

MINUTES

613th MEETING

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

Date: 21.04.2023

**MINUTES OF THE 613th MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY HELD ON 21.04.2023.**

Agenda No	Description	File No.	Minutes
a)	Confirmation of the minutes of the 612 th meeting of the Authority held on 17.04.2023 & 18.04.2023.		The minutes of the 612 th meeting of the Authority held on 17.04.2023 & 18.04.2023 was confirmed.
b)	The Action taken on the decisions of the 612 th meeting of the Authority held on 17.04.2023 & 18.04.2023.		The Member Secretary informed that 612 th Minutes uploaded in Parivesh website and action taken report will be putup ensuing meeting.
1.	Proposed "Upgradation of Existing R&D facility into intermediates for API Manufacturing Unit", at S.F.No.27, Vandaloor Kelambakkam Road, Keelakottaiyur Village, Melakottaiyur Post, Kancheepuram (Now Chengalpattu) District, Tamil Nadu by M/s. Solara Active Pharma Sciences Limited - For Environmental clearance	7896	<p>The Authority noted that the subject was appraised in 366th SEAC meeting held on 30.03.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussion, SEIAA decided to obtain the following additional details from the PP.</p> <ol style="list-style-type: none"> 1. What are the key ecological risk anticipated in the project site and vicinity? 2. Impact on ground water, lakes nearby and other water bodies located in Mambakkam lake is 0.76 km, Melakottaiyur lake is 0.40 km Kilkottaiyur lake is 0.36 km by the pharmaceutical pollutants. 3. Direct and Indirect anticipated impact due to proliferation antibiotics to the environment. 4. Toxicity on soil microorganisms 5. Environmental burden by product on urban and rural environment. 6. Details of disposal of sewage & septage generated from the project site, since the

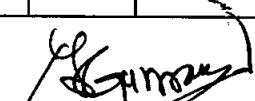

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			<p>Mambakkam R.F is located at 0.38 km from the project site.</p> <p>7. Environmental impact on the villages is located less than 1km viz Melkottaiyur, Kilkottaiyur, Mambakkam 1.57km and Kandigai 1.10km</p> <p>8. Impact on climate, temperature due to these products.</p>
2.	<p>Proposed Gravel quarry lease over an extent of 3.93.5 Ha at S.F.No.2432/1B2, 242/1C & 242/1D, Kurungulam (west) Village, Thanjavur Taluk, Thanjavur District, Tamil Nadu by Thiru.G.Pasupathi for Environmental Clearance.</p>	8162	<p>The Authority noted that the subject was appraised in 366th SEAC meeting held on 30.03.2023. 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 considering the waterbody in the vicinity of the project site, also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity restricted to 39,550 m³ of gravel by allowing mining activity only in section X1Y1-CD with an ultimate depth of mining upto 2m bgl (bearing the S.F. No. 242/1B2) as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <p>1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O.</p>


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		<p>1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</p> <ol style="list-style-type: none">2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life.4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also
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			<p>should be brought to the notice of concerned authorities during inspections.</p> <p>7. 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. 3 Lakhs and the amount shall be spent towards the Panchayat Union Primary School, Thangappaudayanpatti Village, Thanjavur District for the activities as committed, before obtaining CTO from TNPCB.</p>
3.	Proposed gravel laterite& Pebble Quarry lease over an Extent of 2.25.0Ha in S.F.Nos. 261/4(p), 262/3B & 262/4 C ¹ N palayam Village, Cuddalore Taluk, Cuddalore District, Tamil Nadu by Tmt P Indhumathi - For Environmental Clearance.	8652	<p>The authority noted that this proposal was placed for appraisal in 366th meeting of SEAC held on 30.03.2023. Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC. The proposal involves cutting of several trees as noted above, resulting in ecological degradation and loss of top soil. SEAC, therefore, decided not to recommend the proposal for grant of Environmental Clearance.</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.</p>
4.	Proposed Rough stone & Gravel Quarry over an extent of 3.42.7 at SF.No. 455/1(P), 455/2(P) & 456/1B(P) Kasthuriengapuram Part-I Village, Tisayanvilai Taluk, Tirunelveli District, Tamil Nadu by Thiru. J. Dinesh Kumar- for Environmental Clearance	9436	<p>The authority noted that this proposal was placed for appraisal in 366th meeting of SEAC held on 30.03.2023. Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC and it has been observed that there are a few structures including a windmills and a Poultry farm structure are located at a distance of 100 m and 120m from lease area which attracts the</p>


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			<p>provisions of Rule 36 (1-A) (a) of the Tamil Nadu Minor Mineral Concession Rules, 1959 states</p> <p><i>"No lease shall be granted for quarrying stone within 300 meters (three hundred meters) from any inhabited site....."</i></p> <p>Therefore SEAC decided not to recommend the proposal for grant of Environmental Clearance.</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.</p>
5.	Proposed Rough stone & gravel quarry lease over an extent of 2.16.50 Ha (Patta Land) in S.F.Nos. 12/2A, 12/2B, 12/3A, 12/3B, 12/3C and 12/3D of Pazhaveri Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu by Thiru R. Vinothsaravanan- For Environmental Clearance	9690	<p>The authority noted that this proposal was placed for appraisal in 366th meeting of SEAC held on 30.03.2023. The SEAC has observed that the proposed site is not found suitable for quarrying operations due to environmental concerns and therefore the SEAC decided not to recommend the proposal which was also accepted by SEIAA. In view of the above decision which was taken already in the aforesaid 204th SEAC meeting, the SEAC decided that the applications filed by the PP subsequently for the same proposal needed no consideration.</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.</p>
6.	Existing lime Stone quarry (Azur Lime stone Mine) over an extent of 4.925 Ha falling in SF Nos. 209/3A, 3B, 3C, 5, 6, 7B, 8, 9, 10A, 10B, 11, 12, 13A, 13B, 14, 17, 18, 210/3, 4, 6, 7A, 7B & 9 (p) of Azur Village, Kunnam Taluk, Perambalur	6392	<p>The authority noted that the subject was appraised in 366th meeting of SEAC held on 30.03.2023. SEAC decided to accept the project proponent's contention that no violation was involved in this case and therefore, SEIAA may accept the request of PP to withdraw his application seeking EC vide online proposal no. 64181/2017 Dt 24.04.2017.</p>


