West.. Hence the proponent shall furnish copy of permission obtained from Director Mines Safety, Dept. of Geology &amp; Mining, Tamil Nadu for in regard to rough stone quarry proposed within 300m radius from the inhabited sites and physical structures and for method of mining (blasting technique) as per Rule 36 (1-A) (a) of TNMMCR,1959.</p> <p>ii) The proponent shall furnish photographs of erected barbed wire fencing around the proposed mining site.</p>

  
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			<p>iii) SEAC remarks &amp; recommendation on the Certified Compliance Report (CCR) &amp; CER activities proposed by the project proponent.</p> <p>iv) Details of Cluster Management Committee proposed and its Environmental Policy to practice sustainable mining &amp; EMP for effective implementation of including Green Belt Development, Water sprinkling, blasting plan &amp; its frequency by the member units of the cluster, usage of haul roads, risk management plan with safety measures to avoid untoward accidents, Emergency management/evacuation plan during natural disaster/calamities, Health of workers/ the public nearby etc.,</p>
25.	Proposed Rough stone and Gravel quarry project over an extent of 0.90.25 Ha in S.F.Nos. 176/2, 176/3 (P) & 176/11 (P) at Marapparai Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu by Thiru. M.Krishnan- For Environmental Clearance	8179	<p>The Authority, after detailed discussions, decided to refer back the proposal to SEAC after the receipt of following additional particulars from the project proponent:</p> <p>i) The sub-committee in its inspection report has reported presence of Labour Shed 20m South (belongs to owner), Crusher – 20m (belongs to owner), Poultry farm 220m South West, Farm house – 230m South West of the project site. Hence the proponent shall furnish copy of permission obtained from Director Mines Safety, Dept. of Geology</p>

  
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			<p>&amp; Mining, Tamil Nadu for in regard to rough stone quarry proposed within 300m radius from the aforesaid physical structures and for method of mining (blasting technique) as per Rule 36 (1-A) (a) of TNMMCR,1959.</p> <p>ii) The proponent shall furnish photographs of erected barbed wire fencing around the proposed mining site.</p> <p>iii) SEAC remarks &amp; recommendation on the Certified Compliance Report (CCR) &amp; CER activities proposed by the project proponent.</p> <p>iv) Details of Cluster Management Committee proposed and its Environmental Policy to practice sustainable mining &amp; EMP for effective implementation of including Green Belt Development, Water sprinkling, blasting plan &amp; its frequency by the member units of the cluster, usage of haul roads, risk management plan with safety measures to avoid untoward accidents, Emergency management/evacuation plan during natural disaster/calamities, Health of workers/ the public nearby etc.,</p>
26.	To consider the proposal for the grant of Environmental Clearance for Proposed Rough stone and Gravel quarry project over an extent of 1.16.0 Ha in S.F.No.22/2 at Marapparai	8268	The Authority after detailed discussion decided to refer back the proposal to SEAC after the receipt of following additional particulars from the project proponent as follows

