

MINUTES

573rd MEETING

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

Date: 28.11.2022

MINUTES OF THE 573rd MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY HELD ON 28.11.2022.

Agenda No.	Description	File No.	Minutes
a)	Confirmation of the minutes of the 572 nd meeting of the Authority held on 26.11.2022.		The minutes of the 572 nd meeting of the Authority held on 26.11.2022 was confirmed.
b)	The Action taken on the decisions of the 572 nd meeting of the Authority held on 26.11.2022.		The Member Secretary informed that 572 nd Minutes uploaded in Parivesh wesbsite and action taken report will be putup ensuing meeting.
1.	Existing Magnesite mine Lease over an extent of 2.57.0 Ha at S.F.No.77 of Kondappanaickenpatty Village, Salem Taluk, Salem District, Tamil Nadu by Thiru.G.Pasupathifor Extension of validity for the Terms of References "Under Violation".	6137	<p>The Authority after detailed discussion accepts the recommendation of 328th SEAC meeting Dt: 11.11.2022 and the Authority has decided to grant Extension of validity for Terms of Reference (ToR) issued vide SEIAA. ToR under violation issued vide SEIAA Lr. No.SEIAA-TN/F.No.6137/ToR-399/2018, dated: 16.05.2018 (Deemed to be) valid up to 15.05.2023 subject to the additional specific ToRs as follows:</p> <ol style="list-style-type: none"> 1. The project proponent shall submit valid mining lease and scheme of mining plan obtained from the competent authority. 2. The project proponent shall submit excess mined out quantity during the violation period after 15.01.2016 along with details of existing pit within the proposed mining area and the copy of remittance of fine levied for the


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		<p>same from the concerned AD/DD, Geology & Mining Dept.</p> <ol style="list-style-type: none"> 3. The project proponent shall submit details of case filed against the project proponent under Section 19 of the Environment (Protection) Act, 1986. 4. The magnesite quarry involves raw material extraction, transportation and comminution. Therefore, large quantity of diesel and electricity are supposed to be consumed in the production. The diesel fuel and electricity to be consumed to be furnished. 5. What are the green mining technologies to be adopted for reducing GHG/CO₂ emissions and lowering the carbon footprint in magnesite mining. 6. Strategies adopted for safety and healthy mining operations. 7. What are the transparency and accountability system in place during the operation and post-operation period of the project.? 8. What are the In-House environmental performance indicators and evaluation tools to understand the negative impacts of mining? 9. Detailed study to be made on material flow analysis and Life Cycle Assessment (LCA) in the process of production.
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			<p>10. Through a chart Illustration, clarify the cradle-to-grave approach for extraction of magnesite and anticipated emissions, environmental threats in every stage, and mitigation strategy at every stage.</p> <p>11. Project Proponent to study impacts on human health viz respiratory impacts, toxicity impacts and radiation impacts.</p> <p>12. Study to be made on aquatic, terrestrial toxicity, aquatic eutrophication including detailed terrestrial toxicity and their impacts of wildlife and biodiversity.</p> <p>13. What is the total water withdrawal consumption, likely temperature rises and climate change impacts.</p> <p>14. What are the chemical exposures in the magnesite mining and risks anticipated to environmental and human health.</p>
2.	Proposed rough stone and gravel quarry lease over an extent of 2.73.2Ha at S.F.No. 872/2(P), 873(P), 882(P), 883/1, 883/2(P) and 884(P) of Appayanaickenpatti Village, Vembakottai Taluk, Virudhunagar District, Tamilnadu by M/s. R.K. Blue Metals - For Amendment in Environmental Clearance issued	8020	<p>The authority noted that the proposal was appraised in the 328th SEAC meeting held on 11.11.2022. The committee has furnished its recommendations to the authority for granting the amendment sought by PP in the EC issued earlier.</p> <p>After detailed deliberation, the Authority decided to accept the recommendations of SEAC and issue the following amendment to the Environmental clearance issued vide Lr.No.SEIAA/TN/F.No.8020/1(a)/EC/4564/2020 dated 25.02.2021 subject to the</p>


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			condition that all other conditions and validity mentioned in the EC dated 25.02.2021 will remain unchanged and unaltered.												
			<table border="1"> <thead> <tr> <th>DESCRIPTI ON</th> <th>APPROVED IN EARLIER EC dated 25.02.2021</th> <th>AMENDME NT</th> </tr> </thead> <tbody> <tr> <td>Quantity of rough stone</td> <td>2,21,055 cu.m</td> <td>1,73,735 cu.m</td> </tr> <tr> <td>Quantity of gravel</td> <td>10,115 cu.m</td> <td>1,01,155 cu.m</td> </tr> <tr> <td>Depth of mining</td> <td>25m</td> <td>20m</td> </tr> </tbody> </table>	DESCRIPTI ON	APPROVED IN EARLIER EC dated 25.02.2021	AMENDME NT	Quantity of rough stone	2,21,055 cu.m	1,73,735 cu.m	Quantity of gravel	10,115 cu.m	1,01,155 cu.m	Depth of mining	25m	20m
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Depth of mining	25m	20m													
3.	Proposed Black Granite quarry lease over an extent of 1.05.0Ha at S.F.No. 875/1 of Guttur Village, Bargur Taluk, Krishnagiri District, Tamilnadu by M/s. Jay Enterprises - For Amendment in Environmental Clearance issued	7614	<p>The authority noted that the proposal was appraised in the 328th SEAC meeting held on 11.11.2022.</p> <p>SEAC noted that the PP was issued with Environmental Clearance vide Lr.No.SEIAA/TN/F.No.7614/EC.No.4477/20 dated 12.01.2021. Now, the PP has applied for the following amendment in the existing EC issued:</p> <table border="1"> <thead> <tr> <th>DESCRI PTION</th> <th>APPRO VED IN EARLIE R EC dated 12.01.20 21</th> <th>SEEKIN G EC AMEND MENT</th> <th>REMAR KS</th> </tr> </thead> <tbody> <tr> <td>Total Producti on</td> <td>2489 cu.m</td> <td>4707 cu.m</td> <td>As per the approved</td> </tr> </tbody> </table>	DESCRI PTION	APPRO VED IN EARLIE R EC dated 12.01.20 21	SEEKIN G EC AMEND MENT	REMAR KS	Total Producti on	2489 cu.m	4707 cu.m	As per the approved				
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			Quantity of black granite			mining plan, the production quantity for 5 years is 4707 cu.m (Production at 10%) of black granite after reduction in depth to 15m.
<p>SEAC decided to recommend the above mentioned amendment in the existing EC issued to PP subject to the condition(s) stated therein.</p> <p>After detailed deliberation, the Authority decided to accept the recommendations of SEAC and issue the amendment to the Environmental clearance issued vide Lr.No.SEIAA/TN/F.No.7614/EC.No.4477/2020 dated 12.01.2021 subject to the following condition:</p> <ol style="list-style-type: none"> 1. All other conditions and validity mentioned in the EC dated 12.01.2021 will remain unchanged and unaltered 						


