

**MINUTES**

**625<sup>th</sup> MEETING**

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

**Date: 01.06.2023**

**MINUTES OF THE 625<sup>th</sup> MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT  
ASSESSMENT AUTHORITY HELD ON 01.06.2023.**

<b>Agenda No</b>	<b>Description</b>	<b>File No.</b>	<b>Minutes</b>
a)	Confirmation of the minutes of the 624 <sup>th</sup> meeting of the Authority held on 31.05.2023.		The minutes of the 624 <sup>th</sup> meeting of the Authority held on 31.05.2023 was confirmed.
b)	The Action taken on the decisions of the 624 <sup>th</sup> meeting of the Authority held on 31.05.2023.		The Member Secretary informed that 624 <sup>th</sup> Minutes uploaded in Parivesh website and action taken report will be put up ensuing meeting.
1.	Proposed Brick Earth quarry lease over an extent of 1.22.4 Ha at S.F.No. 86, 87/1B & 87/2B of Athangikavanur Village, Uthukkottai Taluk, Thiruvallur District, Tamil Nadu by Thiru.P.Jayakumar- for Environmental Clearance.	9893	<p>The Authority noted that the subject was appraised in 378<sup>th</sup> meeting of SEAC held on 09.05.2023. The Committee noted that the Project Proponent vide letter dated 09.05.2023 has requested the SEIAA for withdrawal of the application as he has decided not to continue the quarrying activity. The Committee, therefore, decided to defer the proposal to allow SEIAA to accept the withdrawal request of the Project Proponent.</p> <p>The Authority decided to accept the withdrawal request of the Project proponent issuing a warning to the PP and the NABET Consultant not to hide the facts pertaining to the project.</p>
2.	Proposed Earth quarry over an extent of 1.19.5 Ha in S.F.Nos. 133/4E, 133/8, 133/9, 133/10, 133/12 & 134/2B of Velangipattu Village & 49/2A of Kothattai Village, Bhuvangiri Taluk, Cuddalore District, Tamil Nadu by Thiru. C.	9894	<p>The authority noted that the subject was appraised in 378<sup>th</sup> SEAC meeting held on 11.05.2023.</p> <p>Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to <b>recommend the proposal for the grant of Environmental Clearance.</b></p> <p><b>After detailed discussions, the Authority taking into account the recommendations of SEAC and to</b></p>

  
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ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the restricted quantity of 13,382 m<sup>3</sup> of Earth for the depth of mining up to 2m BGL 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 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-

  
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			<p>monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</p> <p>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work &amp; expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p>
3.	Proposed Rough Stone quarry over an extent of 2.02.5 Ha in SF.No. 389 (Part) at Kalappannahalli Village, Dharmapuri Taluk, Dharmapuri District, Tamil Nadu by Thiru. A.Sasimohan - For Environmental Clearance Extension.	9896	<p>The authority noted that this proposal was placed for appraisal in 378<sup>th</sup> meeting of SEAC held on 11.05.2023. the SEAC noted that,</p> <p>The PP has applied for Extension of EC. The PP requested to withdraw the project based on OM dated 28.04.2023, since PP has obtained EC in DEIAA vide Letter No.08/DEIAA-DPI/TN-EC.No.08/2017 dated 31.10.2017 valid for 5 years. Hence the Committee decided to recommend to SEIAA to accept the withdrawal request of the PP.</p> <p>After detailed discussions, the authority decided to accept the request of SEAC and the authority accepted the withdrawal request of PP.</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 11.05.2023.</p>

  
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4.	Proposed Rough Stone quarry over an extent of 3.95.0 Ha in SF.No. 281/2 at Chettikurichi Village, Kayathar Taluk, Thoothukudi District, Tamil Nadu by Thiru. Thiru. S. Maheswaran - For Environmental Clearance.	9899	<p>The Authority noted that the subject was appraised in 378<sup>th</sup> meeting of SEAC held on 09.05.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>The Authority directed the Project Proponent to furnish the following details/documents:</p> <ol style="list-style-type: none"> <li>1. Latest copy of certified compliance report issued by the Competent Authority.</li> <li>2. Impact of project activity on agriculture, biodiversity, flora and fauna, nearby water bodies and ground water.</li> <li>3. KML file demarcating the boundary of mine lease area.</li> </ol> <p>On receipt of the aforesaid details/documents the subject shall be referred back to SEAC.</p>
5.	Proposed Rough Stone & Gravel quarry lease over an extent of 4.47.5 Ha at S.F.No. 1067/1(Part), 1067/2(Part) & 678 (Part) of Thennilai West Village, Pugalur Taluk, Karur District, Tamil Nadu by Thiru.T.Ponnusamy - For Environmental Clearance.	9908	<p>The authority noted that the subject was appraised in the 378<sup>th</sup> SEAC meeting held on 11.05.2023. Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to obtain the following details from the PP.</p> <ol style="list-style-type: none"> <li>1. The PP shall revise the bench geometry keeping the ultimate depth of the quarry as 50 m and furnish the 'Revised Production Development Plan' approved by the AD (Mines).</li> <li>2. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall carry out a 'Slope Stability Assessment' studies for the existing conditions of the quarry wall by involving any of the reputed Research and</li> </ol>

