

392

**MINUTES**

**642<sup>nd</sup> MEETING**

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

**Date: 31.07.2023**

**MINUTES OF THE 642<sup>nd</sup> MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT  
ASSESSMENT AUTHORITY HELD ON 31.07.2023.**

<b>Agenda No</b>	<b>Description</b>	<b>File No.</b>	<b>Minutes</b>
a)	Confirmation of the minutes of the 641 <sup>st</sup> meeting of the Authority held on 27.07.2023 & 28.07.2023.		The minutes of the 641 <sup>st</sup> meeting of the Authority held on 27.07.2023 & 28.07.2023 was confirmed.
b)	The Action taken on the decisions of the 641 <sup>st</sup> meeting of the Authority held on 27.07.2023 & 28.07.2023.		The Member Secretary informed that 641 <sup>st</sup> Minutes uploaded in Parivesh website and action taken report will be putup ensuing meeting.
1.	Proposed Gravel Quarry lease over an extent of 1.96.50 Ha in S.F.No. 209/2B, 209/2C, 209/3B, 209/3C, 209/4B, 209/4C, 209/4D, 209/4E, 223/3B, 223/3C, 223/3D and 223/2 of Mustakurichi Village, Kariyapatty Taluk, Virudhunagar District, Tamil Nadu by Thiru. P. Krishnamoorthy – For Environmental Clearance.	10061	The authority noted that the subject was appraised in the 392 <sup>nd</sup> SEAC meeting held on 14.07.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.  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 area of 1.55.0 Ha (Pit – I only) for the revised quantity of 22,191m <sup>3</sup> of gravel upto the maximum depth of 2m below ground level as per the mine plan approved by the 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.

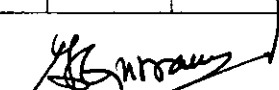
  
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			<ol style="list-style-type: none"> <li>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</li> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 3 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;</li> </ol>
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			<p>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>
2.	<p>Proposed Rough Stone and Gravel Quarry lease over an extent of 1.58.40 Ha in S.F.No. 211/4B1, 4B2, 4C, 4D, 4E, 7A1, 7A2, 7A3, 7C1, 7C2, 7D2 &amp; 217/11A, 11B, 12A of Kalligudi Bit - 2 Village, Kalligudi Taluk, Madurai District, Tamil Nadu by Thiru. M. Praveen – For Environmental clearance.</p>	10068	<p>The authority noted that the subject was appraised in the 392<sup>nd</sup> SEAC meeting held on 14.07.2023. 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 grant Environmental Clearance for the quantity of <b>84,850m<sup>3</sup> of rough stone and 20,394m<sup>3</sup> of gravel upto the maximum depth of 12m 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> <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</li> </ol>

  
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			<p>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> <p>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.</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>
3.	Proposed rough stone quarry lease over an extent of 3.00.0 Ha at S.F.No. 202/1 (Part-B) of	10075	The authority noted that the subject was appraised in the 392 <sup>nd</sup> SEAC meeting held on 14.07.2023. During the meeting, the Committee noted that the

  
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	Kondappanayanapalli Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. Shri Venkateshwara Blue Metals - For Terms of Reference.		<p>project proponent was absent and hence the subject was not taken up for discussion. Further, SEAC decided that the proponent shall furnish the reason for absence.</p> <p>In view of the above, the Authority decided to request Member Secretary, SEIAA to communicate the minutes of 392<sup>nd</sup> SEAC meeting to the project proponent.</p>
4.	Proposed Rough stone and Gravel quarry lease over an extent of 2.00.00Ha at SF.No. 363/4(P), 364/1(P) & 364/2 (P) of Kadambankulam Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Thiru. T. Sathyamoorthy - for Environmental Clearance.	10062	<p>The authority noted that this proposal was placed for appraisal in 392<sup>nd</sup> meeting of SEAC held on 14.07.2023. SEAC directed the PP to submit the following additional details:</p> <ol style="list-style-type: none"> <li>1. The PP shall furnish the letter obtained from the AD (Mines) stating that no quarrying has been commenced in the proposed quarry lease and the material dumped on the proposed quarry lease is the rejects received from the crusher unit.</li> <li>2. PP shall remove the crusher material on the proposed site and submit evidence for the same.</li> <li>3. The PP shall submit the details about the structures within 300 m as many structures are seen within 100m.</li> </ol> <p>In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 14.07.2023.</p>
5.	Proposed Construction of Residential Group Development at Old S.No. 77/6A1B1, 78/14A & 78/14B, T.S.No.33/2 of Block No: 21, Ward: G, Kamarajar Salai,	10069	<p>The Authority noted that the subject was appraised in the 392<sup>nd</sup> Meeting of SEAC held on 14.07.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of</p>

  
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<p>Pammal Village, Pallavaram Taluk, Chengalpattu District, Tamil Nadu by M/s. Radiance Realty Developers India Limited - For Environmental Clearance.</p>	<p>Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority decided to request the Member Secretary, SEIAA-TN to obtain the following details and place before the Authority for further course of action.</p> <ol style="list-style-type: none"> <li>1. The PP shall furnish approval letter from Municipality for supply of drinking water and absorb excess treated sewage with amount paid challan and acknowledgement from Municipality for receiving the money.</li> <li>2. The PP shall furnish details of children's play area.</li> <li>3. The PP shall furnish fire NOC.</li> <li>4. The PP shall furnish Airport NOC.</li> <li>5. The proponent shall furnish details on the NBC (National Building Code of India) norms adopted, with respect to the following to ensure environmental hygiene and safety standards: <ol style="list-style-type: none"> <li>a) Kitchen</li> <li>b) Bathrooms</li> <li>c) Basements</li> <li>d) Garages</li> <li>e) Stairways</li> <li>f) open ways</li> <li>g) fire safety &amp; safety against fire escape routes</li> <li>h) electric lines</li> <li>i) roof top safety</li> <li>j) car parking</li> <li>k) visibility in exit areas</li> </ol> </li> </ol>
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			<p>6. The proponent shall furnish details on the no. of fire alarms provided and the automatic fire detection standards followed.</p> <p>In view of the above, Authority decided to request the Member Secretary, SEIAA to communicate the minutes to the project proponent.</p>
6.	Proposed Rough Stone, Jelly and Gravel quarry lease area over an extent of 1.53.0 Ha at S.F.Nos. 129/1B3,1B4 & 130/1C,1D of Sengundrapuram Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Thiru. R. Nagendran - For Environmental Clearance.	10063	<p>The authority noted that the subject was appraised in 392<sup>nd</sup> SEAC meeting held on 14.07.2023. 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 restricted quantity of 69,800 m<sup>3</sup> of Rough Stone and 60,160 m<sup>3</sup> of Gravel with an ultimate depth of mining upto 23m 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</p>

