

MINUTES

576th MEETING

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

Date: 07.12.2022



MINUTES OF THE 576th MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY HELD ON 07.12.2022.

Agenda No	Description	File No.	Minutes
a)	Confirmation of the minutes of the 575 th meeting of the Authority held on 06.12.2022.		The minutes of the 575 th meeting of the Authority held on 06.12.2022 was confirmed.
b)	The Action taken on the decisions of the 575 th meeting of the Authority held on 06.12.2022.		The Member Secretary informed that 575 th Minutes uploaded in Parivesh wesbsite and action taken report will be putup ensuing meeting.
1.	Proposed expansion of Construction of Residential group development, High Rise & Non-High-Rise Group Development at S.No. 404/1, 404/2, 405, 406/1A, 406/1B, 406/ 2, 407/2A2, 407/2B2, 408/1A, 408/1B2, 408/2A, 408/2B2, 410/1A1, 410/1A2B, 410/ 2, 410/3, 410/4, 414/1, 414/ 2, 425/2B, 425/2C1, 425/2D1A, 425/2D2A, 425/2D2B, Padappai Village, Kundrathur Taluk, Kanchipuram District, Tamil Nadu by M/s. Casa Grande Civil Engineering Private Limited- For Environmental Clearance.	9428	SEAC has furnished its recommendations to the Authority for granting Environmental Clearance to the Project subject to the conditions stated therein. After detailed discussion, SEIAA decided to obtain the following additional details from the PP. <ul style="list-style-type: none"> 1. The NOC from the Airport authority of India, since it is a proposed high-Rise building. 2. The earmarked area for the Children's play area within the project site. 3. Details of Impact and mitigation measure to the Paddapai lake located in the vicinity of the project site. 4. Details of existing traffic analysis and impact on the existing traffic by this project.
2.	Proposed Rough Stone Quarry and gravel quarry lease over an extent 4.50.0 Ha at S.F.No.	9479	SEAC has furnished its recommendations to the Authority for granting Terms of Reference to the Project subject to the


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	88/1(Part-3) of B.S Thimmasandram Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru.A Kumar - For Terms of Reference.		conditions stated therein. After detailed discussion, SEIAA decided to grant Terms of Reference to the Project for the quantity as per the mine plan for a period of 5 years approved by the Department of Geology & Mining subject to the conditions as recommended by SEAC in addition to the following condition & conditions stated vide Annexure B.
3.	Proposed Rough Stone Quarry and gravel quarry lease over an extent 1.68.0 Ha at S.F.No.210/7A of Melur Village, Kulathur Taluk, Pudukkottai district, Tamil Nadu by Thiru.R.Arockiya Raj - For Terms of Reference.	9484	The authority noted that the subject was appraised in 331 st SEAC meeting held on 24.11.2022. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing 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 in addition to the conditions in 'Annexure B' of this minutes.
4.	Proposed Rough stone quarry over an extent of 1.42.0 Ha of Patta land at Survey No. 16/2B, 16/3 & 16/4 in Achankulam Village, Kallikudi Taluk, Madurai District, Tamil Nadu by Tmt.M.Meenatchi - for Terms of Reference	9488	The Authority noted that the subject was appraised in 331 st SEAC meeting held on 24.11.2022. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as


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			recommended by SEAC & normal conditions in addition to the conditions in 'Annexure B' of this minute.
5.	Proposed Black Granite quarry lease over an extent of 2.07.5 HaPatta Land at S. F. Nos. S.F.No. 61/3 of Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by M/s. S.R.A.Granites- for Terms of Reference	9489	<p>The Authority noted that the subject was appraised in 331st meeting of SEAC held on 24.11.2022. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing 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 in addition to the following conditions.</p> <p>Production for the first 5 years shall not exceed RoM -16715cu.m, Granite-5075cu.m and Granite waste-11700 to the proposed depth 22m.</p> <ol style="list-style-type: none"> 1. Proponent shall comply with all the conditions imposed in the Precise area communication letter before applying for EC. 2. Cluster Management Committee, which must include all the proponents in the cluster as members including the existing as well as proposed quarry. 3. The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc.,


