

MINUTES

659th MEETING

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

Date: 29.09.2023

**MINUTES OF THE 659th MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY HELD ON 29.09.2023.**

Agenda No	Description	File No.	Minutes
a)	Confirmation of the minutes of the 658 th meeting of the Authority held on 26.09.2023 & 27.09.2023.		The minutes of the 658 th meeting of the Authority held on 26.09.2023 & 27.09.2023 was confirmed.
b)	The Action taken on the decisions of the 658 th meeting of the Authority held on 26.09.2023 & 27.09.2023.		The Member Secretary informed that 658 th Minutes uploaded in Parivesh website and action taken report will be putup ensuing meeting.
1.	Existing Multicolour Granite Quarry over an extent of 3.44.5 Ha at S.F. No. 59/2B, 59/3A(P), 59/3B, 60/2A & 3A of Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Thiru G.Udhayakumar - For extension of validity of Environmental Clearance. (SIA/TN/MIS/298448/2022)	4973	The Authority noted that the subject was placed in the 408 th meeting of SEAC held on 08.09.2023 and the SEAC has sought certain additional details from the PP. The proponent is advised to submit the above-mentioned details within a period of 30 days failing which the proposal will be automatically delisted from the PARIVESH Portal. Further the Authority decided to request the Member Secretary, SEIAA TN to address the PCCF/Chief Wildlife Warden, Government of Tamil Nadu requesting him to furnish the details of ESZ notified for Cauvery South Wildlife Sanctuary.
2.	Existing Rough stone quarry over an Extent of 2.70.34 Hectares of Patta land in S.F.Nos. 159/2(P), 159/3(P), 159/4(P), 159/5(P) and 159/16(P) of Vellar Village, Mettur Taluk, Salem District, Tamil Nadu by Thiru. P. Manjunath - Environmental Clearance for next	9873	The Authority noted that the subject was placed in the 408 th meeting of SEAC held on 08.09.2023 and the SEAC has furnished its recommendations for the grant of Environmental Clearance to the project subject to the conditions stated therein. After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific


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	<p>scheme of mining. (SIA/TN/MIN/420863/2023)</p>	<p>and systematic mining, decided to grant Environmental Clearance for the quantity of 541770 m³ of Rough stone upto the restricted depth of 66m (30m AGL + 36m BGL) and the annual peak production should not exceed 140380 m³ of Rough stone as per the approved mining plan. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <ol style="list-style-type: none"> 1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period. 2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of mine plan period till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented. 3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life. 4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP. 5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project
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			<p>Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</p> <p>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p>
3.	<p>Existing Multi Colour Granite lease over an extent of 3.29.0 Ha at S.F.No. 1320 /2A, 1323/1B1, 1323/1B2, 1325/4B, 1325/5A1, 1325/5A2, 1325/5A3, 1325/5A4, 1325/5A5, 1325/5A6, 1325/5B1 & 1325/5B2, in Thiruthangal Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by Tvl. STANCO Traders - Environment Clearance. (SIA/TN/MIN/424980/2023)</p>	9919	<p>The Authority noted that the subject was placed in the 408th meeting of SEAC held on 08.09.2023 and the SEAC has furnished its recommendations for the grant of Environmental Clearance to the project subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority decided to seek the following additional particulars from the PP:</p> <ol style="list-style-type: none"> 1. SEIAA noted that the proposed ultimate depth and production plan is 105m. Whereas the water table is 60m-70m. Will the working impact the water table and what is the mitigation action planned for prevention of ground water depletion and pollution. 2. Details of plantation to be done and that already done along with the cost incurred shall be furnished.


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			<ol style="list-style-type: none"> 3. PP shall furnish a report on mine safety precautions, workers' safety and health precautions. 4. Action taken report on the non-compliances mentioned in the CCR. 5. Action taken to maintain and restore the haul road. 6. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area from a reputed research institution on the following: <ol 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 distraction in the Environment. g. Bio-geochemical processes and its foot prints including environmental stress. h. Sediment geochemistry in the surface streams.
4.	Proposed Rough Stone & Gravel quarry lease over an extent of 2.25,5 ha in S.F. No. 114/1A, 115/1B & 115/2 at	8859	<p>The proposal was placed in the 408th SEAC Meeting held on 08.09.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC decided to</p>


