

379

# **MINUTES**

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

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

**Date: 18.07.2023**

**MINUTES OF THE 639<sup>th</sup> MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT  
ASSESSMENT AUTHORITY HELD ON 18.07.2023.**

<b>Agenda No</b>	<b>Description</b>	<b>File No.</b>	<b>Minutes</b>
a)	Confirmation of the minutes of the 638 <sup>th</sup> meeting of the Authority held on 17.07.2023.		The minutes of the 638 <sup>th</sup> meeting of the Authority held on 17.07.2023 was confirmed.
b)	The Action taken on the decisions of the 638 <sup>th</sup> meeting of the Authority held on 17.07.2023.		The Member Secretary informed that 638 <sup>th</sup> Minutes uploaded in Parivesh website and action taken report will be putup ensuing meeting.
1.	Proposed sand quarry lease over an extent of 4.95.0 Ha at S.F.No. 256 and 257 (Part) of Sathamangalam (Ananthimedu) Village, Lalgudi Taluk, Tiruchirappalli District, Tamil Nadu by M/s. The Executive Engineer, Water Resources Department, Mining and Monitoring Division, Tiruchirappalli - For Environmental Clearance.	9291	The Authority noted that the subject was appraised in the 389 <sup>th</sup> Meeting of SEAC held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of at least 3-4 weeks due to administrative reasons. Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal. In view of the above, the Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 06.07.2023.
2.	Proposed Sand quarry over an extent of 4.90.0 Ha in Thenpennai River located at S.F.No.1(P) in Akkadavalli Village, Panruti Taluk, Cuddalore District, Tamil Nadu by The Executive Engineer, PWD/WRD, Villupuram- For Environmental Clearance.	9474	The Authority noted that the subject was appraised in the 389 <sup>th</sup> Meeting of SEAC held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of at least 3-4 weeks due to administrative reasons.

  
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			<p>Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal.</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 06.07.2023.</p>
3.	Proposed Rough stone & Gravel lease over an extent of 3.89.0 Ha at S. F. No's: 178/9, 178/10, 217/1B, 217/2, 217/3, 217/4A, 217/4B & 217/5 in Perumbakkam Village, Cheyyur Taluk, Chengalpattu District, Tamil Nadu by K. Chellamuthu-For Environmental Clearance	9551	<p>The Authority noted that the subject was again appraised in the 389<sup>th</sup> Meeting of SEAC held on 06.07.2023. The committee carefully examined the points raised by SEIAA and the replies given by the PP and <b>decided to reiterate its recommendation for granting Environmental Clearance already made in 362<sup>nd</sup> meeting of SEAC held on 13.03.2023.</b> All other conditions stipulated in the earlier minutes will remain unaltered.</p> <p><b>After detailed discussions, the Authority taking into account the recommendation of SEAC and the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of 5,29,788m<sup>3</sup> of Rough Stone &amp; 96,687m<sup>3</sup> of Gravel by restricting the depth of mining upto 25m 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>

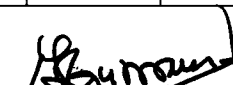
  
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		<ol style="list-style-type: none"> <li>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</li> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 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-</li> </ol>
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			annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.
4.	Proposed construction of Multi Storied Commercial Building at S.F.No. 335/3A, 335/3B, Block No.37, in Krishnarayapuram Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu by M/s. Globus Arima Builders LLP - For Environmental Clearance.	9601	The Authority noted that the subject was appraised in the 389 <sup>th</sup> Meeting of SEAC held on 06.07.2023. The project proponent was absent for the meeting. SEAC decided to defer the proposal to a later date directing the project proponent to furnish the reason for not attending the meeting. 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 06.07.2023.
5.	Proposed Silica Sand quarry lease over an extent of 3.73.0Ha at S.F.Nos. 73(Part) of Vadaagaram Village, Marakkanam Taluk, Villupuram District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited - TAMIN - For Environmental Clearance.	8731	The Authority noted that the subject was appraised in the 389 <sup>th</sup> Meeting of SEAC held on 06.07.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the conditions stated therein. After detailed discussions, the Authority noted that the PP has to remit the processing fee, as applicable, as per G.O. MS.No.281 Environment & Forests (EC.3) Department dated 31.12.12 to process the file. In view of the above, the Authority decided to request the Member Secretary, SEIAA-TN to obtain the above details and place before the Authority for further course of action.
6.	Proposed Sand Quarry over an extent of 4.80.0 Ha at S.F. No.196(P) Karkudal Village,	10030	The Authority noted that the subject was appraised in the 389 <sup>th</sup> Meeting of SEAC held on 06.07.2023. However, the project proponent has requested the