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	District, Tamil Nadu by M/s. Chettinad Cement Corporation Limited (CCCL) - for Environmental Clearance "Under Violation".		After detailed discussions, the Authority decided defer the proposal and direct the PP to furnish the following additional documents i) Copy of final mine closure plan and site restoration plan. ii) To furnish affidavit stating that the mine closure and site restoration would be completed as per approved final mine closure plan and site restoration plan as committed.
7.	Existing lime Stone quarry (Olaipadi Lime stone Mine) over an extent of 4.980 Ha falling in SF Nos. 211/1, 2, 4A, 4B, 212/1, 213/1; 2B & 4 of Olaipadi West Village, Kunnam Taluk, Perambalur District, Tamil Nadu by M/s. Chettinad Cement Corporation Limited (CCCL) - for Terms of Reference "Under Violation".	6406	The authority noted that the subject was appraised in 366 th meeting of SEAC held on 30.03.2023. SEAC has furnished its recommendations for grant of Terms of Reference (TOR) under violation category. After detailed discussions, the Authority accepts the recommendations of SEAC and decided to grant Terms of Reference (TOR) under violation category subject to the standard conditions stipulated by MOEF&CC, other standard conditions & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'B' of this minutes. 1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed


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		<p>and economic benefit derived due to violation as a condition of Environmental Clearance.</p> <ol style="list-style-type: none"> 2. <i>Copy of final mine closure plan and site restoration plan.</i> 3. <i>The PP shall prepare EMP considering final mine closure plan and site restoration plan.</i> 4. <i>To furnish affidavit stating that the mine closure and site restoration would be completed as per approved final mine closure plan and site restoration plan as committed.</i> 5. The PP shall furnish details of impacts and mitigation measures on agricultural fields, drainage pattern, water table around the proposed mining area. 6. The PP shall furnish Copy of valid mining lease approval obtained from the competent Authority. 7. The PP shall furnish Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining. 8. The PP shall furnish EMP for the project life including progressive mine closure plan and final mine closure plan with detailed budget plan. 9. 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. 10. 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. 11. The PP shall study in detail about Soil health, Climate change leading to Droughts, Floods etc.
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			<p>12. The PP shall study in detail about release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.</p> <p>13. The PP shall study in detail about Possibilities of water contamination and impact on aquatic ecosystem health.</p> <p>14. The PP shall study in detail about impact on flora, fauna, biodiversity and water table and the same shall be included in the final EIA report.</p> <p>15. 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 & Gravel quarry lease over an extent of 3.17.0 Ha at S.F.No. 222/2 of Pungampadi (Melpagam) Village, Aravakurichi Taluk, Karur District, Tamil Nadu by Thiru. V.Muthaiah - For Environmental clearance.	7092	<p>The authority noted that the subject was appraised in 366th meeting of SEAC held on 30.03.2023. SEAC has furnished its recommendations for grant of Terms of Reference (TOR) under violation category. After detailed discussions, the Authority accepts the recommendations of SEAC and decided to grant Terms of Reference (TOR) under violation category subject to the standard conditions stipulated by MOEF&CC, other standard conditions & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'B' of this minutes.</p> <p>1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR, comprises of assessment of</p>


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		<p>ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.</p> <ol style="list-style-type: none"> 2. The PP shall furnish details of impacts and mitigation measures on agricultural fields, drainage pattern, water table around the proposed mining area. 3. The PP shall furnish Copy of valid mining lease approval obtained from the competent Authority. 4. The PP shall furnish Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining. 5. The PP shall furnish EMP for the project life including progressive mine closure plan and final mine closure plan with detailed budget plan. 6. The PP shall study in detail about CO₂ release and temperature rise and add to micro climate alternations and the same shall be included in the final EIA report. 7. The PP shall study in detail about impact on the water bodies and natural flow of surface and ground water and the same shall be included in the final EIA report. 8. The PP shall study in detail about Soil health, Climate change leading to Droughts, Floods etc. 9. The PP shall study in detail about release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
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			<p>10. The PP shall study in detail about Possibilities of water contamination and impact on aquatic ecosystem health.</p> <p>11. The PP shall study in detail about impact on flora, fauna, biodiversity and water table and the same shall be included in the final EIA report.</p> <p>12. The PP shall study the impact on Invasive Alien Species (IAP).</p> <p>In case the PP does not furnish Chapter 13 as directed by SEAC, MS, SEIAA may refer the file to SEAC for further action.</p>
9.	Proposed Wind Earth quarry lease area over an extent of 1.53.0Ha at S.F.Nos.191/1A & 191/1B of Rasingapuram Village, Bodinaickanur Taluk, Theni District, Tamil Nadu by Thiru.N.Rajesh - For Environmental Clearance.	7883	<p>The authority noted that the subject was appraised in 366th meeting of SEAC held on 30.03.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>The authority after detailed discussion decided to defer and decided the direct the PP to furnish following additional particulars</p> <ol style="list-style-type: none"> 1. The PP shall obtain and furnish necessary amendment for mineral name from 'Wind Earth' to 'Ordinary Earth' in the mining plan & other documents as per Industries, Investment Promotion and Commerce Department G.O.(MS)No.244 dt.14.12.2022. 2. The PP shall submit NOC from Agricultural department that the proposed mining lease area is not fit for agriculture purpose and NOC for Local panchayat. 3. The PP shall submit composition heavy mineral such as ilmenite, Garnet, Rutile, etc.