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		<p>4. 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.</p> <p>5. 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.</p> <p>6. 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.</p> <p>7. 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.</p> <p>8. The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner.</p> <p>9. The committee shall furnish the Emergency Management plan within the cluster.</p>
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			<p>10. The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public.</p> <p>11. 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</p> <ul style="list-style-type: none"> 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. <p>12. The committee shall furnish an action plan to achieve sustainable</p>
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			<p>development goals with reference to water, sanitation & safety.</p> <p>13. The committee shall furnish the fire safety and evacuation plan in the case of fire accidents.</p> <p>14. The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilise the Energy shall be furnished.</p> <p>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.</p> <p>16. Impact on surrounding agricultural fields around the proposed mining Area.</p> <p>17. Erosion Control measures.</p> <p>18. Impact on soil flora & vegetation around the project site.</p> <p>19. 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.</p> <p>20. 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,</p>
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			<p>vaari, canal, channel, river, lake pond, tank etc.</p> <p>21. 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.</p> <p>22. 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.</p> <p>23. 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.</p> <p>24. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.</p> <p>25. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.</p>
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		<p>26. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.</p> <p>27. The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.</p> <p>28. The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.</p> <p>29. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.</p> <p>30. The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan.</p> <p>31. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock.</p> <p>32. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests,</p>
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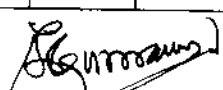

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			<p>National Parks, Corridors and Wildlife pathways, near project site.</p> <p>33. The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.</p> <p>34. The project proponent shall study and furnish the details on potential fragmentation impact of natural environment, by the activities.</p> <p>35. 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.</p> <p>36. 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.</p> <p>37. The project proponent shall detailed study on impact of mining on Reserve forests free ranging wildlife.</p> <p>38. Hydro-geological study considering the contour map of the water table</p>
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			<p>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.</p> <p>39. 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.</p> <p>40. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.</p> <p>41. Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued.</p>
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			42. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued.
6.	Proposed Rough Stonequarry over an extent of 2.00.00 Ha in S. F No. 86 (Part-3) Venkatesapuram Village of Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. S.R. Enterprises- for Terms of Reference.	9499	<p>The Authority noted that the subject was appraised in 331st SEAC meeting held on 24.11.2022. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing 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 in addition to the conditions in 'Annexure B' of this minute.</p> <p>1. Restricting the ultimate depth of mining up to 42m BGL (2m Topsoil + 40m Rough stone) and quantity of 4,06,265 cu.m of Rough Stone are permitted for mining over a period of five years considering the environmental impacts due to the mining, safety precautionary measures of the working personnel and following the principle of the sustainable mining.</p>
7.	Proposed Rough Stone Quarry and gravel quarry lease over an extent 1.00.0 Ha at S.F.No.1/7	9500	SEAC has furnished its recommendations to the Authority for granting Terms of Reference to the Project subject to the


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	(Part-11), Panamarathupatti Village, Salem Taluk, Salem District, Tamil Nadu by Thiru. P Sivakumar - For Terms of Reference.		conditions stated therein. After detailed discussion, SEIAA decided to grant Terms of Reference to the Project for the quantity as per the mine plan for a period of 5 years approved by the Department of Geology & Mining subject to the conditions as recommended by SEAC in addition to the following condition & conditions stated vide Annexure B.
8.	Proposed Rough Stonequarry over an extent of 2.50.00Ha in S.F.No. 86(Part-I) of Venkatesapuram Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru.A.Brian Balachander- for Terms of Reference.	9506	<p>The Authority noted that the subject was appraised in 331st SEAC meeting held on 24.11.2022. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing 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 in addition to the conditions in 'Annexure B' of this minute.</p> <p>1. Restricting the ultimate depth of mining up to 42m BGL (2m Topsoil + 40m Rough stone) and quantity of 2,48,290 cu.m of Rough Stone are permitted for mining over a period of five years considering the environmental impacts due to the mining, safety precautionary measures of the working personnel and</p>