  
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			<p>Academic Institutions - CSIR-Central Institute of Mining &amp; Fuel Research (CIMFR) / Dhanbad, NIRM - Bengaluru, IIT-Madras, NIT Surathkal – Dept of Mining Engg, and Anna University Chennai-CEG Campus, Chennai. The above studies shall spell out the 'Action Plan' for carrying out the realignment of the benches and quarrying operations in a safe &amp; sustainable manner in the proposed quarry lease.</p> <p>In view of this, the authority after deliberations, decided to request Member Secretary, SEIAA to communicate the minutes of the 378<sup>th</sup> SEAC meeting to the project proponent.</p>
6.	Proposed Rough Stone & Gravel quarry lease over an extent of 4.88.0Ha at S.F.No. 170/2, 170/3, 170/4, 236/1B, 236/1C, 236/1D & 220/1A1(P) of Siruthamur Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu by Thiru.S.Hemprasath- For Terms of Reference.	8696	The Authority noted that the subject was appraised in the 378 <sup>th</sup> SEAC meeting held on 11.05.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant <b>Terms of Reference (ToR) along with Public Hearing</b> under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions and conditions in <b>Annexure 'B'</b> of this minutes in addition to the following conditions.
7.	Amendment of Environmental Clearance for the proposed construction of 1200 slum tenements at Kargil Nagar at T.S.No.1/1 & 3/1 (Old S.F.No:618/G) of Kargil Nagar, Thiruvottiyur Village, Thiruvottiyur Taluk, Thiruvallur	6651	The authority noted that this proposal was placed for appraisal in this 378 <sup>th</sup> SEAC meeting held on 11.05.2023 and the SEAC decided to obtain the following details from the PP. 1. The PP shall furnish damage assessment calculation based on CPCB guidelines. In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the

  
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	District, Tamil Nadu by M/s. Tamil Nadu Slum Clearance Board – Amendment of for Environmental Clearance.		SEAC minutes to the project proponent held on 11.05.2023.
8.	Proposed Rough stone and Gravel over an extent of 1.14.5Ha of Patta land in S.F.No. 199/1B of Kokkalai Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu by Tmt. P. Anbuselvi W/O. Thiru.M.Palanisamy ( Late) – Name Change Amendment for ToR.	7925	<p>The authority noted that this proposal was placed for appraisal in this 378<sup>th</sup> SEAC meeting held on 11.05.2023 and the SEAC decided to recommend for the ‘name change’ amendment from Thiru.M.Palanisamy (Late) to Tmt. P. Anbuselvi in regard to TOR issued vide Lr.No. SEIAA-TN/F.No.7925/SEAC/ToR-1040/2022 Dated: 31.01.2022.</p> <p>In this connection, the authority after detailed discussion has decided to accept the recommendation of SEAC and to grant ‘name change’ amendment from Thiru.M.Palanisamy (Late) to Tmt. P. Anbuselvi for the TOR issued vide Lr.No. SEIAA-TN/F.No.7925/SEAC/ToR-1040/2022 Dated: 31.01.2022 subject to all the TORs/conditions &amp; validity mentioned in the TOR issued vide Lr.No. SEIAA-TN/F.No.7925/SEAC/ToR-1040/2022 Dated: 31.01.2022 remains unchanged and unaltered.</p>
9.	Extension of validity for Environmental Clearance for the construction of residential Apartments at S.No 299/1A, 1B,	1821	The authority noted that this proposal was placed for appraisal in this 378 <sup>th</sup> SEAC meeting held on 11.05.2023 and the SEAC decided to recommend

