

MINUTES

665th MEETING

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

Date: 26.10.2023

**MINUTES OF THE 665th MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY HELD ON 26.10.2023.**

Agenda No	Description	File No.	Minutes
a)	Confirmation of the minutes of the 664 th meeting of the Authority held on 25.10.2023.		The minutes of the 664 th meeting of the Authority held on 25.10.2023 was confirmed.
b)	The Action taken on the decisions of the 664 th meeting of the Authority held on 25.10.2023.		The Member Secretary informed that 664 th Minutes uploaded in Parivesh website and action taken report will be putup ensuing meeting.
1.	Existing Rough stone quarry lease over an extent of 1.00.0Ha (Government Tender Quarry) in S.F. No:3 (P), Santhiyur Village, Salem Taluk, Salem District, Tamil Nadu by Thiru.P.Sivanandham- For Environmental Clearance. (SIA/TN/MIN/431075/2023)	10267	<p>The authority noted that the subject was appraised in the 413th meeting of SEAC held on 05.10.2023 and SEAC decided to defer the proposal for want of additional particulars.</p> <ol style="list-style-type: none"> 1. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) for non-operation of this quarry from 28.04.2023 as per MoEF&CC O.M Dt:28.04.2023 which shall also contain the following information: <ol style="list-style-type: none"> i. Original pit dimension of the existing quarry ii. Quantity achieved Vs EC Approved Quantity iii. Balance Quantity as per Mineable Reserve calculated. iv. Mined out Depth as on date Vs EC Permitted depth v. Details of illegal/illicit mining carried out, if any vi. Non-compliance/Violation in the quarry during the past working.


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			<p>vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.</p> <p>viii. Existing condition of Safety zone/benches</p> <p>ix. Details of any penalties levied on the PP for any violation in the quarry operation by the Department of Geology and Mining.</p> <p>2. The PP shall furnish mitigation measures/remedial action plan for the non-compliance stated in the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC.</p> <p>3. The study on impact of the proposed quarrying operations on the surrounding environment which includes water bodies, etc.</p> <p>4. The PP shall obtain and furnish DFO letter regarding proximity of the proposed mining area along with recommendation on conservation measures if required.</p> <p>In view of the above, the authority noted the 413th Meeting of SEAC held on 05.10.2023.</p>
2.	Proposed Ordinary Earth quarry lease over an extent of 0.70.0Ha in S.F.No:149/1A (Part), Sembedu Village, Tiruvallur Taluk, Tiruvallur District, Tamil Nadu by Mr.R.Likkitesh, - For Environmental Clearance. (SIA/TN/MIN/436731/2023)	10274	<p>The authority noted that the subject was appraised in the 413th meeting of SEAC held on 05.10.2023. 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</p>


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		<p>and systematic mining, decided to grant Environmental Clearance for the quantity 6936 m³ of Ordinary Earth and the annual peak production shall not exceed 6936m³ of Ordinary Earth by restricting the ultimate depth of mining up to 2m BGL. 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-monthly compliance on the environmental conditions prescribed in the
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			<p>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>7. The PP shall carryout transplantaion/ plantation/ afforestation of tall native saplings in the ratio 1:10 in regard to existing the trees cut down (or) 500 Nos. of Trees per hectare of mining lease area all along the periphery within the proposed mining area and as well as avenue plantation as committed.</p>
3.	Proposed Rough stone quarry lease over an extent of 2.00.0Ha (Govt. Poramboke Land - Tender Quarry) in S.F. No:481/2 (Part-1), Musuvanoothu Village, Nilakottai Taluk, Dindigul District, Tamil Nadu by Mr.M.Bose - For Environmental Clearance. (SIA/TN/MIN/434052/2023)	10281	<p>The authority noted that the subject was appraised in the 413th meeting of SEAC held on 05.10.2023 and SEAC noticed that the proposed lease area consists of dense flora and fauna and is close to reserve forest. Hence, the Committee decided to constitute a sub-committee to make on-site inspection to assess the environmental aspects the proposed project. In view of the above, the authority noted the 413th Meeting of SEAC held on 05.10.2023.</p>
4.	Proposed Expansion for Construction of Residential Building Old S.No.132 (Part), 139-	10288	<p>The authority noted that the subject was appraised in the 413th meeting of SEAC held on 05.10.2023. SEAC has furnished its recommendations for</p>