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			following the principle of the sustainable mining.
9.	Proposed Rough stone Quarrylease over an extent of 1.88.0 Ha atS.F.Nos. 75/1A, 75/1B & 75/2 of Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu by TmtV.Kavitha- For Terms of Reference.	9511	<p>The authority noted that the subject was appraised in 331st SEAC meeting held on 24.11.2022.</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 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 proponent shall submit a letter obtained from AD/Mines regarding the working methodology of the proposed mine. 2. The proponent shall submit the details regarding the working efficiency of the individual labours and per day quantity that will be achieved shall be submitted. 3. The proponent shall submit the number of labours employed in the mining activity including male and female. 4. The proponent shall submit the list of Labours to be employed. 5. The proponent shall submit the details regarding the project cost which shall


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			include the cost for Health measurements for the labours.
10.	Proposed Rough stone & Gravel quarry over an extent of 2.25.0 Ha of Patta Land in S.F.No. 82/3 Pachapalayam Village, Sular Taluk, Coimbatore District, Tamil Nadu by Thiru. S.Nandhagopal - for Terms of Reference	9516	The Authority noted that the subject was appraised in 331 st SEAC meeting held on 24.11.2022. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing 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 in addition to the conditions in 'Annexure B' of this minute.
11.	Proposed for Existing Silica Sand Mine over an extent of 1.49.0Ha at S.F. Nos. 254/1-I, 231/5, Chettipulam Village, Vedaranyam Taluk, Nagapattinam District, Tamil Nadu by Thiru. N. Sargunam - for Extension of validity of the Terms of References under Violation	5707	The Authority accepted the recommendation of 331 st SEAC minutes held on 24.11.2022 with a validity of the ToR issued is valid up to 31.07.2023 as per the MoEF Notification dated 18.01.2021. Therefore, the project proponent is requested to submit Public Hearing minutes, EIA/EMP report along with required details on the following, i. facets of violation, ii. assessment of ecological damage, remediation plan and natural and community resource augmentation plan which shall be prepared as an independent chapter in the environment impact assessment report.


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		<p>iii. The compliance report on the violation ToR issued earlier.</p> <p>Along with this, additionally the Project Proponent will study in detail the following:</p> <ol style="list-style-type: none"> 1. The Silica sand 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. 2. What are the green mining technologies to be adopted for reducing GHG/CO₂ emissions and lowering the carbon footprint in the Silica sand mining. 3. Strategies adopted for safety and healthy mining operations. 4. What are the transparency and accountability system in place during the operation and post-operation period of the project. 5. What are the In-House environmental performance and evaluation tools to understand negative impacts of mining. 6. Detailed study to be made on material flow analysis and Life Cycle Assessment (LCA) in the process of production. 7. Through a chart Illustration, clarify the cradle to grave approach for extraction
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			<p>of Silica sand and anticipated emissions, environmental threats in every stage and mitigation strategy at every stage.</p> <p>8. Project Proponent to study impacts on human health viz respiratory impacts, toxicity impacts and radiation impacts.</p> <p>9. Study to be made on aquatic, terrestrial toxicity, aquatic eutrophication including detailed terrestrial toxicity and their impacts of wildlife and biodiversity.</p> <p>10. What is the total water withdrawal consumption, likely temperature rises and climate change impacts.</p> <p>11. What are the chemical exposures in the Silica sand mining and risks anticipated to environmental and human health.</p>
12.	Proposed for Existing Quartz & Feldspar Quarry over an extent of 4.22.0 Ha at S.F.No 808, 309/2 (P), 809/3A & 809/3B at Kosanam 'B' Village, Gopichettipalayam Taluk, Erode District, Tamil Nadu by Thiru. P. Balasubramaniam- for Extension of validity for the Terms of References "Under Violation".	6617	<p>The Authority accepted the recommendation of 331st SEAC minutes held on 24.11.2022 with a validity of the ToR issued is valid up to 29.07.2023 as per the MoEF Notification dated 18.01.2021.</p> <p>Therefore, the project proponent is requested to submit Public Hearing minutes, EIA/EMP report along with required details on the following,</p> <ol style="list-style-type: none"> i. facets of violation, ii. assessment of ecological damage, remediation plan and natural and


