

MINUTES

614th MEETING

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

Date: 24.04.2023 & 25.04.2023

**MINUTES OF THE 614th MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY HELD ON 24.04.2023 & 25.04.2023.**

Agenda No	Description	File No.	Minutes
a)	Confirmation of the minutes of the 613 th meeting of the Authority held on 21.04.2023.		The minutes of the 613 th meeting of the Authority held on 21.04.2023 was confirmed.
b)	The Action taken on the decisions of the 613 th meeting of the Authority held on 21.04.2023.		The Member Secretary informed that 613 th Minutes uploaded in Parivesh wesbsite and action taken report will be putup ensuing meeting.
1.	Proposed Earth quarry lease over an extent of 2.49.5 Ha at S.F.No. 49/3 (P) of Thoppampatty Village, Andipatti Taluk, Theni District, Tamil Nadu by Thiru. R.Ramar-For Environmental Clearance.	8975	<p>The authority noted that the subject was appraised in 367th meeting of SEAC held on 31.03.2023 and accepts the remarks & recommendation of SEAC.</p> <p>In this connection, the authority observed that, files which were not recommended/request for withdrawn accepted by SEAC and accepted by SEIAA should not be placed to SEAC.</p> <p>Moreover, the EIA consultant has been called for explanation vide Lr. Dt:14.09.2022 as per 543rd SEIAA meeting held on 24.08.2022.</p> <p>The EIA consultant is yet to furnish reply to the same. Therefore, explanation may be called from the consultant with a warning that why the consultant should be not debarred from further proceedings. On receipt of explanation, this may be put up to authority for necessary action.</p> <p>As the proponent has not given withdrawal request with justification as committed before SEAC to till date, this file needs no consideration. Hence, the file stands rejected.</p>


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2.	Proposed Rough Stone & Gravel quarry lease over an extent of 4.52.0 Ha at S.F.No. 1547, 1548/2, 1548/3, 1550/1C, 1550/2A and 1550/2B of Melmangalam Bit-II Village, Periyakulam Taluk, Theni District, Tamil Nadu by Thiru.V.Aadimoolam- for Environmental Clearance.	8989	<p>The authority noted that the subject was appraised in 367th meeting of SEAC held on 31.03.2023 and accepts the remarks & recommendation of SEAC.</p> <p>In this connection, the authority observed that, files which were not recommended by SEAC and accepted by SEIAA and facts informed to proponent through Minutes needs no consideration. This file stands rejected.</p> <p>Therefore, Authority decided that it will not reconsider any proposal not recommended by SEAC and accepted by SEIAA. All such files shall be rejected once and for all and needs no reconsideration.</p>
3.	Proposed Gravel quarry lease over an extent of 4.17.66Ha at S.F.No.1438/1B, 1438/2B, 1438/3, 1438/1C, 1438/2C, 1486/1A and 1486/1B of Shanmugasundrapuram Village, Andipatti Taluk, Theni District, Tamil Nadu by Thiru.N.Gubendran for Environmental Clearance.	9353	<p>The authority noted that the subject was appraised in 367th meeting of SEAC held on 31.03.2023 and SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>The authority noted that the proposed mining area is surrounded by agricultural fields. Therefore, Authority after detailed discussion decided to refer back the proposal to SEAC and decided the direct the PP to furnish following additional particulars</p> <ol style="list-style-type: none"> 1. The PP shall submit NOC from Agricultural department that the proposed mining lease area is not fit for agriculture purpose. 2. NOC for Local panchayat. 3. The PP shall furnish details of impacts and mitigation measures on agricultural fields, Aquifers, drainage pattern, water table around the proposed mining area
4.	Proposed Rough stone & Gravel Quarry over an extent of 4.88.0Ha	9473	The authority noted that the subject was appraised in 367 th meeting of SEAC held on 31.03.2023 and


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	at SF.No.780, 781/1, 781/2, 782/1, 782/2(P), 783/1(P), 783/2(P), & 786 of Kumbikulam Village, Radhapuram Taluk, Tirunelveli District, Tamil Naduby Tvl.Mars Mining - for Environmental Clearance		SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein. The authority noted that the proposed mining area is surrounded by agricultural fields. Therefore, Authority after detailed discussion decided to refer back the proposal to SEAC and decided the direct the PP to furnish following additional particulars 1. The PP shall submit NOC from Agricultural department that the proposed mining lease area is not fit for agriculture purpose. 2. NOC for Local panchayat. 3. The PP shall furnish details of impacts and mitigation measures on agricultural fields, Aquifers, drainage pattern, water table around the proposed mining area
5.	Proposed Rough Stone &Gravel Quarry over an extent of 2.50.0Ha at SF.No.488/1, 488/3A (P), 489/2 (P) and 491/1 (p) of Kasthuriengapuram part - 1 Village, Tisayanvilai Taluk, Tirunelveli District, Tamil Nadu by Thiru.R.Jagan- for Environmental Clearance.	9508	The authority noted that the subject was appraised in 367 th meeting of SEAC held on 31.03.2023 and SEAC has furnished its recommendations for granting Environmental Clearance 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 quantity of 3,53,183 m ³ of Rough Stone and 36,974 m ³ of Gravel by restricting the depth of mining upto 35m as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other



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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 every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.
3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life.
4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.
5. As per the OM vide F. No. 1A3-22/1/2022-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> <ol style="list-style-type: none"> 7. The project proponent shall store/dump Topsoil generated within the earmarked area of the project site and the utilize the same for mine closure. 8. The project proponent shall spend EMP cost of Rs. 1.4924 Crores /5 Years including capital & recurring cost with 5% inflation cost anticipated every year as committed. 9. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 accepted by the Project proponent, the revised CER cost is Rs. 5 Lakhs and the amount shall be spent for the Govt. School, nearby Village as committed, before obtaining CTO from TNPCB. 10. All the trees listed within the proposed mining area shall be transplanted all along the boundary. 11. The PP shall ensure protection for the list of shrubs, herbs, climbers and the threatened/endangered vulnerable species within the proposed mining area mentioned in EIA report. 12. The PP shall ensure that the Wildlife habitat and Biodiversity shall not be disturbed.
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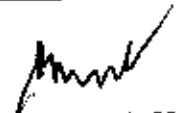

