

MINUTES

666th MEETING

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY-TAMIL NADU

Date: 30.10.2023

MINUTES OF THE 666th MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY HELD ON 30.10.2023.

Agenda No	Description	File No.	Minutes
a)	Confirmation of the minutes of the 665 th meeting of the Authority held on 26.10.2023.		The minutes of the 665 th meeting of the Authority held on 26.10.2023 was confirmed.
b)	The Action taken on the decisions of the 665 th meeting of the Authority held on 26.10.2023.		The Member Secretary informed that 665 th Minutes uploaded in Parivesh website and action taken report will be put up ensuing meeting.
1.	Proposed Black Granite Quarry over an extent of 2.39.5Ha at S.F.Nos. 21/3C1(Part), 21/3C2(Part), 21/4C3(Part), 22/1A1(Part), 22/1A2(Part), 22/1B1(Part), 22/2B(Part), 22/2C(Part), 23/5C1(Part), 23/5C2A(Part), 23/5C2B(Part) and 23/6A3(Part) of Edakkal Village, Thandarampattu Taluk, Tiruvannamalai District, Tamil Nadu by Tvl. Madhucon Granites Limited-For Environmental Clearance. (SIA/TN/MIN/438917/2023)	10296	<p>The authority noted that this proposal was placed for appraisal in 414th meeting of SEAC held on 06.10.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain the following details from the PP.</p> <ol style="list-style-type: none"> 1. The PP shall submit Certified Compliance Report obtained from the office of the IRO, MoEF & CC, Chennai and appropriate mitigating measures for the non-compliance items, if any. 2. The PP shall furnish a letter obtained from AD/DD Mine & Geology with respect to exact depth of existing Pit, period of the operation and stoppage of the earlier mines & quantity of minerals mined out. 3. The PP shall complete the fencing, tree plantation and photographs, videos of the same shall be furnished. <p>In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 06.10.2023.</p>

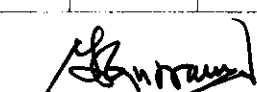

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2.	<p>Proposed construction of Hospital Building at S.F.No. 102/2B2, 102/2C2, 104/1A2, 104/2A2, 104/1B, 104/2B2 of Veeraraghavapuram Village, Poonamallee taluk, Thiruvallur District, Tamil Nadu by M/s. Velammal Hospitals Private Limited- For Environmental Clearance (SIA/TN/INFRA2/438444/2023)</p>	10303	<p>The Authority noted that the subject was appraised in the 414th meeting of SEAC held on 27.09.2023. Based on the presentation and documents furnished by the project proponent, SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein. After detailed discussions, the authority decided to seek the following.</p> <ul style="list-style-type: none"> (i) The PP shall furnish the details of Creche provided in the site. (ii) The PP shall earmark the Children play area in the map. (iii) The PP shall furnish NOC from Airport Authority of both Meenambakkam and Avadi. (iv) There is a nalla found at 140m and River Cooum is located at 380m from the project site, hence the PP shall furnish Inundation certificate from the competent Authority. (v) The PP shall furnish evacuation plan. (vi) The PP shall furnish disaster management plan. (vii) The PP shall furnish detailed EMP with amount of expenditure for each item of work to be elaborated. (viii) The PP shall furnish Gap Analysis Report from TNPCB. (ix) The proponent shall furnish action plan to mitigate carbon emissions, GHGs & to reduce carbon footprint to enable health comforts & management. (x) The proponent shall furnish appropriate
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			<p>plan for all types of waste management including bio medical waste.</p> <p>In view of these, the authority decided to refer back the proposal to SEAC for re-appraisal on the above said points.</p>
3.	<p>Proposed Rough Stone Quarry over an extent of 2.00.0 Ha at S.F.Nos, 152/2(part) of Doripalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru.G.Venkatesh -For Environmental Clearance. (SIA/TN/MIN/430294/2023)</p>	10324	<p>The authority noted that this proposal was placed for appraisal in 414th meeting of SEAC held on 06.10.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain the following details from the PP.</p> <ol style="list-style-type: none"> 1. The Project Proponent shall furnish the Scheme of Mining/Modified Mining Plan approved by the competent authority, incorporating the Revised Plan & Section indicating the revised bench configurations. 2. 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: <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. Month wise Production details v. Mined out Depth as on date Vs EC Permitted depth vi. Details of illegal/illicit mining carried out, if any


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			<p>vii. Non-compliance/Violation in the quarry during the past working.</p> <p>viii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.</p> <p>ix. Existing condition of Safety zone/benches</p> <p>x. Details of any penalties levied on the PP for any violation in the quarry operation by the Department of Geology and Mining.</p> <p>3. The PP shall submit the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and also to furnish mitigation measures/remedial action plan with the budget allocation for the non-compliance stated in the CCR.</p> <p>4. The PP shall complete the fencing, tree plantation and photographs, videos of the same shall be furnished.</p> <p>In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 06.10.2023.</p>
4.	Proposed Construction of Commercial Building at S.F.Nos.725/19A1, 725/20A2, 725/20A4 and 725/23B, Unnamalaikadai Village, Vilvancode Taluk Kanyakumari District, Tamil Nadu by M/s. Ramachandran - For Environmental	10304	The Authority noted that the subject was placed in the 414 th meeting of SEAC held on 06.10.2023 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.