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			<p>community resource augmentation plan which shall be prepared as an independent chapter in the environment impact assessment report.</p> <p>iii. The compliance report on the violation ToR issued earlier.</p> <p>Along with this, additionally the Project Proponent will study in detail the following:</p> <ol style="list-style-type: none"> 1. The Quartz & Feldspar 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. 2. What are the green mining technologies to be adopted for reducing GHG/CO₂ emissions and lowering the carbon footprint in the Quartz & Feldspar mining. 3. Strategies adopted for safety and healthy mining operations. 4. What are the transparency and accountability system in place during the operation and post-operation period of the project. 5. What are the In-House environmental performance and evaluation tools to understand negative impacts of mining.
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			<p>6. Detailed study to be made on material flow analysis and Life Cycle Assessment (LCA) in the process of production.</p> <p>7. Through a chart Illustration, clarify the cradle to grave approach for extraction of Quartz & Feldspar and anticipated emissions, environmental threats in every stage and mitigation strategy at every stage.</p> <p>8. Project Proponent to study impacts on human health viz respiratory impacts, toxicity impacts and radiation impacts.</p> <p>9. Study to be made on aquatic, terrestrial toxicity, aquatic eutrophication including detailed terrestrial toxicity and their impacts of wildlife and biodiversity.</p> <p>10. What is the total water withdrawal consumption, likely temperature rises and climate change impacts.</p> <p>11. What are the chemical exposures in the Quartz & Feldspar mining and risks anticipated to environmental and human health.</p>
13.	Proposed for Existing Limited for Limestone Mine over an extent of 3.21.5 Ha at S.F. Nos. 285/1B(P), 285/2B(P), 287/1B, 287/2 and 283(P) (patta land) & 286(P) (Govt land) in Palayam Village,	6351	The Authority accepted the recommendation of 331 st SEAC minutes held on 24.11.2022 with a validity of the ToR issued is valid up to 10.05.2023 as per the MoEF Notification dated 18.01.2021.