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4.	Existing Lime stone Mine Lease over an extent of 0.24.29Ha at S.F.No.644/4(Part) of Sirungudi Village, Natham Taluk, Dindigul District, Tamil Nadu by M/s. Sivam Mines for Extension of validity for the Terms of References "Under Violation".	6255	<p>The authority noted that the subject was appraised in 328th SEAC meeting held on 11.11.2022.</p> <p>The Authority after detailed deliberation has decided to grant Extension of validity for Terms of Reference (ToR) issued vide SEIAA. Lr. No. SEIAA-TN/F. No. 6255/TOR- 418/2018 Dated: 22.05.2018 (Deemed to be) valid up to 21.05.2023 subject to the additional specific ToRs as follows</p> <ol style="list-style-type: none"> 1. The project proponent shall submit valid mining lease and scheme of mining plan obtained from the competent authority. 2. The project proponent shall submit excess mined out quantity during the violation period after 15.01.2016 along with details of existing pit within the proposed mining area and the copy of remittance of fine levied for the same from the concerned AD/DD, Geology & Mining Dept. 3. The project proponent shall submit details of case filed against the project proponent under Section 19 of the Environment (Protection) Act, 1986. 4. The quarry activity involves raw material extraction, transportation and comminution. Therefore, large quantity of diesel and electricity are supposed to be consumed in the production. The diesel fuel and
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		<p>electricity to be consumed to be furnished.</p> <ol style="list-style-type: none"> 5. What are the green mining technologies to be adopted for reducing GHG/CO₂ emissions and lowering the carbon footprint in the limestone mining. 6. Strategies adopted for safety and healthy mining operations. 7. What are the transparency and accountability system in place during the operation and post-operation period of the project. 8. What are the In-House environmental performance and evolution tools to understand negative impacts of mining. 9. Detailed study to be made on material flow analysis and Life Cycle Assessment (LCA) in the process of production. 10. Through a chart Illustration, clarify the cradle to grave approach for extraction of mineral and anticipated emissions, environmental threats in every stage and mitigation strategy at every stage. 11. Project Proponent to study impacts on human health viz respiratory impacts, toxicity impacts and radiation impacts. 12. Study to be made on aquatic, terrestrial toxicity, aquatic eutrophication including detailed
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			<p>terrestrial toxicity and their impacts of wildlife and biodiversity.</p> <p>13. What is the total water withdrawal consumption, likely temperature rises and climate change impacts.</p> <p>14. What are the chemical exposures in the mining and risks anticipated to environmental and human health.</p>
5.	Existing Limestone Mine lease over an Extent of 4.08.5Ha in S.F.Nos.403/1A, 2, 3, 404/1, 2A, 2B1, 2B2, 2B3, 2B4, 405, 406/1, 2, 407/1A, 1B2/1, 1B2/2, 408/1A, 1B, 1C, 2, 3, 409/1, 2A & 2B at Abishekapatti Village of Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by M/s. Sree Ganapathi Mines for Extension of validity for the Terms of References "Under Violation".	6563	<p>The authority noted that the subject was appraised in 328th SEAC meeting held on 11.11.2022.</p> <p>The Authority after detailed deliberation has decided to grant Extension of validity for Terms of Reference (ToR) issued vide SEIAA. Lr. No. SEIAA-TN/F. No. 6563/ToR-331/2018/ dated 10.05.2018 (Deemed to be) valid up to 09.05.2023 subject to the additional specific ToR as follows</p> <ol style="list-style-type: none"> 1. The project proponent shall submit valid mining lease and scheme of mining plan obtained from the competent authority. 2. The project proponent shall submit excess mined out quantity during the violation period after 15.01.2016 along with details of existing pit within the proposed mining area and the copy of remittance of fine levied for the same from the concerned AD/DD, Geology & Mining Dept. 3. The project proponent shall submit details of case filed against the project


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			<p>environmental threats in every stage and mitigation strategy at every stage.</p> <p>11. Project Proponent to study impacts on human health viz respiratory impacts, toxicity impacts and radiation impacts.</p> <p>12. Study to be made on aquatic, terrestrial toxicity, aquatic eutrophication including detailed terrestrial toxicity and their impacts of wildlife and biodiversity.</p> <p>13. What is the total water withdrawal consumption, likely temperature rises and climate change impacts.</p> <p>14. What are the chemical exposures in the mining and risks anticipated to environmental and human health.</p>
6.	Existing Quartz and Feldspar Mine Lease over an extent of 3.35.0Ha at S.F.No. 106 of Periyagoundampalayam Village, Namakkal Taluk, Namakkal District, Tamil Nadu by M/s. A.R. Minerals, Quartz & Feldspar mine for Extension of validity for the Terms of References "Under Violation".	6136	<p>The authority noted that the subject was appraised in 328th SEAC meeting held on 11.11.2022.</p> <p>The Authority after detailed deliberation has decided to grant Extension of validity for Terms of Reference (ToR) issued vide SEIAA. Lr. No. SEIAA-TN/F. No. 6136/TOR-446/2018 Dated: 01.06.2018 (Deemed to be) valid up to 31.05.2023 subject to the additional specific ToRs as follows</p> <ol style="list-style-type: none"> 1. The project proponent shall submit valid mining lease and scheme of mining plan obtained from the competent authority. 2. The project proponent shall submit excess mined out quantity during the