  
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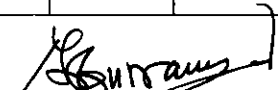
  
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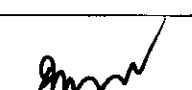
  
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			<p>Clearance is valid as per the approved mine plan period.</p> <ol style="list-style-type: none"> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They 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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7.	Expansion of Proposed construction of Residential Township at S.F.Nos. 89/1A1A, 3A2, 90/1A2, 1B, 2A, 2B2A1, 2B2A2, 2B2B, 91/1, 100/4,5,6,7, 105, 106/1A,1B, 2,3,4, 107/1, 110, 111/2B, 112/1, 2, 3, 4, 5, 6, 7, 113/3,4,5, 117/1A, 1B1, 1B2, 2, 3, 4, 123/1, 2, 124, 125/1A, 1B, 2A, 2B1, 2B2, 3, 127/1A, 1B, 2, 129/1, 2A, 2B, 3, 130/1, 2, 3, 4, 131, 132/1B1, 1B2, 1B3, 2A, 2B, 3A, 3B1, 3B2, 4, 133/1B1A, 1B1B, 145/1, 2, 3, 4, 146, 147/1A1, 1A2, 1B, 2A, 2B, 148/1, 2, 3, 4A, 4B, 5, 149, 150, 152/1, 2, 153/1A, 1B1, 1B2, 2, 154/1A, 1B, 2, 155/1, 2, 3, 172/1, 2, 173/1, 2A, 2B, 174/2, 3A, 3C, 175, 176/1, 2A, 2C, 3A, 3C, 4A, 4C, 5A, 5C, 177/1, 2A, 2C, 3, 178/1A, 1C, 2A, 2B1, 179, 180/1, 2A, 2B, 3A, 3C, 4A, 4C, 5A, 5B, 6, 181/1, 182/1, 2A, 183/1, 2, 3, 4, 5, 6A1, 184/1A1, 1A3, 3A, 185/1, 186, 187, 188, 189/1, 2A, 190/3A1, 196/5A, 198/1, 199/1A1, 1A3, 1B, 1C, 2, 3, 200, 201/1, 3, 202/1, 3, 203, 204, 205, 206/1, 2, 207/1, 2A, 2B, 208, 209/1, 2B, 211/2A, 2B, 212/1, 4, 213 of Padur Village, Tiruporur Taluk and S.F.Nos. 198/10, 199/5A1 & 5A2 of Pudupakkam Village, Vandalur	10070	<p>The authority noted that the subject was appraised in the 392<sup>nd</sup> SEAC meeting held on 14.07.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR)</b> for undertaking the Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC &amp; normal conditions in addition to the following conditions and the conditions mentioned in 'Annexure D' of this minutes.</p> <ul style="list-style-type: none"> <li>i) The proponent shall furnish details on the area provided for children's play area, gym, spa and health facilities.</li> <li>i) The proponent shall furnish details on the NBC (National Building Code of India) norms adopted, with respect to the following to ensure environmental hygiene and safety standards: <ul style="list-style-type: none"> <li>l) Kitchen</li> <li>m) Bathrooms</li> <li>n) Basements</li> <li>o) Garages</li> <li>p) Stairways</li> <li>q) open ways</li> <li>r) fire safety &amp; safety against fire escape routes</li> <li>s) electric lines</li> <li>t) roof top safety</li> <li>u) car parking</li> <li>v) visibility in exit areas</li> </ul> </li> <li>ii) The proponent shall furnish details on the no. of fire alarms provided and the</li> </ul>
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	Taluk, Chengalpattu District, Tamil Nadu by M/s. Pacifica Builders Pvt Ltd – For Terms of Reference		automatic fire detection standards followed.
8.	Existing Rough Stone quarry lease area over an extent of 1.00.0 Ha at S.F.No. 242/4 (Part) of Chennapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. M. Selvakumar - For Environmental Clearance.	10077	<p>The authority noted that this subject was placed for appraisal in 392<sup>nd</sup> meeting of SEAC held on 14.07.2023. Based on the presentation and details furnished by the project proponent, the Committee decided to call for the following details from the project proponent to consider the proposal for appraisal:</p> <ol style="list-style-type: none"> <li>1. The project proponent shall submit a Certified Compliance Report as per the MoEF&amp;CC O.M dated.08.06.2022 for the previous EC dated.27.08.2018.</li> <li>2. The proponent shall furnish details on whether the conditions imposed by the competent authority in the lease proceedings were complied.</li> <li>3. The proponent shall furnish a revised and approved scheme of mining plan for the development &amp; production activities in the proposed quarrying operations during the next five years.</li> <li>4. The PP shall furnish the letter of permission obtained from the office of the Director of Mines Safety, Chennai Region for having carried out the mining operations within 7.5 m of the <b>common boundary</b> to be maintained with the adjacent mines under Regulation 111 (3) of MMR, 1961 after the lease execution <b>(OR)</b> the letter of permission obtained from the office of the Director of Mines Safety, Chennai</li> </ol>

  
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			<p>Region for having carried out the <b>amalgamation</b> of the adjacent quarries under Regulation 111 (1) of MMR 1961.</p> <p>5. The PP shall obtain the letter from the concerned AD (Mines) after a field investigation to spell out the following information:</p> <ol style="list-style-type: none"> <li>i. Existing pit dimension through precise mine surveying (DGPS)</li> <li>ii. Quantity achieved Vs EC Approved Quantity</li> <li>iii. Balance Quantity as per Mineable Reserve calculated.</li> <li>iv. Mined out Depth as on date Vs EC Permitted depth</li> <li>v. Details of illegal/illicit mining carried out in the proposed quarry site.</li> <li>vi. Violation in the quarry during the past working.</li> <li>vii. Quantity of material mined out outside the mine lease area &amp; working in the adjacent quarry lease lapsed in 2017.</li> <li>viii. Condition of Safety zone/benches</li> <li>ix. Approval extended to the Quantity of common boundary extraction / Quantity of extraction carried out after the amalgamation done with prior approval of DGMS by the PP.</li> </ol> <p>6. The PP shall submit the stability status of the existing quarry wall and slope stability action plan by carrying out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by</p>
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			<p>involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining &amp; Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus.</p> <p>On receipt of the same, further deliberations will be done.</p> <p>In view of the above, the Authority decided to request Member Secretary, SEIAA to communicate the minutes of 392<sup>nd</sup> SEAC meeting to the project proponent.</p>
9.	Proposed Gravel Quarry over an extent of 3.55.0Ha SF.No.248/2, 248/3 and 250/5 of Sembanur Village, Karaikudi Taluk, Sivagangai District by Thiru. S. Subramanian - For Environmental Clearance.	10057	<p>The authority noted that the subject was appraised in 392<sup>nd</sup> meeting of SEAC held on 14.07.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority noted that the proposed mining area is surrounded farm lands. Hence, the authority decided to defer and seek additional particulars as follows</p> <ol style="list-style-type: none"> <li>1. The PP shall submit NOC from Agricultural department that the proposed mining lease area is not fit for agriculture purpose and NOC for Local panchayat.</li> <li>2. The PP shall furnish details of impacts and mitigation measures on agricultural fields, drainage pattern, water table around the proposed mining area.</li> </ol>