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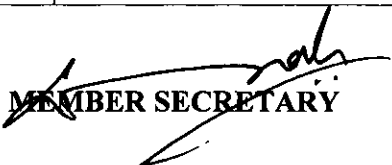
	Clearance. (SIA/TN/INFRA2/438117/2023)		
5.	Existing Rough stone and Gravel Quarry lease over an extent of 2.43.0 Ha at S.F.No.170/1(Part),171,172 & 173/4(Part) in Thennilai South village, Pugalur Taluk, Karur District, Tamil Nadu by Thiru. M/s. Sakthi Blue Metals Private limited – Environment Clearance issued by DEIAA - Reappraisal of the project. (SIA/TN/MIN/431074/2023)	10311	The Authority noted that the subject was placed in the 414 th meeting of SEAC held on 06.10.2023 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.
6.	Proposed Rough stone lease over an extent of 2.00.0 Ha at S.F.No.631/2B(Part – 1) in Munjurpattu village, Vellore Taluk, Vellore District, Tamil Nadu by Thiru. S.Nandakumar - Environment Clearance. (SIA/TN/INFRA2/438117/2023)	10318	The Authority noted that the subject was placed in the 414 th meeting of SEAC held on 06.10.2023 and the SEAC noted that the project proponent has not showed up. however, has sent a letter informing that the CCR in respect of the existing quarry is still awaited and therefore has requested the Committee additional time to submit the same. Hence the SEAC decided to defer the subject to a later date.
7.	Existing Rough stone quarry lease over an extent of 2.50.0 Ha at S.F.94 (Government Land) in Meenandoddi village, Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru. V.Jayaprakash- Environment Clearance issued by DEIAA- Reappraisal of the project. (SIA/TN/MIN/431037/2023)	10325	The Authority noted that the subject was placed in the 414 meeting of SEAC held on 06.10.2023 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 and systematic mining, decided to grant Environmental Clearance for the restricted quantity of 183664m ³ of Rough stone by maintaining the restricted ultimate depth of mining of 37m (2m+35m)

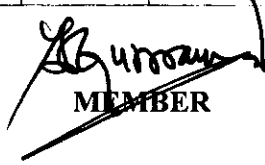

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		<p>BGL and the annual peak production should not exceed 40470 m³ of Rough stone as per the approved mining plan. This is also subject to the standard conditions as per Annexure - (1) of SEAC minutes, other normal conditions stipulated by MOEF&CC & 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 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)
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			<p>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.	<p>Proposed Rough stone Quarry lease over an extent of 2.00.0 Ha at S.F.Nos. 158/1(Part2) (Bit-II) of Periyagoundapuram Village, Vazhapadi Taluk, Salem District, Tamil Nadu by Tmt. R. Vijaya - For Environmental Clearance. (SIA/TN/MIN/439289/2023)</p>	10298	<p>The proposal was placed in the 414th SEAC Meeting held on 06.10.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following additional documents to consider the proposal.</p> <ol style="list-style-type: none"> 1. As other proposals in the same cluster have been treated under B1 category and given ToR, the proponent shall submit necessary clarification and submit revised 500m cluster certificate from the Department. 2. The proponent shall submit revised section by providing adequate safety distance for the existing high walls and consequent revised quantity duly approved by the competent authority. <p>In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary to communicate the minutes of 414th SEAC Meeting held on 06.10.2023 to the project proponent.</p>