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		<p>violation period after 15.01.2016 along with details of existing pit within the proposed mining area and the copy of remittance of fine levied for the same from the concerned AD/DD, Geology & Mining Dept.</p> <ol style="list-style-type: none"> 3. The project proponent shall submit details of case filed against the project proponent under Section 19 of the Environment (Protection) Act, 1986. 4. The quarry activity involves raw material extraction, transportation and comminution. Therefore, large quantity of diesel and electricity are supposed to be consumed in the production. The diesel fuel and electricity to be consumed to be furnished. 5. What are the green mining technologies to be adopted for reducing GHG/CO₂ emissions and lowering the carbon footprint in the limestone mining. 6. Strategies adopted for safety and healthy mining operations. 7. What are the transparency and accountability system in place during the operation and post-operation period of the project. 8. What are the In-House environmental performance and evolution tools to understand negative impacts of mining.
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			<p>9. Detailed study to be made on material flow analysis and Life Cycle Assessment (LCA) in the process of production.</p> <p>10. Through a chart Illustration, clarify the cradle to grave approach for extraction of mineral and anticipated emissions, environmental threats in every stage and mitigation strategy at every stage.</p> <p>11. Project Proponent to study impacts on human health viz respiratory impacts, toxicity impacts and radiation impacts.</p> <p>12. Study to be made on aquatic, terrestrial toxicity, aquatic eutrophication including detailed terrestrial toxicity and their impacts of wildlife and biodiversity.</p> <p>13. What is the total water withdrawal consumption, likely temperature rises and climate change impacts.</p> <p>14. What are the chemical exposures in the mining and risks anticipated to environmental and human health.</p>
7.	Existing Lime Stone Mine Lease over an extent of 1.01.5Ha at S.F. No.15/1A (Part) & 17/4 of Vayalapadi Village, Kunnam Taluk, Perambalur District, Tamil Nadu by M/s. Govindarajapattinam Human Power and Social Development Society for Extension of validity	6262	<p>The authority noted that the subject was appraised in 328th SEAC meeting held on 11.11.2022.</p> <p>The Authority after detailed deliberation has decided to grant Extension of validity for Terms of Reference (ToR) issued vide SEIAA. Lr. No. SEIAA-TN/F. No. 6262/M-CIII/TOR- 306/2017 Dated: 05.03.2018</p>



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	<p>for the Terms of References "Under Violation".</p>	<p>(Deemed to be) valid up to 04.03.2023 subject to the additional specific ToRs as follows</p> <ol style="list-style-type: none"> 1. The project proponent shall submit valid mining lease and scheme of mining plan obtained from the competent authority. 2. The project proponent shall submit excess mined out quantity during the violation period after 15.01.2016 along with details of existing pit within the proposed mining area and the copy of remittance of fine levied for the same from the concerned AD/DD, Geology & Mining Dept. 3. The project proponent shall submit details of case filed against the project proponent under Section 19 of the Environment (Protection) Act, 1986. 4. The quarry activity involves raw material extraction, transportation and comminution. Therefore, large quantity of diesel and electricity are supposed to be consumed in the production. The diesel fuel and electricity to be consumed to be furnished. 5. What are the green mining technologies to be adopted for reducing GHG/CO₂ emissions and lowering the carbon footprint in the limestone mining. 6. Strategies adopted for safety and healthy mining operations.
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		<ol style="list-style-type: none"> 7. What are the transparency and accountability system in place during the operation and post-operation period of the project. 8. What are the In-House environmental performance and evolution tools to understand negative impacts of mining. 9. Detailed study to be made on material flow analysis and Life Cycle Assessment (LCA) in the process of production. 10. Through a chart Illustration, clarify the cradle to grave approach for extraction of mineral and anticipated emissions, environmental threats in every stage and mitigation strategy at every stage. 11. Project Proponent to study impacts on human health viz respiratory impacts, toxicity impacts and radiation impacts. 12. Study to be made on aquatic, terrestrial toxicity, aquatic eutrophication including detailed terrestrial toxicity and their impacts of wildlife and biodiversity. 13. What is the total water withdrawal consumption, likely temperature rises and climate change impacts. 14. What are the chemical exposures in the mining and risks anticipated to environmental and human health.
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8.	Existing Grey Granite Quarry over an extent of 1.95.5 Ha at S.F. Nos. 133/1, 133/5, Kondappanayanapalli Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. S.M. Exports for Extension of validity for the Terms of References "Under Violation".	6591	The authority noted that the subject was appraised in 328 th SEAC meeting held on 11.11.2022. During the presentation, the proponent requested time to furnish additional details. Hence, the proposal will be taken up for appraisal in the ensuing meeting. In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary to communicate the minutes of 328 th SEAC to the project proponent.
9.	Existing Multi Colour Granite quarry lease over an extent of 4.94.5 Ha in S.F.No. 142/1 Sullipalayam Village, Paramathivelur Taluk, Namakkal District, Tamil Nadu by Thiru P. Mayilvaganam - Extension for Environmental Clearance	3824	The Authority noted that this proposal was placed for appraisal in this 328 th meeting of SEAC held on 11.11.2022 and based on the presentation made by the PP, SEAC decided that the replies given are inadequate and decided to call for detailed replies to the queries raised by SEIAA. On receipt of the above details, SEAC would further deliberate on this project and decide the further course of action 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 11.11.2022.
10.	Extension of validity of existing Multi coloured Granite Quarry lease over an extent of 2.75.5 Ha in S.F.Nos.483/2A of Nadanthai Village, Paramathivelur Taluk, Namakkal District, Tamil Naduby	5870	The authority noted that the subject was appraised in 328 th SEAC meeting held on 11.11.2022. Based on the presentation made by the PP, SEAC decided that the replies given are


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	M/s. M.M. Exports - Extension of validity of Environmental Clearance		<p>inadequate and decided to call for detailed replies to the queries raised by SEIAA.</p> <p>On receipt of the above details, SEAC would further deliberate on this project and decide the further course of action.</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 328th SEAC to the project proponent.</p>
11.	Existing Mothaiyanur Lime Stone quarry over an Extent of 8.00.5Ha in SF.No.48.63 & 66 of Chinnagoundanur Village, Sankari Taluk, Salem District, Tamil Nadu by M/s.The India Cements Limited - for Amendment to the Terms of Reference already Issued "Under Violation".	6856	<p>The Authority noted that SEAC has recommended for the issue of amendment to the Terms of Reference issued vide T.O Lr. No.SEIAA-TN/F.No.6856/SEAC/ToR-847/2019 Dated:17.02.2021 subject to the conditions stated therein. After detailed discussion, the Authority decided to accept the recommendations of SEAC and decided to issue the following amendment to the Terms of Reference.</p> <p>(1) <u>Page number 2 of 24 of the ToR, Point no.1:</u> EIA study shall match the proposed scheme of mining</p> <p>(2) <u>Page number 2 of 24 6th line</u> Chinnagoundar lime stone quarry changed as Mothaiyanur limestone mine (south)</p> <p>(3) <u>Page number 4 of 24 of the ToR, Point no.7(a):</u> EIA study shall match the proposed scheme of mining</p> <p>(4) <u>Page number 4 of 24 Point No.8</u></p>