  
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			<p>3. The PP shall furnish details of quantity of topsoil and details of utilisation of the same within proposed mining area.</p> <p>Hence, the proponent is advice to submit the additional documents / information as sought above within a period of 30 days failing which your proposal will automatically delisted from the PARIVESH portal.</p>
10.	Existing Rough Stone and Gravel Quarry over an extent of 4.95.0Ha SF.No.119/2 (P), 322 & 323 (P) of Kanuvakarai Village, Annur Taluk, Coimbatore District by Mr.S.K.Yoganathan - For Environmental Clearance.	10064	<p>The authority noted that the subject was appraised in 392<sup>nd</sup> meeting of SEAC held on 14.07.2023. 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 grant Environmental Clearance for the quantity <b>512412 cu.m of Rough Stone &amp; 117975cu.m of Gravel and the restricted depth of mining upto 20m ( 10m AGL &amp; 10mBGL)</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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			<p>7. The project proponent shall store/dump Topsoil 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 Rs. 272.92 Lakhs / 5 Years 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.7.30 Lakhs including cost of toilet cleaning and maintenance for 5 Years Rs.4 Lakhs and the amount shall be spent for the Panchayat Union Middle School, Kanuvakkarai Village before obtaining CTO from TNPCB.</p>
11.	Proposed Rough Stone Quarry over an extent 1.50.0 Ha at S.F.Nos.381 (Part-2) of Gopannahalli Village, Hosur Taluk, Krishnagiri District and Tamil Nadu by Thiru. C Dhivakar- For Terms of Reference.	10071	<p>The authority noted that the subject was appraised in 392<sup>nd</sup> meeting of SEAC held on 14.07.2023. SEAC has furnished its recommendations for granting <b>Terms of Reference (ToR) along with Public Hearing</b> subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) along with Public Hearing</b> under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC &amp; normal conditions in addition to the conditions in '<b>Annexure B</b>' of this minute.</p>

  
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			<p>1. The project proponent shall prepare mine closure plan considering quantity of Topsoil &amp; Weathered rock. If any.</p> <p>2. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.</p>
12.	Proposed Rough Stone Quarry over an extent of 3.00.0Ha (Government Poramboke Land) SF.No.652 (Part) of Mallapadi Village, Bargur Taluk, Krishnagiri District by Thiru. S. Janarthanan - For Environmental Clearance.	10078	<p>The authority noted that the subject was appraised in 392<sup>nd</sup> meeting of SEAC held on 14.07.2023 and SEAC directed the PP to provide the additional particulars as stated therein. On receipt of the same, further deliberations will be done.</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 14.07.2023.</p> <p>Hence, the proponent is advice to submit the additional documents / information as sought above within a period of 30 days failing which your proposal will automatically delisted from the PARIVESH portal.</p>
13.	Proposed Rough Stone Quarry over an extent of 1.33.5Ha at S.F. No: 327/3 of Gopanapalli Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by M/s. Victory Rocks-For Terms of Reference.	10058	<p>The Authority noted that the subject was appraised in the 392<sup>nd</sup> Meeting of SEAC held on 14.07.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) along with Public Hearing</b> under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC &amp; normal conditions and</p>

  
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			conditions in <b>Annexure 'B'</b> of this minutes in addition to the following conditions.
14.	Proposed Rough Stone and Gravel Quarry over an extent of 1.28.50 Ha at S.F. No: 150/2C, 150/2D & 150/2F of Olagalampoondi Village, Vikravandi Taluk, Villupuram District, Tamil Nadu by Tmt. V. Sasikala -For Environmental Clearance.	10065	<p>The Authority noted that the subject was appraised in the 392<sup>nd</sup> Meeting of SEAC held on 14.07.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain following details from the PP.</p> <ol style="list-style-type: none"> <li>1. During the presentation, SEAC noted that from the KML file uploaded by the proponent in PARIVESH portal, it is construed that the proposed site has been quarried up to a depth of 2m to 3m. Further, the precise area communication letter and mine plan approval letter have not mentioned about the quarrying activity carried out. Hence, the PP shall furnish the details regarding the existing pits operated earlier which shall be duly certified by the concerned AD (Mines).</li> <li>2. A letter from AD mines reporting the current environmental conditions of the project site and details/status/work carried out during earlier period. AD mines shall also clarify whether the proposal comes under violation category or not.</li> <li>3. The Project Proponent shall submit the revised mining plan duly approved by the concerned AD (Mines), incorporating the 'Production &amp; Development Plan' by drawing the plan and sections legitimately fulfilling the provisions of Reg. 60 of MMR 1961.</li> </ol>

  
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			<p>4. Besides, the PP shall enumerate the structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds, etc.</p> <p>On receipt of the above details, the SEAC would further deliberate on this project and decide the further course of action.</p> <p>Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.</p> <p>In view of the above, the Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 14.07.2023.</p>
15.	Proposed Rough Stone and Gravel Quarry over an extent of 1.62.17 Ha at S.F. No: 84/2C1, 2D1, 2E1, 2C2, 2D2A, 2E2, 2J, 2K & 2L of Kallanai Village, Kalligudi Taluk, Madurai District, Tamil Nadu by Thiru. S. Rathinam -For Terms of Reference.	10072	<p>The Authority noted that the subject was appraised in the 392<sup>nd</sup> Meeting of SEAC held on 14.07.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) along with Public Hearing</b> under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC &amp; normal conditions and conditions in <b>Annexure 'B'</b> of this minutes in addition to the following conditions.</p>
16.	Proposed Red Earth & Pebbles Quarry over an extent of 2.49.0 Ha	10079	<p>The Authority noted that the subject was appraised in the 392<sup>nd</sup> Meeting of SEAC held on 14.07.2023.</p>

  
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at S.F. No'S : 23/2, 23/3, 34/12A, 34/12B, 35/16B & 35/17 of Vannampattu Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu by Thiru.K.Ravichandran - For Environmental Clearance.

SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.

**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 13147m<sup>3</sup> of Red Earth & 13147m<sup>3</sup> of Pebbles by restricting the depth of mining upto 2m Below Ground Level as per the mine plan approved by the 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 2 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.