  
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	Vridhachalam Taluk, Cuddalore District, Tamil Nadu by The Executive Engineer-For Environmental Clearance.		SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of at least 3-4 weeks due to administrative reasons. Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal. In view of the above, the Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 06.07.2023.
7.	Proposed sand quarry lease over an extent of 4.90.0 Ha at S.F.No. 242 (Part) of Srinivasanallur Village, Thottiyam Taluk, Tiruchirapalli District, Tamil Nadu by the Executive Engineer, Water Resources Department, Mining and Monitoring Division, Tiruchirappalli - For Environmental Clearance	9292	The Authority noted that the subject was placed in the 389 <sup>th</sup> meeting of SEAC held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of at least 3-4 weeks due to administrative reasons. The SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal. The Authority decided to request the Member Secretary, SEIAA TN to communicate the aforesaid SEAC minutes to the Proponent.
8.	Existing Rough Stone quarry lease over an extent of 1.62.0 Ha at S.F.No. 770/1 & 770/2 of Nathathahalli Village, Nallampalli Taluk, Dharmapuri District, Tamil Nadu by Thiru. G.Murugesan - Environmental Clearance	9679	The Authority noted that the subject was placed in the 389 <sup>th</sup> meeting of SEAC held on 06.07.2023 and the SEAC has furnished its recommendation for the <b>grant of Environmental Clearance</b> to the project 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 <b>grant Environmental Clearance for the restricted production quantity of 77910 m<sup>3</sup> of Rough</b>

  
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**stone to the proposed depth of 15m BGL in 5 years** as per the approved mining plan. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.

1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.
2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of mine plan period till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.
3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life.
4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.
5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed

  
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			<p>compliance module in the PARIVESH Portal from the respective login.</p> <p>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work &amp; expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p> <p>7. The project proponent shall store/dump Top soil, Weathered Rock &amp; Granite Waste generated within the earmarked area of the project site and the utilize the same for mine closure as per the approved mine closure plan.</p>
9.	Proposed Rough Stone, jelly and gravel quarry lease area over an extent of 3.92.70Ha at S.F.No.192(p) of Kasthuriengapuram Part-II Village, Thisayanvilai Taluk, Tirunelveli District by Thiru. C.Sugu- For Environmental Clearance.	6975	<p>The Authority noted that the subject was placed in the 389<sup>th</sup> meeting of SEAC held on 06.07.2023 and the Project Proponent has requested for postponing the appraisal of his subject to a later date. Hence the SEAC has decided to defer the subject as requested by the Project Proponent.</p> <p>The Authority decided to request the Member Secretary, SEIAA TN to communicate the aforesaid SEAC minutes to the Proponent.</p>
10.	<p>File No: 9117</p> <p>Proposed Multi colour Granite quarry lease over an extent of 1.66.0 Ha in S.F.No. 71/2 of Alampatti Village, Sattur Taluk, Virudhunagar District Tamil Nadu by Tvl.Amman Granites – Amendment to Environmental Clearance.</p> <p>The Authority noted that the subject was placed in the 389<sup>th</sup> meeting of SEAC held on 06.07.2023 and the SEAC has furnished its recommendation for the <b>grant of following amendment to the Environmental Clearance</b> dated 05.09.2022 subject to the conditions stated therein. All the other</p>		

  
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conditions mentioned in the EC vide Lr.No. SEIAA-TN/F.No.9117/EC.No.5269/2021 dated: 05.09.2022 remain unaltered.

