

# **MINUTES**

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

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

**Date: 18.05.2023**

**MINUTES OF THE 619<sup>th</sup> MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY HELD ON 18.05.2023.**


Agenda No	Description	File No.	Minutes
a)	Confirmation of the minutes of the 618 <sup>th</sup> meeting of the Authority held on 16.05.2023.		The minutes of the 618 <sup>th</sup> meeting of the Authority held on 16.05.2023 was confirmed.
b)	The Action taken on the decisions of the 618 <sup>th</sup> meeting of the Authority held on 16.05.2023.		The Member Secretary informed that 618 <sup>th</sup> Minutes uploaded in Parivesh website and action taken report will be putup ensuing meeting.
1.	Proposed Rough Stone Quarry lease over an extent of 4.42.5ha S.F.Nos. S.F.Nos.430/1, 430/4, 430/5, 430/6A, 430/6B, 430/6C, 430/9A, 430/10A, 430/10B, 430/11, 430/12, 430/13, 430/14, 430/15, 429/3C, 429/3D1, 429/3D2, 429/3D3, 423/1A, 423/1B & 423/1D Kuvalaikkanni Village. Sankarankovil Taluk, Tenkasi District, Tamil Nadu . by Thiru Inbarajan Suraj - for Environmental Clearance.	9732	<p>The authority noted that the subject was appraised in 372<sup>nd</sup> SEAC meeting held on 27.04.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussion, SEIAA decided to obtain the following additional details from the PP.</p> <ol style="list-style-type: none"> <li>1. This is a B2 category project. The study in the Pre-feasibility report on Environmental impacts needs more details as follows, to cover project life. <ol style="list-style-type: none"> <li>i. Impact on the local population due to the air pollution and dust.</li> <li>ii. Impact on the water quality, land quality in terms of pollution.</li> <li>iii. Impact on soil erosion.</li> <li>iv. Impact on health of workers and people around. Particularly skin, respiratory tract problems leading to Bronchitis and neurological issues, ulcer, cardiovascular, pulmonary diseases, asthma and other air borne disease.</li> </ol> </li> </ol>

  
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			<ul style="list-style-type: none"> <li>v. Detailed and sound Environmental Management Plan and policy to achieve scientific and sustainable mining. Action for protection and conservation of the Natural resources.</li> <li>vi. Impact on vegetation, wildlife. List of major flora, fauna and trees.</li> <li>vii. Arrangement for safe drinking water to the workers.</li> <li>viii. Anticipated total particulate matters and PM<sub>10</sub> concentration during project period.</li> <li>ix. Impact on waterbodies, lakes, borewells and water table.</li> <li>x. What is the restoration program and plan for mine pit closure.</li> <li>xi. Impact on temperature, Climate change and GHG emissions.</li> <li>xii. Impact on Agriculture and Horticulture.</li> <li>xiii. Impact on Noise pollution.</li> <li>xiv. Biomagnification effect through food chain on human, Grazing animals and wildlife.</li> </ul>
2.	Proposed Rough Stone Quarry lease over an extent of 3.46.04.5ha S.F.Nos. 161/1A(pt) Therku Ilandaikkulam Village, Kayathar Taluk, Thoothukudi District, Tamil Nadu by Thiru Kasim Mohamed Peer Mohideen– for Environmental Clearance.	9746	<p>The authority noted that this proposal was placed for appraisal in 372<sup>nd</sup> meeting of SEAC held on 27.04.2023 and SEAC after detailed discussion decided to defer the proposal and the PP shall furnish the following additional particulars.</p> <ul style="list-style-type: none"> <li>i) Registered lease agreement to be submitted.</li> <li>ii) Revised mining plan leaving a safety distance of minimum 150m from the wind mill located</li> </ul>

  
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			<p>adjacent to the project site, from the competent authority.</p> <p>In view of the above, the Authority decided to request Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent.</p>
3.	Proposed Rough Stone Gravel Quarry Project to an extent:1.69.0ha S.F.No. 228/1A of Ayilam Village, Walajah Taluk, Ranipet District, Tamil Nadu by Thiru R. Madhavan— for Environmental Clearance	9753	<p>The authority noted that the subject was appraised in 372<sup>nd</sup> SEAC meeting held on 27.04.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p><b>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of 71,755 m<sup>3</sup> of rough stone and 24,006 m<sup>3</sup> of gravel with an ultimate depth of mining upto 40m BGL as per the mine plan approved by the Department of Geology &amp; Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</b></p> <ol style="list-style-type: none"> <li>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</li> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB</li> </ol>

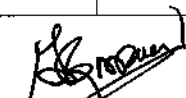
  
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			<p>on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</p> <ol style="list-style-type: none"> <li>3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&amp;CC while seeking a renewal of the mining plan to cover the project life.</li> <li>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</li> <li>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-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.</li> <li>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.</li> <li>7. The project proponent shall store/dump Top soil, Weathered Rock &amp; Granite Waste generated within the earmarked area of the</li> </ol>
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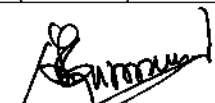
  