  
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			<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.	Existing Rough stone lease over an extent of 4.00.0 Ha (Government Porampoke Land) at S.F.Nos.629 (Part), Nagamangalam Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Thiru. K. Madhusudhanan, – Provision of Terms of Reference	10059	<p>The Authority noted that the subject was placed in the 392<sup>nd</sup> meeting of SEAC held on 14.07.2023 and the SEAC has furnished its recommendation for the grant of Terms of Reference for the EIA study with Public Hearing subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to <b>grant Terms of Reference (ToR) along with Public Hearing</b> under cluster for undertaking the combined Environment Impact Assessment Study</p>

  
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			<p>and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC &amp; normal conditions in addition to the conditions in 'Annexure B' of this minute.</p> <ol style="list-style-type: none"> <li>1. The project proponent shall prepare mine closure plan considering quantity of Topsoil &amp; Weathered rock. If any.</li> <li>2. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.</li> </ol>
18.	Existing Rough stone lease over an extent of 4.40.0 Ha at S.F.Nos. 63 (Part-B) Bargur Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Thiru. N. Arumugam- Provision of Terms of Reference	10066	<p>The Authority noted that the subject was placed in the 392<sup>nd</sup> meeting of SEAC held on 14.07.2023 and the Committee has decided to seek the following additional details/documents from the Project Proponent:</p> <ol style="list-style-type: none"> <li>i) The Assistant Director, PWD, Ground Water Division, Dharmapuri, shall inspect the quarry site and offer their remarks on (1) whether the quarrying activities abutting the aforesaid water course/River stream/check dam are carried out in by the PP, (2) whether the PP has encroached the water course or any poramboke land other than the leased area and (3) whether the PP is illegally diverting water from river stream/check dam to his site to benefit his mining operations/crusher.</li> <li>ii) As per Metalliferous Mines Regulation 1961, under Chapter XI, 106 (2) (a) <p style="text-align: center;"><i>"..... the face shall be benched and the sides shall be sloped at an angle</i></p> </li> </ol>

  
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			<p><i>of not more than 60 degrees from the horizontal. The height of any bench shall not exceed six meters and the breadth thereof shall not be less than the height. ....”</i></p> <p>Hence, the proponent shall revise the Mining Plan with bench height and width as per the Metalliferous Mines Regulation 1961 and a revised mining plan/scheme of mining approved by the concerned Assistant Director of Dept. of Geology &amp; Mining shall be submitted with a bench geometry of not less than 6m height × 6m width.</p> <p>iii) For the existing quarry, the concerned AD (Mines) shall inspect the quarry site and he shall authentically provide the following information with necessary evidence and photographs:</p> <ol style="list-style-type: none"> <li>1) Original pit dimension of the existing quarry.</li> <li>2) Quantity achieved Vs EC Approved Quantity.</li> <li>3) Balance Quantity as per Mineable Reserve calculated.</li> <li>4) Mined out Depth as on date Vs EC Permitted depth.</li> <li>5) Details of illegal/illicit mining carried out, if any.</li> <li>6) Violation in the quarry during the past working.</li> </ol>
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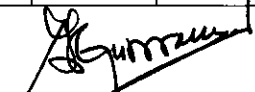
  
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			<p>7) Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.</p> <p>8) Existing condition of Safety zone/benches.</p> <p>iv) The AD (Mines) shall provide the details of payment of compensation under Section 21(5) of the MMDR Act for allegedly operating (or) any penalties levied on the PP for any violation caused in the quarry operation under the Common Cause judgment.</p> <p>v) The PP shall submit Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF &amp; CC, Chennai and appropriate mitigating measures for the non-compliance items, if any.</p> <p>vi) The concerned DEE/TNPCB shall inspect the quarry site to give a detailed report on the functioning of the crusher unit located adjacent to the quarry which impacting the water body and also whether the water was extracted from the canal for the crushing &amp; cleaning of the stones in the crusher.</p> <p>2. The PP shall provide the explanation for not adhering to the conditions imposed in the earlier EC, Approved Mining Plan and the Lease deed executed.</p> <p>On receipt of the details sought above, the SEAC will further deliberate and decide on future course of action. The Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your</p>
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		proposal will automatically get delisted from the PARIVRESH portal. The Authority decided to request the Member Secretary, SEIAA TN to communicate the aforesaid SEAC minutes to the Proponent.
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19.

File No: 10073

Proposed Lateritic soil lease over an extent of 1.58.0 Ha at S.F.No.31/3, 32/1, & 33/2 in Kondalangkuppam Village, Vanur Taluk, Vilupuram District, Tamil Nadu by Thiru.M.Rajesh,- For Environmental Clearance.

The Authority noted that the subject was placed in the 392<sup>nd</sup> meeting of SEAC held on 14.07.2023 and the SEAC has decided to seek the following additional details/documents from the Project Proponent:

- a. The Modified Mining Plan duly approved by the Competent Authority for the quantity demarcated in the restricted mine lease area of extent covering 1.22 Ha in the S.F. No. 31/3, 32/1.
- b. The Soil composition report obtained from anyone of these approved Laboratories in the prescribed format shall be furnished in accordance with the directions issued by the Director of Geology and Mining Lr. No. 7240/MM6/2019, dated. 30.07.2021.

Sl. No	Name of the Laboratory
1.	Department of Civil Engineering, Division of Soil mechanics and foundation Engineering, Anna University, Guindy, Chennai -25.
2.	Department of Civil Engineering, National Institute of Technology, Trichy-620015.
3.	Govt College of Engineering, Karuppur, Salem – 636011.

On receipt of the details sought above, the SEAC will further deliberate and decide on future course of action. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.

The Authority decided to request the Member Secretary, SEIAA TN to communicate the aforesaid SEAC minutes to the Proponent.