Reference of Approved EC	Description as per Application and Approved EC	Amendment Required
Lr.No.SEIAA-TN-F.No.9117/EC.No:5269/2021 dated: 05.09.2022	E 77° 57' 14.40" to E 77° 18' 18.19"	E 77° 57' 14.40" to E 77° 57' 18.19"

After detailed discussions, the Authority taking into account the recommendations of SEAC decided to **grant the aforesaid amendment to the Environmental Clearance** dated 05.09.2022 as recommended by SEAC

11.	Proposed Karimbedu Sand Quarry Project for Restoring the Functional Efficiency of the Kosasthalaiyar River over an Extent of 4.95.0Ha of Government land in S.F.No. 187 (Part) of Kosasthalaiyar (Nagari) River in Karimbedu Village, Pallipattu Taluk, Tiruvallur District, Tamil Nadu by the Executive Engineer, PWD/WRD – For Environmental Clearance.	9645	<p>The authority noted that the subject was appraised in 389<sup>th</sup> SEAC meeting held on 06.07.2023.</p> <p>However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons.</p> <p>Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal.</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 389<sup>th</sup> SEAC held on 06.07.2023 to the project proponent.</p>
12.	<p>File No: 9469</p> <p>Proposed Construction of Residential &amp; Commercial Development building S.F.No. 701/1A, 701/1B, 701/2A, 701/2B, 702/1(pt), 702/1A, 702/1B, 702/1C, 702/1D, 702/2 and 761/2, T. S. No. 1/2, 1/3 &amp; T. S. No. 2, Block No. 20 Madhavaram Village, Madhavaram Taluk Thiruvallur District, Tamil Nadu by M/s. Alliance Villas Pvt. Ltd - Issue of Terms of Reference (ToR) under violation</p> <p>The authority noted that the subject was appraised in 389<sup>th</sup> SEAC meeting held on 06.07.2023. During the presentation, SEAC noted that</p>		

  
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- i. The proposed site has a valid Environmental Clearance issued in the name of M/s Tamil Nadu Maheswari Foundation vide Lr.No. SEIAA/TN/F.5597/2016/EC/8(a)/577/2018 dt: 09.05.2018.
  - ii. Further, the Environmental clearance was issued for the Construction of Residential Buildings, Commercial Buildings (Kalyana Mandabam, Club House) and Institutional Building (Nursery & Primary School) Project.
  - iii. The EIA Coordinator disclosed that the proponent M/s Alliance Villas Pvt. Ltd has constructed an office building which is not part of the earlier obtained Environmental Clearance.
1. As per MoEF&CC Office Memorandum vide F.No. IA3-22/10/2022-IA.III dated: 05.05.2022 – Clarification with regard to non-requirement of EC amendment due to change in conceptual plan arising out of statutory requirements in building and construction sector, para 5, 6 & 7 states as follows.

*“...5. Accordingly, matter has been examined and it has been decided that any change in configuration/planning/design of the appraised building Project for which EC was granted shall not require amendment of EC, subject to no change in (i) Built Up Area (ii) Floor Area Ratio (FAR) (iii) change in exterior spaces/green belts, parking, walkways and driveways that are covered including attics and outdoor sports courts. Further there shall be no change in the designated use of the building, number of dwelling units, height of the building, number of floors & basements and total excavation of earth of the building/construction/ township/ area development project so as not to require any changes in the already approved Environmental Impact Analysis (EIA) and Environmental Management Plan (EMP).*”

2. Any addition, alteration, modification in the conceptual plan, as stated at para- 6 of the EIA Notification 2006, for which prior EC was granted other than the changes falling under the category of permissible changes as explained in para 5 above which results in the increase in pollution of any type beyond the approved levels necessitating fresh EIA/EMP shall be treated as Violation and shall be dealt with accordingly as per the provisions of the Office Memorandum dated 7th July 2021.”

  
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3. SEAC noted, through Google maps and the photographs submitted by the proponent and also details contained in the complaint letter, that the PP has commenced construction of at least two framed structures, not covered by the previous EC.