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			13. The PP shall ensure no impact on surrounding waterbodies and water course by the way of soil erosion, etc.
6.	Proposed Rough Stone and Gravel quarry lease over an extent of 1.56.5 Ha in S. F. No. 563/2D, 563/4A & 572/2 of Lembalakudi Village, Thiumayam Taluk, Pudukkottai District, Tamil Nadu by Thiru R. Vadivelu- for Environmental Clearance.	9789	<p>The authority noted that the subject was appraised in 367th meeting of SEAC held on 31.03.2023. SEAC noted that</p> <ol style="list-style-type: none"> There are not less than 52 number of the buildings/structures/sheds/houses are located within 300m radius from the proposed mine lease area. The proposed quarrying site is completely virgin and not quarried earlier. Besides, this proposal attracts the following legal implications under the provisions of Tamil Nadu Minor Mineral Concession Rules, 1959, Rule 36 (1-A) (a): <i>"...No lease shall be granted for quarrying stone within 300 meters (three hundred meters) from any inhabited site:...."</i> <p>Considering the above reasons, the SEAC decided not to recommend the proposal for the grant of Environmental Clearance due to environmental concerns.</p> <p>In view of the above, the authority unanimously accepts the decision of SEAC and decides to reject the proposal and request the Member Secretary, SEIAA for future course of action.</p>
7.	Existing Limestone mine over an extent of 4.92.5Ha in S.F.Nos. 245/1A, 1B, 2A, 2B, 3, 4, 248/1, 2, 3, 4, 249/1(P), 2, 3A & 3B of	6407	<p>The Authority noted that the subject was appraised in the 367th meeting of SEAC held on 31.03.2023. The SEAC has decided to grant of Terms of Reference (TOR) under Violation category, subject to the</p>


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<p>Kallankurichi Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu by M/s. Chettinad Cement Corporation (P) Limited -for Terms of Reference under Violation.</p>	<p>following TORs, in addition to the standard terms of reference for EIA study with the exemption of Public Hearing for non-coal mining projects as per <i>MoEF & CC OM F.No. 22-4/2020-IA.III, dated. 16.02.2021</i> 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 consultants accredited by the QCI and NABET as per the MoEF OM dated 2nd December, 2009.</p>
	<p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) under violation category for undertaking EIA study followed by the EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants subject to the conditions as recommended by SEAC & normal / Standard conditions in addition to the following conditions and conditions stated therein vide Annexure 'B'.</p>
	<ol style="list-style-type: none"> 1. The PP shall furnish an Independent Chapter 1 as per the MoEF & CC Violation Notification S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed.

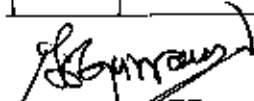

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		<p>and economic benefit derived due to violation a a condition of Environmental Clearance.</p> <ol style="list-style-type: none"> 2. The PP shall furnish Copy of valid mining lease approval obtained from the competent Authority. 3. The PP shall furnish Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining. 4. The PP shall furnish EMP for the project life including progressive mine closure plan and final mine closure plan with detailed budget plan. 5. 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. 6. 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. 7. The PP shall study in detail about Soil health, Climate change leading to Droughts, Floods etc. 8. The PP shall study in detail about release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people. 9. The PP shall study in detail about Possibilities of water contamination and impact on aquatic ecosystem health. 10. 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.
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			<p>11. The PP shall study the impact on Invasive Alien Species (IAP).</p> <p>In case the PP does not furnish Chapter 13 as directed by SEAC, MS, SEIAA may refer the file to SEAC for further action.</p>
8.	Proposed Rough stone quarry lease area over an extent of 1.22.0Ha at S.F.Nos. 76 and 140 (Part-4), Nathathahalli Village, Nailampalli Taluk, Dharmapuri District, Tamil Nadu by Thiru. P.Periyannan -For Environmental Clearance	7954	<p>The Authority noted that this proposal was placed for appraisal in this 367th Meeting of SEAC held on 31.03.2023. During the meeting the PP has requested for additional time to produce the said details pertaining to the existence of the structures. Therefore, SEAC decided to defer the proposal.</p> <p>In view of the above, the Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 31.03.2023.</p>
9.	Proposed Gravel quarry lease area over an extent 1.59.0Ha at S.F.Nos. 38/2 & 38/3A of Vaippadi Village, Perundurai Taluk, Erode District, Tamil Nadu by Tmt.A.Mainavathi-For Environmental Clearance	8430	<p>The Authority noted that this proposal was placed for appraisal in this 367th Meeting of SEAC held on 31.03.2023. The PP was not present during the meeting. Further, the proponent vide letter dated 29.03.2023 has communicated that they wish to withdraw the proposal submitted for Environmental Clearance. In view of this, SEAC decided to remit the proposal back to SEIAA.</p> <p>After detailed deliberations, the Authority decided to obtain the following,</p> <ol style="list-style-type: none"> 1. The kml uploaded by the PP in the Parivesh portal shows that the proposed site has been quarried earlier. Further, the precise area communication letter and mine plan approval letter have not mentioned about the quarrying activity carried out. Hence, AD/Mines shall

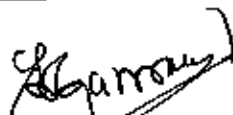

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			<p>inspect the quarry site and give his comments on the existing site condition.</p> <p>On receipt of the above, the Authority would decide the further course of action.</p> <p>In view of the above, authority has decided to request the Member Secretary, SEIAA to communicate the said decision of the authority to the project proponent.</p>
10.	Proposed Rough Stone & Gravel quarry lease over an extent of 1.24.29 Ha (patta land) at S.F.No. 178/1A in Mannarkottai Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Tmt.S.Erakkammal -For Environmental Clearance	9312	<p>The Authority noted that the subject was appraised in the 367th SEAC meeting held on 31.03.2023. 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 recommendation of SEAC and the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of 98,750m³ of Rough Stone & 54,000m³ of Gravel by restricting the depth of mining upto 41m Below Ground Level as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <p>1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</p>