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	<p>Kodangipalayam Village, Palladam Taluk, Tiruppur District, Tamil Nadu by Thiru. M.Venkatesh - For Environmental Clearance. (SIA/TN/MIN/437289/2023)</p>	<p>recommend the proposal for the grant of Environmental Clearance.</p> <p>Authority after detailed deliberation, decided to call for additional details</p> <ol style="list-style-type: none"> 1. Cochin – Coimbatore – Karur (CCK) pipeline is 227m from the project site. <u>As per Tamil Nadu Minor Mineral Concession Rules, 1959 under section V – Miscellaneous in para 36. General restrictions in respect of quarrying operations; (c)</u> <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 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 obtain NOC from the Director of Geology and Mining</p> 2. The proponent shall study the impact on the agricultural activity nearby the proposed site and its mitigation measures. <p>Upon the receipt of the above – mentioned details, further deliberation shall be done.</p>
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5.	Proposed Rough Stone & Gravel Quarry lease over an extent of 2.29.0 Ha at S.F. Nos. 89/1A (PART) of Ponnangalam Village, Tirumangalam Taluk, Madurai District, Tamil Nadu by Thiru. M. Vasanthkumar - For Environmental Clearance. (SIA/TN/MIN/426169/2023)	10004	<p>The proposal was placed in the 408th SEAC Meeting held on 08.09.2023.</p> <p>During the presentation, it has been justified that the proposed quarry falls under cluster situation, the PP is requested to obtain a revised 500m cluster certificate from the competent authority by indicating the list of Existing, Abandoned and Proposed Quarries in the lease area. Further the PP is hereby instructed to apply for ToR under B1 Category with all relevant documents.</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 408th SEAC Meeting held on 08.09.2023 to the project proponent.</p>
6.	Proposed Multi colour Granite Quarry lease over an extent of 4.41.0 Ha at S.F.Nos. 1332/1, 1332/2A, 1332/2B, 1324/1, 1325/1, 1327/2A, 1327/2B1 & 1327/2B2 of Thiruthangal Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by Tvl. Stanco Traders Granite Division - For Environmental Clearance. (SIA/TN/MIN/424891/2023)	9920	<p>The authority noted that the subject was appraised in the 408th SEAC meeting held on 08.09.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to grant of Terms of Reference (TOR) under Violation category, subject to the TORs stated therein, in addition to the standard terms of reference for EIA study for non-coal mining projects and ToR given in Annexure-I, the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants. Terms of Reference issued are subject to the outcome of the final orders of the Hon'ble High Court of Madras in the matter of W.P.(MD) No. 11757 of 2021.</p>

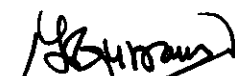

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		<p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) under violation category for undertaking EIA study followed by the EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants subject to the conditions as recommended by SEAC & normal / Standard conditions in addition to the following conditions and conditions stated therein vide Annexure 'B'.</p> <ol style="list-style-type: none"> 1. The PP shall furnish a Copy of valid mining lease approval obtained from the competent Authority. 2. The PP shall furnish Copy of mining plan approved by the competent authority of the Dept of Geology and Mining. 3. The PP shall furnish EMP for the project life including progressive mine closure plan and final mine closure plan with detailed budget plan. 4. The PP shall study in detail about the CO₂ release and temperature rise and the project activities that add to micro climate alternations and the same shall be included in the final EIA report. 5. The PP shall study in detail about impact of the proposed mining activity on the water bodies and natural flow of surface and ground water and the same shall be included in the final EIA report.
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			<p>6. The PP shall study in detail about Possibilities of water contamination and impact on aquatic ecosystem health.</p> <p>7. The PP shall study the impact on Invasive Alien Species (IAP).</p>
7.	Existing Magnesite Mine lease over an extent of 2.56.9 Ha in S.F.No. 36 (Part) of Kondappanaickenpatty Village, Salem Taluk, Salem District, Tamil Nadu by Thiru. G.Rajkumar (Proprietor M/s. Universal Mining Corporation) for Environmental Clearance under 'violation category'. (SIA/TN/MIN/437204/2023)	6109	<p>The authority noted that the subject was appraised in the 408th SEAC meeting held on 08.09.2023. During the meeting, the SEAC decided to defer the proposal as the PP wanted time to submit more information.</p> <p>The Authority noted the minutes of SEAC.</p>
8.	Existing Magnesite Mine lease over an extent of 2.57.0 Ha in S.F.No. 77 of Kondappanaickenpatty Village, Salem Taluk, Salem District, Tamil Nadu by Thiru. G.Pasupathi (Proprietor M/s. Sudharshaan Mining Corporation) for Environmental Clearance under 'violation category'. (SIA/TN/MIN/437134/2023)	6137	<p>The authority noted that the subject was appraised in the 408th SEAC meeting held on 08.09.2023. During the meeting, the SEAC decided to defer the proposal as the PP wanted time to submit more information.</p> <p>The Authority noted the minutes of SEAC.</p>
9.	Proposed Rough Stone Quarry Lease over an extent of 1.00.0 Ha at S.F.No. 158/1 (Part-2) (Bit-1) of Periyagoundapuram Village, Vazhapadi Taluk, Salem District, Tamil Nadu by Thiru. C. Vijayakumar - for Environmental	8118	<p>The authority noted that the subject was appraised in the 408th SEAC meeting held on 08.09.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the</p>


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	<p>Clearance (SIA/TN/MIN/436891/2023)</p>	<p>safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of 1,78,572m³ of rough stone up to the depth of 61m (21m Above Ground level + 40m Below Ground Level) and the annual peak production should not exceed 37,642m³ of rough stone. This is also subject to the conditions imposed by SEAC, normal conditions stipulated by MOEF&CC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <ol style="list-style-type: none"> 1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period. 2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every mine plan period, till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented. 3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life. 4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP. 5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-
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			<p>monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</p> <p>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p>
10.	Proposed Rough Stone and Gravel Quarry lease over an extent of 2.42.0 Ha at S.F.Nos. 89/4B (P) & 92/2 of Kodangipalayam Village, Palladam Taluk, Tiruppur District, Tamil Nadu by Thiru. K.M.Chinnaswamy – for Environmental Clearance (SIA/TN/MIN/436977/2023)	8601	<p>The authority noted that the subject was appraised in the 408th SEAC meeting held on 08.09.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>The Authority, after deliberations decided to consider the proposal after obtaining the following details from the project proponent:</p> <p>i) From the minutes of the Public hearing meeting conducted on 18.05.2023, it was ascertained that Cochin – Coimbatore – Karur (CCK) pipeline is situated near the project site. Hence, the proponent is requested to obtain NOC from the Director of Geology and Mining for carrying out mining activity in the proposed area.</p>