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			<p>The name of the project in the subject of the ToR replaced as 'Mothaiynur Limestone Mine (south)</p> <p>All the other conditions mentioned in the ToR vide Lr No.SEIAA-TN/F.No.6856/SEAC/ToR-847/2019 Dated: 17.02.2021 remain unaltered.</p>
12.	<p>Proposed Rough stone & gravel quarry lease area over an extent of 1.07.5 Ha at .F. No. 59/13, 59/14, 59/15,59/16, 59/17, 59/18 & 59/19, Brammadesam Village, Marakkanam Taluk, Viluppuram District, Tamil Nadu by Thiru.R.Vadivel - For Environmental Clearance</p>	7064	<p>The Authority after detailed discussion with reference to specific condition (1) of SEAC, SEIAA decided to grant Environmental Clearance for a period of 5 years confining to the ultimate depth of mining upto 22m BGL & the total production quantity of 71510 m3 of Rough Stone and 13254 m3 of Gravel and the annual peak production shall not exceed 15455 m3 of Rough Stone & 7002 m3 of Gravel as per approved mining plan issued by the Department of Geology & Mining subject to the standard conditions as per Annexure - (I) & all other specific conditions as recommended by SEAC & other normal conditions stipulated by MOEF&CC in addition to the following conditions & Conditions stated vide Annexure 'A'.</p> <p>1. 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 revised CER cost is Rs. 5 Lakhs and the amount shall be spent for the committed activities before SEAC such as 1. Renovation or</p>


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		<p>Reconstruction of Existing Toilets for Boys/Girls with 24x7 water supply, 2. Hand washing unit with tap facility, 3. Napkin incinerator – 2 Nos., 3. Painting for the class room, 4. Library book related to Environmental subject, 5. Tree plantation to the Gandhiji Higher Sec School, Kilvisiri Village before obtaining CTO from TNPCB.</p> <ol style="list-style-type: none"> 2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961. 3. The project proponent shall obtain prior permission from Regional Inspector of <i>Directorate General of Mines Safety, Chennai</i> before obtaining CTO from TNPCB. 4. The PP shall send the notice of opening to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB. 5. The proponent shall create a separate bank account and shall deposit the cost allocated for the committed EMP activities every year and the said expenditure details spent on the committed EMP activities shall be maintained & periodically submitted to TNPCB.
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			6. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
13.	Proposed Rough stone and Gravel quarry over an extent of 1.00.0 Ha in S.F.No. 21/5B (P) at Marapparai Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu by Thiru. K.Periyasamy- For Environmental Clearance.	7774	After detailed discussion, authority decided to call for the following details from the project proponent. i) The Project proponent shall furnish copy of permission obtained from Director Mines Safety in regard to proposed (Existing) Rough Stone Quarry as per Rule 36 (1-A) (a) of TNMMCR,1959.
14.	To consider the proposal for the grant of Environmental Clearance for Proposed Rough stone and Gravel quarry project over an extent of 1.16.0 Ha in S.F.No.22/2 at Marapparai Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu by Thiru. S. Nandhakumar.	8268	After detailed discussion, authority decided to call for the following details from the project proponent. i) The Project proponent shall furnish copy of permission obtained from Director Mines Safety in regard to proposed (Existing) Rough Stone Quarry as per Rule 36 (1-A) (a) of TNMMCR,1959.
15.	Proposed Multi Colour Granite quarry over an extent of 1.76.0 Ha at S.F.No: 22/7A, 22/8, 22/9, 22/10, 39/1, 39/3, Thonugal village, Kariyapatti Taluk, Virudhunagar District, Tamil Nadu by	8425	The authority noted that the subject was appraised in 328 th SEAC meeting held on 11.11.2022. Based on the presentation made by the PP, SEAC noted that 1. The PP had applied for NOC from the Director, Department


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	Thiru.S.Thirumavalavan- For Environmental Clearance.		<p>of Geology and Mining and had requested for additional time to submit the NOC before Committee.</p> <p>Hence, upon the receipt of NOC from Director, Department of Geology and Mining, the proposal will be taken up for further appraisal.</p> <p>In the view of the above, Authority accepts the decision of SEAC and decided to request Member Secretary to communicate the above minutes to the project proponent.</p>
16.	Proposed Gravel quarry lease over an extent of 3.20.0 Ha at S.F.Nos. 117/3, 117/4, 117/5 & 112 of T. Pudukkottai Village, Manamadurai Taluk, Sivagangai District, Tamil Nadu by Thiru.K.Neelamegam - For Environmental Clearance	9018	<p>The Authority noted that this proposal was placed for appraisal in this 328th meeting of SEAC held on 11.11.2022 and during the presentation, the PP has requested additional time to submit the further details as sought by the Authority. Hence, the Committee decided to defer this 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 11.11.2022.</p>
17.	Proposed Rough stone quarry over an extent of 1.20.0 Ha in S.F.No. 208 (Part 3) of Paravakkal Village, Peranampattu Taluk, Vellore District, Tamil Nadu by Thiru D. Baskaran for Environmental Clearance	9062	<p>The authority noted that the subject was appraised in 328th SEAC meeting held on 11.11.2022.</p> <p>Based on the presentation made by the PP, SEAC noted that the PP submitted that he needed further time to furnish clarifications to the queries raised by SEIAA in it's 557th Authority meeting. Hence, upon the receipt of</p>


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			<p>above details, SEAC will take up the proposal for further appraisal.</p> <p>In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary to communicate the minutes of 328th SEAC to the project proponent.</p>
18.	<p>Proposed Pandalgudi Lime Kankar Beneficiation Plant Stand Alone Facility at S.F.Nos. Parts of 75/1, 75/2, 76/1, 76/2, 76/3A, 76/3B, 77/1 & 77/2 of Thummakkundu Village, Aruppukottai Taluk, District Virudhunagar, Tamil Nadu by M/s. The Ramco Cements Limited - For Environmental Clearance</p>	9236	<p>The Authority noted that SEAC has recommended for the grant of Environmental Clearance for the project subject to the conditions stated therein. After detailed discussion, the Authority decided to grant Environmental Clearance subject to the conditions as recommended by SEAC & other normal conditions stipulated by MOEF&CC in addition to the following conditions & Conditions stated vide Annexure 'A':</p> <p>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 revised CER cost is Rs. 75 lakh and shall be spent for committed activities (of which Rs.50 Lakh shall be contributed for developing coastal mangrove forests in the district of Ramanathapuram, Tamil Nadu, through the State Forest Department) before obtaining CTO from TNPCB.</p>
19.	<p>Proposed Limestone Mining at the existing "Madukkarai</p>	9355	<p>The Authority noted that SEAC has decided to defer the proposal as the Project</p>