In the light of the above facts and Office Memorandum cited above, the Committee decided to (1) reverse its earlier recommendation, (2) treat this as a violation category and (3) **recommend for the grant of sector specific standard Terms of Reference (ToR) under violation category** in 3 parts for the project, for assessment of Ecological damage, remediation plan and natural & community resource augmentation plan to be prepared as an independent chapter in the Environment Impact Assessment report by the Accredited consultant and also with collection and analysis of data for the assessment of ecological damage, preparation of remediation plan and natural & community resource augmentation plan to be done by an Environmental laboratory duly notified under the Environment (Protection) Act, 1986, accredited by NABET or a laboratory of council of Scientific and Industrial research Institutions working in the field of Environment in addition to the following ToRs:

1. **This ToR is issued subject to the outcome of the court case filed before the Hon'ble High Court of Madras (Madurai Bench) vide W.P.(MD) No. 11757 of 2021 titled Fatima Vs Union of India challenging the SoP for violation proposals dated 07th July 2021.**
2. **No construction shall be initiated at the project site without obtaining prior Environmental Clearance.**

The authority after detailed deliberation decided that

1. The proponent has stated in his presentation as

*"...We have initiated to surrender the existing environmental clearance through Parivesh Portal, but, but online surrender facilities is not enabled in Parivesh Portal."*

Hence, in the view of the above, in order to verify the proponent's claim that there is no provision for surrender of EC, Authority decided to defer the proposal.

13.	Proposed Rough Stone and earth quarry lease area over an extent of Extent 2.06.0 Ha at SF.No. 8/1B & 8/2 of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu by Tvl. Sri Santhosh Blue	6829	The authority noted that the subject was appraised in 389 <sup>th</sup> SEAC meeting held on 06.07.2023. The EIA Coordinator requested to postpone and reschedule the meeting. Hence, the proposal was not taken up for appraisal. In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member
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	Metals - For Environmental Clearance.		Secretary to communicate the minutes of 389 <sup>th</sup> SEAC held on 06.07.2023 to the project proponent.
14.	Proposed brick earth quarry lease over an extent of 0.81.20 Ha at S.F.No. 36/1A2 of Vembedu Village, Uthukottai Taluk, Tiruvallur District, Tamil Nadu by Thiru. G. Venkatesan - For Environmental clearance	9723	<p>The authority noted that the subject was appraised in the 389<sup>th</sup> SEAC meeting held on 06.07.2023. 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 <b>for the quantity of 3,317m<sup>3</sup> of brick earth upto the maximum depth of 1m 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 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> </ol>

  
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			<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>
15.	Proposed Sand quarry over an extent of 4.93.0 Ha in Cauvery river located at S.F. No: 170 (P), Sarkar Manapalli Village, Mohanur Taluk, Namakkal District, Tamil Nadu by M/s. The Executive Engineer,	9492	The authority noted that this proposal was placed for appraisal in 389 <sup>th</sup> meeting of SEAC held on 06.07.2023. The project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons.

  
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	PWD/WRD– For Environmental Clearance.		Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal. In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 06.07.2023.
16.	Existing Grey granite quarry over an extent of 2.16.0 Ha at S F. No. 356/1B1, 356/2, 356/3B, 360/2 of Chendarapalli Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Thiru. D. Loganathan - For Environmental Clearance Extension.	2519	The authority noted that this proposal was placed for appraisal in 389 <sup>th</sup> meeting of SEAC held on 06.07.2023. The PP has requested the SEAC to grant permission for the withdrawal of the proposal, as the project is not eligible to obtain the extension of Environmental Clearance granted earlier. Hence the Committee decided that SEIAA may consider withdrawal request as and when received. The authority after detailed discussion decided that the withdrawal request by PP is accepted by the Authority. 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 06.07.2023.
17.	Proposed Sand quarry over an extent of 4.95.0 Ha in Cauvery River located at SF. No. 47 (P) of Bommalapalayam village, Paramathi Vellore Taluk, Namakkal District, Tamil Nadu by M/s. The Executive Engineer, PWD/WRD – For Environmental Clearance.	9458	The authority noted that this subject was placed for appraisal in 389 <sup>th</sup> meeting of SEAC held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons. Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal.