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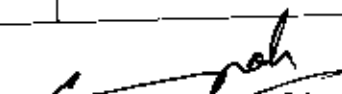
		<ol style="list-style-type: none">2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life.4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.
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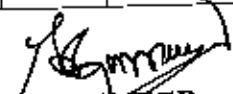

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11.	<p>Proposed Rough stone and Gravel quarry lease over an extent of 4.59.0 Ha of Patta land in S.F.Nos. 661/2C, 661/2D, 661/2E, 661/2F, 661/2G, 661/2H, 662/2B, 662/2C, 662/2D, 662/2E, 662/2F, 662/4D, 662/4E, 662/4F, 662/4G, 662/4H, 662/4L, 662/4J, 662/4K, 662/5A and 662/5B of Alividaithangi Village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu by M/s. Rajiraj Minerals Private Limited- For Environmental Clearance.</p>	9509	<p>The Authority noted that the subject was appraised in the 367th SEAC meeting held on 31.03.2023. 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 recommendation of SEAC and the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of 7,77,035m³ of Rough Stone & 1,18,638m³ of Gravel by restricting the depth of mining upto 40m Below Ground Level as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <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 till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented. 3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC
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			<p>while seeking a renewal of the mining plan to cover the project life.</p> <p>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</p> <p>5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</p> <p>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p>
12.	Existing Colour Granite quarry lease over an extent of 10.12.0 Ha S.F.Nos.120(P) Naganur Village, Kulithalai Taluk, Karur District, Tamil Nadu by M/s Tamil Nadu Minerals Ltd., - For amendment to Environmental Clearance.	4049	<p>The authority noted that the subject was appraised in 367th meeting of SEAC held on 31.03.2023. The proponent requested the Committee to grant additional time to submit the certified compliance report. The SEAC accepted the request and decided to defer the subject to a later date.</p> <p>The Authority decided to request the Member Secretary, SEIAA TN to communicate the aforesaid SEAC minutes to the Proponent.</p>


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13.	Proposed of Rough stone quarry lease over an extent of 2.00.0Ha at S.F.No. 301(Part-3) in Athi Village, Cheyyar Taluk, Tiruvannamalai District, Tamil Nadu by Tmt R. Latha (Legal heir of Late Thiru.M.Ramachandran) – For Environmental Clearance.	7073	<p>The authority noted that the subject was appraised in 367th meeting of SEAC held on 31.03.2023. 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 production Rough Stone – 2,65,995 m³ to a depth of 31m BGL (16m AGL + 15m BGL) and the Ultimate depth shall not exceed 66m (16m AGL + 50m BGL). This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <ol style="list-style-type: none"> 1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period. 2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented. 3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC
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			<p>while seeking a renewal of the mining plan to cover the project life.</p> <p>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</p> <p>5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</p> <p>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p>
14.	Proposed Rough stone and gravel quarry lease over an extent of 1.66.0 Ha at S.F.No. 367/2A (Part), Morattupalayam Village, Uthukuli Taluk, Tiruppur District, Tamil Nadu by Tmt.R.Chitra - For Environmental Clearance.	7857	<p>The authority noted that the subject was appraised in 367th meeting of SEAC held on 31.03.2023. The EIA coordinator informed the Committee that the Proponent is yet to comply with the non-compliances reported in the CCR. Hence the SEAC decided to defer the subject to a later date.</p> <p>The Authority decided to request the Member Secretary, SEIAA TN to communicate the aforesaid SEAC minutes to the Proponent.</p>


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15.	Proposed Rough Stone Quarry lease over an extent of 1.65.5 Ha at S.F.Nos. 81/2A1 & 81/2A2 of Chettipillaiyarnatham Village, Thirumangalam Taluk, Madurai District, Tamil Nadu by Thiru. P. Rajmohan - For Environmental Clearance.	8438	The authority noted that the subject was appraised in 367th meeting of SEAC held on 31.03.2023. The Committee decided to defer the subject to a later date. The Authority decided to request the Member Secretary, SEIAA TN to communicate the aforesaid SEAC minutes to the Proponent.
16.	Proposed Rough Stone and Gravel quarry over an extent of 4.32.10 Ha in S.F.No. 264/2(P), 264/3A(P), 267/1B, 267/2(P) & 267/3 of Akkinampattu Village, Cheyyur Taluk, Chengalpattu District, Tamil Nadu by M/s. Naraj Blue Metal Pvt Ltd for Terms of Reference.	9841 New No 9926	<p>The proposal was placed in the 367th SEAC Meeting held on 31.03.2023.</p> <p>The SEAC noted the following:</p> <ol style="list-style-type: none"> The proponent had submitted online application in the name of Thiru. P. Naraj Rough stone and Gravel Quarry and the application number is SIA/TN/MIN/418675/2023 and offline File No.9841/2023. Due to change in name of the project, the proponent tried to withdraw the application but the withdraw option was not available due to technical issues. Subsequently, the proponent had submitted new online application in the name of M/s. Naraj Blue Metals Private Limited Rough stone and Gravel Quarry and the application number is SIA/TN/MIN/421650/2023 and offline File No.9926/2023 and requested before the committee to appraise the proposal pertaining to online proposal number SIA/TN/MIN/421650/2023 and File No.9926/2023. <p>The Authority after detailed deliberation, decided that</p> <ol style="list-style-type: none"> The proponent shall give clear justification for withdrawal of the online proposal no.