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	Limestone mine (Area: 2.71 ha.) of Production Capacity of 800 TPA of Limestone located at Kurichi village, Coimbatore Taluk and District, Tamil Nadu by M/s. ACC Limited - For Terms of Reference.		Proponent was absent for the SEAC meeting. The Authority, decided to request the Member Secretary, SEIAA TN the communicate the SEAC minutes to the Proponent.
20.	Proposed Rough stone and gravel quarry lease over an extent of 1.66.0 Ha at S.F.No. 367/2A (Part), Morattupalayam Village, Uthukuli Taluk, Tiruppur District, Tamil Nadu by Tmt.R.Chitra - For Environmental Clearance.	7857	The Authority noted that SEAC has called or the following additional particulars from the Project Proponent. The Authority, decided to request the Member Secretary, SEIAA TN the communicate the SEAC minutes to the Proponent. <ol style="list-style-type: none"> 1. Certified compliance report for the existing quarry. 2. Revised EMP in the format prescribed by the Committee.
21.	<p>File No: 9357</p> <p>Proposed Rough stone and gravel Quarry lease over an extent of 2.02.0 Ha at S.F.No. 482/2C in Munnur Village, Pugalur Taluk, Karur District, Tamilnadu by Tmt.N.Latha - For Terms of Reference.</p> <p>The authority noted that the proposal was appraised in the 328th SEAC meeting held on 11.11.2022. Based on the documents furnished and the detailed presentation made by the Proponent, the Committee had deliberated on the replies furnished by the PP and decided to reiterate the recommendations already made in the 312th meeting of SEAC held on 16.09.2022.</p> <p>The authority after detailed deliberations decided to consider the request of the proponent after obtaining the following:</p> <ol style="list-style-type: none"> i) The proponent shall furnish a letter from the Director/ Asst. Director, Department of Geology and mining clearly stating the details of existing quarries, proposed quarries, lease expired quarries and abandoned quarries 		


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separately that are situated within the radius of 500m from the proposed project site in the following format:

1. Existing Quarries:

Sl.No	Name of the lessee/permit holder	Name of the Mineral	Taluk & Village	S.F.No	Extent (in.hect)	Lease Period

2. Proposed Quarries:

Sl.No	Name of the lessee/permit holder	Name of the Mineral	Taluk & Village	S.F.No	Extent (in.hect)	Lease Period

3. Lease expired quarries:

Sl.No	Name of the lessee/permit holder	Name of the Mineral	Taluk & Village	S.F.No	Extent (in.hect)	Lease Period

4. Abandoned Quarries:

Sl.No	Name of the lessee/permit holder	Name of the Mineral	Taluk & Village	S.F.No	Extent (in.hect)	Lease Period

22.	Proposed Rough stone & gravel quarry lease over an extent of 2.05.0Ha at S.F.No. 1066/1(P) of Thennilai (East) Village, Pugalur Taluk, Karur District, Tamil Nadu by Tmt.L.Kamalam - For Terms of Reference.	9358	<p>The authority noted that this proposal was placed for appraisal in 328th meeting of SEAC held on 11.11.2022 and the SEAC recommended the request made by the PP for withdrawal of this ToR application which may be considered by SEIAA.</p> <p>After detailed discussion the authority decided to obtain the following details from the PP,</p> <p>(i) The PP shall furnish revised 500m Radius cluster letter from AD/DD, mines showing Expired</p>
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			<p>and abandoned quarry details separately.</p> <p>(ii) Whether EC obtained for the existing quarry M/s.Tvl.Karur Blue Metals, if so, then why permit has not been obtained.</p> <p>(iii) If the proponent M/s.Tvl.Karur Blue Metals has already carried out the mining activity in the proposed mining lease area, then the proponent shall furnish the following details from AD/DD, mines,</p> <p>a. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?</p> <p>b. Quantity of minerals mined out.</p> <p>c. Actual depth of the mining achieved earlier.</p>
23.	Proposed Rough stone and Gravel Quarry lease over an extent of 2.70.0 Ha at S.F.Nos. 471/1 of Melur/ Chockkalingapuram Village, Melur Taluk, Madurai District, Tamil Nadu by Thiru. G. Karuppanan- For Terms of Reference.	9382	<p>The authority noted that the subject was appraised in 328th SEAC meeting held on 11.11.2022.</p> <p>Based on the presentation made by the proponent SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing. After detailed deliberations, the Authority accepted the recommendations of SEAC and decided to grant Terms of</p>

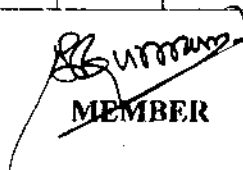

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		<p>Reference subject to the conditions as recommended by SEAC in addition to the following conditions and conditions stated therein vide Annexure 'B':</p> <ol style="list-style-type: none"> 1. The 'No Objection Certificate' from the Panchayat Union / PWD Department applicable to this Water body/Tank for carrying out the quarrying operations shall be submitted along with EIA report. 2. The PP shall submit a detailed report regarding the impact of mining on the water body. 3. The impact of mining on the surface water flow and subterranean water. 4. Further, due to the proposed mining activity, the surface water which contributes to the tank will get affected. Hence, the proponent is requested to submit a report regarding the mitigation measures that will be adopted regarding the same. 5. The proponent shall submit the details regarding soil erosion that will occur due to the mining activity and subsequently the effect of siltation in the tank. 6. The proponent shall submit a 'Standard Operating Procedure' (SoP) laid for water ingress and water egress situation in the proposed quarrying operation considering the existence of the above-mentioned water body.
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24.	Note to consider the grant of Environmental Clearance under Violation for the Construction of additional buildings for engineering college, hostel and bank in its existing campus at S.F. No. 353/1, 2, 354/1, 356/3A, 357/1DPt, 358/2A, 2C, 2D, 359/1A, 1B, 360/1C, 1DPt, 361/3A, 362/1B Pt, 1C, 2A, 2B, 363/1B, 2, 3, 365/1A, 2, 366/1A, 1A1A2, 366/1A2, 1B & 372/2 of Saravanampatti Village. Coimbatore North Taluk, Coimbatore District by M/s. KGISL Trust	371	The Authority noted that SEAC has decided to defer the proposal as the Project Proponent was absent for the SEAC meeting. The Authority, decided to request the Member Secretary, SEIAA TN the communicate the SEAC minutes to the Proponent.				
25.	Amendment in the Environmental Clearance issued to the Proposed rough stone, jelly and gravel quarry lease area over an extent of 0.65.5 Ha at S.F. No. 438 Melamadai Village, Sattur Taluk, Virudhunagar District, Tamil Nadu by Thiru. A. Sabapathy- For Amendment in Environmental Clearance	8841	SEAC has furnished its recommendations to the Authority for granting amendment in Environmental Clearance issued to the Project subject to the conditions stated therein. After detailed discussion, SEIAA decided to grant amendment in Environmental Clearance issued for the following. <table border="1" data-bbox="863 1541 1433 1977"> <thead> <tr> <th data-bbox="863 1541 1145 1742">Lr No. SEIAA-TN/F.No. 8841/EC.No.5212/20 22 DT. 22.8.2022</th> <th data-bbox="1145 1541 1433 1742">Amendment Recommended</th> </tr> </thead> <tbody> <tr> <td data-bbox="863 1742 1145 1977">As accepted by the Project proponent the revised CER cost is Rs. 2.5 lakh and the amount shall be spent</td> <td data-bbox="1145 1742 1433 1977">As accepted by the Project proponent the revised CER cost is Rs. 2.5 lakh and the amount shall be spent</td> </tr> </tbody> </table>	Lr No. SEIAA-TN/F.No. 8841/EC.No.5212/20 22 DT. 22.8.2022	Amendment Recommended	As accepted by the Project proponent the revised CER cost is Rs. 2.5 lakh and the amount shall be spent	As accepted by the Project proponent the revised CER cost is Rs. 2.5 lakh and the amount shall be spent
Lr No. SEIAA-TN/F.No. 8841/EC.No.5212/20 22 DT. 22.8.2022	Amendment Recommended						
As accepted by the Project proponent the revised CER cost is Rs. 2.5 lakh and the amount shall be spent	As accepted by the Project proponent the revised CER cost is Rs. 2.5 lakh and the amount shall be spent						