  
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20.	Proposed Colour Granite quarry lease area over an extent of Extent 2.55.69 Ha at S. F. No. 219/1, 219/4, 219/6 & 219/7A of Kunnathur Village, Uthangarai Taluk, Krishnagiri District, Tamil Nadu by Thiru. S.L. Govindaraj - For Environmental Clearance.	10060	<p>The authority noted that the subject was appraised in 392<sup>nd</sup> SEAC meeting held on 14.07.2023.</p> <p>Based on the presentation and documents furnished by the proponent, SEAC decided to call for the following additional details.</p> <ol style="list-style-type: none"> <li>1. The PP shall submit Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF &amp; CC, Chennai and appropriate mitigating measures for the non-compliance items, if any.</li> <li>2. For the existing quarry, the concerned AD (Mines) shall inspect the quarry site and he shall authentically provide the following information with necessary evidences and photographs: <ol style="list-style-type: none"> <li>a) Original pit dimension of the existing quarry</li> <li>b) Quantity achieved Vs EC Approved Quantity</li> <li>c) Balance Quantity as per Mineable Reserve calculated.</li> <li>d) Mined out Depth as on date Vs EC Permitted depth</li> <li>e) Details of illegal/illicit mining carried out, if any</li> <li>f) Violation in the quarry during the past working.</li> <li>g) Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.</li> <li>h) Existing condition of Safety zone/benches</li> </ol> </li> <li>3. The AD (Mines) shall provide the details of</li> </ol>
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			<p>payment of compensation under Section 21(5) of the MMDR Act for allegedly operating (or) any penalties levied on the PP for any violation caused in the quarry operation under the Common Cause judgment.</p> <p>4. The proponent shall complete fencing and submit photographic/videographic evidence.</p> <p>On receipt of the details sought above, the SEAC will further deliberate and decide on future course of action.</p> <p>The proponent is advised to submit the additional documents/ information as sought above within a period of 30 days failing which your proposal will automatically get delisted from the PARIVESH portal.</p> <p>In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary to communicate the minutes of 392<sup>nd</sup> SEAC held on 14.07.2023 to the project proponent.</p>
21.	Proposed Rough stone & Gravel quarry lease area over an extent of Extent 2.15.00 Ha at S. F. No. 2/5, 2/8, 3/1 & 3/2 of Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Tmt. R. Boopathi - For Terms of Reference.	10067	<p>The authority noted that the subject was appraised in 392<sup>nd</sup> SEAC meeting held on 14.07.2023.</p> <p>During the presentation, it was found that the proponent was absent for the meeting. Hence, the subject was not taken up for appraisal.</p> <p>In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary to communicate the minutes of 392<sup>nd</sup> SEAC held on 14.07.2023 to the project proponent.</p>
22.	Proposed construction of Tuna Fishing Harbour with net fish handling capacity of 69,000TPA at S.F.No. 7/4, 39, 40, 41, 42 & 49,	6440	<p>The authority noted that this subject was placed for appraisal in 392<sup>nd</sup> meeting of SEAC held on 14.07.2023. During the meeting, the representatives from TN Fisheries Department and</p>

  
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	<p>Thiruvottiyur Kuppam Village, Ennore Taluk, Thiruvallur District, Tamil Nadu by Department of Fisheries, Government of Tamil Nadu, Fishing Harbour Project Division – For amendment in Environmental Clearance.</p>		<p>Annamalai University gave a detailed presentation. Based on the deliberations and documents furnished, SEAC noted that Hon'ble NGT vide order dated.28.07.2022 has stated that</p> <p><i>"...A detailed marine biodiversity management plan prepared through NIOT or any other institute of repute on marine, brackish water and freshwater ecologically and biodiversity and must be submitted to and implemented to the satisfaction of the State Biodiversity Board and the CRZ authority...."</i></p> <p>This is also part of the recommendation made by SEAC earlier. Hence, the SEAC decided that the Biodiversity Management Plan (BMP) prepared shall be presented before the State Biodiversity Board, obtain their remarks, revise the BMP and submit the details to SEAC for further consideration.</p> <p>In view of the above, the Authority decided to request Member Secretary, SEIAA to communicate the minutes of 392<sup>nd</sup> SEAC meeting to the project proponent.</p>
23.	<p>Existing Limestone mine lease over an extent of 1.70.0 Ha at S.F.No. 693/1,2,3,4 &amp; 7, Sirugudi Village, Natham Taluk, Dindigul District, Tamil Nadu by M/s. Sivam Mines – for Environmental Clearance under violation</p>	6251	<p>The authority noted that the subject was appraised in 392<sup>nd</sup> SEAC meeting held on 14.07.2023. SEAC has furnished its recommendations to the Authority for granting Environmental Clearance under violation category to the Project subject to the conditions stated therein.</p> <p>After detailed discussion, the Authority decided to request the Member Secretary, SEIAA to inform the proponent to furnish the following particulars as recommended by SEAC in the Minutes of 392<sup>nd</sup> SEIAA meeting held on 14.07.2023.</p>

  
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			<ol style="list-style-type: none"> <li>1. The proponent shall submit the 'No Mining Dues Certificate' obtained from the competent authority.</li> <li>2. The proponent shall furnish the details of Bank guarantee remittance towards the amount prescribed for Ecological remediation (Rs. 5.00 Lakhs), natural resource augmentation (Rs. 3.00 lakhs) &amp; community resource augmentation (Rs. 3.10 Lakhs), totaling <b>Rs. 11.10 Lakhs</b> to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN.</li> <li>3. The amount committed by the Project proponent for CER (<b>Rs. 1.00 lakhs</b>) shall be remitted in the form of DD to the beneficiary for the activities as committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.</li> <li>4. The project proponent shall submit the proof for the action taken by the State Government/TNPCB against the project proponent under the provisions of Section 19 of the Environment (Protection) Act 1986 as per the EIA notification dated 14.03.2017 and amended 08.03.2018.</li> </ol>
24.	Existing Lime stone Mine Lease over an extent of 0.94.5Ha at S.F.No.630/1A, 1B, 2, 631/10 & 631/11 of Sirungudi Village, Natham Taluk, Dindigul District, Tamil Nadu by M/s. Sivam Mines Represented by Thiru. S. Ilangovan	6252	<p>The authority noted that the subject was appraised in 392<sup>nd</sup> meeting of SEAC held on 14.07.2023 and SEAC has furnished its recommendations for granting Environmental Clearance under violation subject to the conditions stated therein.</p> <p>In view of the above, the authority decided to defer the proposal and to seek following details</p>