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			4. The PP shall furnish details of impacts and mitigation measures on agricultural fields, drainage pattern, water table around the proposed mining area
10.	Proposed Black Granite Quarry lease over an extent of 0.76.0Haat S.F.No.132/1A, 132/1B, 132/1C & 132/1Dof Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Tmt.Mohiana Gopinath (Legal Heir of Late.Thiru.A.Gopinath) -For Environmental Clearance	8023	<p>The authority noted that the subject was appraised in 366th meeting of SEAC held on 30.03.2023. SEAC decided to seek explanation of project proponent for non-fulfilment of compliance cited in the CCR regarding (i) the failure to obtain the CTO/CTE (ii) failure to carry out the plantation (iii) free silica report of the persons employed in the mine during the previous EC period.</p> <p>On receipt of the explanation, SEAC will further examine 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 30.03.2023.</p>
11.	Proposed Rough stone & Gravel quarry lease over an extent of 1.21.5ha at S.F.No.58/1 in Velampalayam Village, Palladam Taluk, Tiruppur District, Tamil Nadu by Thiru.P.Venkatachalam for Environmental Clearance	8184	<p>The authority noted that the subject was appraised in 366th meeting of SEAC held on 30.03.2023. SEAC decided to direct the PP to submit the details of the structures (belonging to the owner/not belonging to the owner) located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds, farm houses etc, along with details of no. of persons residing in each structure/building & no of persons working in the factory. Further, the PP shall furnish numbers & types of trees within the proposed site along with photographs.</p> <p>On receipt of the additional details, SEAC will further</p>


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			<p>examine 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 30.03.2023.</p>
12.	Proposed Earth Quarry lease over an extent of 1.21.00Ha (Patta Land) at S.F.No.738/2 & 738/3 of Odaipatti Village, Uthamapalayam Taluk, Theni District, Tamil Nadu by Thiru.P.Kalaimani-For Environmental Clearance.	8597	<p>The authority noted that the subject was appraised in 366th meeting of SEAC held on 30.03.2023. SEAC decided to direct the PP to submit revised lease document and Mining plan approved by the competent authority for a period of not less than one year along with distance certificate with respect to SMTR from the DFO. On receipt of the explanation, SEAC will further examine 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 30.03.2023.</p>
13.	Proposed Rough Stone & Gravel Quarry lease over an extent of 2.64.50Ha at S.F.No.728/2, 728/3, 728/4, 728/5, 728/6, 728/7, 728/8, 728/9, 728/10, 728/11, 728/12, 728/13, 728/14, 728/15, 728/16, 728/17 & 728/18 of Magaral-B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu by M/s. Sri Sai Infrastructures - for Environmental Clearance.	8667	<p>The authority noted that the subject was appraised in 366th meeting of SEAC held on 30.03.2023. SEAC decided to defer the proposal and to place this proposal in any one of the forthcoming SEAC for regulating the activities of the EIA Coordinator.</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 30.03.2023.</p>
14.	Proposed Increase in production capacity and addition of new products of leather chemicals	6561	<p>The Authority noted that this proposal was placed for appraisal in this 366th Meeting of SEAC held on 30.03.2023. Based on the presentation and documents</p>


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	<p>division at S.F No. 32 of Sathangadu Village, Manali Taluk, Chennai District, Tamil Nadu by M/s. Balmer Lawrie & Co Ltd - For Environment Clearance</p>		<p>furnished by the project proponent, SEAC decided to obtain the following details to get clarification on whether the project comes under violation or not.</p> <ol style="list-style-type: none"> 1. The PP shall furnish list of raw materials used and details of products with production quantity in year wise from 1991. 2. Detail of products attracting EIA Notification, 1994 and 2006 as amended and products which are non-attracting EIA Notification, 2006 as amended. 3. The PP shall furnish proof of no Expansion after EIA notification, 2006 as amended. 4. The PP shall furnish Baseline study report for the last 2 years in the CEPI area to ensure that pollution loads are within permissible limits. 5. The proponent shall furnish the Report of Analysis of AAQ survey, stack survey, VOC monitoring conducted by TNPCB for the last 3years. <p>On receipt of the above, further deliberations will be done.</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 30.03.2023.</p>
15.	<p>Proposed Rough Stone & Gravel lease over an extent of 1.13.7Ha at S.F.No. 279/2C1B in Pachapalayam Village, Sular Taluk, Coimbatore District, Tamil Nadu by Tmt.M. Selvathal - For Terms of Reference</p>	9727	<p>The Authority noted that this proposal was placed for appraisal in this 366th meeting of SEAC held on 30.03.2023. 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</p>