  
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			In view of the above, the Authority decided to request Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent.
18.	Proposed sand quarry lease over an extent of 4.90.0 Ha in S.F. No: 195(P), Veeramuiayanatham Village, Bhuvanagiri Taluk, Cuddalore District, Tamil Nadu by the Executive Engineer, PWD - For Environmental Clearance.	9903	The authority noted that this subject was placed for appraisal in 389 <sup>th</sup> meeting of SEAC held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons. Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal. In view of the above, the Authority decided to request Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent.
19.	Existing sand quarry in Cauvery River poramboke land at S.F.No.1(P), over an extent of 4.90.0Hectares in Kallapalli Village, Krishnarayapuram Taluk, Karur District, Tamil Nadu by The Executive Engineer, PWD/WRD, Mining & Monitoring Division, Tiruchirappalli - for amendment for Environmental Clearance.	8261	The authority noted that the subject was again appraised in 389 <sup>th</sup> meeting of SEAC held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons. Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal. In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 06.07.2023
20.	Proposed sand quarry in Vellaru river over an extent of 4.87.5 Hectares in S.F. No. 163 (P) in Kavalagudi Village, Srimushnam	9904	The authority noted that the subject was again appraised in 389 <sup>th</sup> meeting of SEAC held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled

  
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	Taluk, Cuddalore District, Tamil Nadu by The Executive Engineer, Public Works Department, WRD, Mining and Monitoring Division, Villupuram – For Environmental Clearance.		appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons. Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal. In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 06.07.2023
21.	Proposed Sand Quarry in Manimuktharu River over an extent of 4.95.0Ha located at S.F.No.1 (P) in Katchiperumalnatham & S.F.No.420(P) Chinnaparur Village, Virudhachalam Taluk and Cuddalore District by Tamil Nadu by The Executive Engineer, Public Works Department, WRD, Mining and Monitoring Division, Villupuram- For Environmental Clearance.	10029	The authority noted that the subject was again appraised in 389 <sup>th</sup> meeting of SEAC held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons. Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal. In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 06.07.2023
22.	Proposed Black Granite (Dolerite) lease area over an extent of 3.43.5 Ha in S.F.No. 532/1A1, 528/1A & 527/1 at Puligunda Village, Bargur (Formerly Krishnagiri) Taluk, Krishnagiri District, Tamil Nadu by Tvl. Bannari Amman Sugars Limited- For Extension Environmental Clearance Amendment.	3774	The authority noted that the subject was appraised in 389 <sup>th</sup> meeting of SEAC held on 06.07.2023. SEAC has furnished its recommendations for <b>grant of extension of Environmental Clearance already made in the 352<sup>nd</sup> SEAC meeting Dt: 08.02.2023</b> 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 <b>grant of</b>

  
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SEIAA-TN



**extension of Environmental Clearance** for the quantity **31,941 cu.m of Black Granite for the period of (2023 – 2024) to (2025 – 2026) and the depth of mining upto 49m** 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 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.
3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life.
4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.
5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN

monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.

6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.
7. The project proponent shall store/dump **Topsoil, Granite Waste & Side burden generated** within the earmarked area of the project site and the utilize the same for mine closure.
8. The project proponent shall spend EMP cost of **Rs. 75.29 Lakhs / 3 Years including capital & recurring cost with 5% inflation cost anticipated every year as committed.**
9. As per the MoEF& 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. 5Lakhs towards and the amount shall be spent for the Thogarapalli Government Higher Secondary School, Krishnagiri before the execution of lease.**
10. All the trees listed within the proposed mining area shall be transplanted all along the boundary.