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			<p>project site and the utilize the same for mine closure as per the approved mine closure plan.</p> <p>8. As per the MoEF&amp; CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 as accepted by the Project proponent the revised CER cost is Rs. 5 Lakhs and the amount shall be spent towards the Panchayat Union Primary School, Ramapuram, Arcot, Ranipet District for the activities as committed, before obtaining CTO from TNPCCB.</p>
4.	Proposed Rough Stone Quarry (Government Land) lease over an extent of 0.71.0Ha S.F.No.4/1, Ganapathipatti Village, Harur Taluk, Dharmapuri District by M/s. Sri Amman Blue Metals – for Environmental Clearance	9726	<p>The authority noted that the subject was appraised in 372<sup>th</sup> meeting of SEAC held on 27.04.2023 and During SEAC presentation, PP has submitted Lr. Dt:27.04.2023 stating that they have decided to withdraw the proposal in view of the Circular Memo No. T1/TNPCCB/F.002953/Rough Stone/ SPR/2023 Dt:24.04.2023. Based on the above, SEAC has decided to recommend to SEIAA to accept the request of PP to withdraw the proposal No. SIA/TN/MIN/413314/2023, dt: 06.01.2023.</p> <p>In this regard, authority after detailed discussion decided to defer and to seek justification from the PP for withdrawal of this said proposal seeking EC.</p>
5.	Proposed Rough Stone & Gravel Quarry lease over an extent of 1.71.5Ha S.F.No.116/2B1B & 116/3A2, Nachipalayam Village, Madukkarai Taluk, Coimbatore District by Thiru.A.Palanisamy – for Environmental Clearance	9733	<p>The authority noted that the subject was appraised in 372<sup>th</sup> meeting of SEAC held on 27.04.2023 and SEAC noted certain non- compliance previous EC conditions was noticed. In this regard, SEAC after detailed discussion decided to defer the proposal and the PP shall furnish the following additional particulars</p>

  
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			<p>Enumerate the details of habitations &amp; structures within 300m radius from the proposed mining area</p> <p>ii) NOC for the proposed activity from the local panchayat/PWD/Competent authority with regard to nearby Kunitipaathi Odai and its check dam like structure.</p> <p>iii) Action plan on the CCR.</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 27.04.2023.</p> <p>The authority noted that the subject was appraised in 372<sup>th</sup> meeting of SEAC held on 27.04.2023 and SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of 42900 m<sup>3</sup> of Rough Stone and the depth of mining upto 21m BGL as per the mine plan approved by the Department of Geology &amp; Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <p>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O.</p>
6.	<p>Proposed Rough Stone Quarry (Government Land) lease over an extent of 0.62.5Ha S.F.No.360, Kalukondapalli Village, Denkanikottai Taluk, Krishnagiri District by Thiru.R.Venugopal Reddy - for Environmental Clearance</p>	9740	

  
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		<p>1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</p> <ol style="list-style-type: none"> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</li> <li>3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&amp;CC while seeking a renewal of the mining plan to cover the project life.</li> <li>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</li> <li>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-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.</li> <li>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</li> </ol>
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		<p>should be brought to the notice of concerned authorities during inspections.</p> <p>7. The project proponent shall store/dump <b>255 cu.m of Topsoil</b> generated within the earmarked area of the project site and the utilize the same for mine closure.</p> <p>8. The project proponent shall spend EMP cost of <b>Rs. 135.65 Lakhs/5 Years</b> including capital &amp; recurring cost with 5% inflation cost anticipated every year as committed.</p> <p>9. 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 CER cost is <b>Rs. 5 Lakhs</b> and the amount shall be spent for the Govt. Higher Secondary School, Madhakondapalli Village, Krishnagiri District as committed, before obtaining CTO from TNPCB.</p> <p>10. All the trees listed within the proposed mining area shall be transplanted all along the boundary.</p> <p>11. The PP shall ensure protection for the list of shrubs, herbs, climbers and the threatened/endangered vulnerable species within the proposed mining area as mentioned in the documents submitted.</p> <p>12. The PP shall ensure that the Wildlife habitat and Biodiversity shall not be disturbed.</p> <p>13. The PP shall ensure no impact on surrounding waterbodies and water course by the way of soil erosion, etc.</p>
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7.	<p>Proposed Rough Stone &amp; Gravel Quarry lease over an extent of 2.48.0Ha S.F.No.25/1A, 25/1B, 25/2A1, 25/2A2B &amp; 25/2B, Nerkundram Village, Uthiramerur Taluk, Kancheepuram District by Thiru.K.Arulkumar – for Environmental Clearance.</p>	9747	<p>The authority noted that the subject was appraised in 372<sup>th</sup> meeting of SEAC held on 27.04.2023 and SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of 178175 cu.m of Rough Stone &amp; 36714 Cu.m of Gravel and the depth of mining upto 35m as per the mine plan approved by the Department of Geology &amp; Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <ol style="list-style-type: none"> <li>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</li> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</li> <li>3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&amp;CC</li> </ol>
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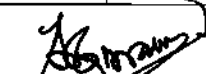
  
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		<p>while seeking a renewal of the mining plan to cover the project life.</p> <ol style="list-style-type: none"> <li>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</li> <li>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-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.</li> <li>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.</li> <li>7. The project proponent shall store/dump <b>Weathered Rock &amp; Topsoil</b> generated within the earmarked area of the project site and the utilize the same for mine closure.</li> <li>8. The project proponent shall spend EMP cost of <b>Rs. 290 Lakhs/10 Years</b> including capital &amp; recurring cost with 5% inflation cost anticipated every year as committed.</li> <li>9. As per the MoEF&amp; CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and</li> </ol>
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			<p>20.10.2020 accepted by the Project proponent, the CER cost is <b>Rs. 5 Lakhs</b> and the amount shall be spent for the Govt. High School, Aanambakkam Village as committed, before obtaining CTO from TNPCB.</p> <p>10. All the trees listed within the proposed mining area shall be transplanted all along the boundary.</p> <p>11. The PP shall ensure protection for the list of shrubs, herbs, climbers and the threatened/endangered vulnerable species within the proposed mining area as mentioned in the documents submitted.</p> <p>12. The PP shall ensure that the Wildlife habitat and Biodiversity shall not be disturbed.</p> <p>13. The PP shall ensure no impact on surrounding waterbodies and water course by the way of soil erosion, etc.</p>
8.	Proposed Rough Stone & Gravel Quarry lease over an extent of 1.62.00Ha S.F.No.1471A/22A1 (P), Gangaikondan Part-II Village, Tirunelveli Taluk, Tirunelveli District by Thiru.J.Selvakumar – for Environmental Clearance	9754	<p>The authority noted that the subject was appraised in 372<sup>th</sup> meeting of SEAC held on 27.04.2023 and SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of <b>205440 cu.m of Rough Stone &amp; 36765 Cu.m of Gravel and the depth of mining upto 43m</b> as per the mine plan approved by the Department of Geology &amp; Mining. This is also subject to the standard conditions as per Annexure - (I)</p>