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			<p>ii) The proponent shall study the impact on the agricultural activity nearby the proposed site and its mitigation measures.</p> <p>Upon the receipt of the above – mentioned details, further deliberation shall be done.</p>
11.	Proposed Rough Stone & Gravel Quarry lease over an extent of 2.00.5 Ha (Patta land) in S.F.Nos. 232/1B & 233/4B of Kokkalai Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu by Thiru. C. Sivakumar – for Environmental Clearance (SIA/TN/MIN/437764/2023)	8615	<p>The authority noted that the subject was appraised in the 408th SEAC meeting held on 08.09.2023. Based on the presentation and details furnished by the project proponent, the Committee decided to call for the following details from the project proponent to consider the proposal for appraisal:</p> <p>i) The project proponent shall submit a Certified Compliance Report as per the MoEF&CC O.M dated.08.06.2022 for the previous EC obtained from SEIAA-TN dated.19.03.2015.</p> <p>The Authority noted the minutes of SEAC.</p>
12.	Proposed Rough Stone and Gravel Quarry lease over an extent of 3.32.78 Ha at S.F.Nos. 112 (P), 113/4B (P) & 115/1A of Kodangipalayam Village, Palladam Taluk, Tiruppur District, Tamil Nadu by Thiru. M.Venkatesh – for Environmental Clearance (SIA/TN/MIN/437442/2023)	8832	<p>The authority noted that the subject was appraised in the 408th SEAC meeting held on 08.09.2023. Based on the presentation and the documents submitted by the proponent in the PARIVESH Portal, the SEAC observed that the proposed area has been earlier quarried by the same proponent in two spells: from 31.03.2006 to 30.03.2011 & from 09.04.2012 to 08.04.2017. But the proponent has not furnished the details of any EC obtained earlier. In this regard the Committee decided that the proponent shall furnish the details regarding the period of the quarrying operations carried out & the quantity of mineral mined after 15.01.2016 obtained from the AD/DD of Dept. of Geology & Mining, to decide on the proposal further.</p>

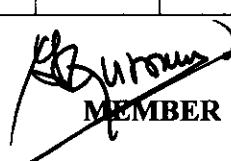

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			The Authority noted the minutes of SEAC.
13.	Proposed Rough Stone & Gravel quarry lease over an extent of 1.41.0 Ha at S.F.No. 617/2 of Munnur Village, Pugalur Taluk, Karur District, Tamil Nadu by Mr. G. Prabhakar – For Environmental Clearance. (SIA/TN/MIN/408627/2022)	9612	<p>The authority noted that the subject was appraised in the 408th SEAC meeting held on 08.09.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of 96,525m³ of rough stone & 7560m³ of gravel up to the depth of 30m Below Ground Level and the annual peak production should not exceed 20,740m³ of Rough stone. This is also subject to the conditions imposed by SEAC, normal conditions stipulated by MOEF&CC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <ol style="list-style-type: none"> 1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period. 2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every mine plan period, till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented. 3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC


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			<p>while seeking a renewal of the mining plan to cover the project life.</p> <p>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</p> <p>5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</p> <p>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p>
14.	Existing multi-colour granite quarry lease over an extent of 1.21.5 Ha at S.F.No. 1323/1A & 1302/2 of Thiruthangal Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by Tvl. Stanco Traders - For Environmental Clearance (SIA/TN/MIN/424857/2023)	9921	The authority noted that the subject was appraised in the 408 th SEAC meeting held on 08.09.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to grant of Terms of Reference (TOR) under Violation category , subject to the TORs stated therein, in addition to the standard terms of reference for EIA study for non-coal mining projects and ToR given in Annexure-I, the EIA/EMP report along with assessment of