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9.	<p>Proposed Ordinary Stone Quarry Lease over an extent of 1.00.0 Ha at S.F.Nos. 81/2 (Part) of Olakkachinnanur, Sankari Taluk, Salem District, Tamil Nadu by Thiru P.Jayaraj - For Environmental Clearance. (SIA/TN/MIN/437975/2023)</p>	10292	<p>The authority noted that the subject was appraised in the 414th SEAC meeting held on 06.10.2023. Based on the presentation and documents submitted by the project proponent, SEAC decided to call for the following additional details from the project proponent to consider the proposal for appraisal:</p> <ol style="list-style-type: none"> 1. The proponent shall furnish a letter obtained from the AD/DD of Geology and Mining Department stating the details of quarries located within 500m radius from the current proposed quarry of Thiru. P. Jayaraj. 2. 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: <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. Month wise Production details v. Mined out Depth as on date Vs EC Permitted depth vi. Details of illegal/illicit mining carried out, if any vii. Non-compliance/Violation in the quarry during the past working. viii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land. ix. Existing condition of Safety zone/benches
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			<p>x. Details of any penalties levied on the PP for any violation in the quarry operation by the Department of Geology and Mining.</p> <p>3. The PP shall submit the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and also to furnish mitigation measures/remedial action plan with the budget allocation for the non-compliance stated in the CCR.</p> <p>The Authority noted the minutes of SEAC.</p>
10.	Proposed Rough Stone Quarry Lease over an extent of 2.00.0 Ha (Government land) at S.F.Nos. 631/2B (Part-2) of Munjurpattu Village, Vellore Taluk, Vellore District, Tamil Nadu by Thiru. S.R. Pandurangan - For Environmental Clearance. (SIA/TN/MIN/439010/2023)	10320	<p>The authority noted that the subject was appraised in the 414th SEAC meeting held on 06.10.2023. 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 2,19,355m³ of rough stone up to the depth of 36m (6m above ground level + 30m below Ground Level) for the lease period valid till 21.02.2027 and the annual peak production should not exceed 46,235m³ 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> <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</p>

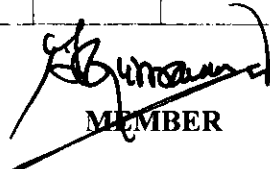

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		<p>Environmental Clearance is valid as per the approved mine plan period.</p> <ol style="list-style-type: none"> 2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years and also during the mine plan period, till the project life so as to review the EC conditions and to ensure that they have all been adhered to and implemented. 3. The project proponent shall submit a Certified Compliance Report obtained from IRO of MoEF&CC to the monitoring, regulatory and other concerned authorities including SEIAA, 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 and as per the amount committed and approved in EC for 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
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			<p>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.	<p>Proposed Rough stone & Gravel quarry lease over an extent of 3.06.0Ha at SF.No. 753/B2 (Part) & 753/B3 (Part) of Thennilai South Village, Pugalur Taluk, Karur District, Tamil Nadu by Thiru. K.P. Krishnasamy - for Terms of Reference under violation. (SIA/TN/MIN/439367/2023)</p>	10300	<p>The Authority noted that the subject was appraised in the 414th SEAC meeting held on 06.10.2023. 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 specific TORs stated therein, 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>

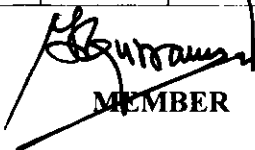

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		<p>accredited consultants subject to the conditions as recommended by SEAC & normal / Standard conditions in addition to the following conditions and conditions stated therein vide Annexure 'B'.</p> <ol style="list-style-type: none"> 1. The PP shall furnish Copy of valid mining lease approval obtained from the competent Authority. 2. The PP shall furnish Copy of approved review of scheme of mining plan 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 CO₂ release and temperature rise and 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 on the water bodies and natural flow of surface and ground water and the same shall be included in the final EIA report. 6. The PP shall study in detail about Soil health, Climate change leading to Droughts, Floods etc. 7. The PP shall study in detail about release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people. 8. The PP shall study in detail about Possibilities of water contamination and impact on aquatic ecosystem health.
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			<p>9. 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>10. The PP shall study the impact on Invasive Alien Species (IAP).</p>
12.	<p>Proposed Ordinary stone (Pegmatite) quarry lease over an extent of 1.69.0Ha at SF.No. 102/3 of Manchakkalpatti Village, Sankari Taluk, Salem District, Tamil Nadu by Thiru. K.Sundaram - for Environmental Clearance. (SIA/TN/MIN/438132/2023)</p>	10307	<p>The authority noted that the subject was appraised in the 414th SEAC meeting held on 06.10.2023. 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 1,21,313m³ of Rough stone up to the depth of mining 29m BGL and the annual peak production should not exceed 24,914m³ 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 TNPCCB on completion of every 5 years and also during the mine plan period, till the project