  
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		<p>of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <ol style="list-style-type: none"><li>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</li><li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</li><li>3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&amp;CC while seeking a renewal of the mining plan to cover the project life.</li><li>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</li><li>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-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.</li></ol>
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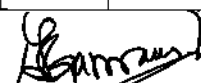
  
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		<p>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work &amp; expenditure made under EMP should 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 project proponent shall store/dump <b>Weathered Rock &amp; Topsoil</b> generated within the earmarked area of the project site and the utilize the same for mine closure.</p> <p>8. The project proponent shall spend EMP cost of <b>Rs. 102.50 Lakhs/5 Years</b> including capital &amp; recurring cost with 5% inflation cost anticipated every year as committed.</p> <p>9. 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 CER cost is Rs. 2.0 lakhs and the amount shall be spent for the Govt. Primary School, Gangaikondon Village &amp; Rs 3.0 lakhs shall be spent for mitigation measures to Gangaikondan wild life sanctuary in consultation with concerned DFO as committed, before obtaining CTO from TNPCCB.</p> <p>10. All the trees listed within the proposed mining area shall be transplanted all along the boundary.</p> <p>11. The PP shall ensure protection for the list of shrubs, herbs, climbers and the threatened/endangered vulnerable species</p>
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			<p>within the proposed mining area as mentioned in the documents submitted.</p> <p>12. The PP shall ensure that the Wildlife habitat and Biodiversity shall not be disturbed.</p> <p>13. The PP shall ensure no impact on surrounding waterbodies and water course by the way of soil erosion, etc.</p>
9.	Proposed Rough Stone and Gravel Quarry over an Extent of 2.07.5ha at S.F.Nos. 230 & 231/1 of Thennilai East Village, Pugalur Taluk, Karur District, Tamil Nadu by M/s. Sai Blue Metals -For Environmental Clearance	9748	<p>The Authority noted that the subject was appraised in the 372<sup>th</sup> SEAC meeting held on 27.04.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p><b>After detailed discussions, the Authority taking into account the recommendation of SEAC and the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of 1,06,355m<sup>3</sup> of Rough Stone &amp; 31,916m<sup>3</sup> of Gravel by restricting the depth of mining upto 40m Below Ground Level as per the mine plan approved by the Department of Geology &amp; Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</b></p> <p>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</p>

  
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		<ol style="list-style-type: none"><li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</li><li>3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&amp;CC while seeking a renewal of the mining plan to cover the project life.</li><li>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</li><li>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-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.</li><li>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.</li></ol>
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10.	Proposed Rough Stone and Gravel Quarry over an Extent 3.25.0ha at S.F.Nos. 116/1 (Part) & 116/2 (Part) of Panikkarkulam Village, Kayathar Taluk, Thoothukudi District, Tamil Nadu by Thiru.P. Sheik Dawood -For Environmental Clearance	9755	<p>The Authority noted that the subject was appraised in the 372<sup>nd</sup> SEAC meeting held on 27.04.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein. After detailed discussions, the Authority decided to request the Member Secretary, SEIAA-TN to obtain the following details and place before the Authority for further course of action.</p> <ol style="list-style-type: none"> <li>1. This is a B2 category project. The study in the Pre-feasibility report on Environmental impacts needs more details as follows, to cover project life. <ol style="list-style-type: none"> <li>i. Impact on the local population due to the air pollution and dust.</li> <li>ii. Impact on the water quality, land quality in terms of pollution.</li> <li>iii. Impact on soil erosion.</li> <li>iv. Impact on health of workers and people around. Particularly skin, respiratory tract problems leading to Bronchitis and neurological issues, ulcer, cardiovascular, pulmonary diseases, asthma and other air borne disease.</li> <li>v. Detailed and sound Environmental Management Plan and policy to achieve scientific and sustainable mining. Action for protection and conservation of the Natural resources.</li> <li>vi. Impact on vegetation, wildlife. List of major flora, fauna and trees.</li> <li>vii. Arrangement for safe drinking water to the workers.</li> </ol> </li> </ol>
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			<ul style="list-style-type: none"> <li>viii. Anticipated total particulate matters and PM<sub>10</sub> concentration during project period.</li> <li>ix. Impact on waterbodies, lakes, borewells and water table.</li> <li>x. What is the restoration program and plan for mine pit closure.</li> <li>xi. Impact on temperature, Climate change and GHG emissions.</li> <li>xii. Impact on Agriculture and Horticulture.</li> <li>xiii. Impact on Noise pollution.</li> <li>xiv. Biomagnification effect through food chain on human, Grazing animals and wildlife.</li> </ul> <p>In view of the above, Authority decided to request the Member Secretary, SEIAA to communicate the minutes to the project proponent.</p>
11.	Proposed Multi Colour Granite quarry lease over an extent of 1.80.0 Ha S.F.Nos. 404/1(Part), 404/2(Part), 404/3(Part), 404/4(Part), 404/5(Part), 404/6(Part), 404/7(Part), 404/8, 405/1, 405/2, 405/3(Part), 405/4, 405/5(Part) and 405/6A (Part) in K.Pitchampatti Village, Karur Taluk & District, Tamil Nadu by Smt. P. Sujeetha- For Environmental Clearance	9728	<p>The Authority noted that the subject was appraised in 372<sup>nd</sup> meeting of SEAC held on 27.04.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to <b>grant Environmental Clearance for the extraction quantity of RoM-20015 m<sup>3</sup>, Granite (Recovery 60%) - 12009 m<sup>3</sup> and Granite Waste (40%) – 8006 m<sup>3</sup> to the depth of 28m in 5 years</b> as per the approved mining plan. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated</p>

  
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CHAIRMAN  
SEIAA-TN

by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.