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	1, T.S.No.15/2-2, 15/4-2/2 & 15/4-1 of Block 22, Ward No. G in Athipattu Village, Ambattur Talu, Thiruvallur District, Tamil Nadu by M/s.Nature Residences Development Private Limited - For Environmental Clearance for Expansion along with Name change from M/s. Vasathi Homes Private Limited to M/s. M/s.Nature Residences Development Private Limited. (SIA/TN/INFRA2/438516/2023)		granting Environmental Clearance subject to the conditions stated therein. After detailed discussion, SEIAA decided to grant Environmental Clearance to the proposal subject to the conditions as recommended by SEAC in addition to the following conditions in Annexure 'C' of this minutes. 1. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization and the shortfall shall be strictly reviewed and addressed.
5.	Proposed Rough Stone Quarry over an extent of 1.00.0Ha at S.F.Nos.39 (P) of Santhiyur Village, Salem Taluk, Salem District, Tamil Nadu by Tmt.K.Jayalakshmi -For Environmental Clearance. (SIA/TN/MIN/431083/2023)	10268	The authority noted that the subject was appraisal in the 413 th meeting of SEAC held on 05.10.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain the following details from the PP. 1. During the presentation, SEAC noted that from the KML file uploaded by the proponent in PARIVESH portal, it is ascertained that the proposed site has been quarried for rough stone beyond the mine lease area boundary line up to a depth of 46m on northern side. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) for Non operation of this quarry from 28.04.2023 as per MoEF&CC O.M Dt:28.04.2023 which shall also stipulate the following information: i. Original pit dimension of the existing quarry


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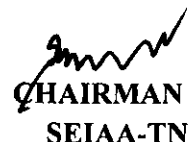

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			<ul style="list-style-type: none"> ii. Quantity achieved Vs EC Approved Quantity iii. Balance Quantity as per Mineable Reserve calculated. iv. Mined out Depth as on date Vs EC Permitted depth v. Details of illegal/illicit mining carried out, if any vi. Non-compliance/Violation in the quarry during the past working. vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land. viii. Existing condition of Safety zone/benches ix. Details of any penalties levied on the PP for any violation in the quarry operation by the Department of Geology and Mining. <ol style="list-style-type: none"> 2. The PP shall furnish mitigation measures/remedial action plan for the non-compliance stated in the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC. 3. The PP shall furnish a letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site. 4. The proponent shall enumerate on the details of the structures located within 50m, 100m, 200m, 300m radius from the proposed mine lease area indicating the type of
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			<p>structure/building, usage/purposes of such building – commercial/industrial/residential/farm house/Govt. building such as Sub-station, occupants of such buildings/structures, ownership of the buildings/structures whether it belongs to the PP (or) not, etc</p> <p>In view of the above, the authority decided to request Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 05.10.2023.</p>
6.	Existing Rough stone quarry lease over an extent of 1.35.0 Ha at S.F.No.443(Part) in Erumapalayam Village, Salem South Taluk, Salem District, Tamil Nadu by Thiru. O.K.Kumar – Environment Clearance for next scheme of mining. (SIA/TN/MIN/431207/2023)	10269	<p>The Authority noted that the subject was placed in the 413th meeting of SEAC held on 05.10.2023 and the SEAC has called certain additional particulars from the PP.</p> <p>Further, the SEAC has requested SEIAA to instruct the concerned AD (Mines) to inspect the mine site and furnish factual information on the actual depth of mining & existing conditions in the mine. Hence the Authority decided to request the Member Secretary, SEIAA TN to address the AD/ G&M/ Salem to furnish the details sought by SEAC.</p>
7.	Proposed Rough stone lease over an extent of 1.25.5 Ha at S.F.No.39/1(Part) in Chinnakallapadi village, Tiruvannamalai Taluk, Tiruvannamalai District, Tamil Nadu by Thiru. D. Chakkaravarthi - Environment Clearance. (SIA/TN/MIN/437584/2023)	10276	<p>The Authority noted that the subject was placed in the 413th meeting of SEAC held on 05.10.2023 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 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 59450</p>