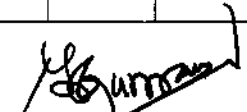
  
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<p>2A, 2B, 3A, 3B, 3C, 4B, 300/1,2,3,4,5,6,7,8,9,10, 301/1, 2,3,4,5,6,7,8,9,10,12A, 12B in Pudupakkam Village &amp; S.No. 611B/1A, 2, 3A, 3B, 4B &amp; 612B in Padur village, Chengalpet Taluk, Kancheepuram District Tamil Nadu for the total built up area of 2,11,823.81 Sq.m by M/s. Puravankara Limited – Extension of validity for Environmental Clearance.</p>		<p>extension of validity upto 23.12.2025 for the Environmental Clearance issued vide Letter No. SEIAA-TN/F-1821/EC/8(b)/365/2013 dated 24.12.2014 subject to certain conditions stated therein.</p> <p>In this connection, the authority noted that the PP has obtained earlier EC vide Lr. No. SEIAA-TN/F-1821/EC/8(b)/365/2013 dated 24.12.2014 in the name of M/s. Puravankara Projects Limited but now the PP has applied for extension of validity of EC in the name of M/s. Puravankara Limited.</p> <p>In view of the above, the authority after detailed discussion decided to refer back the proposal to SEAC in regard to remarks and recommendation for name change in addition to the recommendation of SEAC for extension of validity of EC upto 23.12.2025 vide 378<sup>th</sup> SEAC meeting held on 11.05.2023.</p>
<p>10. Proposed Multi-Coloured Granite quarry over an extent 1.38.0 Hectares at S.F.Nos.80/1 and 76/2(P) of Irumbali Village, Kulathur Taluk, Pudukottai District, Tamil Nadu by Tmt. D.Adaikalamary – Extension of validity for Environmental Clearance.</p>	<p>2171</p>	<p>The authority noted that this proposal was placed for appraisal in this 378<sup>th</sup> SEAC meeting held on 11.05.2023 and the SEAC decided that the project proponent shall apply for Fresh EC with mandatory documents and shall withdraw the application seeking Extension of validity of EC since, the proposal is not eligible for automatic extension of validity of EC as per MoEF&amp;CC OM F.No.1A3-22/28/2022-1A.111 Dt: 13.12.2022.</p> <p>In view of the above, the authority after detailed</p>

  
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			<p>discussion decided to accept the recommendation of SEAC and the proponent is directed to apply for request for withdraw through online for the proposal seeking Extension of validity of EC vide SIA/TN/MIN/296612/2023 Dt: 12.01.2023 with request letter with proper justification.</p> <p>Also, the project proponent shall apply for Fresh EC with mandatory documents with letter from AD, Dept. of Geology &amp; Mining regarding existing pit dimension with remarks of violation if any, &amp; last transport permit details.</p>
11.	<p>Proposed Multi Colour Granite quarry over an extent 4.80.0 Hectares at S.F.No 442/3(P), K.Pitchampatti Village, Karur Taluk, Karur District, Tamil Nadu by Thiru.R. Anupkumar Lohia – Extension of validity for Environmental Clearance.</p>	2703	<p>The authority noted that this proposal was placed for appraisal in this 378<sup>th</sup> SEAC meeting held on 11.05.2023 and the SEAC noted that the PP has obtained EC from DEIAA-TN vide Lr. No. DEIAA-DIA/TN/MIN/17922/2018-KRR EC No. 123/2018/Mines Dated: 09.10.2018 valid upto 08.10.2024 asper MoEF&amp;CC Notification vide S.O. 221(E) &amp; Dt:18.01.2021. Hence, this proposal seeking automatic extension of validity of EC cannot be considered as per MoEF&amp;CC OM F.No.1A3-22/28/2022-1A.111 Dt: 13.12.2022.</p> <p>Further, EC was obtained from from DEIAA-TN vide Lr. No. DEIAA-DIA/TN/MIN/17922/2018-KRR EC No. 123/2018/Mines Dated: 09.10.2018. Hence, as per MoEF&amp;CC vide OM F.No.1A3-22/11/2023-1A.111 (E208230) Dt: 28.04.2023 all valid ECs issued by DEIAA shall be reappraised through SEIAA/SEAC in compliance to the order of the Hon'ble NGT in O.A 142 of 2022.</p> <p>In view of the above, SEAC after detailed discussion decided that the project proponent shall apply for Fresh</p>