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			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.
16.	Proposed Rough stone quarry lease over an extent of 4.82.70 Ha in S.F. Nos. 1238/2 (Part) vettamangalam west Village, Pugalur Taluk, Karur District Tamil Nadu by M/s Thirumalai Blue Metals - For Terms of Reference.	9797	The Authority noted that this proposal was placed for appraisal in this 366 th Meeting of SEAC held on 30.03.2023. SEAC decided to defer the subject and this subject will be taken up in ensuing meeting for further discussion. In view of the above, the Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 30.03.2023.
17.	Proposed Rough stone & gravel quarry lease over an extent of 2.01.5 Ha in S.F. Nos. 1193/1, 1193/2, 1199/1B, 1199/1C, 1199/1D, 1199/1E, 1199/1F, 1199/1H, 1199/1I, 1199/1J & 1199/1K katchaikatti Village, vadipatti Taluk, Madurai District Tamil Nadu by Thiru B KARUPPAIAH - For Terms of Reference.	9858	The Authority noted that this proposal was placed for appraisal in this 366 th Meeting of SEAC held on 30.03.2023. SEAC decided to defer the subject and this subject will be taken up in ensuing meeting for further discussion. In view of the above, the Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 30.03.2023.
18.	Proposed Development of Special Economic Zone (SEZ) in Kallakurichi District over an extent of 77.09 Ha (190.42 Acres) at Survey No: 213/2, 213/3 & 213/4 of A.Sathanur Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu by M/s. State Industries	9898	The Authority noted that the proposal was placed in the 366 th meeting of SEAC held on 30.03.2023. The SEAC decided to recommend the proposal for the grant of Terms of Reference (TOR), subject to the TORs, in addition to the standard terms of reference for EIA study and details issued by the MoEF & CC to be included in EIA/EMP Report.


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	Promotion Corporation of Tamil Nadu Limited - For Terms of Reference		<p>After detailed discussion, the Authority accepted the recommendation of SEAC and decided to grant of Terms of Reference as recommended by SEAC for undertaking the Environment Impact Assessment Study and preparation of Environment Management Plan subject to the conditions as recommended by SEAC in addition to the conditions as stated vide Annexure 'D'.</p> <p>1. The Environmental Impact Assessment should study the onsite & offsite investigations focus on the effects on biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.</p>
19.	Proposed Rough stone and Gravel quarry lease over an extent of 4.82.70 Ha in S.F. Nos. S.F. NO'S : 764/3, 765/3, 766/1, 766/2, 766/3A, 767/1 & 767/2A Anjur Village, Pugalur Taluk, Karur District Tamil Nadu by Thiru S. Kuppusamy - For Terms of Reference.	9905	<p>The Authority noted that this proposal was placed for appraisal in this 366th Meeting of SEAC held on 30.03.2023. SEAC decided to defer the subject and this subject will be taken up in ensuing meeting for further discussion.</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 30.03.2023.</p>
20.	Existing Construction project at S.F. No. 36, 42, 44/2 etc., Potheri Village, Chengalpat taluk, Kancheepuram district Tamil Nadu by M/s. Valliammai Society (Trust)- For Terms of Reference Under Violation.	441	<p>The authority noted that the subject was appraised in 366th meeting of SEAC held on 30.03.2023. The project proponent was absent for the meeting. SEAC decided to defer the subject and directing the project proponent to furnish the reason for not attending the meeting.</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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21.	Existing constructed Residential Development entitled "TVH SVAYA" located at Survey No. 4/1(pt), 5/2(pt), 15/1, 2A, 2B, 3, 4A, 4B, 16/1, 2, 3A 3B, 17, 23/2, 3, 4, 5, 6, 24/1, 2, 3, 4, 5, 6, 7A, 7B, 7C, 26/2B 2B, 4/3A(pt) of Sriperumbudur Village and Taluk, Kanchipuram district, Tamil Nadu by M/s. True Value Homes India Private Limited - For Terms of Reference Under Violation	1935	<p>The authority noted that the subject was appraised in 366th meeting of SEAC held on 30.03.2023. The project proponent was absent for the meeting. SEAC decided to defer the subject and directing the project proponent to furnish the reason for not attending the meeting.</p> <p>The Authority decided to request the Member Secretary, SEIAA TN to communicate the aforesaid SEAC minutes to the Proponent.</p>
22.	Proposed Rough stone and Gravel quarry lease over an extent of 9.55.14 Ha in S.F. Nos. 1092/1, 1094, 1095/1, 1136/1 Thennilai West Village Pugalur, Taluk, Karur District Tamil Nadu by Tmt G. Parameswari- For Terms of Reference.	9714	<p>The Authority noted that this proposal was placed for appraisal in this 366th Meeting of SEAC held on 30.03.2023. SEAC decided to defer the subject and this subject will be taken up in ensuing meeting for further discussion.</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 30.03.2023.</p>
23.	Existing Grey Granite (Paradiso) Quarry over an Extent of 2.78.5 Ha in S.F.No. 382/5A, 382/5B, 382/6A, 382/6B, 382/6C, 382/7A, 382/7B, 382/8, 382/9A, 382/9B, 382/9C, 382/10 and 382/11, Chendarapalli Village, Krishnagiri Taluk and District, Tamil Nadu by Thiru. B.K. Murali- For Terms of Reference under Violation	9791	<p>The authority noted that the subject was appraised in 366th meeting of SEAC held on 30.03.2023. The SEAC decided to call for the following additional details/documents:</p> <ol style="list-style-type: none"> 1. The structures within the radius of (i) 100 m, (ii) 300 m, and (iii) 500 m 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.