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		<p>ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants. Terms of Reference issued are subject to the outcome of the final orders of the Hon'ble High Court of Madras in the matter of W.P.(MD) No. 11757 of 2021.</p> <p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) under violation category for undertaking EIA study followed by the EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants subject to the conditions as recommended by SEAC & normal / Standard conditions in addition to the following conditions and conditions stated therein vide Annexure 'B'.</p> <ol style="list-style-type: none"> 1. The PP shall furnish a Copy of valid mining lease approval obtained from the competent Authority. 2. The PP shall furnish Copy of mining plan approved by the competent authority of the Dept of Geology and Mining. 3. The PP shall furnish EMP for the project life including progressive mine closure plan and final mine closure plan with detailed budget plan. 4. The PP shall study in detail about the CO₂ release and temperature rise and the project activities that add to micro climate
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			<p>alternations and the same shall be included in the final EIA report.</p> <p>5. The PP shall study in detail about impact of the proposed mining activity on the water bodies and natural flow of surface and ground water and the same shall be included in the final EIA report.</p> <p>6. The PP shall study in detail about Possibilities of water contamination and impact on aquatic ecosystem health.</p> <p>7. The PP shall study the impact on Invasive Alien Species (IAP).</p>
15.	Existing Educational Institutional building in S.F. No. 49 to 59, 60/1B, 60/1C, 62/1, 62/2, 62/4A, 63/1, 64/1A, 64/1B, 64/3A, 64/3B, 64/4, 65, 66, 67, 68 to 77, 79 to 82, 83/2, 84/1A, 84/1B, 84/2A, 84/2B, 85, 86/1, 86/2, 87/1, 87/2, 118/1A, 118/1B1, 118/2A, 118/2B, 119, 120, 121/1, 121/2, 121/3, 121/4A, 121/4B, 122/1A, 122/1B, 122/2, 123/1, 123/2, 128/1A1, 128/1A2, 128/2, 128/3, 129/2A, 129/2B, 130/1, 130/2, 131 to 151, 153 to 158, 159/1, 159/2A, 161/1, 161/2, 162, 169/2, 169/3A, 169/3B, 170/1, 197/1A, 198/2B1, 198/3, 198/4A & 198/4B of Kalavakkam Village and Survey Nos. 1034, 1035, 1036, 1037, 1038, 1039, 1040/1B, 1040/2B, 1041, 1046, 1047, 1048,	513	<p>The authority noted that the subject was appraised in the 408th SEAC meeting held on 08.09.2023. SEAC has furnished its recommendations to the Authority for granting Environmental Clearance to the Project subject to the conditions stated therein. After detailed discussion, the Authority decided to request the Member Secretary, SEIAA to inform the proponent to furnish the following particulars as recommended by SEAC in the Minutes of 408th SEAC meeting held on 08.09.2023.</p> <p>1. The project proponent shall remit the amount prescribed for Ecological remediation (Rs. 2.864 crores), natural resource augmentation (Rs. 5.729 crores) & community resource augmentation (Rs.5.729 crores), totaling Rs. 14.322 crores in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit acknowledgement of the same to SEIAA-TN.</p>


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	1226, 1227/2A, 1227/2B, 1228, 1234, 1236, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247/1C, 1247/2, 1248/1C, 1248/2, 1395C/1A1, 1395C/2A, 1395C/4B, 1415 of Thaiyur B Village, Tiruporur Taluk, Chengalpattu District, Tamil Nadu by M/s. SSN Trust – For Environmental clearance. (SIA/TN/INFRA2/429590/2023)		2. The project proponent shall submit the proof for the action taken by the State Government/TNPCB against the project proponent under the provisions of Section 19 of the Environment (Protection) Act 1986 as per the EIA notification dated 14.03.2017 and amended 08.03.2018.
16.	Proposed Rough Stone, Jelly and Gravel quarry lease over an extent of 4.97.0Ha at SF.No.530/3A, 531/1A, 532, 533/1, 568/5A(P) and 569/3A of Tharuvai Village, Palayamkottai Taluk, Tirunelveli District Tamil Nadu by Thiru.S.Kasirajan- for Environmental Clearance. (SIA/TN/MIN/437108/2023)	7174	<p>The authority noted that the subject was appraised in the 408th SEAC meeting held on 08.9.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects, and to ensure sustainable, scientific and systematic mining, SEIAA decided to grant Environmental Clearance for the quantity of 7,52,466m³ of Rough stone and 24,080m³ of Gravel up to the depth of mining 48m BGL and the annual peak production should not exceed 1,54,495m³ of Rough stone and 24,080m³ of Gravel. This is also subject to the conditions imposed by SEAC, normal conditions stipulated by MOEF&CC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <p>1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental</p>


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		<p>Clearance is valid as per the approved mine plan period.</p> <ol style="list-style-type: none"> 2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every mine plan period, till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented. 3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life. 4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP. 5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login. 6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.
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			7. Public Hearing points raised and commitments of the Project Proponent on the same along with Action Plan with budgetary provisions to implement the same should be provided before obtaining CTO from TNPCB.
17.	Proposed Rough Stone and Gravel quarry lease over an extent of 1.99.5Ha at SF.No. 114/1B and 114/1C of Kodangipalayam Village, Palladam Taluk, Tiruppur District, Tamil Nadu by Thiru.R.Subramaniam - for Environmental Clearance. (SIA/TN/MIN/437092/2023)	8623	<p>The proposal was placed in the 408th SEAC Meeting held on 08.09.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance.</p> <p>Authority after detailed deliberation, decided to call for additional details,</p> <ol style="list-style-type: none"> 1. Cochin – Coimbatore – Karur (CCK) pipeline is nearby the project site. <p><u>As per Tamil Nadu Minor Mineral Concession Rules, 1959 under section V – Miscellaneous in para 36. General restrictions in respect of quarrying operations; (c)</u></p> <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 the case may be of any quarry which is situated within 300 metres from the now layout, building sought for such “clearance”.</i></p>


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			<p>Hence, the proponent is requested to obtain NOC from the Director of Geology and Mining.</p> <p>2. The proponent shall study the impact on the agricultural activity nearby the proposed site and its mitigation measures.</p> <p>Upon the receipt of the above – mentioned details, further deliberation shall be done.</p>
18.	<p>Proposed Multi Colour Granite quarry lease over an extent of 2.13.0Ha at SF.No. 913/2B(Part) of Alambadi Village, Gujiliamparai Taluk, Dindigul District, Tamil Nadu by Tvl.S.G.Granites - for Environmental Clearance. (SIA/TN/MIN/436636/2023)</p>	8798	<p>The authority noted that this proposal was placed for appraisal in 408th meeting of SEAC held on 08.09.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority decided to grant Environmental Clearance for the quantity of 35,750m³ of RoM [12,513m³ of Multi-colour Granite @ Recovery 35% + 23,237m³ of Granite waste @ 65%] up to the depth of mining 32m BGL and the annual peak production should not exceed the quantity of 7,975m³ of RoM [2,791m³ of Multi-colour Granite @ Recovery 35% + 5,184m³ of Granite waste @ 65%] as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <p>1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O.</p>