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		<p>m³ of Rough stone by maintaining the ultimate depth of mining of 21m BGL and the annual peak production should not exceed 13260 m³ of Rough stone as per the approved mining plan. This is also subject to the standard conditions as per Annexure-(1) 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 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
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			<p>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>
8.	Existing Multi Colour Granite Quarry lease over an extent of 2.02.0Ha at S.F.No.1052/1, in Thiyadurgam Village, Soolagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. Siva Granite Products - Environment Clearance for next scheme of mining. (SIA/TN/MIN/430446/2023)	10283	<p>The Authority noted that the subject was placed in the 413th meeting of SEAC held on 05.10.2023 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 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 restricted quantity of 24712m³ of RoM. 8649 m³ of Multicolour Granite @ 35% recovery by maintaining the restricted ultimate depth of mining of 29m (4m AGL+25m BGL) and the annual peak production should not exceed 5510 m³ of ROM and 1928 m³ of Multicolour Granite as per the approved mining plan. This is also subject to the standard conditions as per Annexure - (1) of SEAC minutes, other normal conditions</p>


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		<p>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. IA3-22/1/2022-1A-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.
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			<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>
9.	<p>Proposed Rough stone lease over an extent of 1.54.4 Ha at S.F.No.121/2 and 121/3 in Chennimalai village, Perundurai Taluk, Erode District, Tamil Nadu by Thiru. Tmt.R. Maheswari- Environment Clearance. (SIA/TN/MIN/436752/2023)</p>	10290	<p>The Authority noted that the subject was placed in the 413 meeting of SEAC held on 05.10.2023 and the SEAC noted that,</p> <p>TOR issued for this proposal vide Lr.No. SEIAA-TN/F.No.9154/SEAC/TOR-1188/2022 dated 06.07.2022 under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended. Now. during this appraisal, the PP informed the Committee that the project activity falls under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended furnishing revised 500m Cluster letter dated 30.05.2023 issued by DD(Mines), Erode District and requested the Committee to grant EC considering the project activity as B2 category project. The SEAC. after detailed discussions accepted the request of the PP and decided to consider the project activity under Category "B2" and directed the PP to submit request letter to the Authority for surrendering the TOR granted vide SEIAA</p>


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			<p>Lr.No. SEIAA-TN/F.No.9154/SEAC/TOR-1188/2022 dated 06.07.2022.</p> <p>With the above noting, 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 refer back the proposal to SEAC citing the following:</p> <p>TOR vide Lr.No. SEIAA-TN/F.No.9154/SEAC/TOR-1188/2022 dated 06.07.2022 has already been issued for this proposal under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification. 2006, as amended. Now, for the same project. the PP has applied seeking EC under Category "B2" without disclosing the history of the granted TOR to circumvent the procedure of public hearing. It is suggested that surrender of ToR for the sake of category change may be justified with the necessary Notifications or O.M of MoEF&CC. Further if this kind of approach by the PP is entertained this may become a trend setter. Hence the SEAC may reconsider its recommendations for category change from B1 to B2 for the already appraised and TOR granted proposals and the Authority feels no case to consider this request of PP.</p>
10.	Proposed Rough stone & Gravel Quarry lease over an extent of 1.68.0Ha at S.F.Nos.59/5A & 59/5B of Meerankulam II Village,	10277	The proposal was placed in the 413 th SEAC Meeting held on 05.10.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.


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<p>Sattankulam Taluk, Thoothukudi District, Tamil Nadu by Thiru. K.Stanlin - For Environmental Clearance. (SIA/TN/MIN/437589/2023)</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 1,73,170m³ of rough stone up to the depth of 37m below ground level and the annual peak production should not exceed 38,490m³ 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 minute.</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>
11.	Proposed Multi colour Granite Quarry lease over an extent of 1.38.0 Ha at S.F.Nos.80/1 & 76/2 (Part) of Iumbali Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by Tmt. D.Adaikalamary - For Environmental Clearance. (SIA/TN/MIN/438527/2023)	10291	<p>The proposal was placed in the 413th SEAC Meeting held on 05.10.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC decided to call for additional details.</p> <p>The proponent shall submit Certified Compliance Report obtained from IRO, MoEF&CC, Chennai for the earlier obtained Environmental Clearance.</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 413th SEAC Meeting held on 05.10.2023 to the project proponent.</p>
12.	Proposed Rough Stone and Gravel Quarry Lease over an extent of 4.45.5 Ha (Patta land) at S.F.Nos. 74/1B and 74/1C1 of Seepalakottai Village, Uthamapalayam Taluk, Theni	10264	<p>The authority noted that the subject was appraised in the 413th SEAC meeting held on 05.10.2023. Based on the presentation made and documents submitted and from the KML file uploaded in the PARIVESH Portal, SEAC noted the following.</p>