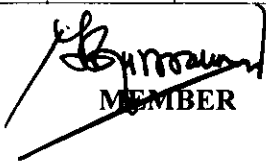

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			<p>life so as to review the EC conditions and to ensure that they have all been adhered to and implemented.</p> <ol style="list-style-type: none"> 3. The project proponent shall submit a Certified Compliance Report obtained from IRO of MoEF&CC to the monitoring, regulatory and other concerned authorities including SEIAA, 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 and as per the amount committed and approved in EC for 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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13.	Proposed Rough stone & Gravel quarry lease over an extent of 1.05.0Ha at SF.No. 192/1 & 192/2 of Sathiyamangalam Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by Tvl. Veeram Stones Pvt Ltd - for Environmental Clearance. (SIA/TN/MIN/440093/2023)	10314	<p>The authority noted that this proposal was placed for appraisal in 414th meeting of SEAC held on 06.10.2023. Based on the presentation and details furnished by the project proponent, SEAC decided to defer and call for additional particulars as follows,</p> <ol style="list-style-type: none"> 1. The PP shall submit Certified Compliance Report obtained from the office of the concerned IRO, MoEF & CC, Chennai and the PP shall furnish appropriate mitigating measures for the non-compliance items, if any. 2. The PP shall submit the revised quantity with reference to X-Y section of the Production & Development Plan given in the Approved Mining Plan for accommodating the safety parameters. 3. As accepted the PP shall revise CER cost to Rs.8 Lakhs. <p>In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 06.10.2023.</p>
14.	Proposed Rough stone quarry lease over an extent of 1.20.0Ha at SF.No.109(Part-2) of Marandapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. Sri Sai Kesava Enterprises - for Environmental Clearance. (SIA/TN/MIN/430904/2023)	10321	<p>The authority noted that the subject was appraised in the 414th SEAC meeting held on 06.10.2023. 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</p>


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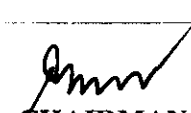

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1,46,800m³ of Rough stone up to the depth of mining 31m (7m AGL + 24m BGL) and the annual peak production should not exceed 39,000m³ of Rough stone. This is also subject to the conditions imposed by SEAC, normal conditions stipulated by MOEF&CC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.

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 5 years and also during the mine plan period, till the project life so as to review the EC conditions and to ensure that they have all been adhered to and implemented.
3. The project proponent shall submit a Certified Compliance Report obtained from IRO of MoEF&CC to the monitoring, regulatory and other concerned authorities including SEIAA, 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 and as per the amount committed and approved in EC for 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


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			<p>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>
15.	<p>Proposed Construction of Non - High Rise Residential Building at S.F.Nos. 20/2, 22, 48/1A1, 48/1A2, 48/1A3, 48/1B1, 48/2A, 48/2B, 48/3, 49/1C1, 51/2 & 52/3B2 of Goparasanallur Village, Poonamallee Taluk, Thiruvallur District, Tamil Nadu by M/s. Casa Grande Civil Engineering Private Limited - For Environmental Clearance. (SIA/TN/INFRA2/438916/2023)</p>	10294	<p>The authority noted that the subject was appraised in the 414th SEAC meeting held on 06.10.2023. SEAC has furnished its recommendations 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 to the proposal subject to the conditions as recommended by SEAC in addition to the following conditions in Annexure 'C' of this minutes.</p> <ol style="list-style-type: none"> 1. The proponent shall provide Childrens playground within the premises before obtaining CTE from TNPCB. 2. The Childrens play area should be earmarked in the plan and shall be furnished before obtaining CTE from TNPCB.


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			3. The PP shall provide separate gym and other indoor facilities within the premises before obtaining CTE from TNPCB.
16.	Proposed Rough Stone and Gravel quarry lease over an extent of 1.20.0 Ha at S.F.No. 914 (Part) of Kunnur Village, Andipatti Taluk, Theni District, Tamil Nadu by Thiru. P. Phinu Thomas – For Environmental Clearance. (SIA/TN/MIN/438408/2023)	10301	<p>The authority noted that the subject was appraised in the 414th SEAC meeting held on 06.10.2023. 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 1,23,830 m³ of Rough Stone and 17,220 m³ of Gravel up to the ultimate depth of 30m below ground level and the annual peak production should not exceed 35,720 m³ of Rough Stone and 6580 m³ 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 5 years and also during the mine plan period, till the project life so as to review the EC conditions and to


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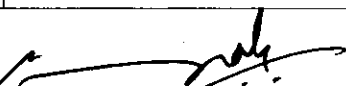
			<p>ensure that they have all been adhered to and implemented.</p> <ol style="list-style-type: none"> 3. The project proponent shall submit a Certified Compliance Report obtained from IRO of MoEF&CC to the monitoring, regulatory and other concerned authorities including SEIAA, while seeking a renewal 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 and as per the amount committed and approved in EC for 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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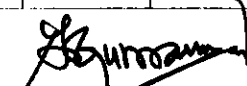