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			<p>1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</p> <ol style="list-style-type: none"> 2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented. 3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life. 4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP. 5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login. 6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also
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			<p>should be brought to the notice of concerned authorities during inspections.</p> <p>7. The project proponent shall store/ the granite waste generated within the earmarked area of the project site for mine closure as per the approved mining plan.</p>
19.	Proposed Rough stone and Gravel quarry lease over an extent of 2.27.5Ha at SF. Nos. 48/4 (Part) & 48/5A (Part) of Palur Village, Cheyyur Taluk, Chengalpattu District, Tamil Nadu by M/s. Bommi Marines Private Limited - For Environmental Clearance. (SIA/TN/MIN/410043/2022)	9640	<p>The authority noted that the subject was appraised in the 408th SEAC meeting held on 08.9.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects, and to ensure sustainable, scientific and systematic mining, SEIAA decided to grant Environmental Clearance for the quantity of 3,49,899m³ of Rough stone and 36,894m³ of Gravel up to the depth of mining 43m BGL and the annual peak production should not exceed 84,780m³ of Rough stone and 15,480m³ of Gravel. This is also subject to the conditions imposed by SEAC, normal conditions stipulated by MOEF&CC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <ol style="list-style-type: none"> 1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period. 2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every mine plan period, till the



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		<p>project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</p> <ol style="list-style-type: none"> 3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life. 4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP. 5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login. 6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections. 7. The PP shall comply with all non-compliance items in Certified Compliance Report and the PP shall furnish appropriate mitigating measures for the non-compliance items, before obtaining CTO from TNPCB.
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			8. The PP shall furnish fresh compliance report by April 2024 to SEIAA and TNPCB.
20.	Proposed Rough Stone quarry lease area over an extent of 2.60.0 Ha at S.F.No. 166 (P) of Pirattiyur (East) Village, Tiruchirapalli West Taluk, Tiruchirapalli District, Tamil Nadu by Thiru. J. Bosco Arokiaraj - For Environmental Clearance. (SIA/TN/MIN/436623/2023)	8190	<p>The authority noted that the subject was appraised in the 408th SEAC meeting held on 08.09.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of 3,63,810 m³ of Rough Stone up to the ultimate depth of 45m (5m above ground level + 40m below ground level) and the annual peak production should not exceed 84,840 m³ of Rough Stone. This is also subject to the conditions imposed by SEAC, normal conditions stipulated by MOEF&CC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <ol style="list-style-type: none"> 1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period. 2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every mine plan period, till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.


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			<ol style="list-style-type: none"> 3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life. 4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP. 5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login. 6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections. 7. The proponent shall take mitigation measures for all the suggestions made by the Public.
21.	Proposed Rough Stone and Gravel quarry lease area over an extent of	8883	The authority noted that the subject was appraised in the 408 th SEAC meeting held on 08.09.2023.


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<p>2.19.0 Ha at S.F.Nos. 220/2 & 220/3 of Aladipatti Village, Aruppukkottai Taluk, Virudhunagar District, Tamil Nadu by Thiru. M. Duraipandian - For Environmental Clearance. (SIA/TN/MIN/437047/2023)</p>	<p>SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of 2,20,587 m³ of Rough Stone up to the ultimate depth of 35m below ground level and the annual peak production should not exceed 61,902 m³ of Rough Stone. This is also subject to the conditions imposed by SEAC, normal conditions stipulated by MOEF&CC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <ol style="list-style-type: none"> 1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period. 2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every mine plan period, till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented. 3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life. 4. The progressive and final mine closure plan including the green belt implementation and
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			<p>environmental norms should be strictly followed as per the EMP.</p> <p>5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</p> <p>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p> <p>The proponent shall take mitigation measures for all the suggestions made by the Public</p>
22.	Existing Rough stone & Gravel quarry lease over an extent of 1.57.5ha at S.F.No.232/2 in Kokkalai Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu by Tmt. P.Ramayee - For Environmental Clearance. (SIA/TN/MIN/437716/2023)	7855	<p>The Authority noted that the subject was appraised in the 408th SEAC meeting held on 08.09.2023. After presentation, SEAC decided to call for additional particulars as follows.</p> <p>1. The PP shall furnish Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and with mitigation measures for the non-compliance Stated therein.</p>