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	<p>District, Tamil Nadu by Thiru. B. Sankar Ganesh - For Environmental Clearance. (SIA/TN/MIN/437974/2023)</p>	<p>i) The applied site is a fresh & virgin area, hitherto unmined.</p> <p>ii) The proposed site is lying at the foothills of Valkardu Reserve Forest and is also close to the Western Ghats.</p> <p>iii) The proposed site appears to be rich in top soil.</p> <p>iv) Further, there is a water body existing on the downstream side and the proposed site is lying at the slope exist between the Hill and the water body, i.e., on flowing path of water course.</p> <p>v) Hence, opening up of the proposed area for quarrying operations might obstruct the water flow on the downstream side.</p> <p>vi) The four numbers of seasonal odais are located at a distance of 17m, 60m, 125m, and 180 m from the lease boundary which are acting source of collecting the water for the waterbody/tank located nearby.</p> <p>vii) A shed and Temple are located within a distance of 200 m from the quarry.</p> <p>Considering the environmental concerns as noted by the SEAC, after detailed deliberations, the SEAC have decided not to recommend the proposal for grant of Environmental Clearance.</p> <p>The Authority, after discussions, accepted the decision of SEAC, rejected the proposal and decided to request Member Secretary, SEIAA-TN to grant rejection letter to proponent as per the 413th SEAC minutes. Further, Authority decided to close and record this proposal.</p>
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13.	<p>Proposed Coloured Granite Quarry Lease over an extent of 2.42.9 Ha (Patta Land) at S.F.Nos. 488/1B(P) and 503/3(P) of Sithampoondi Village, Paramathivelur Taluk, Namakkal District, Tamil Nadu by Tvl. P.K.K. Exports - For Environmental Clearance. (SIA/TN/MIN/436601/2023)</p>	10271	<p>The authority noted that the subject was appraised in the 413th SEAC meeting held on 05.10.2023. During the meeting, the Committee has noted the following:</p> <ol style="list-style-type: none"> 1. As per the 500m cluster letter dated.04.01.2023, issued by the Assistant Director, Dept. of Geology & Mining, there are 8 other quarries situated within 500m radius from the current proposed quarry and the total area of the cluster is found to be 25.60.9 Ha (> 5Ha). 2. As per EIA Notification 2006 and its subsequent amendments, mines of minor minerals whose cluster area exceeds 5 Ha has to be considered under 'B1' category. 3. In the present case, the cluster area of the current proposal is 25.60.9 Ha which is more than 5 Ha. But it is observed that the proponent has submitted an application seeking Environmental Clearance under 'B2' category. <p>In view of the above, the Committee, after detailed deliberations, decided that the current proposal cannot be processed and hence directed the proponent to submit an application seeking Terms of Reference under 'B1' category to further process the proposal. Hence, SEIAA may close and record the current proposal submitted under 'B2' category accordingly.</p> <p>The Authority, after deliberations, accepted the decision of SEAC and decided to request Member Secretary SEIAA to close and record the proposal submitted under 'B2' category.</p>
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14.	<p>Proposed Rough Stone and Gravel Quarry Lease over an extent of 4.90.48 Ha at S.F.Nos. 6/1, 6/2, 6/3, 6/4, 10/2A(P), 10/3A, 10/3B, 11/2A, 11/2B1, 11/2B2, 11/2C1, 11/2C2, 11/2D1, 11/2D2, 11/2E1, 11/2E2, 11/2F1, 11/2F2, 11/2G(P), 11/2H(P), 11/2I, 16/1A, 16/1B, 16/1C, 16/2A, 16/2B, 16/2C1, 16/2C2, 16/2C3, 16/3A, 16/3B, 16/3C and 16/3D of Veeranakunnam Village, Maduranthagam Taluk, Chengalpattu District, Tamil Nadu by Thiru. S. Perumal - For Environmental Clearance. (SIA/TN/MIN/438028/2023)</p>	10278	<p>The authority noted that the subject was appraised in the 413th SEAC meeting held on 05.10.2023. During deliberations, the following were noted:</p> <ul style="list-style-type: none"> i) From the Hydrogeological Report submitted by the project proponent which was obtained from Anna University, Chennai, the Committee noted that the average water table in the proposed location lies at a depth of about 10m. Further, moisture content is present in the soil up to the depth of 5m. ii) The applied site is a fresh area, hitherto unmined. iii) From the KML file uploaded by the proponent in the PARIVESH Portal, it was ascertained that the proposed area is fully surrounded by agricultural fields on all sides. iv) Kiliyar River is located at a distance of 140m from the proposed project area. v) Further, there is a check dam located at a distance of 1.6km from the applied area. <p>Considering the significance of water body/river course located nearby and also to protect the surrounding agricultural fields, the Committee after detailed deliberations, decided not to recommend the proposal for grant of Environmental Clearance. The Authority, after discussions, accepted the decision of SEAC, rejected the proposal and decided to request Member Secretary, SEIAA-TN to grant rejection letter to proponent as per the 413th SEAC minutes. Further, Authority decided to close and record this proposal.</p>
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15.	Proposed construction of a Mall Building at Survey Nos. 101/2B1A, 101/7, 101/16, 101/8, 101/9, 102/2A2, 102/2A3, 102/3, 103/2A1, 103/7, 103/2E1, 103/2E2, 103/8, 103/2F1 & 103/4 of Ullur Village, Kumbakonam Taluk, Thanjavur District, Tamil Nadu by Mr. K. Soundararajan – For Environmental Clearance. (SIA/TN/INFRA2/437585/2022)	10285	<p>The authority noted that the subject was appraised in the 413th SEAC meeting held on 05.10.2023. SEAC has furnished its recommendations to the authority for granting environmental clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Environmental Clearance subject to the conditions as recommended by SEAC & normal/standard conditions stipulated by MoEF&CC and the conditions in Annexure 'C' of this minutes.</p>
16.	Proposed Rough stone & Gravel quarry lease over an extent of 1.50.0Ha at SF.No. 46/1(P) of Puliankulam Village, kovilpatti Taluk, Thoothukudi District, Tamil Nadu by Thiru.R.Raveendran - for Environmental Clearance. (SIA/TN/MIN/437839/2023)	10265	<p>The authority noted that the subject was appraised in the 413th SEAC meeting held on 05.10.2023. 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 1,57,565m³ of Rough stone and 43,932m³ of Gravel up to the depth of mining 35m and the annual peak production should not exceed 33,310m³ of Rough stone and 17,724m³ 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)</p>