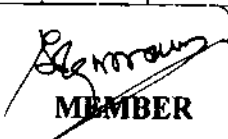

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	<p>Vedasandur Taluk, Dindigul District, Tamil Nadu by Thiru. J. Sheik Abdulla- for Extension of validity for the Terms of References "Under Violation".</p>	<p>Therefore, the project proponent is requested to submit Public Hearing minutes, EIA/EMP report along with required details on the following,</p> <ol style="list-style-type: none"> i. facets of violation, ii. assessment of ecological damage, remediation plan and natural and community resource augmentation plan which shall be prepared as an independent chapter in the environment impact assessment report. iii. The compliance report on the violation ToR issued earlier. <p>Along with this, additionally the Project Proponent will study in detail the following:</p> <ol style="list-style-type: none"> 1. The limestone 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. 2. What are the green mining technologies to be adopted for reducing GHG/CO₂ emissions and lowering the carbon footprint in the limestone mining. 3. Strategies adopted for safety and healthy mining operations. 4. What are the transparency and accountability system in place during
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			<p>the operation and post-operation period of the project.</p> <ol style="list-style-type: none"> 5. What are the In-House environmental performance and evaluation tools to understand negative impacts of mining. 6. Detailed study to be made on material flow analysis and Life Cycle Assessment (LCA) in the process of production. 7. Through a chart Illustration, clarify the cradle to grave approach for extraction of limestone and anticipated emissions, environmental threats in every stage and mitigation strategy at every stage. 8. Project Proponent to study impacts on human health viz respiratory impacts, toxicity impacts and radiation impacts. 9. Study to be made on aquatic, terrestrial toxicity, aquatic eutrophication including detailed terrestrial toxicity and their impacts of wildlife and biodiversity. 10. What is the total water withdrawal consumption, likely temperature rises and climate change impacts. 11. What are the chemical exposures in the limestone mining and risks anticipated to environmental and human health
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14.	Proposed for Existing Rough Stone quarry Lease over an extent of 2.50.0Ha at S.F.No. 814(Part-1) of Thimmarasanayakkanur Bit-I Village, Andipatty Taluk, Theni District, Tamil Nadu by Thiru. T. Rajavelpandian- for Extension of validity for the Terms of References "Under Violation".	6225	<p>The Authority accepted the recommendation of 331st SEAC minutes held on 24.11.2022 with a validity of the ToR issued is valid up to 03.06.2023 as per the MoEF Notification dated 18.01.2021.</p> <p>Therefore, the project proponent is requested to submit Public Hearing minutes, EIA/EMP report along with required details on the following,</p> <ol style="list-style-type: none"> i. facets of violation, ii. assessment of ecological damage, remediation plan and natural and community resource augmentation plan which shall be prepared as an independent chapter in the environment impact assessment report. iii. The compliance report on the violation ToR issued earlier. <p>Along with this, additionally the Project Proponent will study in detail the following:</p> <ol style="list-style-type: none"> 1. The Rough stone 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. 2. What are the green mining technologies to be adopted for reducing GHG/CO₂ emissions and
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			<p>lowering the carbon footprint in the Rough stone mining.</p> <ol style="list-style-type: none"> 3. Strategies adopted for safety and healthy mining operations. 4. What are the transparency and accountability system in place during the operation and post-operation period of the project. 5. What are the In-House environmental performance and evaluation tools to understand negative impacts of mining. 6. Detailed study to be made on material flow analysis and Life Cycle Assessment (LCA) in the process of production. 7. Through a chart Illustration, clarify the cradle to grave approach for extraction of Rough Stone and anticipated emissions, environmental threats in every stage and mitigation strategy at every stage. 8. Project Proponent to study impacts on human health viz respiratory impacts, toxicity impacts and radiation impacts. 9. Study to be made on aquatic, terrestrial toxicity, aquatic eutrophication including detailed terrestrial toxicity and their impacts of wildlife and biodiversity.
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			<p>10. What is the total water withdrawal consumption, likely temperature rises and climate change impacts.</p> <p>11. What are the chemical exposures in the Rough stonemining and risks anticipated to environmental and human health.</p>
15.	<p>Proposed for Existing Limestone Mine lease over an Extent of 7.10.0Ha in S.F.Nos.406/1G, 2, 417/1, 2, 3, 4, 5, 6A, 6B, 6C, 6D, 6E, 7, 8, 9, 10, 418/1A, 1B, 3A, 3B, 3C, 3D, 3E, 3F, 2, 419/7B, 8, 9A, 9B, 10A, 10B, 11A, 11B & 12 at Valajanagaram Village of Ariyalur Taluk, Ariyalur District, Tamil Nadu State by M/s. Venkateswara Cements Ltd., - for Extension of validity for the Terms of References "Under Violation".</p>	6113	<p>The Authority accepted the recommendation of 331st SEAC minutes held on 24.11.2022 with a validity of the ToR issued is valid up to 09.05.2023 as per the MoEF Notification dated 18.01.2021.</p> <p>Therefore, the project proponent is requested to submit Public Hearing minutes, EIA/EMP report along with required details on the following,</p> <ol style="list-style-type: none"> i. facets of violation, ii. assessment of ecological damage, remediation plan and natural and community resource augmentation plan which shall be prepared as an independent chapter in the environment impact assessment report. iii. The compliance report on the violation ToR issued earlier. <p>Along with this, additionally the Project Proponent will study in detail the following:</p> <ol style="list-style-type: none"> 1. The limestone quarry involves raw material extraction, transportation and comminution. Therefore, large quantity of diesel and electricity are


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			<p>supposed to be consumed in the production. The diesel fuel and electricity to be consumed to be furnished.</p> <ol style="list-style-type: none"> 2. What are the green mining technologies to be adopted for reducing GHG/CO₂ emissions and lowering the carbon footprint in the limestone mining. 3. Strategies adopted for safety and healthy mining operations. 4. What are the transparency and accountability system in place during the operation and post-operation period of the project. 5. What are the In-House environmental performance and evaluation tools to understand negative impacts of mining. 6. Detailed study to be made on material flow analysis and Life Cycle Assessment (LCA) in the process of production. 7. Through a chart Illustration, clarify the cradle to grave approach for extraction of limestone and anticipated emissions, environmental threats in every stage and mitigation strategy at every stage. 8. Project Proponent to study impacts on human health viz respiratory impacts, toxicity impacts and radiation impacts.
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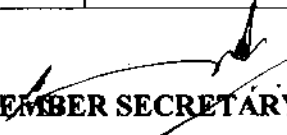
			<p>9. Study to be made on aquatic, terrestrial toxicity, aquatic eutrophication including detailed terrestrial toxicity and their impacts of wildlife and biodiversity.</p> <p>10. What is the total water withdrawal consumption, likely temperature rises and climate change impacts.</p> <p>11. What are the chemical exposures in the limestone mining and risks anticipated to environmental and human health.</p>
16.	Proposed for Existing Limestone Quarry over an extent of 2.53.0 Ha at S.F.No. 693/5A(P), 696/2, 3(P), 4(P), 5, 698/1, 2, 3, 4A, 4B, 4C & 5, Sirugudi Village, Natham Taluk, Dindigul District, by M/s. Sivam Mines- Extension of validity for the Terms of References "Under Violation".	6253	<p>The Authority accepted the recommendation of 331st SEAC minutes held on 24.11.2022 with a validity of the ToR issued is valid up to 06.02.2024 as per the MoEF Notification dated 18.01.2021.</p> <p>Therefore, the project proponent is requested to submit Public Hearing minutes, EIA/EMP report along with required details on the following,</p> <ol style="list-style-type: none"> i. facets of violation, ii. assessment of ecological damage, remediation plan and natural and community resource augmentation plan which shall be prepared as an independent chapter in the environment impact assessment report. iii. The compliance report on the violation ToR issued earlier. <p>Along with this, additionally the Project Proponent will study in detail the following:</p>