1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.
2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of 5 years 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-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.
6. The amount allocated for EMP should be kept in a separate account and both the capital and

  
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SEIAA-TN

			<p>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 project proponent shall store/dump Top soil, Weathered Rock &amp; Granite Waste generated within the earmarked area of the project site and the utilize the same for mine closure as per the approved mine closure plan.</p>
12.	Existing Rough Stone quarry lease (1st scheme of mining) over an extent of 0.63.5 Ha S.F.No. 100 of Kulathur Village, Kulathur Taluk, Pudukottai District, Tamil Nadu by Thiru. M.Ravi- For Environmental Clearance	9735	<p>The Authority noted that the subject was appraised in 372<sup>nd</sup> meeting of SEAC held on 27.04.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to <b>grant Environmental Clearance for the production quantity of 23,020 m<sup>3</sup> of Rough stone to an ultimate depth of 43m BGL in 5 years</b> as per the approved mining plan. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <p>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O.</p>

  
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CHAIRMAN  
SEIAA-TN

		<p>1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</p> <ol style="list-style-type: none"> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</li> <li>3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&amp;CC while seeking a renewal of the mining plan to cover the project life.</li> <li>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</li> <li>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-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.</li> <li>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</li> </ol>
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			<p>should be brought to the notice of concerned authorities during inspections.</p> <p>7. The project proponent shall store/dump Top soil, Weathered Rock &amp; Granite Waste generated within the earmarked area of the project site and the utilize the same for mine closure as per the approved mine closure plan.</p>
13.	Proposed Rough stone and Gravel quarry lease over an extent of – 2.99.48ha S.F.Nos. 1341/1(P) & 1341/2 (P) Nagamballi Village, Aravakurichi Taluk, Karur District, Tamil Nadu by Tvl. Sree Dheivam Blue Metals, – For Environmental Clearance	9749	<p>The Authority noted that, the subject was appraised in 372<sup>nd</sup> meeting of SEAC held on 27.04.2023. The SEAC noted that the project proponent has submitted a letter stating his inability to attend the meeting. Hence SEAC decided to defer the subject to a later date.</p> <p>In view of the above, the Authority decided to request the Member Secretary, SEIAA to communicate the minutes of the SEAC to the Project Proponent.</p>
14.	Proposed Rough Stone and Gravel quarry lease over an extent of – 0.65.0 ha S.F.No. 41/IA (P) of Anjanur Village, Nambiyur Taluk, Erode District, Tamil Nadu by Tmt. C. Sumathi– For Environmental Clearance	9756	<p>The Authority noted that the subject was appraised in 372<sup>nd</sup> meeting of SEAC held on 27.04.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to <b>grant Environmental Clearance for the production quantity of 36,100m<sup>3</sup> of Rough stone and 7,938 m<sup>3</sup> of Gravel to the depth of 22m in 5 years as per the approved mining plan.</b></p> <p>This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in</p>

  
MEMBER SECRETARY

  
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CHAIRMAN  
SEIAA-TN

		<p>addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <ol style="list-style-type: none"> <li>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</li> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</li> <li>3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&amp;CC while seeking a renewal of the mining plan to cover the project life.</li> <li>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</li> <li>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-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.</li> <li>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</li> </ol>
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			<p>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 project proponent shall store/dump Top soil, Weathered Rock &amp; Granite Waste generated within the earmarked area of the project site and the utilize the same for mine closure as per the approved mine closure plan.</p>
15.	Proposed Rough Stone quarry lease area over an extent of Extent 1.14.0 Ha at SF.No. 574/1(P) of Gurunathanaickanur Village, Dindigul West Taluk, Dindigul District, Tamil Nadu by Thiru. K. Kathiresan - For Environmental Clearance.	9736	<p>The authority noted that the subject was appraised in 372<sup>nd</sup> SEAC meeting held on 27.04.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance. <b>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 restricted quantity of 56,595m<sup>3</sup> of rough stone for the depth of mining up to 32m BGL as per the mine plan approved by the Department of Geology &amp; Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</b></p> <p>1. Keeping in view of MoEF&amp;CC notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental</p>

  
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SEIAA-TN



		<p>Clearance is valid as per the approved mine plan period.</p> <ol style="list-style-type: none"> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</li> <li>3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&amp;CC while seeking a renewal of the mining plan to cover the project life.</li> <li>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</li> <li>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-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.</li> <li>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.</li> </ol>
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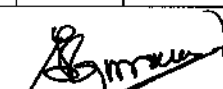
  
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CHAIRMAN  
SEIAA-TN

16.	Proposed Rough Stone & Gravel quarry lease area over an extent of Extent 2.99.62 Ha at SF. No. 339/6, 339/7, 340/1A, 340/1B(P), 340/4A1 & 340/4D of Nedungulam Village, Sathankulam Taluk, Thoothukudi District, Tamil Nadu by Thiru. P. Rajagopal - For Environmental Clearance	9757	<p>The authority noted that the subject was appraised in 372<sup>nd</sup> SEAC meeting held on 27.04.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance. <b>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 restricted quantity of 91,765m<sup>3</sup> of Rough stone &amp; 74,375m<sup>3</sup> of Gravel for the depth of mining up to 25m BGL as per the mine plan approved by the Department of Geology &amp; Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</b></p> <ol style="list-style-type: none"> <li>1. Keeping in view of MoEF&amp;CC notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</li> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</li> <li>3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&amp;CC</li> </ol>
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SEIAA-TN