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			<p>SIA/TN/MIN/418675/2023 and offline File No.9841/2023.</p> <p>2. The proponent shall submit withdrawal request in online through Parivesh Portal pertaining to online proposal no. SIA/TN/MIN/418675/2023.</p> <p>In the view of the above, Authority decided that the process for online proposal no. SIA/TN/MIN/421650/2023 and File No.9926/2023 shall be kept in abeyance until proper justification and withdrawal process of F.No.9841 is completed.</p> <p>The Authority decided to request Member Secretary – TN to communicate the minutes to the proponent.</p>
17.	Proposed Rough stone & Gravel quarry over an extent of 2.66.5 Ha at S.F.No. 200/1, 4A, 201/1, 2, 204/4, 6, 207/4A, 4B, 9 10, 11 & 12 in Udaiyalipatti Village, Kulathur Taluk, Pudukottai District, Tamil Nadu by Thiru.A.Urumaiya - for Terms of Reference	9828	The Authority noted that this proposal was placed for appraisal in the 367 th meeting of SEAC held on 31.03.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions mentioned in 'Annexure B' of this minutes.
18.	Proposed Rough stone & Gravel quarry lease over an extent of 3.66.0 Ha at S.F.No. 860/1, 860/2A (Part), 861/1 & 861/2 in Muthalipalayam Village, Kangayam Taluk, Tiruppur District, Tamil Nadu by	9835	The Authority noted that this proposal was placed for appraisal in the 367 th meeting of SEAC held on 31.03.2023. 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


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	Thiru.A.Selvaraj - for Terms of Reference		Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions mentioned in 'Annexure B' of this minutes.
19.	Proposed Multi Colour Granite lease over an extent of 3.12.0 Ha at S.F.No. 1/2B (Part) & 1/3B (Part) in Thangayur Village, Edappadi Taluk, Salem District, Tamil Nadu by Thiru.B.Venkatesh - for Terms of Reference	9855	The Authority noted that this proposal was placed for appraisal in the 367 th meeting of SEAC held on 31.03.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions mentioned in 'Annexure B' of this minutes.
20.	Proposed Rough Stone & Gravel Quarry lease over an extent of 3.56.0 Ha at S.F.No. 52/8B2, 52/8B3, 53/10, 53/11, 53/12, 53/5B, 53/6, 53/7, 53/8, 53/9, 54/1B2 & 54/1C in Sundakottai Village, Aruppukkottai Taluk, Virudhunagar District, Tamil Nadu by Thiru.R.R.Senthilkumar Raju - for Terms of Reference	9901	The Authority noted that this proposal was placed for appraisal in the 367 th meeting of SEAC held on 31.03.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions mentioned in 'Annexure B' of this minutes.
21.	Proposed Rough Stone & gravel quarry lease area over an extent of 2.25.5 Ha at SF. No. 209/1A (P), 209/1B (P) & 209/2 (P) of Morattupalayam Village, Uthukuli Taluk, Tiruppur District by Tmt. V Revathi - For Terms of Reference.	9731	The authority noted that this proposal was placed for appraisal in 367 th meeting of SEAC held on 31.03.2023 and SEAC decided to call for the following additional details. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv)


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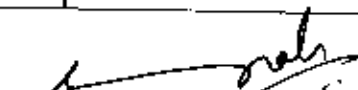
			<p>300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the ownership of the building, nature of construction, age of the building, number of residents, their profession and income, etc.</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 31.03.2023.</p>
22.	Proposed Rough Stone & gravel quarry lease area over an extent of 3.14.5 Ha at SF. No. 224/2, 224/4, 225/2, 225/3,225/4,225/5 & 225/6 of Thiruchunai Village, Melur Taluk, Madurai District by Thiru S. Sivakumar - For Terms of Reference.	9773	<p>The authority noted that this proposal was placed for appraisal in 367th meeting of SEAC held on 31.03.2023 and SEAC decided to defer the proposal.</p> <p>In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 31.03.2023.</p>
23.	Proposed Rough Stone & gravel quarry lease area over an extent of 3.77.0 Ha at SF. No. 306/1, 3, 4A, 4B,5A & 306/5B of Akilandapuram Village, Kayathar Taluk, Thoothukudi District by Thiru. B.Aravinth - For Terms of Reference	9801	<p>The authority noted that this proposal was placed for appraisal in 367th meeting of SEAC held on 31.03.2023, 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 SEAC & normal</p>


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			conditions in addition to the conditions in 'Annexure B' of this minute.
24.	Proposed Rough Stone & Gravel lease over an extent of 2.59.0Ha at S.F.No. 1167/9A, 1167/9B1 & 1167/9B2 in Kachaikatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu by Thiru. K. Kumaravel -For Terms of Reference	9734	The Authority noted that this proposal was placed for appraisal in this 367 th Meeting of SEAC held on 31.03.2023. Based on the documents and presentation made by the proponent, SEAC after detailed discussions decided not to recommend this project for issuing ToR, considering that the site is located in an ecologically rich area with thick vegetation and depletion of fertile topsoil will lead to environmental degradation to flora and fauna in and around the area. In view of the above, the Authority accepts the decision of SEAC and decided to request the Member Secretary, SELAA-TN to grant rejection letter to the project proponent as per the 367 th Meeting of SEAC held on 31.03.2023.
25.	Proposed Rough Stone & Gravel lease over an extent of 2.52.5Ha at S.F.No. 149/1A2, 149/1B2 & 149/2A in Udaiyalippatti Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by Thiru.G.Durai -For Terms of Reference	9776	The Authority noted that this proposal was placed for appraisal in this 367 th meeting of SEAC held on 31.03.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions in 'Annexure B' of this minute.
26.	Proposed Rough stone quarry lease over an extent of 0.61.0 Ha in S.F.No: 543/3A of Thulaiyanur Village of Thirumayam Taluk of	9721	The authority noted that the subject was appraised in 367 th meeting of SEAC held on 31.03.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms

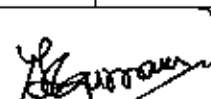

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	<p>Pudukkottai District Tamil Nadu by Tmt.S.Azhagu - For Terms of Reference.</p>		<p>of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions in 'Annexure B' of this minute.</p> <ol style="list-style-type: none"> 1. The project proponent shall prepare mine closure plan considering mineable quantity of Topsoil, Weathered rock & mineral reject/waste. If any. 2. Copy of valid mining lease approval obtained from the competent Authority. 3. Copy of approved review of scheme of mining plan by the competent authority (Dept. of Geology and Mining / IBM). 4. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site. 5. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
<p>27.</p>	<p>Proposed Rough stone and Gravel quarry lease over an extent of 1.53.5 Ha in S.F.No: 210/7C1, 210/8A1B of Melur Village of Kulathur Taluk of Pudukkottai District Tamil Nadu by Thiru M. Nallaiyah - For Terms of Reference.</p>	<p>9742</p>	<p>The authority noted that the subject was appraised in 367th meeting of SEAC held on 31.03.2023. The SEAC decided to call for the following additional details from the Proponent:</p> <p>The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as</p>