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			<p>2. Copy of mine plan/scheme of mining for the proposed period of quarrying approved by the concerned AD (Mines)/ competent authority.</p> <p>3. Latest letter from AD/Mines stating the details of quarries (existing/ expired/ abandoned/ proposed) located within 500m radial distance from the periphery of the mine lease area.</p> <p>On receipt of the details sought above, 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>
24.	Proposed Rough Stone and Gravel quarry over an extent of 6.73.0 Ha in S.F.No. 136/3, 142/1, 2A, 2B, 3, 4, 5A, 143/1, 2, 3, 144/1A, 1B, 1C, 3A, 3B, 3C, 4, 5A, 5B, 5C, 6, 7, 145/1, 2, 3, 146/9, 10A, 11, 147/2, 3, 4, 5, 6, 7, 8B, 9B, 10, 11A, 12A, 13, 148/2A (P) & 2B2 of Udaiyalipatti Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by Thiru.R. Kumar for Terms of Reference.	9764	<p>The proposal is placed in this 366th SEAC Meeting held on 30.03.2023.</p> <p>Based on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) with Public Hearing.</p> <p>The Authority after detailed deliberation decided to call for additional details as follows</p> <ol style="list-style-type: none"> 1. The PP shall submit NOC from Director, Agriculture department that the proposed mining lease area is not fit for agriculture purpose and NOC for Local panchayat. 2. Report on loss of landcover and change in land use pattern due to the proposed activity. 3. Impact of mining on agriculture and allied activities in and around the proposed mine lease area. 4. Letter from the Director, Department of Agriculture stating that the proposed mine


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			<p>lease area about the productivity status and productive potential of the land.</p> <ol style="list-style-type: none"> 5. Remarks from local panchayat on the proposed mining activity. 6. The PP shall submit a detailed report regarding the impact of mining on the water body. 7. The impact of mining on the surface water and subterranean water. 8. Further, due to the proposed mining activity, the surface water which contributes to the tank will get affected. Hence, the proponent is requested to provide mitigation measures regarding the same. 9. The proponent shall submit the details regarding soil erosion that will occur due to the mining activity and subsequently the effect of siltation in the tank. 10. The proponent shall submit a 'Standard Operating Procedure' (SoP) laid for water ingress and water egress situation in the proposed quarrying operation considering the existence of the above-mentioned water body. 11. The project name in Parivesh Portal is mentioned as Thiru R. Kumar and company name is Veerapan D. Hence, the above shall be clarified. <p>upon receipt of the above said details, further deliberation shall be done.</p>
25.	Proposed Rough Stone and Gravel quarry over an extent of 1.39.81 Ha in S.F.No. 15/1 (P), 2 (P), 3 (P), 4 (P), 5 (P), 6 (P), 7, 8, 9, 10, 11, 12,	9806	The proposal is placed in this 366 th SEAC Meeting held on 30.03.2023.


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	<p>13A, 13B, 14, 15A, 15B, 16, 16/1, 2, 3 (P), 4 (P), 5 (P), 6 (P) & 7 of Sirumailour Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu by Tvl. Murugappa Blue Metal for Terms of Reference.</p>		<p>Based on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) with Public Hearing.</p> <p>The Authority after detailed deliberation decided to call for additional details as follows</p> <ol style="list-style-type: none"> 1. The PP shall submit NOC from Director, Agriculture department that the proposed mining lease area is not fit for agriculture purpose and NOC for Local panchayat. 2. Report on loss of landcover and change in land use pattern due to the proposed activity. 3. Impact of mining on agriculture and allied activities in and around the proposed mine lease area. 4. Letter from the Director, Department of Agriculture stating that the proposed mine lease area about the productivity status and productive potential of the land. 5. Remarks from local panchayat on the proposed mining activity. 6. The proponent shall study the impact of mining activity on the odai passing in the northern side of the proposed mine lease area and shall submit the mitigation measures. <p>upon receipt of the above said details, further deliberation shall be done.</p>
<p>26.</p>	<p>Proposed Multi Colour Granite an extent of 2.31.5 Ha in S.F.No. 1/1(Part) and 1/2B(Part) of Thangayur Village, Edappadi Taluk, Salem District, Tamil Nadu</p>	<p>9848</p>	<p>The proposal was placed in the 366th SEAC Meeting held on 30.03.2023.</p> <p>Based on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) with Public Hearing.</p>


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	by Thiru. B. Venkatesh for Terms of Reference		<p>After detailed deliberations, the Authority accepted the recommendations of SEAC and decided to grant Terms of Reference subject to the conditions as recommended by SEAC in addition to the following conditions and conditions stated therein vide Annexure 'B':</p> <ol style="list-style-type: none"> 1. The proponent shall submit the details regarding newer technology which is going to be implemented in order to achieve 60% recovery. Since, the data regarding the previous quantity mined out from the proposed quarry indicates an inconsistency in the quantity achieved in each year. Hence, the target of achieving 60% recovery shall be justified with scientific proof in the EIA Report. 2. Further, there are neighbouring granite quarries which are existing within 500m radius as per the cluster certificate issued by DD/Mines vide RoC No.1029/2019/Mines-A Dated: 20.01.2023, hence the proponent is requested to submit the recovery achieved in the neighbouring quarries and submit a detailed comparative study in order to assess the possibility of achieving 60% recovery as proposed along with EIA Report.
27.	Proposed Rough Stone and Gravel quarry over an extent of 1.99.00 Ha in S.F.No. 49/2, 49/3 & 49/4A of Kovundampalayam Village, Gobichettipalayam Taluk, Erode District, Tamil Nadu by Thiru. T.	9860	<p>The proposal was placed in the 366th SEAC Meeting held on 30.03.2023.</p> <p>The proposal was placed for appraisal in the 366th SEAC meeting held on 30.03.2023. SEAC decided to defer the subject and this subject will be taken up in ensuing meeting for further discussion.</p>