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17.	<p>Proposed Rough Stone quarry lease over an extent of 1.32.0 Ha (Government Poramboke land) at S.F.No. 93/1 of Meenandoddi Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru. S. Chinnanna – For Environmental Clearance. (SIA/TN/MIN/431091/2023)</p>	10322	<p>The authority noted that the subject was appraised in the 414th SEAC meeting held on 06.10.2023. 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 60,088 m³ of Rough Stone up to the ultimate depth of 17m below ground level and the annual peak production should not exceed 16,150 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 5 years and also during the mine plan period, till the project life so as to review the EC conditions and to ensure that they have all been adhered to and implemented. 3. The project proponent shall submit a Certified Compliance Report obtained from IRO of MoEF&CC to the monitoring, regulatory and other concerned authorities
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			<p>including SEIAA, 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 and as per the amount committed and approved in EC for 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>
18.	Proposed Construction of High Rise Residential Building in S.Nos: 513/1A1B, 7/1, 7/2 of Kundrathur B village, Kundrathur taluk, Kancheepuram district by M/s Casa Grand Fresh Private Limited - For	10295	<p>The authority noted that the subject was appraised in the 414th meeting of SEAC held on 06.10.2023. SEAC decided to ask the PP to submit the following additional details for appraising the proposal.</p> <p>1. The PP shall produce an inundation letter from the WRD with reference to year 2015</p>


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	<p>Environmental Clearance. (SIA/TN/MIN/438609/2023)</p>		<p>water levels, as the River Adyar is flowing nearby.</p> <p>2. The PP stated that Kundrathur Municipality has given commitment letter for providing drinking water and for giving connection to UGSS is under implementation. As UGSS takes long time to implement, PP shall produce a commitment letter from the nearby Pallavaram Municipality to accept the surplus treated waste water until the UGSS comes into operation. The cost of transportation shall be borne by the PP.</p> <p>Hence, the proponent is advised to submit the additional documents/ information as sought above within a 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 noted the 414th meeting of SEAC held on 06.10.2023</p>
19.	<p>Proposed Rough Stone and Gravel Quarry Extent: 2.48.50ha S.F.Nos.171/5, 8B, 175/4A, 4B, 5B, 6, 7, 176/1 & 2A1 of Nilaiyur Bit-I Village, Thiruparankundram Taluk, Madurai District, Tamil Nadu by Tmt.A.Prema - For Environmental Clearance. (SIA/TN/MIN/439333/2023)</p>	10309	<p>The authority noted that the subject was appraised in the 414th meeting of SEAC held on 06.10.2023. 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 production quantity of 192300 m³ of Rough Stone & 28858 m³ of Gravel and the annual peak production shall not exceed 20400m³ of Rough Stone & 10520m³ of</p>


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Gravel by restricting the ultimate depth of mining upto 27m 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.

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 5 years and also during the mine plan period, till the project life so as to review the EC conditions and to ensure that they have all been adhered to and implemented.
3. The project proponent shall submit a Certified Compliance Report obtained from IRO of MoEF&CC to the monitoring, regulatory and other concerned authorities including SEIAA, 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 and as per the amount committed and approved in EC for 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


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			<p>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>
20.	<p>Proposed Rough stone quarry lease over an extent of 1.00Ha (Government Poramboke land) in S.F.No: 300/1(B-III), Balasamuthiram Village, Palani Taluk, Dindigul District, Tamil Nadu by Thiru P.Thangaraj - For Environmental Clearance. (SIA/TN/MIN/438609/2023)</p>	10323	<p>The authority noted that the subject was appraised in the 414th meeting of SEAC held on 06.10.2023. 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 production quantity of 58425 m³of Rough Stone and the annual peak production shall not exceed 14260 m³of Rough Stone by restricting the ultimate depth of mining upto 51m (31m AGL & 15m BGL). This is also subject to the conditions imposed by SEAC, normal conditions stipulated by</p>


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MOEF&CC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.

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 5 years and also during the mine plan period, till the project life so as to review the EC conditions and to ensure that they have all been adhered to and implemented.
3. The project proponent shall submit a Certified Compliance Report obtained from IRO of MoEF&CC to the monitoring, regulatory and other concerned authorities including SEIAA, 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 and as per the amount committed and approved in EC for 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


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			<p>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>
21.	Existing Rough Stone Quarry Extent: 2.45.0ha S.F. No:81/1, Ittikal Agaram Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. N.Santhamoorthy - For Environmental Clearance. (SIA/TN/MIN/440397/2023)	10330	<p>The authority noted that the subject was appraised in the 414th meeting of SEAC held on 06.10.2023. SEAC decided to defer seeking following additional particulars</p> <p>1. The PP shall submit the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and also to furnish mitigation measures/remedial action plan with the budget allocation for the non-compliance stated in the CCR.</p> <p>Hence, the proponent is advised to submit the additional documents/ information as sought above within a 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 noted the 414th meeting of SEAC held on 06.10.2023.</p>
22.	Proposed Construction of Gated Community (Residential & Commercial) Building Project with 50 blocks and having Built up area	10282	<p>The authority noted that this proposal was placed for appraisal in 414th meeting of SEAC held on 06.10.2023. SEAC has furnished its</p>