  
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			<p>EC with mandatory documents and shall withdraw the application seeking Extension of validity of EC since, the proposal is not eligible for automatic extension of validity of EC as per MoEF&amp;CC OM F.No.1A3-22/28/2022-1A.111 Dt: 13.12.2022 and MoEF&amp;CC vide OM F.No.1A3-22/11/2023-1A.111 (E208230) Dt: 28.04.2023.</p> <p>In view of the above, the authority after detailed discussion decided to accept the recommendation of SEAC and the proponent is directed to apply for request for withdraw through online for the proposal seeking Extension of validity of EC vide SIA/TN/MIN/294580/2022 Dt: 26.11.2022 with request letter with proper justification.</p> <p>Also, the project proponent shall apply for Fresh EC with mandatory documents with letter from AD, Dept. of Geology &amp; Mining regarding existing pit dimension with remarks of violation if any, &amp; last transport permit details.</p>
12.	Proposed Multi Colour Granite quarry over an extent 1.33.5 Hectares at S.F.No 536/2A2, 536/3 and 536/4B of Kalugur Village, Kulithalai Taluk, Karur District, Tamil Nadu by Thiru.M. Gandhi – Extension of validity for Environmental Clearance.	5909	<p>The authority noted that this proposal was placed for appraisal in this 378<sup>th</sup> SEAC meeting held on 11.05.2023 and the SEAC noted that the PP has obtained EC from DEIAA-TN vide Lr.No.DEIAA-DIA/TN/MIN/17861/2018-KRR EC No. 19/2018/Mines Dated: 09.10.2018 valid upto 08.10.2024 as per MoEF&amp;CC Notification vide S.O. 221(E) &amp; Dt:18.01.2021. Hence, this proposal seeking automatic extension of validity of EC will not be considered as per MoEF&amp;CC OM F.No.1A3-22/28/2022-1A.111 Dt: 13.12.2022.</p> <p>Further, EC was obtained from DEIAA-TN vide Lr.No.DEIAA-DIA/TN/MIN/17861/2018-KRR EC</p>

  
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			<p>No. 19/2018/Mines Dated: 09.10.2018. Hence, as per MoEF&amp;CC vide OM F.No.1A3-22/11/2023-1A.111 (E208230) Dt: 28.04.2023 all valid ECs issued by DEIAA shall be reappraised through SEIAA/SEAC in compliance to the order of the Hon'ble NGT in O.A 142 of 2022.</p> <p>In view of the above, SEAC after detailed discussion decided that the project proponent shall apply for Fresh EC with mandatory documents and shall withdraw the application seeking Extension of validity of EC since, the proposal is not eligible for automatic extension of validity of EC as per MoEF&amp;CC OM F.No.1A3-22/28/2022-1A.111 Dt: 13.12.2022 and MoEF&amp;CC vide OM F.No.1A3-22/11/2023-1A.111 (E208230) Dt: 28.04.2023.</p> <p>In view of the above, the authority after detailed discussion decided to accept the recommendation of SEAC and the proponent is directed to apply for request for withdraw through online for the proposal seeking Extension of validity of EC vide SIA/TN/MIN/294776/2022Dt: 01.12.2022 with request letter with proper justification.</p> <p>Also, the project proponent shall apply for Fresh EC with mandatory documents with letter from AD, Dept. of Geology &amp; Mining regarding existing pit dimension with remarks of violation if any, &amp; last transport permit details.</p>
13.	Amendment of Environmental Clearance for the existing Multi Colour Granite quarry Over an extent of 4.18.5 Ha S.F.No 276/2 (Part), Thogamalai Village,	4040	The authority noted that this proposal was placed for appraisal in this 378 <sup>th</sup> SEAC meeting held on 11.05.2023 and the SEAC decided to recommend the proposal for the grant of amendment of Environmental Clearance and the production quantity of Annual Peak