  
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<p>(Managing Partner) – For Environmental Clearance under Violation</p>	<p>a) The amount prescribed for Ecological remediation (Rs. 5.00 Lakhs), natural resource augmentation (Rs. 2.50 lakhs) &amp; community resource augmentation (Rs. 2.76 Lakhs), totaling <b>Rs. 10.26 Lakhs</b>. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 10.26 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan &amp; Community resource augmentation plan as indicated in the EIA/EMP report.</p> <p>b) The amount committed by the Project proponent for CER activities for the violation period (<b>Rs. 1.00 lakhs</b>) shall be remitted in the form of DD to the beneficiary for the activities as committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN before grant of the EC.</p> <p>c) The project proponent shall submit the proof for the action taken by the State Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.</p> <p>d) The project proponent shall submit the receipt of penalty remitted to Dept. of Geology &amp; Mining. If any in regard to M/s. Sivam Mines vide Rc. No. 618/2019(Mines) dated</p>
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			06.08.2019 for 8,11,200/-for Limestone quantity of 4,600 Tonnes produced without EC.
25.	<p>Proposal seeking Terms of Reference for the Proposed expansion of Secondary Metallurgical Processing Industry at S.F No. 77/1C, 78/1A, 79/1B, 85/1, 85/1A, 85/2, 85/3, 85/4, 85/5, 86, 88/1, 88/2, 88/3, 89/1, 89/2, 89/3, 89/4, 89/5, 89/6, 89/7, 89/8, 89/9, 89/10A, 89/10B, 89/10C, 90/1, 90/2, 90/3A, 92/1, 92/1, 92/9, 94/1, 95/1, 95/2, 95/3, 95/5, 95/5, 95/6, 96/1, 96/3, 96/4, 98/1, 98/14 at Maravankulam Village, 84/12 (84/12A1), 86/1A., 86/1B, 86/2A, 86/2B, 86/3A, 86/3B, 86/4A, 86/4B, 86/5A, 86/5B, 86/6A, 86/6B, 86/7A, 86/7B, 86/8, 94/1A, 94/1B, 94/1C, 94/1D1, 94/1D2, 94/1D3, 94/1E1, 94/1E2, 94/1E2, 94/2A, 94/2B, 94/4A, 94/4B1, 94/4B2, 94/4B3, 94/4B4, 94/4C, 94/4D1, 94/4D2, 94/4D3, 94/4D4, 95/1, 95/2, 95/3, 95/4, 96/1A, 96/1B, 96/2, 97/1A1,1A2, 97/1B1, 97/1B2, 97/2B2, 97/2B3, 97/3, 97/4, 97/4, 97/5A, 97/5B, 97/6, 97/7A, 97/7B, 97/7B, 97/7C, 98/1, 98/2A, 98/2B, 98/3A1, 98/6, 98/7A, 98/7B, 99/1C, 105/1A, 105/2A, 97/2A, 97/2B1, 97/4A,</p>	6149	<p>The Authority noted that the subject was earlier placed in the 555<sup>th</sup> meeting of Authority held on 27.09.2022 and it was minuted that, The Authority decided to seek the following additional particulars from the Proponent:</p> <ol style="list-style-type: none"> <li>1. Certified compliance report of the recent Consent order issued by TNPCB.</li> <li>2. Details of powder size of all the products along with unit.</li> <li>3. Source of raw materials, quantity and mode of transport, measures taken to contain air emissions during transport of the raw materials.</li> </ol> <p>Now the Project Proponent vide letter dated 17.07.2023 has requested SEIAA to write to TNPCB seeking CCR of the recent consent order, informing that TNPCB has sought letter from SEIAA in this regard. The Authority decided that the PP shall submit the copy of Authority minutes dated 27.09.2022 to TNPCB and obtain the CCR from TNPCB.</p>

  
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	98/3A2 at Kappalur Village, Tirumangalam Taluk, Madurai District Tamil Nadu by M/s. The Metal Powder Company Limited		
26.	Proposed Rough stone & Gravel quarry lease over an extent of 2.45.0 Ha in S.F.No: 96/4, 98/1, 98/2, & 98/3, Kannagudi Village, Kulathur Taluk Pudukkottai District, Tamil Nadu by Thiru. TMR. Rajha Sivakumar - For Environmental Clearance.	9180	<p>The Authority noted that the subject was earlier placed in the 602<sup>nd</sup> meeting of Authority held on 14.03.2023 and it was minuted that,</p> <ul style="list-style-type: none"> <li>This is an existing quarry operated by the same Project Proponent. Whereas the depth of the existing pits mentioned in the mining plan approval is more than the depth permitted in the Environmental Clearance Lr. No. SEIAA-TN/F.No.3128/EC.1(a)/2978/2016 dated 19.01.2016 issued for this project. Hence the Project Proponent shall obtain and furnish clarification letter from the AD/Mines of the concerned District in this regard.</li> </ul> <p>The Project Proponent vide letter dated Nil received on 25.07.2023 has furnished the copy of AD/mines letter No. 317/2021(G&amp;M) dated 21.07.2023 wherein it is stated that,</p> <p>The subject land was previously held under lease in favour of Thiru.TMR.Rajha Sivakumar, S/o.R.Ramanujam for a period of five years from 21.06.2016 to 20.06.2021 vide District Collector's proceedings Rc.No.1498/2012 (G&amp;M) dt.09.10.2014. Further, the project proponent Thiru.TMR.Rajha Sivakumar, S/o. R. Ramanujam has removed Rough stone over an extent of 0.11.22 hecets., to the depth of 2m beyond the approved depth of 18m. In</p>

  
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			<p>this connection, an amount of Rs.1,32,396/- (Rupees One Lakh Thirty-Two Thousand Three Hundred and Ninety-Six Only) collected and the copy of remitted challan is enclosed herewith. In the view of the above, it is recommended for grant of Environment Clearance in favour of the project proponent for the quarrying of rough stone in S.F.Nos.96/4(1.74.0), 98/1(0.11.5), 98/2 (0.48.0) &amp; 98/3 (0.11.5) of Kannagudi Village, Kulathur Taluk, Pudukkottai District.</p> <p>In view of the above, the Authority decided to refer back the proposal to SEAC along with the AD/Mines letter.</p>
27.	<p>Proposed Lime Kankar Quarry over an extent of 3.61.0 at Survey Nos. 56/1A1, 56/1A3, 56/1B2, 56/1B3, 56/4, 56/5, 57/2B1, 57/2B2, 57/2B3, 57/2B4, 57/2B5, 57/2B6, 57/2B7 and 57/2B8 of Pudupalayam village, Ariyalur Taluk, Ariyalur District, Tamil Nadu – M/s. Chettinad Cement Corporation Private Limited– for Environmental Clearance Amendment.</p>	6883	<p>The Authority noted the following,</p> <ol style="list-style-type: none"> <li>1. Earlier, EC was accorded to the proponent, M/s. <b>CHETTINAD CEMENT CORPORATION LIMITED</b> vide Lr.no.SEIAA-TN/F.No.6883/EC/1(a)/5709/2019 dated.21.04.2023 for the Existing Lime Kankar Quarry over an extent of 3.61.0Ha at S.F.No 56/1A1, 56/1A3, 56/1B2, 56/1B3, 56/4, 56/5, 57/2B1, 57/2B2, 57/2B3, 57/2B4, 57/2B5, 57/2B6, 57/2B7 &amp; 57/2B8 of Pudupalayam village, Ariyalur Taluk &amp; District, Tamil Nadu.</li> <li>2. Subsequently, M/s. <b>CHETTINAD CEMENT CORPORATION LIMITED</b> has requested this office vide tapal no 0877 dated:28-06-2023 to issue corrigendum in</li> </ol>

  
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EC Cover page in the earlier Environmental Clearance issued by changing Company name from **CHETTINAD CEMENT CORPORATION LIMITED** to **CHETTINAD CEMENT CORPORATION PRIVATE LIMITED**.

3. The supporting documents such as certificate of incorporation, Memorandum of association, Article of association for company name in "**CHETTINAD CEMENT CORPORATION PRIVATE LIMITED**" are submitted by the PP.