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	M. Manoharan for Terms of Reference.		In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary to communicate the minutes of 366 th SEAC held on 30.03.2023 to the project proponent.
28.	Proposed Rough Stone & Gravel quarry Lease over an extent of 2.10.5 Ha at S.F.No. 16/6, 16/7, 16/9 & 16/10 in Thollamur Village, Vanur Taluk, Villupuram District, Tamil Nadu by Mr.G.Arjunan – For Terms of Reference	9772	The authority noted that the subject was appraised in the 366 th SEAC meeting held on 30.03.2023. SEAC decided to defer the subject and this subject will be taken up in ensuing meeting for further discussion. In view of this, the authority after discussions decided to request Member Secretary, SEIAA to communicate the minutes of the 366 th SEAC meeting to the project proponent.
29.	Proposed Rough Stone & Gravel quarry Lease over an extent of 2.48.0 Ha at S.F.No. 226/1, 226/2, 226/4, 226/5, 227/2 & 227/3 in Thiruchunai Village, Melur Taluk, Madurai District, Tamil Nadu by Mr.M.Kumaran – For Terms of Reference	9779	The authority noted that the subject was appraised in the 366 th SEAC meeting held on 30.03.2023. SEAC decided to defer the subject and this subject will be taken up in ensuing meeting for further discussion. In view of this, the authority after discussions decided to request Member Secretary, SEIAA to communicate the minutes of the 366 th SEAC meeting to the project proponent.
30.	Proposed Construction of Non HighRise Building (Affordable Housing) comprising of 3 Blocks consists of 172 dwelling units, Playroom, SPA, Library & Gym at S.F.Nos: 410/1 Part, Perumbakkam Panchayat, St. Thomas Mount Panchayat Union, Tambaram Taluk, Chengalpattu District, Tamil Nadu by M/s. Kamlesh Builders - For Environmental Clearance.	9804	The Authority noted that this proposal was placed for appraisal in this 358 th meeting of SEAC held on 24.02.2023 and SEAC has furnished its recommendation to the Authority for granting Environmental Clearance to the project subject to the conditions stated therein. Subsequently, this proposal was placed in the 604 th Authority meeting held on 27.03.2023. The authority after detailed discussion decided to call for the following details from the project proponent.


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1. The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the local body /TWAD.

Now, the PP had submitted a reply for the additional particulars as sought by the Authority vide letter dated: 10.04.2023. Hence, the proposal was placed in this 613rd Authority meeting held on 04.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Environmental Clearance for a period of 7 Years subject to the conditions as recommended by SEAC & normal condition in addition to the following conditions

1. 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.130 lakhs and the amount shall be spent for the activities as committed, before obtaining CTO from TNPCB.
2. The proponent shall deploy cost-effective technology to reduce GHG emissions.
3. The proponent shall adopt strategies to develop carbon-neutral or zero-carbon building.
4. The proponent shall adopt strategies to reduce emissions during operation (operational phase and building materials).
5. The proponent shall adopt strategies to decarbonize the building.
6. The proponent shall adopt strategies to maintain the health of the inhabitants.
7. The proponent shall adopt strategies to reduce electricity demand and consumption.


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		<p>8. The proponent shall provide provisions for automated energy efficiency.</p> <p>9. The proponent shall provide provisions for controlled ventilation and lighting systems.</p> <p>10. The proponent shall adopt strategies to reduce temperature including the Building Façade.</p> <p>11. 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.</p> <p>12. The proponent shall provide solar panels and contribute to the grid from the solar panel as proposed.</p> <p>13. The proponent shall adopt methodology to control thermal environment and other shocks in the building.</p> <p>14. The proponent shall adopt strategies to reduce anthropogenic GHGs such as CO₂, CH₄, nitrous oxide, etc., resulting from human activities.</p> <p>15. The database record of environmental conditions of all the events from pre-construction, construction and post-construction should be maintained in digitized format.</p>
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			<p>16. There should not be any impact due to the modification of the habitat on critically endangered species, biodiversity, etc.,</p> <p>17. The proponent should develop an emergency response plan in addition to the disaster management plan.</p> <p>18. The proponent should maintain environmental audits to measure and mitigate environmental concerns.</p> <p>19. The proponent shall develop building-friendly pest control strategies by using non chemical measures so as to control the pest population thereby not losing beneficial organisms.</p> <p>20. The proponent shall ensure that the proposed activities in no way result in the spread of invasive species.</p> <p>21. As per the 'Polluter Pay Principle', the proponent will be held responsible for any environmental damage caused due to the proposed activity including withdrawal of EC and stoppage of work.</p>
31.	Proposed Lime Kankar Quarry over an extent of 3.61.0 at Survey Nos. 56/1A1, 56/1A3, 56/1B2, 56/1B3, 56/4, 56/5, 57/2B1, 57/2B2, 57/2B3, 57/2B4, 57/2B5, 57/2B6, 57/2B7 and 57/2B8 of Pudupalayam village, Ariyalur Taluk, Ariyalur District, Tamil Nadu – M/s. Chettinad Cement Corporation Private Limited– for Environmental Clearance.	6883	<p>The Authority noted that this proposal was placed for appraisal in this 357th meeting of SEAC held on 23.02.2023 and SEAC has furnished its recommendation to the Authority for granting Environmental Clearance to the project subject to the conditions stated therein. Subsequently, this proposal was placed in the 603rd Authority meeting held on 20.03.2023. The authority after detailed discussion decided to call for the following details from the project proponent.</p> <p>•1. The Environmental Status report submitted by</p>