			<p>while seeking a renewal of the mining plan to cover the project life.</p> <p>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</p> <p>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-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>
17.	Proposed Rough Stone quarry Lease over an extent of 3.20.0 Ha at S.F.No. 352/2 (Part-3) in Chokkampatti Village, Melur Taluk, Madurai District, Tamil Nadu by Thiru. S. Maheswaran – For Environmental Clearance	9737	<p>The authority noted that the subject was appraised in the 372<sup>nd</sup> SEAC meeting held on 27.04.2023. SEAC has furnished its recommendations to the authority for granting environmental clearance subject to the conditions stated therein.</p> <p>The Authority, after detailed deliberations decided to consider the proposal after obtaining the following particulars from the project proponent:</p>

  
MEMBER SECRETARY

  
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CHAIRMAN  
SEIAA-TN

			<p>1. Since this is a B2 category project with a project area of more than 3 hectares, the study in the Pre-feasibility report on Environmental impacts needs more details as follows, to cover project life:</p> <p>a) Impact on the local population due to air pollution and dust.</p> <p>b) Impact on the health of workers and people around, particularly skin, respiratory tract problems leading to Bronchitis and neurological issues, cardiovascular, pulmonary diseases, asthma and other air borne disease.</p> <p>c) Action plan for the protection and conservation of natural resources.</p> <p>d) Anticipated total particulate matters and PM<sub>10</sub> concentration during project period.</p> <p>e) Impact on waterbodies, lakes, borewells and water table due to the proposed mining activity.</p> <p>f) Impact of the proposed mining activity on temperature, Climate change and GHG emissions.</p> <p>g) Impact on Agriculture and Horticulture.</p> <p>h) Biomagnification effect through food chain on humans, Grazing animals and wildlife.</p>
18.	Proposed Rough Stone & Gravel quarry Lease over an extent of 2.05.00 Ha at S.F.No. 403 in Palamadai Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by Thiru. A. Sundara Rajan – For Environmental Clearance	9751	The authority noted that the subject was appraised in the 372 <sup>nd</sup> SEAC meeting held on 27.04.2023. Based on the presentation and details furnished by the project proponent, the committee after detailed discussions decided to consider the proposal after the receipt of the following details from the project proponent:

  
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CHAIRMAN  
SEIAA-TN

			<p>i) The proponent shall furnish details on the water bodies located within a radius of 50m, 100m, 200m &amp; 300m from the proposed project site.</p> <p>ii) The proponent shall furnish the authenticated village map corresponding to the proposed project site.</p> <p>In view of this, the authority after deliberations, decided to request Member Secretary, SEIAA to communicate the minutes of the 372<sup>nd</sup> SEAC meeting to the project proponent.</p>
19.	Proposed Rough Stone & Gravel quarry Lease over an extent of 1.23.0 Ha at S.F.No. 162/2 (Part) in Therkuilandaikkulam Village, Kayathar Taluk, Thoothukudi District, Tamil Nadu by Thiru. P. Mohamed Kasim – For Environmental Clearance.	9758	<p>The authority noted that the subject was appraised in the 372<sup>nd</sup> SEAC meeting held on 27.04.2023. SEAC has furnished its recommendations to the authority for granting environmental clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of <b>1,42,079m<sup>3</sup> of Rough Stone, and 18,326m<sup>3</sup> of gravel</b> by restricting the <b>depth of mining upto 35m below ground level</b> as per the mine plan approved by the Department of Geology &amp; Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <p>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental</p>

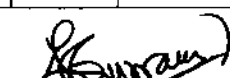
  
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			<p>Clearance is valid as per the approved mine plan period.</p> <ol style="list-style-type: none"> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</li> <li>3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&amp;CC while seeking a renewal of the mining plan to cover the project life.</li> <li>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</li> <li>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-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.</li> <li>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.</li> </ol>
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SEIAA-TN

20.	<p>Proposed Rough Stone &amp; Gravel Quarry over an extent of 4.90.5Ha in SF.No. 1085, 1086, 1088, 1089/1 &amp; 1089/2 at Seliyanallur Village, Manur Taluk, Tirunelveli District, Tamil Nadu by Thiru.K.Ayyadurai- For Environmental Clearance.</p>	9752	<p>The authority noted that this proposal was placed for appraisal in 372<sup>nd</sup> meeting of SEAC held on 27.04.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>In view of the above, the authority decided that the PP shall submit,</p> <ol style="list-style-type: none"> <li>1. This is a B2 category project. The study in the Pre-feasibility report on Environmental impacts needs more details as follows, to cover project life. <ol style="list-style-type: none"> <li>i. Impact on the local population due to the air pollution and dust.</li> <li>ii. Impact on the water quality, land quality in terms of pollution.</li> <li>iii. Impact on soil erosion.</li> <li>iv. Impact on health of workers and people around. Particularly skin, respiratory tract problems leading to Bronchitis and neurological issues, ulcer, cardiovascular, pulmonary diseases, asthma and other air borne disease.</li> <li>v. Detailed and sound Environmental Management Plan and policy to achieve scientific and sustainable mining. Action for protection and conservation of the Natural resources.</li> <li>vi. Impact on vegetation, wildlife. List of major flora, fauna and trees.</li> <li>vii. Arrangement for safe drinking water to the workers.</li> </ol> </li> </ol>
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			<ul style="list-style-type: none"> <li>viii. Anticipated total particulate matters and PM<sub>10</sub> concentration during project period.</li> <li>ix. Impact on waterbodies, lakes, borewells and water table.</li> <li>x. What is the restoration program and plan for mine pit closure.</li> <li>xi. Impact on temperature, Climate change and GHG emissions.</li> <li>xii. Impact on Agriculture and Horticulture.</li> <li>xiii. Impact on Noise pollution.</li> <li>xiv. Biomagnification effect through food chain on human, Grazing animals and wildlife.</li> </ul>
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21. File No: 964  
 Construction of residential complex at S.F.No. 24/1, 24/3A1A, 24/3A1B, 24/9, 24/10 & 26/3 of Sundharacholavaram Village, Poonamallee Taluk, Thiruvallur District, Tamilnadu by M/s. R.M.K Construction & Housing - For Amendment in Environmental Clearance.  
 The authority noted that the subject was appraised in the 372<sup>nd</sup> SEAC meeting held on 27.04.2023. The Committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to **reiterate its recommendation** already made in 350<sup>th</sup> SEAC meeting held on 02.02.2023.  
 After detailed deliberations, the Authority decided to accept the recommendations of SEAC and issue the following amendment to the Environmental clearance (extension) issued vide Letter No. SEIAA/TN/F.964/A/ 8(a)/EC-174/2013 dt:17.06.2022 subject to the condition that all other conditions stipulated in the earlier ECs issued vide Letter No. SEIAA/TN/F.964/EC/ 8(a)/ 174 /2013 dt:11.06.2013, Letter No. SEIAA/TN/F.964/A/ 8(a)/2013 dt:16.07.2013 & Letter No. SEIAA/TN/F.964/A/ 8(a)/EC-174/2013 dt:17.06.2022 shall remain unaltered.