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of 38,882.21 Sq.m at S.F.Nos.: 9/1B, 10/2A1B & 13/1A of Kannankurichi Village, Salem Taluk, Salem District, Tamil Nadu by M/s. Naaval Properties and Developers LLP- For Environmental Clearance. (SIA/TN/INFRA2/438488/2023)

recommendations for granting Environmental Clearance subject to the conditions stated therein. After detailed discussions, the Authority accepted the recommendation of SEAC and decided to **grant of Environmental Clearance subject to the conditions as recommended by SEAC & normal condition in addition to the following conditions:**

1. As accepted by the Project Proponent the CER cost is Rs.100 Lakhs and the amount shall be spent for the committed activities for (i) Govt.Hr.Sec.School, Kannankurichi (ii) Panchayat Union Middle School, Vinayakampatti (iii) Towards Montfort Community Tribal School, Kombu Thooki, Yercaud, Salem within 1 year from date issue of EC.
2. The project proponent shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
3. The PP shall provide children's park area within the project site.
4. The PP shall ensure health security for all


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		<p>staffs and PP shall ensure doctor is available at the site.</p> <ol style="list-style-type: none"> 5. The proponent shall deploy cost-effective technology to reduce GHG emissions. 6. The proponent shall adopt strategies to develop carbon-neutral or zero-carbon building. 7. The proponent shall adopt strategies to reduce emissions during operation (operational phase and building materials). 8. The proponent shall adopt strategies to decarbonize the building. 9. The proponent shall adopt strategies to maintain the health of the inhabitants. 10. The proponent shall adopt strategies to reduce electricity demand and consumption. 11. The proponent shall provide provisions for automated energy efficiency. 12. The proponent shall provide provisions for controlled ventilation and lighting systems. 13. The proponent shall adopt strategies to reduce temperature including the Building Façade. 14. 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
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		<p>Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001.</p> <p>15. The proponent shall provide solar panels and contribute to the grid from the solar panel as proposed.</p> <p>16. The proponent shall adopt methodology to control thermal environment and other shocks in the building.</p> <p>17. The proponent shall adopt strategies to reduce anthropogenic GHGs such as CO₂, CH₄, nitrous oxide, etc., resulting from human activities.</p> <p>18. The database record of environmental conditions of all the events from pre-construction, construction and post-construction should be maintained in digitized format.</p> <p>19. There should not be any impact due to the modification of the habitat on critically endangered species, biodiversity, etc.,.</p> <p>20. The proponent should develop an emergency response plan in addition to the disaster management plan.</p> <p>21. The proponent should maintain environmental audits to measure and mitigate environmental concerns.</p> <p>22. 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.</p>
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			<p>23. The proponent shall ensure that the proposed activities in no way result in the spread of invasive species.</p> <p>24. 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.</p> <p>25. The proponent shall adopt detailed plan to reduce carbon footprints and also develop strategies for climate proofing and climate mitigation.</p> <p>26. The proponent shall adopt strategies to ensure the buildings in blocks are not trapping heat to become local urban heat islands.</p> <p>27. 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.</p> <p>28. The proponent shall adopt strategies to prevent bird hits and impact on movement of migratory birds.</p> <p>29. The proponent shall ensure that the building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues.</p> <p>30. The proponent shall develop detailed evacuation plan for disabled people and safety evacuation plan in emergencies.</p>
23.	Proposed Expansion of Existing Integrated Industrial Township from	10404	The authority noted that the subject was appraised in the 414 th SEAC meeting held on 06.10.2023. After


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<p>130.3577 Ha to 140.509 Ha at S.F.Nos. 14, 16, 19, 152, 143/2B7, 148/2A, 151/1, etc., of Panchanthiruthi Village, S.F.Nos. 72, 78, 79, 86, 87, 88, 91, 93, 95 etc., of Kunnappattu Village, S.F.Nos. 173/5B, 174/7, 174/5, etc., of Paiyanur Village & S.F.No.4/6 of Amur Village Chengalpattu Taluk, Kancheepuram District, Tamil Nadu by M/s. One Hub (Chennai) Private Limited – For Terms of Reference (SIA/TN/INFRA2/444086/2022)</p>	<p>detailed discussion, the Authority accepted the recommendation of SEAC and decided to grant of Terms of Reference as recommended by SEAC for undertaking the Environment Impact Assessment Study and preparation of Environment Management Plan subject to the conditions as recommended by SEAC in addition to the following conditions:</p>
	<ol style="list-style-type: none"> 1. 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 furnish the detailed EMP mentioning all the CER activities as committed with the action plan. 2. The proponent shall furnish details on the measures taken to make the Buildings energy efficient and confirm to the green building norms. 3. The proponent shall provide details on the adequate parking facility provided including clean traffic plan. 4. The proponent shall ensure that no treated or untreated trade effluent/sewage discharged outside the premises under any circumstances. 5. The disaster management and disaster mitigation plan shall be furnished and should be seriously adhered to avoid of calamities. 6. The project proponent shall furnish the action taken to improve water usage efficiency in the building. 7. The project proponent shall conduct detailed study of biodiversity flora & fauna including invasives /endemic vulnerable species.