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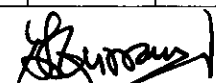

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dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.

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-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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17.	Proposed Gravel and Laterite quarry lease over an extent of 1.36.8 Ha at S.F.Nos. 19/5A1B & 19/5A1C of Silambinathanpettai Village, Panruti Taluk, Cuddalore District, Tamil Nadu by Thiru. D. Kadirvel – For Environmental Clearance. (SIA/TN/MIN/438025/2023)	10266	<p>The authority noted that the subject was appraised in the 413th SEAC meeting held on 05.10.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>The Authority, after detailed discussions decided to consider the proposal after obtaining the following particulars from the project proponent:</p> <ol style="list-style-type: none"> 1. What are the trees present inside the proposed quarry site? 2. The PP shall enumerate the no. of trees with species name. 3. The PP shall furnish NOC obtained from the Director, Agriculture Department that the removal of gravel & laterite will not affect the agriculture nearby area. 4. The PP shall furnish the name of native tree samplings (840 Nos.) to be planted in the proposed quarry site. 5. The PP shall furnish the details regarding where the existing trees present in the quarry site will be transplanted?
18.	Proposed Rough Stone quarry lease over an extent of 2.32.0 Ha at S.F.Nos. 398/2(P), 398/1A2(P) & 398/1B2(P) of Musuvanothu Village, Nilakottai Taluk, Dindigul District, Tamil Nadu by Thiru. A. Muniappan – For Environmental Clearance. (SIA/TN/MIN/438599/2023)	10273	<p>The authority noted that the subject was appraised in the 413th SEAC meeting held on 05.10.2023. During the meeting, the Committee noted that the project proponent was absent for the meeting. Hence the subject was not taken up for discussion. Further, SEAC decided that the proponent shall furnish the reason for absence.</p> <p>In view of the above, the Authority accepted the decision of SEAC and decided to request Member Secretary, SEIAA to communicate the minutes of</p>