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			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 08.09.2023.
23.	Proposed Black Granite Quarry lease over an extent of 0.76.0Haat S.F.No.132/1A, 132/1B, 132/1C & 132/1Dof Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Tmt. Mohana Gopinath (Legal Heir of Late.Thiru.A.Gopinath) -For Environmental Clearance. (SIA/TN/MIN/179439/2020)	8023	The Authority noted that the subject was appraised in the 408 th SEAC meeting held on 08.09.2023. During the meeting the Committee noted that the project proponent is absent for the meeting. Hence the subject was not taken up for discussion. 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 08.09.2023.
24.	Existing Limestone Mine over an extent of 4.71.5 Ha at S.F.Nos. 116/1(P), 123/2B(P), 123/2C, 123/2D, 123/2E1B, 123/2E1C, 123/2E1G(P), 123/2E1D & 123/2E1F(P) of Chinnagoundanur Village, Sankari Taluk, Salem District, Tamil Nadu by Tvl. Mahalakshmi Mines & Pulverisers - For Environmental Clearance (Under Violation Category) (SIA/TN/MIN/ 69745/2018)	6239	. The Authority noted that the subject was appraised in the 408 th SEAC meeting held on 08.09.2023. The SEAC has observed that the Mining of Limestone in an extent of 4.71.5 Ha at S.F.No. 116/1(P), 123/2B(P), 123/2C, 123/2D, 123/2E1B, 123/2E1C, 123/2E1G(P), 123/2E1D & 123/2E1F(P) of Chinnagoundanur Village, Sankari Taluk, Salem District for Environmental Clearance under violation comes under the “ Low level Ecological damage category ”. After detailed deliberation, the SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding ROM production of 51840 tonnes which includes 15552 tonnes of Usable Limestone and 36288 tonnes of Interstitial waste with an ultimate depth of mining 50 m below ground level subject to the standard conditions & normal conditions stipulated by

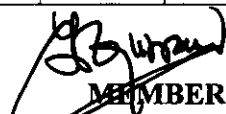

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		<p>MOEF &CC, in addition to the following specific conditions.</p> <p>After detailed discussion, the Authority decided to obtain the following:</p> <ol style="list-style-type: none"> 1. The amount prescribed for Ecological remediation (Rs. 10.0 Lakhs), natural resource augmentation (Rs. 10.0 lakhs) & community resource augmentation (Rs. 10.5 Lakhs), totaling Rs. 30.5 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 30.5 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report. 2. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018. 3. The company shall obtain 'No Dues Certificate' from State Government i.e. Department of Geology & Mining within a period of two weeks and submit the same to SEAC before grant of EC. 4. Copy of approved review of scheme of mining plan by the competent authority.
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			On receipt of above details, the Member Secretary is requested to place the proposal before the Authority for further course of action.
25.	Proposed Multi Colour Granite Quarry over an extent of 1.93.0Ha at S.F.No. 1320/1A, 1320/1B1, 1320/1B2, 1322/1A, 1322/1C, 1322/1B, 1325/3A, 1325/3B, 1325/2B4, 1325/2B5 & 1325/2B6 of Thiruthangal Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by Tvl. Stanco Traders-For Environmental Clearance. (SIA/TN/MIN/424931/2023)	9918	<p>The Authority noted that the subject was appraised in the 408th SEAC meeting held on 08.09.2023. From the Presentation made by the PP and documents submitted, it is further ascertained that the proponent has exceeded the quantity and depth against the approved mining plan. In view of the above, SEAC decided to grant of Terms of Reference (ToR) under Violation category, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants. The grant of Terms of Reference (TOR) under Violation category does not entail EC which is subject to the outcome of the final orders of the Hon'ble High Court of Madras in the matter of W.P.(MD) No. 11757 of 2021.</p> <p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) under violation category for undertaking EIA study followed by the EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the</p>



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		<p>accredited consultants subject to the conditions as recommended by SEAC & normal / Standard conditions in addition to the following conditions and conditions stated therein vide Annexure 'B'.</p> <ol style="list-style-type: none"> 1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance. 2. The proponent shall withdraw the pending EC application SIA/TN/IMN/420624/2023, Dated 09.03.2023 (9918/2022) from PARIVESH Portal. 3. The PP shall furnish Copy of valid mining lease approval obtained from the competent Authority. 4. The PP shall furnish Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining. 5. The PP shall furnish EMP for the project life including progressive mine closure
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		<p>plan and final mine closure plan with detailed budget plan.</p> <p>6. The PP shall study in detail about CO₂ release and temperature rise and add to micro climate alternations and the same shall be included in the final EIA report.</p> <p>7. The PP shall study in detail about impact on the water bodies and natural flow of surface and ground water and the same shall be included in the final EIA report.</p> <p>8. The PP shall study in detail about Soil health, Climate change leading to Droughts, Floods etc.</p> <p>9. The PP shall study in detail about release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.</p> <p>10. The PP shall study in detail about Possibilities of water contamination and impact on aquatic ecosystem health.</p> <p>11. The PP shall study in detail about impact on flora, fauna, biodiversity and water table and the same shall be included in the final EIA report.</p> <p>12. The PP shall study the impact on Invasive Alien Species (IAP).</p> <p>In case the PP does not furnish Chapter 13 as directed by SEAC, MS, SEIAA may refer the file to SEAC for further action.</p>
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Annexure 'A'

a) EC Compliance

1. The Environmental Clearance is accorded based on the assurance from the project proponent that there will be full and effective implementation of all the undertakings given in the


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Application Form, Pre-feasibility Report, mitigation measures as assured in the Environmental Impact Assessment/ Environment Management Plan and the mining features including Progressive Mine Closure Plan as submitted with the application.