  
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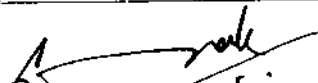
	<p>Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu by Thiru. S. Nandhakumar.</p>	<p>i) To furnish copy of permission obtained from Director Mines Safety, Dept. of Geology &amp; Mining, Tamilnadu in regard to proposed existing rough stone quarry lie within 300m radius from the inhabited sites and for method of mining (blasting technique) as per Rule 36 (1-A) (a) of TNMMCR,1959.</p> <p>ii) The proponent shall furnish photographs of erected barbed wire fencing around the proposed mining site.</p> <p>iii) SEAC remarks &amp; recommendation on the Certified Compliance Report (CCR) Dt:29.06.2022 &amp; CER activities proposed by the project proponent.</p> <p>iv) Details of Cluster Management Committee proposed and its Environmental Policy to practice sustainable mining &amp; EMP for effective implementation of including Green Belt Development, Water sprinkling, blasting plan &amp; its frequency by the member units of the cluster, usage of haul roads, risk management plan with safety measures to avoid untoward accidents, Emergency management/evacuation plan during natural disaster/calamities, Health of workers/ the public nearby etc.,</p>
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27.	<p>proposed Rough stone &amp; Gravel quarry lease over an extent of 2.02.3 ha at S.F. Nos. 176/1A, 176/5A, 176/6A - Marapparai &amp; 316/2B2 - Paruthipalli, Marapparai &amp; Paruthipalli Village Tiruchengode Taluk, Namakkal District Tamil Nadu by Thiru. S.Rangasamy - For Environmental Clearance.</p>	8312	<p>The Authority, after detailed discussions, decided to refer back the proposal to SEAC after the receipt of following additional particulars from the project proponent:</p> <ul style="list-style-type: none"> <li>i) The sub-committee in its inspection report has reported presence of Farm houses at a distance of 170m, 200m and 230m North and a shed at about 250m North East of the project site. Hence the proponent shall furnish copy of permission obtained from Director Mines Safety, Dept. of Geology &amp; Mining, Tamil Nadu for in regard to rough stone quarry proposed within 300m radius from the aforesaid physical structures and for method of mining (blasting technique) as per Rule 36 (1-A) (a) of TNMMCR, 1959.</li> <li>ii) The proponent shall furnish photographs of erected barbed wire fencing around the proposed mining site.</li> <li>iii) SEAC remarks &amp; recommendation on the Certified Compliance Report (CCR) &amp; CER activities proposed by the project proponent.</li> <li>iv) Details of Cluster Management Committee proposed and its Environmental Policy to practice sustainable mining &amp; EMP for effective implementation of including Green Belt Development,</li> </ul>
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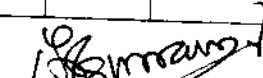
  
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			Water sprinkling, blasting plan & its frequency by the member units of the cluster, usage of haul roads, risk management plan with safety measures to avoid untoward accidents, Emergency management/evacuation plan during natural disaster/calamities, Health of workers/ the public nearby etc.,								
28.	To consider the proposal for the grant of Amendment in Terms of Reference with Public Hearing for the Proposed Rough Stone & Gravel quarry lease over an extent of 0.63.0Ha at S.F.No. 76/1 at Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu by M/s. NTC Blue Metals LLP.	8598	<p>After detailed discussion, the Authority decided to grant for amendment in the ToR issued vide Lr. No.SEIAA-TN/F.No.8598/SEAC/ToR-1023/2021 dated:26.08.2021.</p> <p>Hence, earlier Terms of Reference issued with public hearing in Page number 1, under the Details of Survey Numbers may be read as follows</p> <table border="1"> <thead> <tr> <th>Survey Numbers</th> <th>Earlier issued</th> <th>ToR of</th> <th>Amendment Issued</th> </tr> </thead> <tbody> <tr> <td></td> <td>76/1 Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu Extent: 0.63.0Ha</td> <td>of</td> <td>76/1(P) of Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu Extent: 0.63.0Ha</td> </tr> </tbody> </table> <p>All other conditions and the validity issued vide ToR dated 26.08.2021 remains unaltered and unchanged.</p>	Survey Numbers	Earlier issued	ToR of	Amendment Issued		76/1 Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu Extent: 0.63.0Ha	of	76/1(P) of Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu Extent: 0.63.0Ha
Survey Numbers	Earlier issued	ToR of	Amendment Issued								
	76/1 Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu Extent: 0.63.0Ha	of	76/1(P) of Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu Extent: 0.63.0Ha								
29.	Proposal seeking Environmental Clearance for the Proposed Rough stone & gravel quarry	7064	The authority noted that earlier the proposal was placed in the 268 <sup>th</sup> meeting of SEAC held on 29.04.2022. SEAC has furnished its								