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			<p>dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc indicating the ownership of the building, nature of construction, age of the building, number of residents, their profession and income, etc. On receipt of the aforesaid details/documents, the Committee will further deliberate and decide on future course of action.</p> <p>The Authority decided to request the Member Secretary, SEIAA TN to communicate the aforesaid SEAC minutes to the Proponent.</p>
28.	<p>Proposed Multi Colour Granite quarry lease over an extent of 1.00.0 Ha in S.F.No: 884/1B, 1326, 1333/1A, 1B, 2, 1334/1(P), 2(P), 3 and 1334/4 of Thiruthangal Village of Sivakasi Taluk of Virudhunagar District Tamil Nadu by Tvl. G.P.K. Granite Industry - For Terms of Reference.</p>	9880	<p>The authority noted that the subject was appraised in 367th meeting of SEAC held on 31.03.2023. The SEAC had noted that a structure belonging to the school is located abutting the boundary of the lease and many structures / houses are located within 300 m radius distance from the quarry boundary. Hence, the SEAC decided to call for the following additional details from the Proponent:</p> <ol style="list-style-type: none"> 1. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project shall be furnished. 2. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc indicating the ownership of the building, nature of construction, age of the


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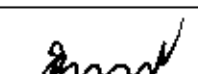

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		<p>building, number of residents, their profession and income, etc.</p> <ol style="list-style-type: none"> 3. Proponent shall furnish the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site. 4. The EIA Coordinator shall obtain and furnish the details of quarry/quarries operated by the project proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences. 5. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan. 6. The Proponent shall carry out Drone video survey covering the cluster of the mines, Green belt, fencing etc., 7. The PP shall furnish the details indicating the Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, and wherever required, the statutory clearances from the Regulatory Authorities, such as the TNPCB, Dept. of Geology and Mining, the District Magistrate should be secured and furnished to the effect that the proposed quarry site is technically and environmentally safe place for carrying out the quarrying operations. 8. If any quarrying operations were carried out in
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			<p>the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Integrated Regional Office, Chennai (or) the concerned DEE/TNPCB.</p> <p>On receipt of the aforesaid details/documents, the Committee will further deliberate and decide on future course of action.</p> <p>The Authority decided to request the Member Secretary, SEIAA TN to communicate the aforesaid SEAC minutes to the Proponent.</p>
29.	Proposed Rough Stone and Gravel quarry lease over an extent of 3.74.0 Ha at S.F.No. 289/1A(P), 289/2(P) and 161/1A(P), Irukkandurai Part-II Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu by Tvl. Hi Tech Rock Products & Aggregates Limited - for Environmental Clearance	9405	<p>The authority noted that this proposal was placed for appraisal in 367th meeting of SEAC held on 31.03.2023 and SEAC decided to defer the project and to take up the proposal in the forthcoming meeting.</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 31.03.2023.</p>
30.	Proposed Rough Stone and Gravel quarry lease over an extent of 3.98.1 Ha at S.F.No. 282/3B(P), 283/2(P), 278/2(P), 277/1B(P), 284/1A1(P) & 284/2(P), Irukkandurai Part-II Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu by Tvl. Hi Tech Rock Products &	9406	<p>The authority noted that this proposal was placed appraisal in 367th meeting of SEAC held on 31.03.2023 SEAC decided to defer the project and to take up proposal in the forthcoming meeting.</p> <p>In view of the above, the authority decided to request Member Secretary, SEIAA to communicate the SE minutes to the project proponent.</p>


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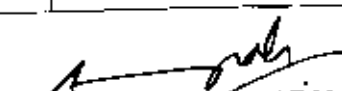
	Aggregates Limited - for Environmental Clearance.		
31.	Proposed Rough Stone and Gravel quarry lease over an extent of 4.71.40Ha at S.F.No.290/1B(P), 290/2(P), 291/2B(P), 287/3(P), 160/1A(P), 289/1A(P) & 289/2(P) Irukandurai Part-II Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu by Tvl. Hi Tech Rock Products & Aggregates Limited - for Environmental Clearance	9407	<p>The authority noted that the subject was appraised in 367th meeting of SEAC held on 31.03.2023. SEAC decided to defer and to take up the proposal in the forthcoming Committee meeting.</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 31.03.2023</p>
32.	Proposed Expansion of Industrial Park by M/s. Mahindra Industrial Park Chennai Limited at Survey Numbers: 65/1, 65/2, 65/3, 66/1, 66/2, 66/3, 66/4, 66/5, 66/6, 66/7, 67/1, 67/2, 68/1, 68/2, 68/3, 68/4, 69/2, 69/3, 69/4, 69/5, 69/7, 69/8, 70/1A, 70/2, 70/3, 70/4, 70/5, 70/6, 70/7, 70/8, 71/1, 71/2, 71/3, 71/4, 71/5, 72/1, 72/2, 72/3, 72/4, 72/5, 72/6, 72/7, 73/1, 73/2, 73/3, 73/4, 73/5, 73/6, 73/7, 73/8, 73/9, 74/1, 74/2, 75/1, 75/2A, 75/2B, 75/2C, 75/3A, 75/3B1, 75/3C, 75/3D, 76/2, 76/3, 76/4, 76/5, 77/2, 77/3, 77/4, 77/5, 77/6, 77/7, 78/1, 78/2, 78/3, 78/4, 78/5, 78/6, 78/7, 78/8, 79/1, 79/2, 79/3, 79/4, 79/5, 79/6, 79/8, 81/1, 82/2A, 82/2B, 83/1, 83/3,	9560	<p>The proposal was placed in the 367th SEAC Meeting held on 31.03.2023.</p> <p>Based on the presentation and document furnished by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance. After detailed deliberations, the Authority accepted the recommendations of SEAC and decided to grant Environmental Clearance subject to the conditions as recommended by SEAC in addition to the following conditions and conditions stated therein vide Annexure 'C':</p> <ol style="list-style-type: none"> 1. No Ground water shall be extracted for water requirement. 2. The area ear marked for Green Belt shall be increased to minimum 20% of the land area.