  
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	Kulithalai Taluk, Karur District by M/s. Tamil Nadu Minerals Limited – Amendment of Environmental Clearance.		<p>ROM: 12,128 M<sup>3</sup> /Annum &amp; Multi colour Granite annual peak Recovery (50%): 6,064 M<sup>3</sup>/Annum subject to all the conditions stipulated and validity of EC issued vide Lr. No.SEIAA-TN/F.No.4040/1(a)/EC.No: 3887 /2016 dated 14.11.2016 remains unchanged and unaltered.</p> <p>In view of the above, the authority after detailed discussion decided to defer the proposal seeking additional particulars</p> <p>i) Copy of approved modified scheme of mining plan-III.</p>
14.	Proposed Rough stone and gravel quarry lease area over an extent of 2.88.5Ha at S.F.Nos.186/1, 190/2B1 & 190/2B2 Kundiyanthandalam Village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu by Thiru.A.Dasarathan – Amendment of Environmental Clearance.	7974	<p>The authority noted that this proposal was placed for appraisal in this 378<sup>th</sup> SEAC meeting held on 11.05.2023 and the SEAC decided to recommend for the amendment for the change in school name for CER activity from Panchayat Union Primary School, Gandhi Nagar, Karamadai to Panchayat Union Primary School, Kundiyantahandalam Village, Vembakkam Taluk, Tiruvannamalai District, in point no.4 of page no.10 and point no.1 of page no.17 in regard to Environmental Clearance issued vide Lr.No.SEIAA-TN/F.No.7974/1(a)/EC.No:5077/2020 dated: 31.05.2022.</p> <p>All the conditions &amp; validity mentioned in the Environmental Clearance issued vide Lr.No. SEIAA-TN/F.No.7974/1(a)/EC.No:5077/2020 dated: 31.05.2022 will remain unchanged and unaltered.</p> <p>In this connection, the authority after detailed discussion has decided to accept the recommendation of SEAC and to grant amendment for the change in school for CER activity from Panchayat Union Primary School, Gandhi Nagar, Karamadai to</p>

  
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			Panchayat Union Primary School, Kundiyantahandalam Village, Vembakkam Taluk, Tiruvannamalai District, in point no.4 of page no.10 and point no.1 of page no.17 in regard to Environmental Clearance issued vide Lr.No.SEIAA-TN/F.No.7974/1(a)/EC.No:5077/2020 dated: 31.05.2022 subject to all the conditions & validity mentioned in the Environmental Clearance issued vide Lr.No.SEIAA-TN/F.No.7974/1(a)/EC.No:5077/2020 dated: 31.05.2022 remains unchanged and unaltered.
15.	Existing Multi-Colour Granite quarry over an extent of 4.40.5 Hectares at S.F.No 494/1 & 494/2, Nadanthai Village, Paramathivelur Taluk, Namakkal District, Tamil Nadu by Tmt. L. Selvi – Extension of validity for Environmental Clearance.	4957	<p>The authority noted that this proposal was placed for appraisal in this 378<sup>th</sup> SEAC meeting held on 11.05.2023 and the SEAC to defer and to seek additional particulars</p> <ol style="list-style-type: none"> <li>Copy of Certified Compliance report.</li> <li>Copy of valid Scheme of Mining Plan.</li> <li>Existing pit - Status letter from AD, Dept of Geology &amp; Mining.</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 11.05.2023.</p>
16.	Existing Limestone quarry lease area over an extent of 3.57.0Ha at S.F.Nos:14/3A(P), 14/3B(P), 15/1A(P), 15/1B(P), 18/3A, 18/3B & 18/3C of Vayalapadi Village, Kunnam Taluk, Perambalur District, Tamil Nadu by M/s. Samayapuram Vel Industries Private Ltd- For Extension of	6211	<p>The Authority noted that the subject was appraised in the 378<sup>th</sup> SEAC meeting held on 11.05.2023. SEAC has furnished its recommendations for granting Environmental Clearance Extension 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 Extension for the</b></p>