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| | | <ol style="list-style-type: none"> 8. The project proponent shall furnish NOC obtained from competent authority that there is no encroachment of water bodies (including canals). 9. The project proponent shall furnish impact of Green House Gases emissions and climate change likely due to activities. 10. The project proponent shall conduct detailed soil investigation including microflora /fauna. 11. The project proponent shall study impact on livelihoods of locals. 12. The project proponent shall furnish List of trees available in the area. 13. The project proponent shall study impact of activities on water bodies/wetlands. 14. The project proponent shall conduct studies on invasive and alien species and the measures taken to prevent the spread of these. 15. The proponent shall furnish details on the actions taken to reduce anthropogenic GHGs such as CO₂, CH₄, nitrous oxide, etc., resulting from human activities. 16. The proponent shall furnish details on the strategies adopted to decarbonize the building. 17. The proponent shall furnish measures taken to mitigate the impact on critically endangered species, biodiversity, etc, due to the modification of the habitat. 18. The proponent shall develop emergency response plan in addition to the disaster management plan. |
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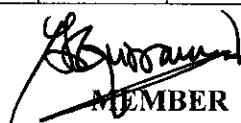

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		<p>19. The proponent shall furnish details on building-friendly pest control strategies developed using non chemical measures so as to control the pest population thereby not losing beneficial organisms.</p> <p>20. The proponent furnish detailed plan adopted to reduce carbon footprints and also strategies for climate proofing and climate mitigation.</p> <p>21. The proponent shall furnish details on strategies developed to ensure the buildings in blocks don't trap heat and become local urban heat islands.</p> <p>22. The proponent shall furnish details on the sustainability criteria adopted to protect the micro environment from wind turbulences and change in aerodynamics since high rise buildings may stagnate air movements.</p> <p>23. The proponent shall furnish details on the strategies developed to prevent bird hits.</p> <p>24. The proponent shall furnish details on the provisions made to ensure that the building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues.</p> <p>25. The proponent shall develop detailed evacuation plan for disabled people and safety evacuation plan during emergencies.</p> <p>26. The proponent shall explain the methodology adopted to control thermal environment and other shocks in the building.</p> <p>27. The proponent shall provide details on the provisions for controlled ventilation and lighting systems.</p>
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24.

File No: 6353

Existing Black Granite (Dolerite) quarry lease over an extent of 1.12.0Ha at SF.No. 6/5, 7/2A, 7/4, 7/5 & 7/7 of Kunnam Village, Vanur Taluk, Villupuram District, Tamil Nadu by Thiru. S. Jayapal, M/s. Satheesh Mines and Industries – Site Inspection Report for Environmental Clearance. (SIA/TN/MIN/43094/2018)

The Authority noted that the proposal was placed in the 414th Meeting of SEAC held on 06.10.2023. 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 414th SEAC Meeting held on 06.10.2023.

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The amount prescribed for Ecological remediation (Rs. 1,60,000), natural resource augmentation (Rs.3,00,000) & community resource augmentation (Rs. 4,00,000), totalling Rs. 8,60,000. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 8,60,000 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 below:

Sl. No.	Activity Proposed	In Rs. (To be completed within one year from issue of EC.)
1	Cost of Ecological Damage Remediation Plan	1,60,000
2	Natural Resource Augmentation Plan	3,00,000
3	Community Resource Augmentation Plan	4,00,000
Grand Total		8,60,000

3. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
4. 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


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Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.

5. The PP shall obtain 'No Dues Certificate' from State Government i.e. Department of Geology & Mining before grant of EC, if not produced earlier.
6. The proposed action plan for green belt development shall be maintained in 33 % of the overall project area and accordingly the plantation shall be carried out in 1.00 Ha in a phase manner as a part of mine closure activities.
7. The PP shall install the Environmental Management Cell headed by the statutory (I/II Class) Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
8. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
9. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained properly.
10. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
11. The proponent shall annually obtain a 'Star Rating' system awarded by Anna University, Chennai to the mining lease being operated for their efforts and initiatives taken for successful implementation of the Sustainable Development Framework (SDF).
12. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.