S. No.	Description	Approved In Earlier EC (Extension) Dated 17.06.2022	Amendment Recommended

  
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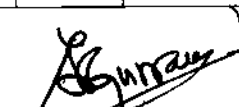
  
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1	CER Condition	As accepted, the PP shall provide free education including free hostel accommodation with food for 50 Nos. of poor students per year, from Govt Schools who are admitted in educational institutions run by the PP	As accepted, the PP shall undertake the renovation and maintenance of toilets and construction of library buildings – including supply of furniture and books to the library for 5 Govt. schools in nearby villages namely Chinnambedu, Pudevoyal, Peruvoyal, Kavaraipettai, Poochiathipedu in Tiruvallur District.
22.	Proposed Grey Granite Quarry over an extent of 2.10.5 Hectare at S.F.No: 248/3A1B(P) & 248/3B1(P) of Soolamalai Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru.C.Rajendran - For Environmental Clearance.	5010	The authority noted that the subject was appraised in the 372 <sup>nd</sup> SEAC meeting held on 27.04.2023. During the meeting, the Committee noted that the project proponent was absent. Hence the subject was not taken up for discussion. Further, the Committee decided that the project proponent shall furnish the reason for his absence.  In view of this, the authority after deliberations, decided to request Member Secretary, SEIAA to communicate the minutes of the 372 <sup>nd</sup> SEAC meeting to the project proponent.
23.	Proposed of Rough Stone Quarry lease over an extent of 3.96.5Ha Patta Land in S.F.No.738 Panchakshipuram Village, Hosur Taluk, Krishnagiri District, Tamilnadu by Thiru.S.G.Anand Kumar - for Environmental Clearance	8618	The authority noted that the subject was appraised in 372 <sup>th</sup> meeting of SEAC held on 27.04.2023 and SEAC reiterated its recommendation already made in 350 <sup>th</sup> SEAC meeting held on 02.02.2023. All other conditions stipulated in the earlier minutes will remain unaltered.  After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of <b>591425 cu.m of Rough Stone and the depth of mining upto 32m (11m AGL &amp; 21m BGL)</b> as per the mine plan approved by the

  
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SEIAA-TN

Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.

1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.
2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years 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-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through


  
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CHAIRMAN  
SEIAA-TN

		<p>newly developed compliance module in the PARIVESH Portal from the respective login.</p> <ol style="list-style-type: none"> <li>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.</li> <li>7. The project proponent shall store/dump <b>63040 cu.m of Topsoil</b> generated within the earmarked area of the project site and the utilize the same for mine closure.</li> <li>8. The project proponent shall spend EMP cost of <b>Rs. 2.08 Crores/10 Years</b> including capital &amp; recurring cost with 5% inflation cost anticipated every year as committed.</li> <li>9. 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 CER cost is <b>Rs. 10 lakhs</b> and the amount shall be spent for the Govt. Higher Secondary School, Machinayakanpalli Village, Hosur Taluk, Krishnagiri District as committed, before obtaining CTO from TNPCB.</li> <li>10. All the trees listed within the proposed mining area shall be transplanted all along the boundary.</li> <li>11. The PP shall ensure protection for the list of shrubs, herbs, climbers and the threatened/endangered vulnerable species</li> </ol>
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SEIAA-TN

			<p>within the proposed mining area as mentioned in the documents submitted.</p> <p>12. The PP shall ensure that the Wildlife habitat and Biodiversity shall not be disturbed.</p> <p>13. The PP shall ensure no impact on surrounding waterbodies and water course by the way of soil erosion, etc.</p>
24.	Proposal for the grant of Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 3.84.05Ha at S.F.Nos. 150/2(P), 151/2(P), 151/3(P), 151/4(P) of Sevalpatti Village, Vembakottai Taluk, Virudhunagar District by Thiru. R.Thangapalani	9710	<p>The authority noted that the PP has requested to withdraw his file stating that "I chosen the alternative site for rough stone and gravel quarry which follows the rule 36(1-A) in TNMMCR 1959. The present proposed site have certain legal constraints not to satisfy for the authority recommendations".</p> <p>After detailed discussion, the Authority decided that, it appears that the site has been worked, therefore the PP is directed to obtain letter from AD mines stating that this particular site has never been worked at any time by the PP.</p>
25.	Proposed For Manufacturing of MS Billets And TMT Rods at S.F. Nos. 478/1, 478/2, 478/3, 478/4A, 479/1, 479/2A, 480/1 & 480/2 of Varappatti Village, Sulur Taluk, Coimbatore District, Tamil Nadu by M/s. Meenakshi Steel Re Rollers- For Environmental Clearance.	7776	<p>The authority noted that the PP has requested to withdraw his file stating that "due to market situation, we are not implementing our proposed project".</p> <p>After detailed discussion, the Authority decided that the file shall be sent to SEAC to obtain opinion and recommendation for the withdraw request from PP.</p>
26.	File No: 8700 To consider the proposal for the grant of Amendment Environmental Clearance for Proposed Rough & Gravel quarry over an extent of 1.43.0 Ha located at S.F. No. 70/A2, 70/B2 & 70/C2(P) Keeranur Village, Kangeyam Taluk, Tiruppur District, Tamil Nadu by Thiru.K.Thangavelu. The PP has requested for Amendment for change of initial in name from T.Thangavelu to		

  
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SEIAA-TN

K.Thangavelu.