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84/1, 84/4, 84/5, 84/6, 84/7A,
84/7B, 84/8, 85/2, 85/5A, 85/5B,
86/1, 86/2, 86/3, 86/4, 87/2, 87/3,
87/4, 88/1, 88/2, 88/2, 88/3, 89/6A,
89/7, 90/1, 92/2, 92/3, 70/1B,
75/3B2, 76/1, 77/1, 84/2, 84/3,
85/1, 87/1 of Eliambedu Village &
119/8, 120/6, 120/7, 120/8A,
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146/3, 146/4, 147/2, 147/4, 147/5A,
147/6, 147/7, 147/8, 147/9, 148/2B,
148/2C, 148/2D2A, 148/2D2B,
149/2, 150/2B, 150/2E, 150/2F,
151/2, 151/3A, 151/3B, 151/4,
152/2, 152/3, 152/5A, 152/5B,
152/6, 152/9, 152/12, 152/16,
152/17, 153/2A, 153/2B, 153/2C1,
153/2C2, 153/4, 189/1, 189/2A,
189/2B, 189/3, 191/1B, 192/1,
193/1, 193/2, 194/1A1, 194/1A2,
194/1B, 194/2, 194/4, 194/5, 194/6,
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197/5, 197/7, 198/1A2, 198/2A,
198/2B, 198/2C, 198/3, 198/4,
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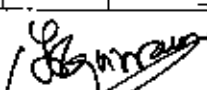

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200/14, 201/1, 201/2, 201/3A1,
201/3A2, 201/3B, 201/5, 201/6,
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202/9, 202/10, 202/11, 202/15,
202/17, 203/5A, 203/5B, 203/7A,
203/7B, 204/3, 205/1, 205/2, 205/3,
205/4, 205/5, 205/7A, 205/7B,
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206/4A, 206/4B, 206/4C, 206/5A,
206/5B, 206/6A, 206/6B, 206/6C,
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210/2B, 210/2F, 210/2G, 210/2H,
210/2I2, 218/2B, 218/8, 218/9,
218/10, 218/11, 218/12, 218/13,
218/14, 224/2, 225/5, 226/3, 226/4,
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226/9, 226/10, 226/11, 226/12,
227/2, 227/3, 227/5, 227/6, 227/7,
227/8, 227/10, 227/11, 227/12,
227/13, 227/14, 228/1A, 228/1B,
228/3, 228/4, 228/6A, 228/6B,
228/6C, 228/7, 228/8, 228/9,
228/10B, 228/11, 228/12, 231/8,
120/1, 120/2, 120/3, 120/4, 120/5,
120/11, 147/1, 147/3, 147/5B,
148/1, 148/2A, 148/2D1, 148/2D3,
150/1, 150/2A, 150/2C, 150/2D,
150/2G, 150/3, 152/4, 152/7, 152/8,
152/10, 152/11, 152/13, 152/14,


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	152/15, 153/3, 190/1A, 190/1B, 190/2, 90/3, 190/4, 190/5, 191/1A, 191/2, 192/2, 192/3A, 192/3B1, 192/3B2, 192/4, 194/3, 194/12, 195/1, 195/2, 195/3, 195/5, 195/9, 196/5, 196/7, 197/3, 197/6, 200/9, 201/9, 202/2, 208/1, 227/4, 227/9, 227/15, 227/16 of Pudukottai Taluk, Thiruvallur District, Tamil Nadu for Environmental Clearance.		
33.	Proposed Rough Stone & Gravel quarry lease over an extent of 3.44.0 Ha at S.F.No. 164/1B, 164/2, 164/3, 164/4A, 164/4B, 164/4D, 164/5B, 165/1A, 165/1B, 165/4, 165/5, 165/6, 165/7A, 165/7B, 165/7C, 165/7D, 165/8 & 165/9 of Perumbakkam Village, Cheyyur Taluk, Chengalpattu District, Tamil Nadu by Thiru J.Sekar -For Environmental Clearance	9909	<p>The authority noted that the subject was appraised in 367th SEAC meeting held on 31.03.2023. 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 restricted to 436275 m³ of rough stone and 29,320 m³ of gravel with an ultimate depth of mining upto 40m bgl as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p>


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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 till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.
3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life.
4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.
5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.
6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure


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			<p>made under RMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p> <p>7. The project proponent shall store/dump Top soil, Weathered Rock & Granite Waste generated within the earmarked area of the project site and the utilize the same for mine closure as per the approved mine closure plan.</p> <p>8. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 as accepted by the Project proponent the revised CER cost is Rs. 15 Lakhs and the amount shall be spent towards the Government School, Perumbakkam, Chengalpattu District for the activities as committed, before obtaining CTO from TNPCB.</p>
34.	Existing Black Granite quarry lease over an extent of 35.99.0 Ha at S.F.No: 412 (P) at Sinjalanatham Village, Pennagaram Taluk, Dharmapuri District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited- For Environmental Clearance	1107	<p>The authority noted that the subject was appraised in 367th meeting of SEAC held on 31.03.2023. SEAC noted that the project proponent has requested additional time to furnish certain details sought by the Committee vide minutes of 291st SEAC meeting held on 1.7.2022 & the vide minutes of 536th Authority meeting held on 21.10.2020 & 22.10.2020 as per Minutes of 347th SEAC meeting held on 13.01.2023. 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 31.03.2023.</p>


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35.	Proposed Gravel quarry lease over an extent of 4.44.5 Ha in S.F.No 500/1, 500/2 and 316/7, Peruvalapur Village, Lalgudi Taluk, Tiruchirappalli District, Tamil Nadu by Thiru.M.Ramachandran- For Environmental Clearance	7196	<p>SEAC has furnished its recommendations to the Authority for granting Environmental Clearance to the Project subject to the conditions stated therein. Subsequently it was placed in 594th SEIAA meeting held on 18.02.2023 and the authority after detailed discussions decided to call for the following additional particulars from the Project Proponent:</p> <ol style="list-style-type: none"> 1. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area from a reputed research institutions on the following: <ol style="list-style-type: none"> a. Soil health & bio-diversity. b. Climate change leading to Droughts, Floods etc. c. Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people. d. Possibilities of water contamination and impact on aquatic ecosystem health. e. Agriculture, Forestry & Traditional practices. f. Hydrothermal/Geothermal effect due to distraction in the Environment. g. Bio-geochemical processes and its foot prints including environmental stress. h. Sediment geochemistry in the surface streams. 2. Impact of mining on the agriculture/ agricultural fields, horticulture, humus,
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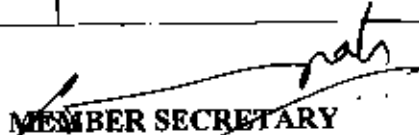

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water body, surface/underground drainage, biodiversity in the vicinity of the proposed site shall be studied from a reputed Institute other than the NABET consultant. Health hazards anticipated due to the mining activity shall also be studied.