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25.	Proposed Earth Quarry lease over an extent of 1.78.0 Ha at S.F.Nos.1960/1A & 1960/1B, in Andipatti Bit-II Village, Andipatti Taluk, Theni District, Tamil Nadu by Thiru.T.Saravanan - For Environmental Clearance (SIA/TN/MIN/422608/2023)	9968	<p>The Authority noted that the subject was placed in the 414th meeting of SEAC held on 06.10.2023 and the SEAC noted that,</p> <ul style="list-style-type: none"> The proposal was earlier placed in the 388 meeting of SEAC held on 30.06.2023 and the SEAC furnished its recommendation for the grant of Environmental Clearance to the project subject to inter alia the following condition: The project proponent accepted to contribute Rs.9.00.000/- for Cauvery North Wildlife Sanctuary Conservation Plan in consultation with concerned District Forest Officer, before obtaining CTO from TNPCB. Subsequently the subject was placed in the 638th meeting of Authority held on 17.07.2023 and the Authority, after detailed discussions, decided to grant Environmental Clearance for the project subject to the conditions stated therein The PP was addressed to submit the copy of the revised CER affidavit for issue of EC. The PP vide letter dated 25.09.2023 has requested the SEAC to permit him to contribute Rs. 1 Lakh towards EMP measures for SMTR as his project is a small Earth quarry with the capital cost of only Rs. 8.96 Lakh. <p>The SEAC accepted the request of the PP to contribute Rs. 1 Lakh to SMTR as part of conservation measure in consultation with concerned District Forest Officer. All the other conditions</p>
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pertaining to this subject imposed in the Minutes of 388th meeting held on 30.06.2023 remain unaltered. 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 11136 m³ of Ordinary Earth to the depth of 1m BGL in 2 years and the annual peak production should not exceed 5568 m³ of Ordinary Earth 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.

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


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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>
26.	<p>Proposed Rough stone Quarry over an extent of 4.50.0Ha at SF. No. 637(Part-II) of Thuppuganapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru K. P. Anand- For Terms of Reference. (SIA/TN/MIN/430604/2023)</p>	10220	<p>The authority noted that this proposal was placed for appraisal in 407th meeting of SEAC held on 07.09.2023, the committee has furnished its recommendations for granting ToR with Public hearing subject to the conditions stated therein. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by</p>


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			SEAC & normal conditions in addition to the conditions in 'Annexure B' of this minute.
27.	Proposed Limestone Mine lease over an extent of 66.11.0 Ha Limestone Mine (G.O. No. 469 dated 21.05.1985) in S.F.No. 176 etc of Kurumanchavadi (Ariyalur North) Village, S.F.No. 92/1 etc of Aminabad Village, S.F.No.28/2 etc of Kairulabad Village and S.F. No. 168/5B etc of Kallankurichi Village, Ariyalur Taluk Ariyalur District, Tamil Nadu by Tamilnadu Cements Corporation LTD - For Environmental Clearance.	6691	<p>Earlier, the proposal was placed in 569th Authority Meeting held on 10.11.2022 & 11.11.2022. 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 324th SEAC Meeting held on 21.10.2022.</p> <ol style="list-style-type: none"> 1. Accordingly, the amount prescribed for Ecological remediation (Rs. 16,52,750), natural resource augmentation (Rs. 19,83,300) & community resource augmentation (Rs. 26,44,400), totaling Rs. 62,80,450. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 62,80,450 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 amount committed by the Project proponent for CER (Rs. 16,52,750) shall be remitted in the form of DD to the beneficiary for the activities committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN. 3. The project proponent shall submit the proof for the action taken by the state


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		<p>Government/TNPCB against project proponent (details of case filed with case number) 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.</p> <p>4. The notice for illegal mining compensation from District Collector, Ariyalur is required to be obtained by M/s. TANCEM and it shall be paid to State Government i.e. Department of Geology & Mining within a period of two weeks and obtain the NOC and submit the same to SEAC before grant of EC.</p> <p>The PP has now submitted reply to SEIAA ADS on 10.10.2023. The reply was placed in 666th authority meeting held on 30.10.2023.</p> <p>In view of these, the authority decided to refer back the proposal to SEAC for re-appraisal/ seeking clarifications mainly on point no.4 on the above said points.</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 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).


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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.
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


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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.
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.


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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.
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


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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.
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.


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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

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.


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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

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.


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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.

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.


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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 species 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, chemical, ecological, properties and therefore should be stored with precautions and utilized for reclamation process. Stocked topsoil should be stabilized using grasses to protect from wind. Seeds of various indigenous and local species may be broadcasted 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 be 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.,


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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.
 - 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


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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 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.


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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.
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 &


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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'

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.


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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

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


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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

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.


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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.
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.

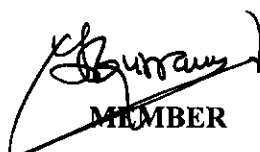
EMP

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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