After detailed deliberation, the Authority decided to issue the following amendment to the Environmental clearance issued vide Lr.No.SEIAA-TN/F.No.8700/EC.No:5020/2021 Dated: 18.03.2022 subject to the conditions mentioned below.

S. No	Description	As per EC issued dated 18.03.2022	Amendment issued												
1.	Subject	Page 2 of 23 – In subject SEIAA-TN –Proposed Rough & Gravel quarry over an extent of 1.43.0 Ha located at S.F. No. 70/A2, 70/B2 & 70/C2(P) Keeranur Village, Kangeyam Taluk, Tiruppur District, Tamil Nadu by Thiru.T.Thangavelu – issue of Environmental Clearance – Regarding.	In Page 2 of 23 – The Subject may be read as, SEIAA-TN –Proposed Rough & Gravel quarry over an extent of 1.43.0 Ha located at S.F. No. 70/A2, 70/B2 & 70/C2(P) Keeranur Village, Kangeyam Taluk, Tiruppur District, Tamil Nadu by Thiru.K.Thangavelu – issue of Environmental Clearance – Regarding.												
2.	Details of Minor Mineral Activity	Page 2 of 23 – In details of Minor Mineral Activity	In Page 2 of 23 – The details of Minor Mineral Activity may be read as,												
		<table border="1"> <thead> <tr> <th>S.No</th> <th>Particulars</th> <th>Details furnished</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Name of the Owner/ Firm</td> <td>Thiru.T.Thangavelu S/o.Kittusamy Rasapalayam, Punjai Palatholuvu ErodeDistrict- 638751</td> </tr> </tbody> </table>	S.No	Particulars	Details furnished	1	Name of the Owner/ Firm	Thiru.T.Thangavelu S/o.Kittusamy Rasapalayam, Punjai Palatholuvu ErodeDistrict- 638751	<table border="1"> <thead> <tr> <th>S.No</th> <th>Particulars</th> <th>Details furnished</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Name of the Owner/ Firm</td> <td>Thiru.K.Thangavelu S/o.Kittusamy Rasapalayam, Punjai Palatholuvu Erode District- 638751</td> </tr> </tbody> </table>	S.No	Particulars	Details furnished	1	Name of the Owner/ Firm	Thiru.K.Thangavelu S/o.Kittusamy Rasapalayam, Punjai Palatholuvu Erode District- 638751
S.No	Particulars	Details furnished													
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MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN

3	Validity	<p>Page 4 of 23 – Below tabular column The Proponent has furnished affidavit in Hundred Rupees stamp paper attested by the Notary stating that I, Thiru.T.Thangavelu S/o.Kittusamy Rasapalayam, Punjai Palatholuvu Erode District-638751, solemnly declare and sincerely affirm that:</p>	<p>Page 4 of 23 – Below tabular column – may be read as, The Proponent has furnished affidavit in Hundred Rupees stamp paper attested by the Notary stating that I, Thiru.K.Thangavelu S/o.Kittusamy Rasapalayam, Punjai Palatholuvu Erode District-638751, solemnly declare and sincerely affirm that:</p>
<p>Conditions: 1. All other conditions and validity mentioned in the EC dated 18.03.2022 will remain unchanged and unaltered.</p>			
27.	<p>To consider the proposal Withdrawal for the grant of Terms of Reference (TOR) for the Proposed Rough Stone &amp; Gravel quarry lease over an extent of 1.39.0Ha at S.F.Nos.14/1 &amp; 15/2 Azhagiyapakkam Village, Marakkanam Taluk, Viluppuram District by Thiru. R.Rasu</p>	9113	<p>The authority noted that the PP has requested to withdraw his file stating that he has obtained revised 500m radius cluster letter in this regard vide dated 27.09.2022. After detailed discussion, the Authority decided that the file shall be sent to SEAC to obtain opinion from SEAC whether the project comes under B1 or B2 and also SEAC may furnish its recommendation for the withdraw request from PP.</p>
28.	<p>Proposed of Black Granite lease over an extent of 1.00.0H at S.F.No.99/3A1(Part) of Nammandahalli Village, Palacode Taluk, Dharmapuri District, Tamil Nadu by Thiru.K.S.Thanikachalam Kumar - for Environmental Clearance</p>	7457	<p>The Authority noted that earlier this proposal was placed for appraisal in the 226<sup>th</sup> meeting of SEAC held on 17.08.2021. Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the project proposal to SEIAA for grant of Environmental Clearance subject to the conditions as stated therein, in addition to standard conditions stipulated by the MoEF &amp; CC. Subsequently, this subject was placed before the Authority in its 463<sup>rd</sup> meeting held on 24.09.2021.</p>

  
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MEMBER

  
CHAIRMAN  
SEIAA-TN

After detailed discussion, the Authority decided to refer back the proposal to SEAC for reappraisal and furnish the recommendation to SEIAA for taking further course of action.

Hence, the proposal was again placed for appraisal in the 241<sup>st</sup> meeting of SEAC held on 03.11.2021. The SEAC has noted the remarks & decision of refer back by SEIAA. The SEAC has gone through the reply furnished by VAO Lr.dt: 19.08.2021 stating that un-approved habitations are located within 300m radius from the periphery of the proposed quarry, even though stated has un-approved there are people staying there, SEAC of view their safety and health to be considered as per 300m radius rule, the project proponent does not comply with. Also, the mine plan validity of the proposed applied mine lease area was expired on 11.09.2021. **Based on the reasons, the project is not recommended for grant of Environmental Clearance.**

Subsequently, this subject was placed before the Authority in its 484<sup>th</sup> meeting held on 29.01.2022 & 31.01.2022. After detailed discussion, the Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent. In the event of representation being received, we may forward back to SEAC for further course of action.