3. The impact of mining on biodiversity, agriculture and horticulture around the mining area, adjacent lands and land use.
4. Whether the sulphides/sulphates released during mining activity will mix with water forming acids change the PH and hamper the health of human beings/wildlife in the area.
5. A letter from the concerned DFO stating the proximity distance of RF, WLS etc., located within 25 Km from the project site.

Based on the proponent's reply furnished by the PP on 18.04.2023, this subject has again been placed in the Authority meeting. 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 restricted to 35,586 m³ of gravel by allowing mining activity only in sections XY-AB, XY-CD (leaving out section XY-EF) with an ultimate depth of mining upto 2m bgl as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following


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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 till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.
3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life.
4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.
5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.
6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as


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			<p>committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p> <p>7. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 as accepted by the Project proponent the revised CER cost is Rs. 5 Lakhs and the amount shall be spent for the activities as committed, before obtaining CTO from TNPCB.</p>
36.	Proposed Gravel quarry over an extent of 1.28.0 Ha in S.F.No.116/1 of Thiruvanthipuum Village, Cuddalore Taluk, Cuddalore District, Tamil Nadu by Thiru. P. Muthukumar- for Environmental Clearance.	9030	<p>SEAC has furnished its recommendations to the Authority for granting Environmental Clearance to the Project subject to the conditions stated therein. Subsequently it was placed in 601st SEIAA meeting held on 13.03.2023 and the authority after detailed deliberations, decided to consider the proposal after obtaining the following details from the project proponent:</p> <ul style="list-style-type: none"> i) The PP shall furnish the detailed report regarding impact on the agriculture, horticulture, soil health, Bio diversity, drainage pattern and water table by this mining activity. ii) Garudan River is located in the vicinity of the project site, hence detailed study on impact to this river by this mining activity <p>Based on the proponent's reply furnished by the PP on 17.04.2023, this subject has again been placed in the Authority meeting. After detailed discussions, the Authority taking into account the</p>


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		<p>recommendations of SEAC and also the safety aspects with respect to the nearby water body, hence reduce the area in XY-CD section and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity restricted to 21000m³ of gravel with an ultimate depth of mining upto 5m AGL as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <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 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 [L- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</p> <p>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p> <p>7. As per the MoEF& CC office memorandum F.No.22-65/2017-1A.III dated: 30.09.2020 and 20.10.2020 as accepted by the Project proponent the revised CER cost is Rs. 2 Lakhs and the amount shall be spent for the activities as committed, before obtaining CTO from TNPCCB.</p>
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Annexure-'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


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

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

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 and Biological diversity Rules, 2004 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

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


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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.

Water Environment – Protection and mitigation measures

9. The proponent shall ensure that the activity does not disturb the water bodies and natural flow of surface and groundwater, nor cause any pollution, to water sources in the area.
10. The proponent shall ensure that the activities do not impact the water bodies/wells in the neighboring open wells and bore wells. The proponent shall ensure that the activities do not in any way affect the water quantity and quality in the open wells and bore wells in the vicinity or impact the water table and levels. The proponent shall ensure that the activities do not disturb the river flow, nor affect the Odai, Water bodies, Dams in the vicinity.
11. Water level in the nearest dug well in the downstream side of the quarry should be monitored regularly and included in the Compliance Report.
12. Quality of water discharged from the quarry should be monitored regularly as per the norms of State Pollution Control Board and included in the Compliance Report.
13. Rain Water Harvesting facility should be installed as per the prevailing provisions of TNMBR/TNCDBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
14. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the compliance reports to SEIAA.
15. Regular monitoring of ground water level and water quality shall be carried out around the mine area during mining operation. At any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.
16. Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall


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ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.

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.

Soil Environment – Protection and mitigation measures

20. The proponent shall ensure that the operations do not result in loss of soil biological properties and nutrients.
21. The proponent shall ensure that activity does not deplete the indigenous soil seed bank and disturb the mycorrizal fungi, soil organism, soil community nor result in eutrophication of soil and water.
22. The activities should not disturb the soil properties and seed and plant growth. Soil amendments as required to be carried out, to improve soil health.
23. Bio remediation using microorganisms should be carried out to restore the soil environment to enable carbon sequestration.
24. The proponent shall ensure that the mine restoration is done using mycorrizal VAM, vermin-composting, Biofertilizers to ensure soil health and biodiversity conservation.
25. The proponent shall ensure that the topsoil is protected and used in planting activities in the area.
26. The proponent shall ensure that topsoil to be utilized for site restoration and Green belt alone within the proposed area.
27. The top soil shall be temporarily stored at earmarked place (s) and used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked 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.


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Noise Environment – Protection and mitigation measures

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

Biodiversity - Protection and mitigation measures

30. The proponent should ensure that there is no disturbance to the agriculture plantations, social forestry plantations, waste lands, forests, sanctuary or national parks. There should be no impact on the land, water, soil and biological environment and other natural resources due to the mining activities.
31. 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.
32. 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.
33. 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.
34. 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.

Climate Change

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


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36. There should be least disturbance to landscape resulting in land use change, contamination and alteration of soil profiles leading to Climate Change.
37. Intensive mining activity should not add to temperature rise and global warming.
38. Operations should not result in GHG releases and extra power consumption leading to Climate Change.
39. Mining through operational efficiency, better electrification, energy use, solar usage, use of renewable energy should try to decarbonize the operations.
40. Mining Operation should not result in droughts, floods and water stress, and shortages, affecting water security both on site and in the vicinity.
41. Mining should not result in water loss from evaporation, leaks and wastage and should support to improve the ground water.
42. 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.