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN

			<p>11. The PP shall ensure protection for the list of shrubs, herbs, climbers and the threatened/endangered vulnerable species within the proposed mining area as mentioned in the documents submitted.</p> <p>12. The PP shall ensure that the Wildlife habitat and Biodiversity shall not be disturbed.</p> <p>13. The PP shall ensure no impact on surrounding waterbodies and water course by the way of soil erosion, etc.</p>
23.	<p>Proposed Lime stone quarry (Periyagalur Limestone Mine) lease over an extent of 4.98.5 Ha (3.725Ha in Patta land &amp; 1.260 Ha in Poramboke land) in S.F Nos. Parts of 34, 34/1, 49, 50, 54, 54/26 &amp; 54/27 of Periyagalur Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu by M/s. Ultra Tech Cement Limited – for Environmental Clearance.</p>	8863	<p>The authority noted that the subject was appraised in 389<sup>th</sup> meeting of SEAC held on 06.07.2023. SEAC has furnished its recommendations for grant of extension of Environmental Clearance already made in the 357<sup>th</sup> SEAC meeting held on 23.02.2023 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 quantity <b>1,67,629 cu.m of Lime Stone for the period of (2023 – 2024) to (2025 – 2026) and the depth of mining upto 22m BGL</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>

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN

1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.
2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.
3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life.
4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.
5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.
6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN

annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.

7. The project proponent shall store/dump **Topsoil, Mineral Rejects, & Over burden generated within the earmarked area of the project site and the utilize the same for mine closure/rectification of benches within the worked-out area of the mining lease area.**
8. **The PP shall plant and maintain 3700 Nos. of trees as committed within the mining lease area as committed.**
9. **The PP shall utilise mineral rejects for rectifying benches within the worked-out area of the mining lease as committed.**
10. The project proponent shall spend EMP cost of **Rs.6.847 Lakhs (Capital Cost) & Recurring (Operating Cost ) – Rs. 23.45 Lakhs/per Annum including capital & recurring cost with 5% inflation cost anticipated every year as committed.**
11. As per the MoEF& 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. 15 lakhs and the amount shall be spent for the activities as committed, before obtaining CTO from TNPCB. Further, the PP shall contribute to the Karivetti Bird Sanctuary for the mitigation measures in consultation with the concerned DFO/Ariyalur.**

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN

			<p>12. All the trees listed within the proposed mining area shall be transplanted all along the boundary.</p> <p>13. The PP shall ensure protection for the list of shrubs, herbs, climbers and the threatened/endangered vulnerable species within the proposed mining area as mentioned in the documents submitted.</p> <p>14. The PP shall ensure that the Wildlife habitat and Biodiversity shall not be disturbed.</p> <p>15. The PP shall ensure no impact on surrounding waterbodies and water course by the way of soil erosion, etc.</p>
24.	Proposed Rough Stone & Gravel Quarry lease over an extent of 3.38.0Ha S.F.No.384(P), 387/3 & 387/4, Amayapuram Village, Manapparai Taluk, Tiruchirappalli District by Thiru. T. Rengarasu - For Environmental Clearance.	9712	<p>The authority noted that the subject was appraised in 389<sup>th</sup> meeting of SEAC held on 06.07.2023. 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>302860 cu.m of Rough Stone &amp; 23288 cu.m of Gravel and the depth of mining upto 20m BGL</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</p>

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN

conditions and the conditions in Annexure 'A' of this minutes.

1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.
2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.
3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life.
4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.
5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.
6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN

committed. The work & 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.

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.
8. The project proponent shall spend EMP cost of Rs. 320.7 Lakhs / 10 Years including capital & recurring cost with 5% inflation cost anticipated every year as committed.
9. As per the MoEF& 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. 8 Lakhs, out of which Rs. 4 Lakhs shall be spent to Government High School, Karumagoundanpatty Village and another Rs. 4 Lakhs shall be spent for the Government High School, Kulamangalam South Village as committed, before obtaining CTO from TNPCB.
10. All the trees listed within the proposed mining area shall be transplanted all along the boundary.
11. The PP shall ensure protection for the list of shrubs, herbs, climbers and the threatened/endangered vulnerable species within the proposed mining area as mentioned in the documents submitted.
12. The PP shall ensure that the Wildlife habitat and Biodiversity shall not be disturbed.