4. As per the directions issued by MOEF&CC through O.M regarding corrigendum to EC letter for the correction of factual information in system generated EC cover page Dated on 17-01-2023 mentioned "*As part of phase-wise integration, EC application forms are being submitted on the new platform whereas processing of application is continuing on existing PARIVESH by fetching the information through API based services. Instances have been brought to the notice of the Ministry wherein some factual errors may be observed in the system generated EC cover page.*

*The aforementioned issue has been examined in the Ministry in consultation with NIC. In order to address the issue on regular basis in a smooth manner, it has been decided that all Member Secretaries*

  
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*handling the Environmental Clearance (EC) proposals shall issue Corrigendum to such cases of discrepancy in factual details on EC cover page, without seeking any separate corrigendum application from the Project Proponent.*

*Corrigendum mentioned in the preceding para shall be issued with the prior approval of the Divisional Head in the Ministry and Chairman, SEIAA, as the case may be”.*

In view of the above, the Authority decided to request the Member Secretary, SEIAA-TN to forward the request to MoEF&CC to consider the corrigendum in the system generated EC Cover page in the earlier Environmental Clearance issued.

28.

File No: 9850

Proposed Rough Stone & Gravel quarry over an extent of 2.98.0 Ha in SF.No. 375/2 (P) at Akkalampatty Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu by M/s. Maharaja Blue Metals - For Environmental Clearance Amendment.

The PP has obtained EC vide Lr.No.SEIAA-TN/F.No.9850/2023 EC.No.5790/2023 dated 26.05.2023. Now the PP has requested for change in Name of the Managing Partner in affidavit and 500m radius proposed quarry. After detailed deliberation, the Authority decided to and issue the following amendment to the Environmental clearance issued vide Lr.No.SEIAA-TN/F.No.9850/2023 EC.No.5790/2023 dated 26.05.2023 subject to the conditions mentioned below.

S.No	Description	As per EC issued dated	Amendment issued
		26.05.2023	

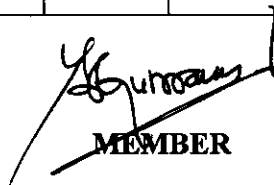
  
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1.	Page No.6 of 36	Page 6 – In Proposed Quarry at point No.1 - Name and address of the lessee column, Tvl. Maharaja Blue Metals, Managing Partner: Sundarraju Kottampatty, Akkalampatty (Po), Trichengodu (Tk), Namakkal (Dt)	In Page 6 – In Proposed Quarry at point No.1 - Name and address of the lessee column, May be read as, Tvl. Maharaja Blue Metals, Managing Partner: P.S.K.Arun Kottampatty, Akkalampatty (Po), Trichengodu (Tk), Namakkal (Dt)
2.	Page No.8 of 36	Page 8 – In Proposed Quarry at point No.1 - Name and address of the lessee column, Tvl. Maharaja Blue Metals, Managing Partner: Sundarraju Kottampatty, Akkalampatty (Po), Trichengodu (Tk), Namakkal (Dt)	In Page 8 – In Proposed Quarry at point No.1 - Name and address of the lessee column, May be read as, Tvl. Maharaja Blue Metals, Managing Partner: P.S.K.Arun Kottampatty, Akkalampatty (Po), Trichengodu (Tk), Namakkal (Dt)
<p>Conditions:</p> <p>1. All other conditions and validity mentioned in the EC dated 26.05.2023 will remain unchanged and unaltered.</p>			
29.	Proposed construction commercial building Project at Old S.No. 520pt, 521/1pt and 524pt, T.S.No.3 part, Block No. 67, Ward B, Ambattur Village, Ambattur Taluk, Chennai District, Tamilnadu by M/s. Casagrand Magick Ruffy Private Limited. - For Environmental Clearance	9923	<p>Earlier, the proposal was placed in the 635<sup>th</sup> Authority meeting held on 05.07.2023. The authority noted that this proposal was placed for appraisal in 385<sup>th</sup> meeting of SEAC held on 22.06.2023. SEAC has furnished its recommendations to the Authority for granting Environmental Clearance to the Project subject to the conditions stated therein.</p> <p>After detailed discussion, Authority decided to defer and the PP shall furnish the following additional particulars</p>

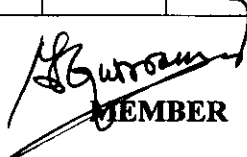
  
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		<ol style="list-style-type: none"> <li>1. Details of excavated quantity of soil for the double basement along with details of dimension of double basement.</li> <li>2. Anticipated impact on biological loss, Health, Ground water table, nearby Surface water.</li> <li>3. Details of flood inundation regard to nearby waterbodies.</li> <li>4. Proposed double basement would generate fungus and moulds. Hence, the PP shall provide details of mitigation measures for humidity and vehicular smoke.</li> </ol> <p>The proponent vide letter dated 21.07.2023 gave reply to the above details sought by SEIAA. In view of this, it was again placed in this 642<sup>nd</sup> SEIAA meeting held on 31.07.2023.</p> <p>The authority, taking into account the reply furnished by the proponent and the recommendations of SEAC, decided to grant Environmental Clearance to the proposal subject to the conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'C' of this minutes.</p> <ol style="list-style-type: none"> <li>i) The proponent shall submit a commitment letter obtained from the competent authority towards supply of water and disposal of sewage water before obtaining CTE from TNPCB.</li> <li>ii) The proponent shall use energy efficient appliances.</li> <li>iii) The proponent shall ensure that the building is inundation free to prevent pluvial flooding into the building.</li> </ol>
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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 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.

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

**Water Environment – Protection and mitigation measures**

9. The proponent shall ensure that the activity does not disturb the water bodies and natural flow of surface and groundwater, nor cause any pollution, to water sources in the area.
10. The proponent shall ensure that the activities do not impact the water bodies/wells in the neighboring open wells and bore wells. The proponent shall ensure that the activities do not in any way affect the water quantity and quality in the open wells and bore wells in the vicinity or impact the water table and levels. The proponent shall ensure that the activities do not disturb the river flow, nor affect the Odai, Water bodies, Dams in the vicinity.
11. Water level in the nearest dug well in the downstream side of the quarry should be monitored regularly and included in the Compliance Report.
12. Quality of water discharged from the quarry should be monitored regularly as per the norms of State Pollution Control Board and included in the Compliance Report.
13. Rain Water Harvesting facility should be installed as per the prevailing provisions of TNMBR/TNCDBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
14. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the compliance reports to SEIAA.
15. Regular monitoring of ground water level and water quality shall be carried out around the mine area during mining operation. At any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.

  
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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.
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

  
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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.
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**

  
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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.
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.

  
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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 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

  
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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.

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

  
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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 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

  
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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 to taken to aesthetically improve the mine site. Generally, there are two approaches to restoration i.e Ecological approach which allows tolerant species to establish following the succession process allowing pioneer species to establish. The other approach i.e plantation approach is with selected native species are planted. A blend of both methods may be used to restore the site by adding soil humus and mycorrhiza.
75. Action taken for restoration of the site should be specifically mentioned in the EC compliances.

#### Annexure 'B'

#### Cluster Management Committee

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

  
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10. The committee shall furnish an action plan to achieve sustainable development goals with reference to water, sanitation & safety.