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			<p>for the following activities before obtaining CTO from TNPCB.</p> <p>Govt Hr. Sec School. Karungal</p> <ol style="list-style-type: none"> 1. Renovation to school toilets with running water. 2. Improvements to school infrastructure in consultation with HM. 3. Books to school library including books on environment. 4. Planting of trees in and around the school (As per Appendix-I). 	<p>for the following activities before obtaining CTO from TNPCB.</p> <p>Govt Hr. Sec School. Nathatupatti</p> <ol style="list-style-type: none"> 1. Provision of Bore well , R.O Drinking water facilities . 2. Camara for School campus 3. Rack for library with Books 4. Planting of trees in and around the school (As per Appendix-I).
			<p>Conditions already imposed in the EC vide Lr No. SEIAA-TN/F.No. 8841/EC.No.5212/2022 DT. 22.08.2022 are unaltered.</p>	
26.	Amendment of Terms of Reference issued for the proposed Rough stone & Gravel quarry lease over an extent of 4.42.0 Ha at S.F.No. 58/1A, 58/1B, 58/2A, 58/2B, 58/3, 58/6, 58/7, 58/8A,	9227	<p>The Authority after detailed discussion accepts the recommendation of 328th SEAC meeting held on Dt: 11.11.2022 and the Authority has decided to grant amendment of Terms of Reference issued Dt:14.07.2022 for the proposed Rough Stone & Gravel quarry</p>	


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	58/8B, 59/2A, 61/1B, 61/2A, 61/2B, 61/3, 61/4A, 61/5A and 61/6, Kaganam Village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu by Thiru R. Kathirvelu		over an extent of 4.42.0 Ha instead of 2.02.05 Ha subject to all the conditions/ToRs stipulated remains unaltered issued vide SEIAA Lr. No.SEIAA-TN/F.No.9227/SEAC/ToR-1195/2022 Dated :14.07.2022.
27.	Proposed Rough stone quarry project over an extent of 1.40.0 Ha in S.F.No. 22/4 (Part) at Marapparai Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu by Tmt.B.Mekala- For Environmental Clearance.	8445	After detailed discussions, the Authority decided to call for the following details from the project proponent. <ul style="list-style-type: none"> The Project proponent shall furnish copy of permission obtained from Director Mines Safety, Dept. of Geology & Mining, Tamil Nadu in regard to proposed Rough stone quarry lie within 300m radius from the inhabited sites and for method of mining (blasting technique) as per Rule 36 (1-A) (a) of TNMMCR,1959.
28.	Proposed Rough stone & Gravel quarry lease over an extent of 2.02.3 ha at S.F. Nos. 176/1A, 176/5A, 176/6A - Marapparai & 316/2B2 - Paruthipalli, Marapparai & Paruthipalli Village Tiruchengode Taluk, Namakkal District Tamil Nadu by Thiru. S.Rangasamy - For Environmental Clearance.	8312	After detailed discussions, the Authority decided to call for the following details from the project proponent. <p>The Project proponent shall furnish copy of permission obtained from Director Mines Safety, Dept. of Geology & Mining, Tamil Nadu in regard to proposed Rough stone quarry lie within 300m radius from the inhabited sites and for method of mining (blasting technique) as per Rule 36 (1-A) (a) of TNMMCR,1959.</p>
29.	Proposed Rough stone and Gravel quarry project over an extent of 0.90.25 Ha in S.F.Nos. 176/2, 176/3 (P) & 176/11 (P) at	8179	After detailed discussions, the Authority decided to call for the following details from the project proponent. <p>The Project proponent shall furnish copy of</p>


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	Marapparai Village , Tiruchengode Taluk, Namakkal District, Tamil Nadu by Thiru. M.Krishnan- For Environmental Clearance		permission obtained from Director Mines Safety, Dept. of Geology & Mining, Tamil Nadu in regard to proposed Rough stone quarry lie within 300m radius from the inhabited sites and for method of mining (blasting technique) as per Rule 36 (1-A) (a) of TNMMCR,1959.
30.	Proposed Rough stone and Gravel quarry lease over an extent of 1.00.0 ha at S.F.Nos 20/2B (Part) and 21/5C (part) Marapparai Village, Tiruchengode Taluk, Namakkal District Tamil Nadu by Thiru. R. Paramasivam	7773	After detailed discussions, the Authority decided to call for the following details from the project proponent. The Project proponent shall furnish copy of permission obtained from Director Mines Safety, Dept. of Geology & Mining, Tamil Nadu in regard to proposed Rough stone quarry lie within 300m radius from the inhabited sites and for method of mining (blasting technique) as per Rule 36 (1-A) (a) of TNMMCR,1959.
31.	Proposed construction of Residential Building at S.F.No 101/1A, 1B, 2, 3A, 3B, 102/1A, 1B, 2, 103, 104/1A, 1B, 1C, 1D, 1E1, 1E2, 2A, 2B, 2C, 3A, 3B, 105/1A, 2A, 1B, 2B1, 2B2, 2C1, 2C2, 3A, 3B, 4A1, 4A2, 4B1, 4B2, 4C1, 4C2, 4C3A, 4C3B, 4C4, 5A, 5B, 116/1A, 1B, 1C, 2, 3A, 3B, 3C, 3D, 4, 5A, 5B, 5C, 6, 117/1A, 1B, 1C, 2A, 2B, 2C, 118/1, 2A, 2B, 2C, 2D, 3A, 3B, 119/2A, 2B1, 2B2, 2B3, 2B4, 2C, 2D, 2E, 120, 121/1A, 1B, 1C, 1D,	9441	After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Environmental Clearance for a period of 7 Years subject to the conditions as recommended by SEAC & normal condition in addition to the following conditions 1. The proponent shall provide STP of adequate capacity as committed and shall continuously & efficiently operate STP so as to satisfy the treated sewage discharge standards prescribed by the TNPCB time to time.