Reserve Forests & Protected Areas

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

Green Belt Development


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52. The proponent shall ensure that in the green belt development more indigenous trees species (Appendix as per the SEAC Minutes) are planted.

53. The proponent shall ensure the area is restored and rehabilitated with native trees as recommended in SEAC Minutes (in Appendix).

Workers and their protection

54. 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.

55. 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.

56. 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.

Transportation

57. 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.

58. 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


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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.

Storage of wastes

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

CER/EMP

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

61. The EMP Shall also be implemented in consultation with local self-government institutions.

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

Directions for Reclamation of mine sites

63. 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.

64. 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.

65. 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.


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66. For mining area reclamation plot culture experiments to be done to identify/ determine suitable species for the site.
67. 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.
68. Soil and moisture conservation and water harvesting structures to be used where ever possible for early amelioration and restoration of site.
69. 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.
70. Over burdens may be analyzed and tested for soil characteristics and used in the site for revegetation. Wherever possible seeds, rhizome, bulbs, etc of pioneering spices should be collected, preserved and used in restoring the site.
71. 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.
72. Reclamation involves planned topographical reconstruction of site. Care to be taken to minimize erosion and runoff. Topsoils should have necessary physical, chemicals, ecological, properties and therefore should be stored with precautions and utilized for reclamation process. Stocked topsoil should be stabilized using grasses to protect from wind. Seeds of various indigenous and local species may be broad casted after topsoil and treated overburden are spread.
73. 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.


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74. Efforts should to taken to aesthetically improve the mine site. Generally, there are two approaches to restoration i.e Ecological approach which allows tolerant species to establish following the succession process allowing pioneer species to establish. The other approach i.e plantation approach is with selected native species are planted. A blend of both methods may be used to restore the site by adding soil humus and mycorrhiza.

75. Action taken for restoration of the site should be specifically mentioned in the EC compliances.

Annexure 'B'


Cluster Management Committee

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

Impact study of mining


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

Agriculture & Agro-Biodiversity

- Impact on surrounding agricultural fields around the proposed mining Area.
- Impact on soil flora & vegetation around the project site.
- 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.
- 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.
- Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.
- The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.

Forests

- The project proponent shall detailed study on impact of mining on Reserve forests free ranging wildlife.
- The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.
- The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.


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22. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.

Water Environment

23. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the entire mine lease period.
24. Erosion Control measures.
25. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas.
26. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.
27. The project proponent shall study and furnish the details on potential fragmentation impact on natural environment, by the activities.
28. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts.
29. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.
30. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.

Energy

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

Climate Change

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

Mine Closure Plan


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

EMP

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

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

Risk Assessment

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

Disaster Management Plan

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

Others

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

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

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

Annexure 'C'

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).


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

Health

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

Energy

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

Regulatory Frameworks

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.


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

19. The proponent shall provide elevator as per rules CMDA/DTCP.

Database maintenance & audits

20. The database record of environmental conditions of all the events from pre-construction, construction and post-construction should be maintained in digitized format.

21. The proponent should maintain environmental audits to measure and mitigate environmental concerns.

Biodiversity

22. There should not be any impact due to the modification of the habitat on critically endangered species, biodiversity, etc.,.

23. The proponent shall ensure that the proposed activities in no way result in the spread of invasive species.

24. The proponent shall adopt sustainability criteria to protect the micro environment from wind turbulences and change in aerodynamics since high rise buildings may stagnate air movements.

25. The proponent shall ensure almost safety for the existing biodiversity, trees, flora & fauna shall not disturb under any circumstances.

26. The proponent shall develop building-friendly pest control strategies by using non chemical measures so as to control the pest population thereby not losing beneficial organisms.

27. The proponent shall adopt strategies to prevent bird hits.

Safety measures

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.


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31. The disaster management and disaster mitigation standards to be seriously adhered to avoid any calamities.
32. The proponent shall provide the emergency exit in the buildings.
33. The proponent shall adhere to the provision and norms regard to fire safety prescribed by competent authority.

Water/Sewage

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

Parking

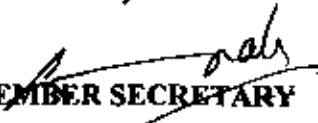
40. The project proponent shall adhere to provide adequate parking space for visitors of all inmates including clean traffic plan as committed.

Solid waste Management

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


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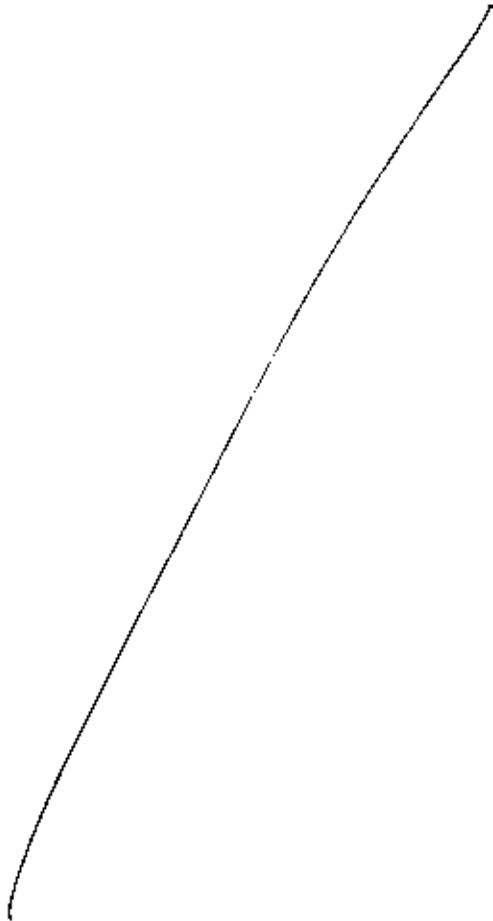
44. The proponent shall ensure that all activities of EMP shall be completed before obtaining CTO from TNPCB.

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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