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			413 th SEAC meeting to the project proponent.
19.	Proposed Black Granite quarry lease over an extent of 1.09.0 Ha at S.F.Nos. 334/1A2A(Part) & 334/2A(Part) of Dhoddakajanur Village, Thalavadi Taluk, Erode District, Tamil Nadu by Thiru. A. Azamulla Khan – For Environmental Clearance. (SIA/TN/MIN/435305/2023)	10280	<p>The authority noted that the subject was appraised in the 413th SEAC meeting held on 05.10.2023. 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 20,128 m³ ROM which includes 4026 m³ of granite recovery (@20%) & 16,102 m³ of granite waste (@80%) up to the ultimate depth of 28m and the annual peak production should not exceed 832 m³ of granite recovery. 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 PP shall ensure that CO₂ emission not generated during the quarry operation. 8. The PP shall utilise the granite waste (80%) for its mine closure activity.
20.	Proposed Quartz and Feldspar quarry lease over an extent of 2.17.5	10287	The authority noted that the subject was appraised in the 413 th SEAC meeting held on 05.10.2023. Based


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	<p>Ha at S.F.Nos. 826/1B & 826/2 of Kosanam (B) Village, Nambiyur Taluk, Erode District, Tamil Nadu by M/s. Sri Hill Minerals – For Environmental Clearance. (SIA/TN/MIN/430938/2023)</p>		<p>on the presentation and the documents furnished by the project proponent, the SEAC decided to call for the following details from the project proponent:</p> <p>i) The PP shall obtain Certified Compliance Report (CCR) from Integrated Regional Office, MoEF&CC, Chennai for the earlier Environmental Clearance obtained from DEIAA.</p> <p>On receipt of the above details, the SEAC would further deliberate on this project and decide the further course of action. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVESH portal.</p> <p>In view of the above, the Authority accepted the decision of SEAC and decided to request Member Secretary, SEIAA to communicate the minutes of 413th SEAC meeting to the project proponent.</p>
21.	<p>Proposed Rough Stone and Gravel Quarry lease over an extent of 1.21.50Ha S.F.No.246/3, Veppilai Village, Kadayampatti Taluk, Salem District by Thiru.S.Uthirasami - For Environmental Clearance. (SIA/TN/MIN/409129/2022)</p>	9622	<p>The authority noted that the subject was appraised in the 413th meeting of SEAC held on 05.10.2023 and the sub-committee visited Rough Stone and Gravel Quarry on 01.05.2023. The following are the observations of committee.</p> <ol style="list-style-type: none"> 1. The Sub Committee observed that the quarries are located on Thoppur hills, an eastern ghat hill range that runs in Dharmapuri district. 2. The entire Thoppur hills is a major watershed, for the area, which is otherwise a dry area.


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		<p>3. The water that runs off the hill, drains in to a <i>odai</i> that feeds the '<i>Amman eri</i>', a nearby lake, that is key to all the agricultural activities in the area.</p> <p>4. Surplus from <i>Amman eri</i> flows in to the Thoppaiyar dam, a crucial watershed that supports agricultural area and a source of drinking water for the population in and around, otherwise a dry area.</p> <p>5. The proposed quarries are spread over the hills. the dust and the residue, including the explosive residues from the quarries and a crusher located in the vicinity, likely to seep into the <i>odai</i> and eventually in to the Amman eri. this pollution load interferes with the quality of water and may reduce the agricultural productivity in the long run.</p> <p>6. The quarrying activity also alters and affects the water drainage system of the hill.</p> <p>7. Thoppaiyar Dam, a source of drinking water for the population around, will be rendered with a reduced services that affects the ecology and economy of the area.</p> <p>Hence the subcommittee opines that the environmental clearance need not be given to the proposed quarries in the Thoppur hills.</p> <p>Based on the presentation and documents furnished by the project proponent and the recommendation of the Sub- committee constituted by SEAC. Considering the environmental settings of the proposed mining area, SEAC decided to agree with the conclusion of the subcommittee and not to recommend grant of EC for this project.</p>
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			The Authority after discussions, accepted the decision of SEAC, rejected the proposal and decided to request Member Secretary, SEIAA-TN to grant rejection letter to proponent as per the SEAC minutes. Further, Authority decided to close and record this proposal.
22.	Proposed Rough Stone and Gravel Quarry lease over an extent of 0.93.0 Ha S.F.No.247/2, Veppilai Village, Kadayampatti Taluk, Salem District by Tmt. U. Selvi - For Environmental Clearance. (SIA/TN/MIN/409045/2022)	9634	<p>The authority noted that the subject was appraised in the 413th SEAC meeting held on 05.10.2023. Based on the presentation and documents furnished by the project proponent and the recommendation of the Sub-committee constituted by SEAC. Considering the environmental settings of the proposed mining area, SEAC decided to agree with the conclusion of the subcommittee and not to recommend grant of EC for this project.</p> <p>The Authority, after discussions, accepted the decision of SEAC, rejected the proposal and decided to request Member Secretary, SEIAA-TN to grant rejection letter to proponent as per 413th SEAC minutes. Further, Authority decided to close and record this proposal.</p>
23.	Proposed Rough Stone and Gravel Quarry lease over an extent of 0.63.50Ha S.F.No.248/1, 248/2, 248/3, Veppilai Village, Kadayampatti Taluk, Salem District by Tmt.U.Selvi - For Environmental Clearance. (SIA/TN/MIN/409029/2022)	9635	<p>The authority noted that the subject was appraised in the 413th meeting of SEAC held on 05.10.2023 and the sub-committee visited Rough Stone and Gravel Quarry on 01.05.2023. The following are the observations of committee.</p> <ol style="list-style-type: none"> 1. The sub committee observed that the quarries are located on Thoppur hills, an eastern ghat hill range that runs in Dharmapuri district. 2. The entire Thoppur hills is a major watershed for the area, which is other wise a dry area.