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<p>2, 3A, 3B, 3C, 3D, 4A, 4B, 122/1A1B of Nemmeli Village, Thirupporur Taluk, Chengalpet District, Tamilnadu by M/s. KAIRAV Developers Limited - For Environmental Clearance.</p>	<ol style="list-style-type: none"> 2. The proponent shall periodically test the treated sewage through TNPCB lab /NABL accredited laboratory and submit report to the TNPCB. 3. The proponent shall periodically test the water sample for the general water quality core parameters including fecal coliform of the nullah within the proposed project site through TNPCB lab /NABL accredited laboratory and submit report to the concerned authorities. 4. All the construction of Buildings shall be energy efficient and conform to the green building norms. 5. The project proponent shall adhere to provide adequate parking space for visitors of all inmates including clean traffic plan as committed. 6. The proponent shall ensure that no form of municipal solid waste shall be disposed outside the proposed project site at any time. 7. All bio-safety standards, hygienic standards and safety norms of working staff and patients to be strictly followed as stipulated in EIA/EMP. 8. The disaster management and disaster mitigation standards to be seriously adhered to avoid any calamities. 9. The project proponent shall adhere to height of the buildings as committed.
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		<p>10. The proponent shall ensure that the EIA/EMP and disaster management plan should be adhered strictly.</p> <p>11. The activities should in no way cause emission and build-up Green House Gases. All actions to be eco- friendly and support sustainable management of the natural resources within and outside the campus premises.</p> <p>12. The proponent should strictly comply with, Tamil Nadu Government order regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.</p> <p>13. The proponent shall ensure that provision should be given for proper utilization of recycled water.</p> <p>14. The proponent shall ensure that all trees & biodiversity listed in EIA report to be protected within the premises.</p> <p>15. The proponent shall ensure that the buildings should not cause any damage to water environment, air quality and should be carbon neutral building.</p> <p>16. All the Buildings shall be energy efficient and confirm to the green building norms.</p> <p>17. The proponent shall ensure almost safety for the existing biodiversity,</p>
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			<p>trees, flora & fauna shall not disturb under any circumstances.</p> <p>18. The proponent shall ensure that the all activities of EMP shall be completed before obtaining CTO from TNPCB.</p> <p>19. The proponent shall ensure that the activities undertaken should not result in carbon emission, and temperature rise, in the area.</p> <p>20. The proponent shall ensure that the buildings and activities should not result in Environmental damages, nor result in temperature rise.</p> <p>21. The proponent shall provide and ensure the green belt plan is implemented as proposed & indicated in EMP. Also, the proponent shall explore possibilities to provide sufficient grass lawns and play facilities for children.</p> <p>22. The project proponent shall ensure to provide adequate elevated closed area earmarked for collection, segregation, storage & disposal of wastes generated within the premises as per provisions of Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Other Wastes (Management and Transboundary Movement) Rules,</p>
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			<p>2016 as amended, Construction and Demolition Waste Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001.</p> <p>23. The proponent shall provide the emergency exit in the buildings.</p> <p>24. The proponent shall provide elevator as per rules CMDA/DTCP.</p> <p>25. The proponent shall provide adequate capacity of DG set (standby) for the proposed STP so as ensure continues and efficient operation.</p> <p>26. The proponent shall adhere to the provision and norms regard to fire safety prescribed by competent authority.</p> <p>27. The project proponent shall adhere to storm water management plan as committed.</p>
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Annexure-'A'

1. The AD/DD, Dept. of Geology & Mining shall ensure operation of the proposed quarry after the submission slope stability study conducted through the reputed research & Academic Institutions such as NIRM, IITs, NITS Anna University, and any CSIR Laboratories etc.
2. The AD/DD, Dept. of Geology & Mining & Director General of Mine safety shall ensure strict compliance and implementation of bench wise recommendations/action plans as recommended in the scientific slope stability study of the reputed research & Academic Institutions as a safety precautionary measure to avoid untoward accidents during mining operation.
3. No trees in the area should be removed and all the trees numbered and protected. In case trees fall within the proposed quarry site the trees may be transplanted in the Greenbelt zone. The proponent shall ensure that the activities in no way result in disturbance to forest and trees in vicinity. The proponent shall ensure that the activity does not disturb the movement of grazing animals and free


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ranging wildlife. The proponent shall ensure that the activity does not disturb the biodiversity, the flora & fauna in the ecosystem. The proponent shall ensure that the activity does not result in invasion by invasive alien species. The proponent shall ensure that the activities do not disturb the resident and migratory birds. The proponent shall ensure that the activities do not disturb the vegetation and wildlife in the adjoining reserve forests and areas around.

4. The proponent shall ensure that the operations do not result in loss of soil biological properties and nutrients.
5. The activity should not result in CO₂ release and temperature rise and add to micro climate alternations.
6. The proponent shall ensure that the activity does not disturb the water bodies and natural flow of surface and ground water, nor cause any pollution, to water sources in the area.
7. The proponent shall ensure that the activities undertaken do not result in carbon emission, and temperature rise, in the area.
8. The proponent shall ensure that Monitoring is carried out with reference to the quantum of particulate matter during excavation; blasting; material transport and also from cutting waste dumps and haul roads.
9. The proponent shall ensure that the activities do not disturb the agro biodiversity and agro farms. Actions to be taken to promote agro forestry, mixed plants to support biodiversity conservation in the mine restoration effort.
10. The proponent shall ensure that activity does not deplete the indigenous soil seed bank and disturb the mycorrhizal fungi, soil organism, soil community nor result in eutrophication of soil and water.
11. The activities should not disturb the soil properties and seed and plant growth. Soil amendments as required to be carried out, to improve soil health
12. Bio remediation using microorganisms should be carried out to restore the soil environment to enable carbon sequestration.
13. The proponent shall ensure that all mitigation measures listed in the EIA/EMP are taken to protect the biodiversity and natural resources in the area.
14. The proponent shall ensure that the activities do not impact the water bodies/wells in the neighboring open wells and bore wells. The proponent shall ensure that the activities do not in any way affect the water quantity and quality in the open wells and bore wells in the vicinity or impact the water table and levels. The proponent shall ensure that the activities do not disturb the river flow, nor affect the Odai, Water bodies, Dams in the vicinity.