2. All the conditions as presented by the proponent in the PPT during SEAC appraisal should be addressed in Full.
3. The proponent shall submit Compliance Reports on the status of compliance of the stipulated EC conditions including results of monitored data. It shall be sent to the respective Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA).
4. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

b) Applicable Regulatory Frameworks

5. The project proponent shall strictly adhere to the provisions of Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006, Wildlife Protection Act, 1972, Forest Conservation Act, 1980, Biodiversity Conservation Act, 2016, the Biological Diversity Act, 2002, Biological diversity Rules, 2004 & TN Forest Act, 1882 and Rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter

c) Safe mining Practices

6. The AD/DD, Dept. of Geology & Mining shall ensure operation of the proposed quarry after the submission slope stability study conducted through the reputed research & Academic Institutions such as NIRM, IITs, NITS Anna University, and any CSIR Laboratories etc.
7. The AD/DD, Dept. of Geology & Mining & Director General of Mine safety shall ensure strict compliance and implementation of bench wise recommendations/action plans as recommended in the scientific slope stability study of the reputed research & Academic Institutions as a safety precautionary measure to avoid untoward accidents during mining operation.


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8. A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling unit or other structures, and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendations of SEAC depending on specific local conditions.

d) Water Environment – Protection and mitigation measures

9. The proponent shall ensure that the activity does not disturb the water bodies and natural flow of surface and groundwater, nor cause any pollution, to water sources in the area.

10. The proponent shall ensure that the activities do not impact the water bodies/wells in the neighboring open wells and bore wells. The proponent shall ensure that the activities do not in any way affect the water quantity and quality in the open wells and bore wells in the vicinity or impact the water table and levels. The proponent shall ensure that the activities do not disturb the river flow, nor affect the Odai, Water bodies, Dams in the vicinity.

11. Water level in the nearest dug well in the downstream side of the quarry should be monitored regularly and included in the Compliance Report.

12. Quality of water discharged from the quarry should be monitored regularly as per the norms of State Pollution Control Board and included in the Compliance Report.

13. Rain Water Harvesting facility should be installed as per the prevailing provisions of TNMBR/TNCDBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.

14. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the compliance reports to SEIAA.

15. Regular monitoring of ground water level and water quality shall be carried out around the mine area during mining operation. At any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.

16. Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.

e) Air Environment – Protection and mitigation measures

17. The activity should not result in CO₂ release and temperature rise and add to micro climate alternations.


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18. The proponent shall ensure that the activities undertaken do not result in carbon emission, and temperature rise, in the area.

19. The proponent shall ensure that Monitoring is carried out with reference to the quantum of particulate matter during excavation; blasting; material transport and also from cutting waste dumps and haul roads.

f) Soil Environment – Protection and mitigation measures

20. The proponent shall ensure that the operations do not result in loss of soil biological properties and nutrients.

21. The proponent shall ensure that activity does not deplete the indigenous soil seed bank and disturb the mycorrhizal fungi, soil organism, soil community nor result in eutrophication of soil and water.

22. The activities should not disturb the soil properties and seed and plant growth. Soil amendments as required to be carried out, to improve soil health.

23. Bio remediation using microorganisms should be carried out to restore the soil environment to enable carbon sequestration.

24. The proponent shall ensure that the mine restoration is done using mycorrhizal VAM, vermin-composting, Biofertilizers to ensure soil health and biodiversity conservation.

25. The proponent shall ensure that the topsoil is protected and used in planting activities in the area.

26. The proponent shall ensure that topsoil to be utilized for site restoration and Green belt alone within the proposed area.

27. The top soil shall be temporarily stored at earmarked place (s) and used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geotextile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.

28. Activities should not result in invasion of site by exotic and alien plant and animal species and disturb the native biodiversity and soil micro flora and fauna.

g) Noise Environment – Protection and mitigation measures

29. The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.


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30. The sound at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Hence, the PP shall ensure that the biological clock of the villages are not disturbed because of the mining activity.

h) Biodiversity - Protection and mitigation measures

31. 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.

32. No trees in the area should be removed and all the trees numbered and protected. In case trees fall within the proposed quarry site the trees may be transplanted in the Greenbelt zone. The proponent shall ensure that the activities in no way result in disturbance to forest and trees in vicinity. The proponent shall ensure that the activity does not disturb the movement of grazing animals and free ranging wildlife. The proponent shall ensure that the activity does not disturb the biodiversity, the flora & fauna in the ecosystem. The proponent shall ensure that the activity does not result in invasion by invasive alien species. The proponent shall ensure that the activities do not disturb the resident and migratory birds. The proponent shall ensure that the activities do not disturb the vegetation and wildlife in the adjoining reserve forests and areas around.

33. The proponent shall ensure that the activities do not disturb the agro biodiversity and agro farms. Actions to be taken to promote agroforestry, mixed plants to support biodiversity conservation in the mine restoration effort.

34. 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.

35. 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.

i) Climate Change

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

37. There should be least disturbance to landscape resulting in land use change, contamination and alteration of soil profiles leading to Climate Change.