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3. The water that runs off the Hill, drains in to an *Odai* that feeds the '*Amman Eri*', a nearby lake, that is key to all the agricultural activities in the area.
4. Surplus from *Amman eri* flows in to the Thoppaiyar dam, a crucial watershed that supports agricultural area and a source of drinking water for the population in and around, otherwise a dry area.
5. The proposed quarries are spread over the hills. the dust and the residue, including the explosive residues from the quarries and a crusher located in the vicinity, likely to seep into the *odai* and eventually in to the Amman eri. this pollution load interferes with the quality of water and may reduce the agricultural productivity in the long run.
6. The quarrying activity also alters and affects the water drainage system of the hill.
7. Thoppaiyar Dam, a source of drinking water for the population around, will be rendered with a reduced services that affects the ecology and economy of the area.

Hence the subcommittee opines that the environmental clearance need not be given to the proposed quarries in the Thoppur hills.

Based on the presentation and documents furnished by the project proponent and the recommendation of the Sub- committee constituted by SEAC. Considering the environmental settings of the proposed mining area, SEAC decided to agree with the conclusion of the subcommittee and not to recommend grant of EC for this project.


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			The Authority after discussions, accepted the decision of SEAC, rejected the proposal and decided to request Member Secretary, SEIAA-TN to grant rejection letter to proponent as per the SEAC minutes. Further, Authority decided to close and record this proposal.
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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 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


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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.
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.


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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.
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 mycorrizal fungi, soil organism, soil community nor result in eutrophication of soil and water.
22. The activities should not disturb the soil properties and seed and plant growth. Soil amendments as required to be carried out, to improve soil health.
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 mycorrizal 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


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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.

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.


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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.
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.


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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

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.


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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

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-


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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.
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.


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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.


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.


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11. The committee shall furnish the fire safety and evacuation plan in the case of fire accidents.

Impact study of mining

12. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area covering the entire mine lease period as per precise area communication order issued from reputed research institutions on the following

- a) Soil health & soil biological, physical land chemical features .
- b) Climate change leading to Droughts, Floods etc.
- c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
- d) Possibilities of water contamination and impact on aquatic ecosystem health.
- e) Agriculture, Forestry & Traditional practices.
- f) Hydrothermal/Geothermal effect due to destruction in the Environment.
- g) Bio-geochemical processes and its foot prints including environmental stress.
- h) Sediment geochemistry in the surface streams.

Agriculture & Agro-Biodiversity

13. Impact on surrounding agricultural fields around the proposed mining Area.

14. Impact on soil flora & vegetation around the project site.

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.


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21. The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.
22. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.

Water Environment

23. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the entire mine lease period.
24. Erosion Control measures.
25. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas.
26. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.
27. The project proponent shall study and furnish the details on potential fragmentation impact on natural environment, by the activities.
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.


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33. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock.

Mine Closure Plan

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

EMP

35. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued.
36. The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan.

Risk Assessment

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

Disaster Management Plan

38. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its 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.

Annexure 'C'


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Climate Change

1. The proponent shall adopt strategies to decarbonize the building.
2. The proponent shall adopt strategies to reduce emissions during operation (operational phase and building materials).
3. The proponent shall adopt strategies to reduce temperature including the Building Façade.
4. The proponent shall adopt methodology to control thermal environment and other shocks in the building.
5. The proponent shall adopt detailed plan to reduce carbon footprints and also develop strategies for climate proofing and climate mitigation.
6. The proponent shall adopt strategies to ensure the buildings in blocks are not trapping heat to become local urban heat islands.
7. The proponent shall ensure that the building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues.
8. The activities should in no way cause emission and build-up Green House Gases. All actions to be eco-friendly and support sustainable management of the natural resources within and outside the campus premises.
9. The proponent shall ensure that the buildings should not cause any damage to water environment, air quality and should be carbon neutral building.