  
**MEMBER SECRETARY**

  
**MEMBER**

  
**CHAIRMAN  
SEIAA-TN**



			13. The PP shall ensure no impact on surrounding waterbodies and water course by the way of soil erosion, etc.
25.	Proposed sand quarry in Vellaru river over an extent of 4.48.0Ha at S.F.No.241/1 (P) & 242/1 (P), Vasistapuram Village, Kunnam Taluk, Perambalur District, TamilNadu by The Executive Engineer, Public Works Department, WRD, Mining and Monitoring Division, Tiruchirappalli – For Environmental Clearance.	9824	The authority noted that the subject was again appraised in 389 <sup>th</sup> meeting of SEAC held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons. Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal. In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 06.07.2023
26.	Proposed Sand quarry lease over an extent of 3.90.0 Ha at S.F. No 134(P) in Chithathur Village, Gudiyatham Taluk, Vellore District, Tamil Nadu by The Executive Engineer, WRD/PWD, Chennai - For Environmental Clearance	9825	The Authority noted that the subject was appraised in the 389 <sup>th</sup> Meeting of SEAC held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of at least 3-4 weeks due to administrative reasons. Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal. In view of the above, the Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 06.07.2023.

**Annexure-‘A’**

**EC Compliance**

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN

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.
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

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN

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.
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

  
**MEMBER SECRETARY**

  
**MEMBER**

  
**CHAIRMAN  
SEIAA-TN**

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 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.

  
**MEMBER SECRETARY**

  
**MEMBER**

  
**CHAIRMAN**  
SEIAA-TN

### **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**

35. The project activity should not in any way impact the climate and lead to a rise in temperature.

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN

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.
51. The project activities should not result in changes in forest structure, habitats and genetic diversity within forests.

#### **Green Belt Development**

  
**MEMBER SECRETARY**

  
**MEMBER**

  
**CHAIRMAN**  
**SEIAA-TN**

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 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

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN

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 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.

  
MEMBER SECRETARY

  
MEMBER

  
CHAIRMAN  
SEIAA-TN



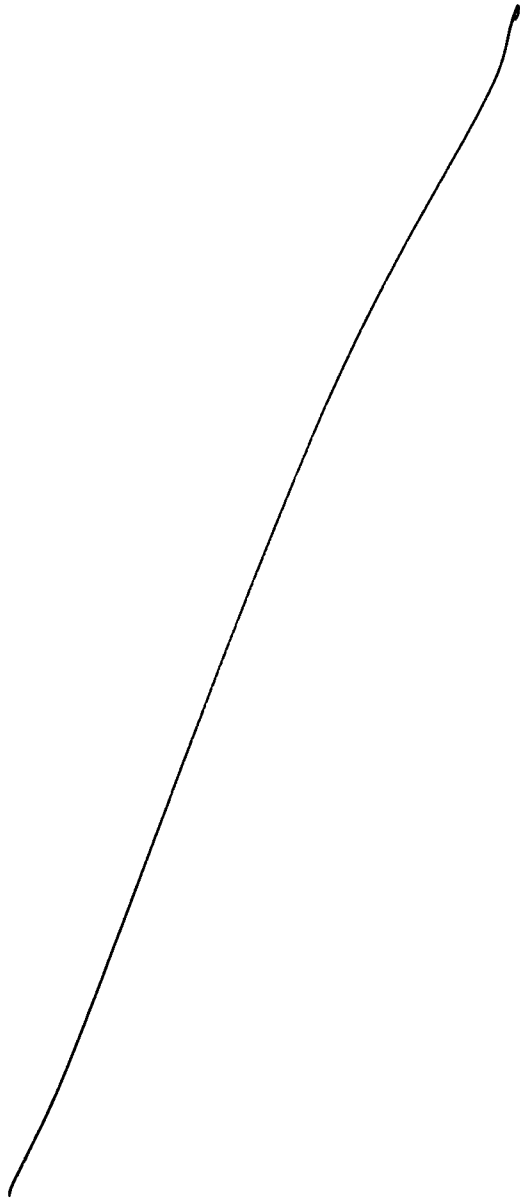
66. For mining area reclamation plot culture experiments to be done to identify/ determine suitable species for the site.
67. Top soil with a mix of beneficial microbes (Bacteria/Fungi) to be used for reclamation of mine spoils. AM Fungi (Arbuscular mycorrhizal fungi), plant growth promoting Rhizo Bacteria 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 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.

  
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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.



  
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