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		<p>the PP states that there is no much vegetation in the lease area. But the kml uploaded by the PP shows that existence of dense flora and fauna.</p> <ol style="list-style-type: none"> 2. Hence, the flora and fauna to be listed by the PP and furnish the same. The action taken report also needed. 3. The PP shall enumerate No. of trees and shall furnish the protection and conservation plan. 4. The PP shall furnish detailed impact study on soil erosion, agricultural activities, Temperature and drainage pattern. <p>Now, the PP had submitted a reply for the details as sought by the Authority vide letter dated: 10.04.2023. Hence, the proposal was placed in this 613rd Authority meeting held on .04.2023.</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 restricted quantity of 54998.28 Ts of Lime Kankar by restricting the depth of mining upto 2.4m 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
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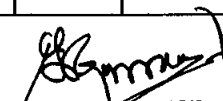

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		<p>Clearance is valid as per the approved mine plan period.</p> <ol style="list-style-type: none"> 2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should 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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32.	Proposed Expansion of Steel Rolling plant & inclusion of Steel Rolling mill at S.F.No: 262/1, 2,263/1B2, 2B2 & 264/2A3 72B, Anupatti Village, Palladam Taluk, Tiruppur District, Tamil Nadu- M/s. Kannappan Alloy and Steel Company Pvt Ltd - for Enviromental Clearance	6678	<p>After detailed discussion, the Authority accepts the recommendation of SEAC and decided to grant Environmental Clearance subject to the conditions as recommended by SEAC in addition to the following conditions.</p> <ol style="list-style-type: none"> 1. The PP shall ensure that the good Occupational health safety of Steel plant employees and community around during the operation. 2. The PP shall ensure that the better monitoring mechanism shall be established & maintain the existing mechanism for effective control of fugitive emission 3. The PP shall carry out Electrical audit and energy conservation mechanism in periodically and submit the report to SEIAA. 4. The PP shall ensure that the best eco-friendly practices available in steel melting plant shall be implemented . 5. The PP shall prepare the action plan for the issues raised during the Public Hearing before CTO. 6. The PP shall ensure that there is no Impact on soil, land and water by this expansion activities
33.	Proposed Data Centre at SF.No 111/4 (Part), Plot No.5/G5, SIPCOT IT PARK- Siruseri-Egattur Village, Thiruporur taluk, Chengalpattu District, Tamil Naduby M/s. Reliance Jio	9655	<p>After detailed discussion, the Authority accepts the recommendation of SEAC and decided to grant Environmental Clearance subject to the conditions as recommended by SEAC in addition to the following conditions.</p> <ol style="list-style-type: none"> 1. The PP shall ensure that emission, noise and vibration due to the operations of DG sets shall


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	<p>Infocomm Limited- Environmental Clearance.</p> <p>For</p>	<p>be within the standards as prescribed by MOEF&CC..</p> <ol style="list-style-type: none"> 2. The proponent shall maintain details regarding the fire suppression strategies that will be deployed during Fire break out in the prominent area of the unit. 3. The proponent shall provide information regarding the technology that will be employed to maintain the temperature & humidity within the Data Centre. 4. The PP shall take utmost care for the surrounding environment and the inhabitants within the facility & same shall be reported to SEIAA periodically. 5. The proponent shall implement the mitigation measures regarding the Toxic Waste generation and its handling. 6. The proponent shall ensure that the generated E waste shall be disposed as per E waste Management Rules 2016. 7. The proponent shall implement the commitment regarding the smart and innovative tools/technology that will be employed to tackle environmental conservation. 8. The proponent shall carry out the Electricity, Carbon Emission & Temperature surveillance and monitoring through the reputed agencies/institution and the report shall be furnished to the SEIAA periodically. 9. The proponent shall provide adequate parking area .
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			10. The proponent shall ensure that there is no impact of change in temperature and humidity on the green belt proposed within the site and in the nearby vicinity.
34.	Proposed Integrated Township at S.F.No. 230, 231, 232, 233, 234, 242 pt, 243, 244, 245 pt, 249 pt, 250, 251 pt, 252, 253 in Siruseri Village Vandalur Taluk Chengalpattu District by M/s. Singapore Realty Pvt. Ltd- For Terms of Reference.	9602	<p>The Authority noted that the proposal was placed in the 346th meeting of SEAC held on 12.01.2023. The SEAC decided to recommend the proposal for the grant of Terms of Reference (TOR), subject to the TORs, in addition to the standard terms of reference for EIA study and details issued by the MOEF & CC to be included in EIA/EMP Report.</p> <p>After detailed discussion, the Authority decided to defer the subject seeking the following particulars:</p> <ol style="list-style-type: none"> 1. O/o of the Member Secretary shall put up a detailed note on the previous Terms of Reference granted for this project. 2. Project proponent shall furnish history of the Court cases pertaining to this project in Chronological order. <p>The proponent was furnished the details to SEIAA-TN on 07.04.2023. The proposal was placed in this 613th meeting of Authority held on 21.04.2023. The Authority noted the following:</p> <ol style="list-style-type: none"> 1. ToR issued vide Lr.No. SEIAA-TN/F-1099/M-LXIV/TOR-213/2013 dated 25.03.2015 with validity upto 24.03.2018. The Project proponent has submitted EIA report on 20.08.2019. Hence the SEIAA vide letter dated 04.10.2019 has directed the Project Proponent to apply afresh seeking ToR in accordance with MoEF&CC nO.M. No. J-11013/41/2006-1a-11(1) (Part) dated 29.08.2017 .