  
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<p>lease area over an extent of 1.07.5Ha at F.No.59/13, 59/14, 59/15,59/16, 59/17, 59/18 &amp; 59/19, Brammadesam Village, Marakkanam Taluk, Viluppuram District, Tamil Nadu by Thiru.R.Vadivel</p>	<p>recommendations to the Authority for granting <b>Environmental Clearance to the Project</b> subject to the conditions stated therein.</p>
	<p>Subsequently, the subject was placed before the Authority in its 512<sup>th</sup> meeting held on 30.05.2022. After detailed discussions the Authority decided to request the Member Secretary, SEIAA TN to obtain a detailed study report from the proponent on the impact of proposed mining on the following and place before the Authority for further course of action.</p>
	<ol style="list-style-type: none"> <li>1. Aquifer in the vicinity</li> <li>2. Ground water potential and impact</li> <li>3. Water bodies which includes Eri/Odai/Lake located in the vicinity</li> <li>4. Biodiversity</li> <li>5. Marine/Coastal ecosystem</li> <li>6. Change in land use and land cover</li> <li>7. The EMP has to provide detailed mitigation strategies.</li> <li>8. Detailed Disaster management plan</li> </ol>
	<p>The project proponent furnished reply for the above said queries vide letter Dt: 09.09.2022. In this regard, the Authority after detailed discussions decided to refer back the proposal to SEAC for reappraisal and consideration.</p>

  
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Annexure 'A'

1. 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.
2. 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.
3. 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.
4. The proponent shall ensure that the operations do not result in loss of soil biological properties and nutrients.
5. The activity should not result in CO<sub>2</sub> release and temperature rise and add to micro climate alternations.
6. The proponent shall ensure that the activity does not disturb the water bodies and natural flow of surface and ground water, nor cause any pollution, to water sources in the area.
7. The proponent shall ensure that the activities undertaken do not result in carbon emission, and temperature rise, in the area.
8. 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.
9. The proponent shall ensure that the activities do not disturb the agro biodiversity and agro farms. Actions to be taken to promote agro forestry, mixed plants to support biodiversity conservation in the mine restoration effort.
10. 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.

  
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11. 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
12. Bio remediation using microorganisms should be carried out to restore the soil environment to enable carbon sequestration.
13. 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.
14. 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.
15. The proponent shall ensure that in the green belt development more indigenous trees species (Appendix as per the SEAC Minutes) to be planted.
16. The proponent shall ensure the area is restored and rehabilitated with native trees as recommended in SEAC Minutes (in Appendix).
17. The proponent shall ensure that the mine restoration is done using mycorrhizal VAM, vermin-composting, Biofertilizers to ensure soil health and biodiversity conservation.
18. The proponent shall ensure that the topsoil is protected and used in planting activities in the area.
19. 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.
20. The proponent shall ensure that topsoil to be utilized for site restoration and Green belt alone within the proposed area.
21. 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.
22. The project proponent shall store/dump the granite waste generated within the earmarked area of the project site for mine closure as per the approved mining plan.

**Directions for Reclamation of mine sites**

1. 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.

  
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2. 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.
3. 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.
4. For mining area reclamation plot culture experiments to be done to identify/ determine suitable species for the site.
5. 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.
6. Soil and moisture conservation and water harvesting structures to be used where ever possible for early amelioration and restoration of site.
7. 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.
8. 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.
9. 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.
10. Reclamation involves planned topographical reconstruction of site. Care to be taken to minimize erosion and runoff. Topsoils should have necessary physical, chemicals, ecological,

  
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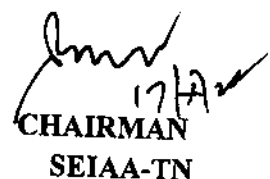
  
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properties and therefore should be stored with precautions and utilized for reclamation process. Stocked topsoil should be stabilized using grasses to protect from wind. Seeds of various indigenous and local species may be broad casted after topsoil and treated overburden are spread.

11. 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 reestablishing 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 ecofriendly. Integration of rehabilitation strategies with mining plan will enable speedy restoration.
12. 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 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 resorted to restore the site by adding soil humas and mycorrhiza.
13. Action taken for restoration of the site should be specifically mentioned in the EC compliances.

  
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