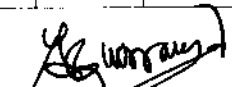
  
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<p>validity of Environmental Clearance.</p>	<p><b>quantity of ROM – 162033 Ts, Lime stone @ 98% Recovery – 158792.34 Ts and Mineral Reject – 3240.66 Ts for the depth of mining up to 26m BGL as per the Review of mining plan approved by the IBM for the period of scheme of mining 2023-24 to 2027-28. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</b></p> <ol style="list-style-type: none"> <li>1. Keeping in view of MoEF&amp;CC notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</li> <li>2. The proponent shall submit Certified Compliance Report obtained from IRO, MoEF&amp;CC not older than 1 year from the date of inspection by the concerned authority before obtaining CTO from TNPCCB.</li> <li>3. The Environmental Clearance issued is only for the Lime stone @ 98% Recovery.</li> <li>4. The EC granted is subject to review by District Collector, Mines Dept. and TNPCCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</li> <li>5. 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> </ol>
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			<p>6. 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>7. 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>
17.	Existing Multi-Coloured Granite quarry over an extent of 2.44.0 Ha located at S.F.Nos: 411/4B (Part), Kannanallur Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu by M/s. K.A.S. Rock Exports - For Extension of validity for Environmental Clearance.	5308	<p>The Authority noted that the subject was appraised in the 378<sup>th</sup> SEAC meeting held on 11.05.2023. During the meeting, the PP informed the Committee that he intends to withdraw this extension application and apply afresh for EC. The SEAC had agreed to defer the file for facilitating the above withdrawal of application as requested by the PP.</p> <p>In view of the above, the authority after detailed discussion decided to accept the recommendation of SEAC and the proponent is directed to apply for request for withdraw through online for the proposal seeking Extension of validity of EC vide SIA/TN/MIN/298073/2023 Dt: 25.02.2023 with request letter with proper justification.</p> <p>Also, the project proponent shall apply for Fresh EC with mandatory documents with letter from AD, Dept. of Geology &amp; Mining regarding existing pit dimension with remarks of violation if any, &amp; last transport permit details.</p>

  
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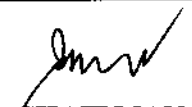
  
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			In view of the above, Authority decided to request the Member Secretary, SEIAA to communicate the minutes to the project proponent.
18.	Existing Multi Colour Granite quarry lease area over an extent of 1.17.0Ha at S.F No.268/6, 268/7(P), 268/9, 268/10, 268/11(P) & 269/1 of Parambur Village, Illuppur Taluk, Pudukottai District, Tamil Nadu by Tmt. D. Adaikalamary - For amendment in Environmental Clearance.	2172	<p>The Authority noted that the subject was appraised in the 378<sup>th</sup> SEAC meeting held on 11.05.2023. During the meeting, the PP informed the Committee that he intends to withdraw this amendment application and apply afresh for EC. The SEAC had agreed to defer the file for facilitating the above withdrawal of application as requested by the PP.</p> <p>In view of the above, the authority after detailed discussion decided to accept the recommendation of SEAC and the proponent is directed to apply for request for withdraw through online for the proposal seeking EC Amendment vide SIA/TN/MIN/298304/2023 Dt: 03.03.2023 with request letter with proper justification.</p> <p>Also, the project proponent shall apply for Fresh EC with mandatory documents with letter from AD, Dept. of Geology &amp; Mining regarding existing pit dimension with remarks of violation if any, &amp; last transport permit details.</p> <p>In view of the above, Authority decided to request the Member Secretary, SEIAA to communicate the minutes to the project proponent.</p>
19.	Proposed Residential Development at S.Nos.166/1A, 166/1B, 166/2, 166/3A, 166/3B, 166/4A, 166/4B, 166/5A, 166/5B, 166/15A1 of Karapakkam village, Sholinganallur Taluk, Kanchipuram District, Tamil Nadu	1843	<p>The Authority noted that the subject was appraised in the 378<sup>th</sup> SEAC meeting held on 11.05.2023. Based on the presentation made and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Extension of validity of Environmental Clearance <b>valid upto 29.06.2025</b> subject to the all the conditions stipulated vide EC</p>

  
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	by Mr. Pravin Jain - For Extension of validity of Environmental Clearance.		<p>Letter No. SEIAA-TN/F.No.1843/EC/8(b)/326/2013 dated: 01.07.2014.</p> <p>After detailed discussions, the Authority decided to grant Extension of validity for Environmental Clearance (EC) issued vide SEIAA letter No. SEIAA-TN/F.No.1843/EC/8(b)/326/2013 dated: 01.07.2014 valid upto 29.06.2025 subject to the following additional condition along with specific conditions stipulated by SEAC, in addition to all the conditions stipulated vide EC Letter No. SEIAA-TN/F.No. 1843/EC/8(b)/326/2013 dated: 01.07.2014.</p>
20.	Existing Multi colour granite quarry over an extent of 5.43.0 Ha at S.F. No 96/2A, 2B(P), 97/3A(P), 94/1(P), 93(P), 92/3(P), 91/2(P) & 91/1(P) of Sandhaiyur Village, Sattur Taluk, Virudhunagar District, Tamil Nadu by M/s. Siva Jeyam Granites - For Extension of validity for Environmental Clearance.	4356	<p>The Authority noted that the subject was appraised in the 378<sup>th</sup> SEAC meeting held on 11.05.2023. During the meeting, the PP informed the Committee that he intends to withdraw this extension application and apply afresh for EC. The SEAC had agreed to defer the file for facilitating the above withdrawal of application as requested by the PP.</p> <p>In view of the above, the authority after detailed discussion decided to accept the recommendation of SEAC and the proponent is directed to apply for request for withdraw through online for the proposal seeking Extension of validity of EC vide SIA/TN/MIN/294736/2023 Dt: 30.11.2022 with request letter with proper justification.</p> <p>Also, the project proponent shall apply for Fresh EC with mandatory documents with letter from AD, Dept. of Geology &amp; Mining regarding existing pit dimension with remarks of violation if any, &amp; last transport permit details.</p>