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

**Impact study of mining**

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

- a) Soil health & soil biological, physical land chemical features .
- b) Climate change leading to Droughts, Floods etc.
- c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
- d) Possibilities of water contamination and impact on aquatic ecosystem health.
- e) Agriculture, Forestry & Traditional practices.
- f) Hydrothermal/Geothermal effect due to destruction in the Environment.
- g) Bio-geochemical processes and its foot prints including environmental stress.
- h) Sediment geochemistry in the surface streams.

**Agriculture & Agro-Biodiversity**

13. Impact on surrounding agricultural fields around the proposed mining Area.

14. Impact on soil flora & vegetation around the project site.

15. Details of type of vegetations including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetations all along the boundary of the proposed mining area shall committed mentioned in EMP.

16. The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.

17. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.

18. The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.

**Forests**

19. The project proponent shall detailed study on impact of mining on Reserve forests free ranging wildlife.

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

**Water Environment**

23. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the entire mine lease period.
24. Erosion Control measures.
25. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas.
26. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.
27. The project proponent shall study and furnish the details on potential fragmentation impact on natural environment, by the activities.
28. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts.
29. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.
30. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.

**Energy**

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

**Climate Change**

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

#### **Mine Closure Plan**

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

#### **EMP**

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

#### **Risk Assessment**

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


#### **Disaster Management Plan**

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

#### **Others**

39. The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc.
40. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan.
41. The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the environment. The ecological risks and impacts of plastic & microplastics

  
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on aquatic environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.

### Annexure 'C'

#### Climate Change

1. The proponent shall adopt strategies to decarbonize the building.
2. The proponent shall adopt strategies to reduce emissions during operation (operational phase and building materials).
3. The proponent shall adopt strategies to reduce temperature including the Building Façade.
4. The proponent shall adopt methodology to control thermal environment and other shocks in the building.
5. The proponent shall adopt detailed plan to reduce carbon footprints and also develop strategies for climate proofing and climate mitigation.
6. The proponent shall adopt strategies to ensure the buildings in blocks are not trapping heat to become local urban heat islands.
7. The proponent shall ensure that the building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues.
8. The activities should in no way cause emission and build-up Green House Gases. All actions to be eco-friendly and support sustainable management of the natural resources within and outside the campus premises.
9. The proponent shall ensure that the buildings should not cause any damage to water environment, air quality and should be carbon neutral building.

#### Health

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

#### Energy

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

  
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**Regulatory Frameworks**

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

**Database maintenance & audits**

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

**Biodiversity**

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

**Safety measures**

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

**Water/Sewage**

34. The proponent shall ensure that no treated or untreated sewage shall be let outside the project site & shall find access to nearby water-bodies under any circumstances other than the permitted mode of disposal.
35. The proponent shall provide STP of adequate capacity as committed and shall continuously & efficiently operate STP so as to satisfy the treated sewage discharge standards prescribed by the TNPCB time to time.
36. The proponent shall periodically test the treated sewage the through TNPCB lab /NABL accredited laboratory and submit report to the TNPCB.
37. The proponent shall periodically test the water sample for the general water quality core parameters including fecal coliform within the proposed project site through TNPCB lab /NABL accredited laboratory and submit report to the concerned authorities.
38. The proponent shall ensure that provision should be given for proper utilization of recycled water.
39. The project proponent shall adhere to storm water management plan as committed.

**Parking**

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

**Solid waste Management**

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

  
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42. The proponent should strictly comply with, Tamil Nadu Government order regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.

**EMP**

43. The proponent shall ensure that the EIA/EMP and disaster management plan should be adhered strictly.

44. The proponent shall ensure that all activities of EMP shall be completed before obtaining CTO from TNPCB.

45. The proponent shall provide and ensure the green belt plan is implemented as indicated in EMP. Also, the proponent shall explore possibilities to provide sufficient grass lawns.

**Others**

46. As per the 'Polluter Pay Principle', the proponent will be held responsible for any environmental damage caused due to the proposed activity including withdrawal of EC and stoppage of work.

47. The project proponent shall adhere to height of the buildings as committed.

**Annexure - 'D'**

1. Impacts on Energy requirement.
2. Impacts on living System (air ,water ,soil & micro organism).
3. Impacts on terrestrial & aquatic within and surrounding areas.
4. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed EMP mentioning all the CER activities as committed with the action plan.
5. All the construction of Buildings shall be energy efficient and confirm to the green building norms.
6. The proponent shall provide adequate parking facility for vehicles of all the workers & visitors.
7. The proponent shall ensure that no treated or untreated trade effluent/sewage discharged outside the premises under any circumstances.
8. The disaster management and disaster mitigation standards to be seriously adhered to avoid of calamities.
9. The proponent shall provide the action taken for reduction of green house gas emissions to support the climatic action to make it sustainable buildings.
10. The project proponent shall furnish the action taken to provide adequate parking space for

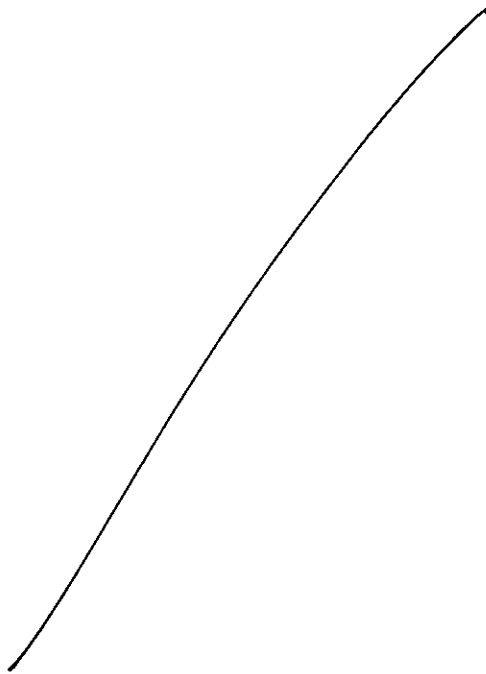
  
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visitors of all inmates including clean traffic plan.

11. The project proponent shall furnish the action taken to improve water usage efficiency in the building.
12. The project proponent shall conduct detailed study of biodiversity flora & fauna including invasives /endemic vulnerable species.
13. The project proponent shall furnish NOC obtained from competent authority that there is no encroachment of water bodies (including canals).
14. The project proponent shall furnish impact of Green House Gases emissions and climate change likely due to activities.
15. The project proponent shall conduct detailed soil investigation including microflora /fauna.
16. The project proponent shall study impact on livelihoods of locals.
17. The project proponent shall furnish List of trees available in the area.
18. The project proponent shall study impact of activities on water bodies/wetlands.
19. The project proponent shall conduct studies on invasive and alien species



  
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