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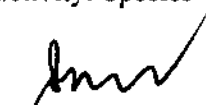
15. The proponent shall ensure that in the green belt development more indigenous trees species (Appendix as per the SEAC Minutes) to be planted.
16. The proponent shall ensure the area is restored and rehabilitated with native trees as recommended in SEAC Minutes (in Appendix).
17. The proponent shall ensure that the mine restoration is done using mycorrhizal VAM, vermin-composting, Biofertilizers to ensure soil health and biodiversity conservation.
18. The proponent shall ensure that the topsoil is protected and used in planting activities in the area.
19. The proponent should ensure that there is no disturbance to the agriculture plantations, social forestry plantations, waste lands, forests, sanctuary or national parks. There should be no impact on the land, water, soil and biological environment and other natural resources due to the mining activities.
20. The proponent shall ensure that topsoil to be utilized for site restoration and Green belt alone within the proposed area.
21. The proponent shall ensure that the activities do not impact green lands/grazing fields of all types surrounding the mine lease area which are food source for the grazing cattle.
22. The project proponent shall store/dump the granite waste generated within the earmarked area of the project site for mine closure as per the approved mining plan.

Directions for Reclamation of mine sites

1. The mining closure plan should strictly adhere to appropriate soil rehabilitation measures to ensure ecological stability of the area. Reclamation/Restoration of the mine site should ensure that the Geotechnical, physical, chemical properties are sustainable that the soil structure composition is buildup, during the process of restoration.
2. The proponent shall ensure that the mine closure plan is followed as per the mining plan and the mine restoration should be done with native species, and site restored to near original status. The proponent shall ensure that the area is ecologically restored to conserve the ecosystems and ensure flow of goods and services.
3. A crucial factor for success of reclamation site is to select sustainable species to enable develop a self-sustaining eco system. Species selected should easily establish, grow rapidly, and possess good crown and preferably be native species. Species to be planted in the boundary of project site should be un palatable for cattle's/ goats and should have proven capacity to add leaf-litter to soil and decompose. The species planted should be adaptable to the site conditions. Should be preferably pioneer species, deciduous in nature to allow maximum leaf-litter, have deep root system, fix atmospheric nitrogen and improve soil productivity. Species


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selected should have the ability to tolerate altered pit and toxicity of and site. They should be capable of meeting requirement of local people in regard to fuel fodder and should be able to attract bird, bees and butterflies. The species should be planted in mixed association.

4. For mining area reclamation plot culture experiments to be done to identify/ determine suitable species for the site.
5. Top soil with a mix of beneficial microbes (Bacteria/Fungi) to be used for reclamation of mine spoils. AM Fungi (Arbuscular mycorrhizal fungi), plant growth promoting Rhizo Bacteria and nitrogen fixing bacteria to be utilized.
6. Soil and moisture conservation and water harvesting structures to be used where ever possible for early amelioration and restoration of site.
7. Top soil is most important for successful rehabilitation of mined sites. Topsoil contains majority of seeds and plant propagation, soil microorganism, Organic matter and plant nutrients. Wherever possible the topsoil should be immediately used in the area of the for land form reconstruction, to pre mining conditions.
8. Over burdens may be analyzed and tested for soil characteristics and used in the site for revegetation. Wherever possible seeds, rhizome, bulbs, etc of pioneering spices should be collected, preserved and used in restoring the site.
9. Native grasses seeds may be used as colonizers and soil binders, to prevent erosion and allow diverse self- sustaining plant communities to establish. Grasses may offer superior tolerance to drought, and climatic stresses.
10. Reclamation involves planned topographical reconstruction of site. Care to be taken to minimize erosion and runoff. Topsoils should have necessary physical, chemicals, ecological, properties and therefore should be stored with precautions and utilized for reclamation process. Stocked topsoil should be stabilized using grasses to protect from wind. Seeds of various indigenous and local species may be broad casted after topsoil and treated overburden are spread.
11. Alkaline soils, acidic soils, Saline soils should be suitably treated/amended using green manure, mulches, farmyard manure to increase organic carbon. The efforts should be taken to landscape and use the land post mining. The EMP and mine closure plan should provide adequate budget for reestablishing the site to pre-mining conditions. Effective steps should be taken for utilization of over burden. Mine waste to be used for backfilling, reclamation, restoration, and rehabilitation of the terrain without affecting the drainage and water regimes. The rate of rehabilitation should be similar to rate of mining. The land disturbed should be


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reshaped for long term use. Mining should be as far as possible be ecofriendly. Integration of rehabilitation strategies with mining plan will enable speedy restoration.

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

Annexure 'B'

1. Cluster Management Committee, which must include all the proponents in the cluster as members including the existing as well as proposed quarry.
2. The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc.,
3. The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease and the same shall be updated every year to the AD/Mines.
4. Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network.
5. The committee shall deliberate on risk management plan pertaining to the cluster in a holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan.
6. The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the environmental policy devised shall be given in detail.
7. The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner.
8. The committee shall furnish the Emergency Management plan within the cluster.
9. The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public.
10. 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


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- a) Soil health & bio-diversity.
 - 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.
11. The committee shall furnish an action plan to achieve sustainable development goals with reference to water, sanitation & safety.
 12. The committee shall furnish the fire safety and evacuation plan in the case of fire accidents.
 13. The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilise the Energy shall be furnished.
 14. 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.
 15. Impact on surrounding agricultural fields around the proposed mining Area.
 16. Erosion Control measures.
 17. Impact on soil flora & vegetation around the project site.
 18. 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.
 19. 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.
 20. 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.
 21. 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.


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22. 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.
23. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.
24. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.
25. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.
26. The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.
27. The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.
28. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.
29. The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan.
30. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock.
31. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.
32. The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.
33. The project proponent shall study and furnish the details on potential fragmentation impact of natural environment, by the activities.
34. 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.
35. 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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36. The project proponent shall detailed study on impact of mining on Reserve forests free ranging wildlife.
37. 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.
38. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities covering the entire mine lease period as per precise area communication order issued.
39. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.
40. Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued.
41. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued.


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