  
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			In view of the above, Authority decided to request the Member Secretary, SEIAA to communicate the minutes to the project proponent.
21.	Existing Multi Colour Granite quarry over an extent of 2.13.5 Ha at S.F. No. 1116/1A & 1116/2 of Sivayam (south) Village, Krishnarayapuram Taluk, Karur District, Tamil Nadu by Tmt. V. Shanthi - For Extension of validity for Environmental Clearance.	5875	<p>The Authority noted that the subject was appraised in the 378<sup>th</sup> SEAC meeting held on 11.05.2023. During the meeting, the PP informed the Committee that he intends to withdraw this extension application and apply a fresh for EC. The SEAC had agreed to defer the file for facilitating the above withdrawal of application as requested by the PP.</p> <p>In view of the above, the authority after detailed discussion decided to accept the recommendation of SEAC and the proponent is directed to apply for request for withdraw through online for the proposal seeking Extension of validity of EC vide SIA/TN/MIN/294807/2023 Dt: 01.12.2022 with request letter with proper justification.</p> <p>Also, the project proponent shall apply for Fresh EC with mandatory documents with letter from AD, Dept. of Geology &amp; Mining regarding existing pit dimension with remarks of violation if any, &amp; last transport permit details.</p> <p>In view of the above, Authority decided to request the Member Secretary, SEIAA to communicate the minutes to the project proponent.</p>
22.	Existing Grey Granite quarry lease area over an extent of 1.11.5Ha at S.F No.547/1B, 550/13B, 14B & 550/15 of Sivampatti Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu by Tvl.	1437	<p>The Authority noted that the subject was appraised in the 378<sup>th</sup> SEAC meeting held on 11.05.2023. During the meeting, the PP informed the Committee that he intends to withdraw this amendment application and apply afresh for EC. The SEAC had agreed to defer the file for facilitating the above withdrawal of application as requested by the PP.</p>

  
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	<p>A.G.N. Granites - For amendment in Environmental Clearance.</p>		<p>In view of the above, the authority after detailed discussion decided to accept the recommendation of SEAC and the proponent is directed to apply for request for withdraw through online for the proposal seeking EC Amendment vide SIA/TN/MIN/295010/2023 Dt: 07.12.2022 with request letter with proper justification.</p> <p>Also, the project proponent shall apply for Fresh EC with mandatory documents with letter from AD, Dept. of Geology &amp; Mining regarding existing pit dimension with remarks of violation if any, &amp; last transport permit details.</p> <p>In view of the above, Authority decided to request the Member Secretary, SEIAA to communicate the minutes to the project proponent.</p>
<p>23.</p>	<p>Recommendations for releasing the Bank guarantee for the value of Rs. 4.83 Crores remitted towards Ecological remediation, Natural resources Augmentation and Community resources Augmentation under EIA Notifications dated 14.3.2017 &amp; 08.03.2018 (violation category) for Proposed Expansion of IT Park and Change in Concept from IT building, Hotel, Residential Complex &amp; Retail Shop (Built up area 3,75,328 Sq.m) to IT Park comprising Block A-F and Utility Block, Serviced Apartment &amp; Conventional Centre (Built Up area</p>	<p>7268</p>	<p>The Authority noted that the subject was appraised in the 378<sup>th</sup> SEAC meeting held on 11.05.2023. During the meeting the PP has requested for additional time to produce the said details in tabular form with explanation for any short spending in certain categories prescribed by SEAC. Therefore, SEAC decided to take up this proposal in ensuing SEAC meeting.</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 11.05.2023.</p>