Health

10. The proponent shall adopt strategies to maintain the health of the inhabitants.

Energy

11. The proponent shall adopt strategies to reduce electricity demand and consumption.
12. The proponent shall provide provisions for automated energy efficiency.
13. The proponent shall provide provisions for controlled ventilation and lighting systems.
14. The proponent shall provide solar panels and contribute to the grid from the solar panel as proposed.
15. All the construction of Buildings shall be energy efficient and conform to the green building norms. The PP shall ensure that carbon neutral building.
16. The proponent shall provide adequate capacity of DG set (standby) for the proposed STP so as to ensure continuous and efficient operation.

Regulatory Frameworks


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17. The proponent shall adopt methodologies to effectively implement the Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001.
18. The project proponent shall ensure to provide adequate elevated closed area earmarked for collection, segregation, storage & disposal of wastes generated within the premises as per provisions of Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001.
19. The proponent shall provide elevator as per rules CMDA/DTCP.

Database maintenance & audits

20. The database record of environmental conditions of all the events from pre-construction, construction and post-construction should be maintained in digitized format.
21. The proponent should maintain environmental audits to measure and mitigate environmental concerns.

Biodiversity

22. There should not be any impact due to the modification of the habitat on critically endangered species, biodiversity, etc.,
23. The proponent shall ensure that the proposed activities in no way result in the spread of invasive species.
24. The proponent shall adopt sustainability criteria to protect the micro environment from wind turbulences and change in aerodynamics since high rise buildings may stagnate air movements.
25. The proponent shall ensure almost safety for the existing biodiversity, trees, flora & fauna shall not disturb under any circumstances.
26. The proponent shall develop building-friendly pest control strategies by using non chemical measures so as to control the pest population thereby not losing beneficial organisms.
27. The proponent shall adopt strategies to prevent bird hits.

Safety measures


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28. The proponent should develop an emergency response plan in addition to the disaster management plan.
29. The proponent shall develop detailed evacuation plan for disabled people and safety evacuation plan in emergencies.
30. All bio-safety standards, hygienic standards and safety norms of working staff and patients to be strictly followed as stipulated in EIA/EMP.
31. The disaster management and disaster mitigation standards to be seriously adhered to avoid any calamities.
32. The proponent shall provide the emergency exit in the buildings.
33. The proponent shall adhere to the provision and norms regard to fire safety prescribed by competent authority.

Water/Sewage

34. The proponent shall ensure that no treated or untreated sewage shall be let outside the project site & shall find access to nearby water-bodies under any circumstances other than the permitted mode of disposal.
35. The proponent shall provide STP of adequate capacity as committed and shall continuously & efficiently operate STP so as to satisfy the treated sewage discharge standards prescribed by the TNPCB time to time.
36. The proponent shall periodically test the treated sewage the through TNPCB lab /NABL accredited laboratory and submit report to the TNPCB.
37. The proponent shall periodically test the water sample for the general water quality core parameters including fecal coliform within the proposed project site through TNPCB lab /NABL accredited laboratory and submit report to the concerned authorities.
38. The proponent shall ensure that provision should be given for proper utilization of recycled water.
39. The project proponent shall adhere to storm water management plan as committed.

Parking

40. The project proponent shall adhere to provide adequate parking space for visitors of all inmates including clean traffic plan as committed.

Solid waste Management

41. The proponent shall ensure that no form of municipal solid waste shall be disposed outside the proposed project site at any time.


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42. The proponent should strictly comply with, Tamil Nadu Government order regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.

EMP

43. The proponent shall ensure that the EIA/EMP and disaster management plan should be adhered strictly.

44. The proponent shall ensure that all activities of EMP shall be completed before obtaining CTO from TNPCB.

45. The proponent shall provide and ensure the green belt plan is implemented as indicated in EMP. Also, the proponent shall explore possibilities to provide sufficient grass lawns.

Others

46. As per the 'Polluter Pay Principle', the proponent will be held responsible for any environmental damage caused due to the proposed activity including withdrawal of EC and stoppage of work.

47. The project proponent shall adhere to height of the buildings as committed.


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