38. Intensive mining activity should not add to temperature rise and global warming.

39. Operations should not result in GHG releases and extra power consumption leading to Climate Change.


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40. Mining through operational efficiency, better electrification, energy use, solar usage, use of renewable energy should try to decarbonize the operations.
41. Mining Operation should not result in droughts, floods and water stress, and shortages, affecting water security both on site and in the vicinity.
42. Mining should not result in water loss from evaporation, leaks and wastage and should support to improve the ground water.
43. Mining activity should be flood proof with designs and the drainage, pumping techniques shall ensure climate-proofing and socio-economic wellbeing in the area and vicinity.

j) Reserve Forests & Protected Areas

44. The activities should provide nature based support and solutions for forest protection and wildlife conservation.
45. The project activities should not result in forest fires, encroachments or create forest fragmentation and disruption of forest corridors.
46. There should be no disturbance to the freshwater flow from the forest impacting the water table and wetlands.
47. The project proponent should support all activities of the forest department in creating awareness to local communities on forest conservation.
48. The project activities should not alter the geodiversity and geological heritage of the area.
49. The activities should not result in temperature rise due to increased fossil fuels usage disrupting the behaviour of wildlife and flora.
50. The activities should support and recognise the rights and roles of indigenous people and local communities and also support sustainable development.

51. The project activities should support the use of renewables for carbon capture and carbon storage in the project site and forest surrounds.
52. The project activities should not result in changes in forest structure, habitats and genetic diversity within forests.

k) Green Belt Development

53. The proponent shall ensure that in the green belt development more indigenous trees species (Appendix as per the SEAC Minutes) are planted.
54. The proponent shall ensure the area is restored and rehabilitated with native trees as recommended in SEAC Minutes (in Appendix).

l) Workers and their protection


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55. The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying /Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.
56. The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.
57. The workers shall be employed for working in the mines and the working hours and the wages shall be implemented/enforced as per the Mines Act, 1952.

m) Transportation

58. No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a bypass road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.
59. The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

n) Storage of wastes


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60. The project proponent shall store/dump the waste generated within the earmarked area of the project site for mine closure as per the approved mining plan.

o) CER/EMP

61. The CER should be fully Implemented and fact reflected in the Half-yearly compliance report.

62. The EMP shall also be implemented in consultation with local self-government institutions & Govt. departments.

63. The follow-up action on the implementation of CER Shall be included in the compliance report.

p) Directions for Reclamation of mine sites

64. 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.

65. 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.

66. A crucial factor for success of reclamation site is to select sustainable species to enable develop a self-sustaining eco system. Species selected should easily establish, grow rapidly, and possess good crown and preferably be native species. Species to be planted in the boundary of project site should be un palatable for cattle's/ goats and should have proven capacity to add leaf-litter to soil and decompose. The species planted should be adaptable to the site conditions. Should be preferably pioneer species, deciduous in nature to allow maximum leaf-litter, have deep root system, fix atmospheric nitrogen and improve soil productivity. Species selected should have the ability to tolerate altered pit and toxicity of and site. They should be capable of meeting requirement of local people in regard to fuel fodder and should be able to attract bird, bees and butterflies. The species should be planted in mixed association.

67. For mining area reclamation plot culture experiments to be done to identify/ determine suitable species for the site.

68. 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.


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69. Soil and moisture conservation and water harvesting structures to be used where ever possible for early amelioration and restoration of site.
70. 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.
71. 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.
72. 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.
73. 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.
74. Alkaline soils, acidic soils, Saline soils should be suitably treated/amended using green manure, mulches, farmyard manure to increase organic carbon. The efforts should be taken to landscape and use the land post mining. The EMP and mine closure plan should provide adequate budget for re-establishing the site to pre-mining conditions. Effective steps should be taken for utilization of over burden. Mine waste to be used for backfilling, reclamation, restoration, and rehabilitation of the terrain without affecting the drainage and water regimes. The rate of rehabilitation should be similar to rate of mining. The land disturbed should be reshaped for long term use. Mining should be as far as possible be eco-friendly. Integration of rehabilitation strategies with mining plan will enable speedy restoration.
75. Efforts should to taken to aesthetically improve the mine site. Generally, there are two approaches to restoration i.e Ecological approach which allows tolerant species to establish following the succession process allowing pioneer species to establish. The other approach i.e plantation approach is with selected native species are planted. A blend of both methods may be used to restore the site by adding soil humus and mycorrhiza.
76. Action taken for restoration of the site should be specifically mentioned in the EC compliances.


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Annexure 'B'

Cluster Management Committee

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

Impact study of mining

12. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area covering the entire mine lease period as per precise area communication order issued from reputed research institutions on the following
 - a) Soil health & soil biological, physical land chemical features .
 - b) Climate change leading to Droughts, Floods etc.
 - c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.


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- d) Possibilities of water contamination and impact on aquatic ecosystem health.
- e) Agriculture, Forestry & Traditional practices.
- f) Hydrothermal/Geothermal effect due to destruction in the Environment.
- g) Bio-geochemical processes and its foot prints including environmental stress.
- h) Sediment geochemistry in the surface streams.

Agriculture & Agro-Biodiversity

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

Forests

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

Water Environment

- 23. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working


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will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the entire mine lease period.

24. Erosion Control measures.
25. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas.
26. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.
27. The project proponent shall study and furnish the details on potential fragmentation impact on natural environment, by the activities.
28. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts.
29. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.
30. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.

Energy

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

Climate Change

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

Mine Closure Plan

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

EMP

35. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued.


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36. The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan.

Risk Assessment

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

Disaster Management Plan

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

Others

39. The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc.

40. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan.

41. The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the environment. The ecological risks and impacts of plastic & microplastics on aquatic environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.



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