  
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	6,65,940 Sq.m) at Block No. 6, T.S. Nos. 2/3 & 3/2, Kanagam Village of Guindy-Mambalam Taluk & Block No. 4, T.S. No. 2/1, Thiruvanmiyur Village of Mylapore-Triplicane Taluk, Chennai District, Tamil Nadu by M/s. TRIL Info Park Limited.		
24.	Proposed Construction of Residential Apartments at S.F. Nos. 290/1A, 290/2A1, 290/1B, 290/2B1, 290/2C1 & 290/2D of Perumbakkam Village, Tambaram Taluk, Chengalpet District, Tamil Nadu by M/s. KG Foundations Private Limited - For amendment in Environmental Clearance.	7618	<p>The Authority noted that the subject was appraised in the 378<sup>th</sup> SEAC meeting held on 11.05.2023. SEAC has furnished its recommendations for granting Amendment in the Environmental Clearance earlier issued subject to the conditions stated therein. After detailed discussions, the Authority decided to request the Member Secretary, SEIAA-TN to obtain the following details and place before the Authority for further course of action.</p> <ol style="list-style-type: none"> <li>1. The PP shall furnish proper justification for considering the Amendment proposed to provide a Combined Sewage Treatment system (200 KLD) for both sewage and grey water generated instead of separate systems for grey water treatment (135 KLD) and sewage treatment (90 KLD) as per the EC obtained.</li> <li>2. Also, The PP shall furnish reason for reducing the capacity of Combined Sewage Treatment system (200 KLD) than the total capacity of separate systems for grey water treatment (135 KLD) and sewage treatment (90 KLD) as per the EC obtained.</li> </ol>

  
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			In view of the above, Authority decided to request the Member Secretary, SEIAA to communicate the minutes to the project proponent.
25.	Existing Rough Stone and Gravel Quarry over an Extent of 2.63.0 Ha located at S.F.No. 202/1(P) & 202/2(P) of Ekkattampalayam Village, Perundurai Taluk, Erode District, Tamil Nadu by Thiru. P. Mahendran – For Extension of validity of Environmental Clearance.	6241	The authority noted that the subject was appraised in 378 <sup>th</sup> SEAC meeting held on 11.05.2023. During the presentation, PP requested to defer the proposal. Hence, SEAC decided to defer the proposal. In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary to communicate the minutes of 376 <sup>th</sup> SEAC held on 05.05.2023 to the project proponent.

**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

  
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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 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.

  
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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 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 mycorrizal 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.

  
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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.

**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

  
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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.
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.

  
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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**

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

  
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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 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.

  
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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.
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.

  
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72. Reclamation involves planned topographical reconstruction of site. Care to be taken to minimize erosion and runoff. Topsoils should have necessary physical, chemical, 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.
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.

  
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4. Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network.
5. The committee shall deliberate on risk management plan pertaining to the cluster in a holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan.
6. The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the environmental policy devised shall be given in detail.
7. The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner.
8. The committee shall furnish the Emergency Management plan within the cluster.
9. The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public.
10. The committee shall furnish an action plan to achieve sustainable development goals with reference to water, sanitation & safety.
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.

  
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15. Details of type of vegetations including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetations all along the boundary of the proposed mining area shall committed mentioned in EMP.
16. The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.
17. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.
18. The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.

#### **Forests**

19. The project proponent shall detailed study on impact of mining on Reserve forests free ranging wildlife.
20. The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.
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.

  
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28. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts.
29. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.
30. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.

**Energy**

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

**Climate Change**

32. The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities.
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

  
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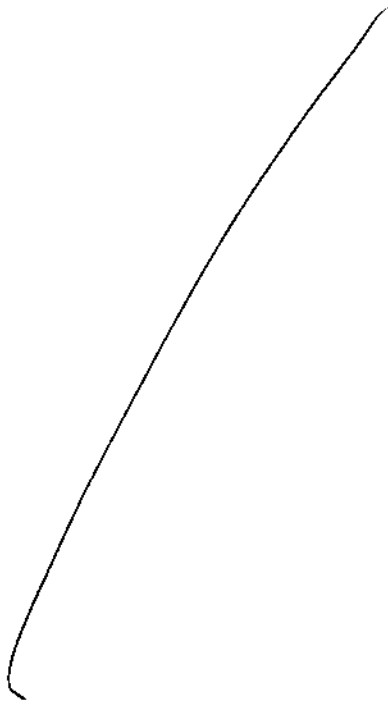
  
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related activities covering the entire mine lease period as per precise area communication order issued.

**Others**

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



  
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