Now, the PP has made a representation to SEIAA vide Lr. Dt. 28.02.2023 for reconsideration of the decision. The Authority has gone through the reply submitted by the PP. As decided by SEAC in the 241<sup>st</sup> meeting of SEAC held on 03.11.2021, this representation has no justification/merits for

  
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MEMBER

  
CHAIRMAN  
SEIAA-TN

			<p>reconsideration.</p> <p>In view of the above, SEIAA accepts the decision of SEAC and decided to request the Member Secretary to grant rejection letter to the proponent as per the 241<sup>st</sup> meeting of SEAC held on 03.11.2021. Hence, this file may be closed and recorded.</p>
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**Annexure-'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.

**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 and Biological diversity Rules, 2004 and Rules made there under and also any other orders passed by the Hon'ble Supreme Court

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN



of India/Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter

**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.

**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.

  
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MEMBER

  
CHAIRMAN  
SEIAA-TN

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

**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.

**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.

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN

25. The proponent shall ensure that the topsoil is protected and used in planting activities in the area.
26. The proponent shall ensure that topsoil to be utilized for site restoration and Green belt alone within the proposed area.
27. The top soil shall be temporarily stored at earmarked place (s) and used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geotextile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.

**Noise Environment – Protection and mitigation measures**

28. The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
29. 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.

**Biodiversity - Protection and mitigation measures**

30. 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.
31. 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.

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN

32. 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.
33. 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.
34. 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.

#### **Climate Change**

35. The project activity should not in any way impact the climate and lead to a rise in temperature.
36. There should be least disturbance to landscape resulting in land use change, contamination and alteration of soil profiles leading to Climate Change.
37. Intensive mining activity should not add to temperature rise and global warming.
38. Operations should not result in GHG releases and extra power consumption leading to Climate Change.
39. Mining through operational efficiency, better electrification, energy use, solar usage, use of renewable energy should try to decarbonize the operations.
40. Mining Operation should not result in droughts, floods and water stress, and shortages, affecting water security both on site and in the vicinity.
41. Mining should not result in water loss from evaporation, leaks and wastage and should support to improve the ground water.
42. 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.

#### **Reserve Forests & Protected Areas**

43. The activities should provide nature based support and solutions for forest protection and wildlife conservation.
44. The project activities should not result in forest fires, encroachments or create forest fragmentation and disruption of forest corridors.
45. There should be no disturbance to the freshwater flow from the forest impacting the water table and wetlands.
46. The project proponent should support all activities of the forest department in creating awareness to local communities on forest conservation.

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN

47. The project activities should not alter the geodiversity and geological heritage of the area.
48. The activities should not result in temperature rise due to increased fossil fuels usage disrupting the behaviour of wildlife and flora.
49. The activities should support and recognise the rights and roles of indigenous people and local communities and also support sustainable development.
50. The project activities should support the use of renewables for carbon capture and carbon storage in the project site and forest surrounds.
51. The project activities should not result in changes in forest structure, habitats and genetic diversity within forests.

**Green Belt Development**


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

**Workers and their protection**

54. 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.
55. 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.
56. 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.

**Transportation**

57. 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

  
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MEMBER

  
CHAIRMAN  
SEIAA-TN

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.

58. 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.

**Storage of wastes**

59. 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.

**CER/EMP**

60. The CER Should be fully Implemented and fact reflected in the Half-yearly compliance report.
61. The EMP Shall also be implemented in consultation with local self-government institutions.
62. The follow-up action on the implementation of CER Shall be included in the compliance report.

**Directions for Reclamation of mine sites**

63. 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.
64. 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.

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN

65. 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.
66. For mining area reclamation plot culture experiments to be done to identify/ determine suitable species for the site.
67. 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.
68. Soil and moisture conservation and water harvesting structures to be used where ever possible for early amelioration and restoration of site.
69. 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.
70. 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.
71. 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.
72. 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

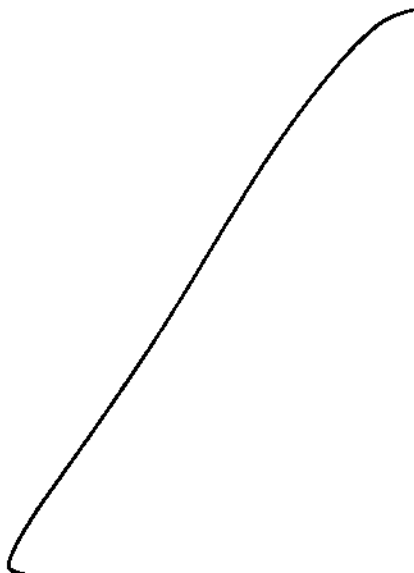
  
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MEMBER

  
CHAIRMAN  
SEIAA-TN

wind. Seeds of various indigenous and local species may be broad casted after topsoil and treated overburden are spread.

73. Alkaline soils, acidic soils, Saline soils should be suitably treated/amended using green manure, mulches, farmyard manure to increase organic carbon. The efforts should be taken to landscape and use the land post mining. The EMP and mine closure plan should provide adequate budget for re-establishing the site to pre-mining conditions. Effective steps should be taken for utilization of over burden. Mine waste to be used for backfilling, reclamation, restoration, and rehabilitation of the terrain without affecting the drainage and water regimes. The rate of rehabilitation should be similar to rate of mining. The land disturbed should be reshaped for long term use. Mining should be as far as possible be eco-friendly. Integration of rehabilitation strategies with mining plan will enable speedy restoration.
74. Efforts should be 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.
75. Action taken for restoration of the site should be specifically mentioned in the EC compliances.



  
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