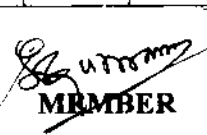

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			<ol style="list-style-type: none"> 1. The limestone quarry involves raw material extraction, transportation and comminution. Therefore, large quantity of diesel and electricity are supposed to be consumed in the production. The diesel fuel and electricity to be consumed to be furnished. 2. What are the green mining technologies to be adopted for reducing GHG/CO₂ emissions and lowering the carbon footprint in the limestone mining. 3. Strategies adopted for safety and healthy mining operations. 4. What are the transparency and accountability system in place during the operation and post-operation period of the project. 5. What are the In-House environmental performance and evaluation tools to understand negative impacts of mining. 6. Detailed study to be made on material flow analysis and Life Cycle Assessment (LCA) in the process of production. 7. Through a chart Illustration, clarify the cradle to grave approach for extraction of limestone and anticipated emissions, environmental threats in every stage and mitigation strategy at every stage.
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			<p>8. Project Proponent to study impacts on human health viz respiratory impacts, toxicity impacts and radiation impacts.</p> <p>9. Study to be made on aquatic, terrestrial toxicity, aquatic eutrophication including detailed terrestrial toxicity and their impacts of wildlife and biodiversity.</p> <p>10. What is the total water withdrawal consumption, likely temperature rises and climate change impacts.</p> <p>11. What are the chemical exposures in the limestone mining and risks anticipated to environmental and human health.</p>
17.	Proposed quarrying of Quartz and Feldspar lease over an extent of 1.67.0Ha at S.F. No. 373/1A(P) of Chitoor Bit-2 Village, Edappadi Taluk, Salem District, Tamil Nadu by M/s. Ramana Iyyaner Mines and Minerals for Extension of validity for the Terms of References "Under Violation".	6560	<p>The Authority after detailed discussion accepts the recommendation of 331st Meeting of SEAC held on 24.11.2022 and the Authority has decided to grant Extension of validity for Terms of Reference (ToR) issued vide SEIAA. SEIAA. Lr. No. SEIAA-TN/F.No.6560/ToR-404/2018, dated: 15.05.2018 (Deemed to be) valid up to 04.05.2023 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


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			<p>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 limestone 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 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 limestone 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 limestone mining and risks anticipated to environmental and human health.</p>
18.	Proposed existing Quartz and Feldspar Mines over an extent of 4.07.0 Ha at S.F. Nos. 809/1B (P), 809/2 (P), 832/4, 832/5, 832/6, 832/7, 832/8, 832/9, 832/10, 843/6 and 843/7, Kosanam 'B' Village, Gobichettipalayam	6616	The Authority after detailed discussion accepts the recommendation of 331 st Meeting of SEAC held on 24.11.2022 and the Authority has decided to grant Extension of validity for Terms of Reference (ToR) issued vide SEIAA. SEIAA. Lr. No. SEIAA-TN/F.No.6616/ToR-543/2018, dated:


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	<p>Taluk, Erode District, Tamil Nadu by Thiru.P.Ramamoorthy for Extension of validity for the Terms of References "Under Violation".</p>	<p>30.07.2018 (Deemed to be) valid up to 29.07.2023 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 limestone 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 the limestone mining.
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			<ol style="list-style-type: none"> 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 limestone 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.
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			14. What are the chemical exposures in the limestone mining and risks anticipated to environmental and human health.
19.	To consider the proposal for the grant of Environmental Clearance for the Proposed Rough stone and Gravel quarry project over an extent of 1.62.0Ha in S.F.Nos. 387/1B1 at Morattupalayam Village, Uthukuli Taluk, Tiruppur District, Tamil Nadu by Thiru. S.Raju	8250	<p>The authority noted that earlier this proposal was placed for appraisal in the 295th meeting of SEAC held on 15.07.2022 and the SEAC had decided to recommend for grant of Environmental Clearance.</p> <p>Subsequently, the proposal was placed in 540th Authority meeting held on 08.08.2022. The Authority after detailed discussion, noted that</p> <ol style="list-style-type: none"> 1. As per the KML file uploaded in the Parivesh Portal, it is ascertained that the proposed lease area is located at a distance of 244m from the Effluent Treatment Plant from the coordinates 11°07'59.04" N 77°25'09.58" E (from KML) 2. As per Tamil Nadu Minor Mineral Concession Rules, 1959 under section V – Miscellaneous in para 36. General restrictions in respect of quarrying operations; (c) <p><i>"No new layout, building plans falling within 300 metres from any quarry should be given approval by any agency unless prior clearance of the Director of Geology and Mining is obtained. On receipt of proposals for according clearance, the Director of Geology and Mining shall decide upon the continuance or closure, as</i></p>


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		<p><i>the case may be of any quarry which is situated within 300 metres from the now layout, building sought for such "clearance".</i></p> <p>Hence, the proponent is requested to get clearance from the Director of Geology and Mining since the proposed lease area is situated within 300m from the Effluent Treatment Plant. Further, a No Objection Certificate from the Effluent treatment plant shall also be furnished.</p> <p>Subsequently, the PP had submitted the reply to O/o SEIAA on 01.12.2022. Further, the proponent had submitted the NOC obtained from Commissioner, Commissionerate of Geology and Mining vide Rc.No.8038/MM1/2022 Dated: 29.11.2022. As per the NOC issued, under para 3</p> <p><i>"It is observed that the Sewage Treatment Plant came later during the year 2007. In the nearby quarry, as per rule 36(1-A) of the Tamil Nadu Minor Mineral Concession Rules, 1959, no building to be constructed and layout to be approved within 300 metres. Since it is 244m away from the Sewage Treatment plant it can be permitted to operate subject to the condition that certified person should be used for blasting purpose."</i></p> <p>Further, it was ascertained that the proponent had obtained Environmental Clearance earlier for the same SF No. 387/1B1 vide Lr. No.</p>
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		<p>SEIAA-TN/F.No. 3107 /EC/1(a)/ 1775 /2014 dated: 17.03.2015.</p> <p>Hence, OM No. IA3-22/10/2022-IA.III dated 08.06.2022 mandates the requirement of Certified Compliance Report (CCR) on the conditions stipulated in the ECs to the existing projects/activities from the concerned Integrated Regional Offices (IROs) of MoEF&CC for consideration of expansion proposals for grant of Environment Clearance under the provisions of EIA Notification, 2006.</p> <p>In the view of the above, Authority decided that the proponent shall submit certified compliance report obtained from Integrated Regional Office (IRO) of MoEF&CC.</p> <p>Upon the receipt of the above, further deliberation shall be done.</p> <p>In the view of the above, SEIAA decided to request Member Secretary to communicate the minutes to the project proponent.</p>
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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.


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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
 - i) Soil health & bio-diversity.
 - j) Climate change leading to Droughts, Floods etc.
 - k) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
 - l) Possibilities of water contamination and impact on aquatic ecosystem health.
 - m) Agriculture, Forestry & Traditional practices.
 - n) Hydrothermal/Geothermal effect due to destruction in the Environment.
 - o) Bio-geochemical processes and its foot prints including environmental stress.
 - p) 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.


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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.
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.


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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.
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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