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			<p>2. As on date a Commercial Original Suit pertaining to the proposed project is pending at Principal District Court, Chengalpet.</p> <p>After detailed discussions, the Authority decided to refer back the subject to SEAC for furnishing remarks on the above.</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 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


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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 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.


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14. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the compliance reports to SEIAA.
15. Regular monitoring of ground water level and water quality shall be carried out around the mine area during mining operation. At any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.
16. Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.

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 mycorrhizal fungi, soil organism, soil community nor result in eutrophication of soil and water.
22. The activities should not disturb the soil properties and seed and plant growth. Soil amendments as required to be carried out, to improve soil health.
23. Bio remediation using microorganisms should be carried out to restore the soil environment to enable carbon sequestration.
24. The proponent shall ensure that the mine restoration is done using mycorrhizal VAM, vermin-composting, Biofertilizers to ensure soil health and biodiversity conservation.


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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.

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.


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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.
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.


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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

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


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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 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.


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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.
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


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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.
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.


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6. The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the environmental policy devised shall be given in detail.
7. The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner.
8. The committee shall furnish the Emergency Management plan within the cluster.
9. The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public.
10. The committee shall furnish an action plan to achieve sustainable development goals with reference to water, sanitation & safety.
11. The committee shall furnish the fire safety and evacuation plan in the case of fire accidents.

Impact study of mining

12. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area covering the entire mine lease period as per precise area communication order issued from reputed research institutions on the following
 - a) Soil health & soil biological, physical land chemical features .
 - b) Climate change leading to Droughts, Floods etc.
 - c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
 - d) Possibilities of water contamination and impact on aquatic ecosystem health.
 - e) Agriculture, Forestry & Traditional practices.
 - f) Hydrothermal/Geothermal effect due to destruction in the Environment.
 - g) Bio-geochemical processes and its foot prints including environmental stress.
 - h) Sediment geochemistry in the surface streams.

Agriculture & Agro-Biodiversity

13. Impact on surrounding agricultural fields around the proposed mining Area.
14. Impact on soil flora & vegetation around the project site.
15. Details of type of vegetations including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetations all along the boundary of the proposed mining area shall committed mentioned in EMP.
16. The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.


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17. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.
18. The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.

Forests

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

Water Environment

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


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30. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.

Energy

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

Climate Change

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

Mine Closure Plan

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

EMP

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

Risk Assessment

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

Disaster Management Plan

38. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & 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.


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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 - 'D'

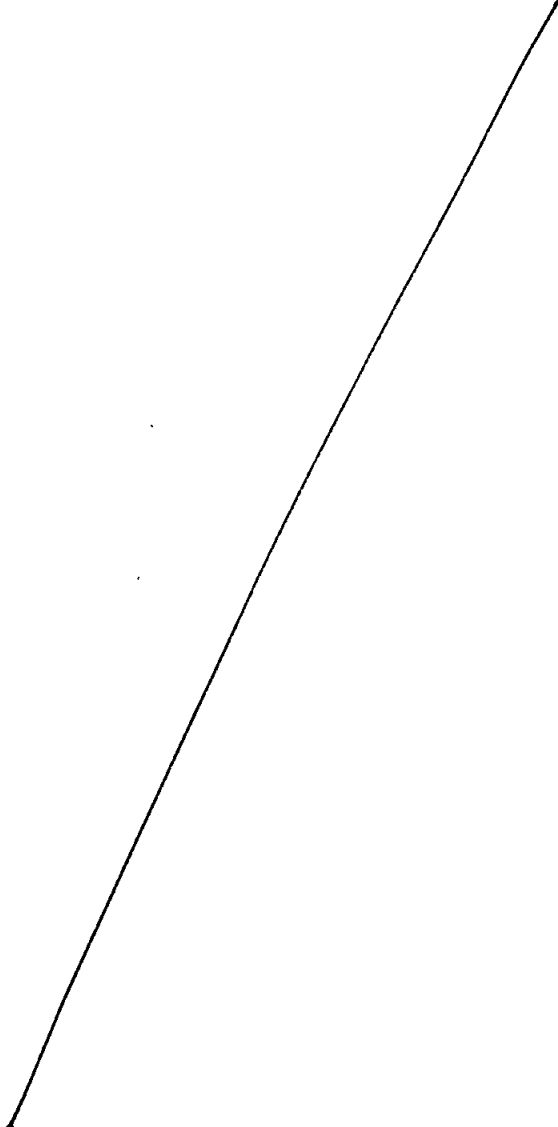
1. Impacts on Energy requirement.
2. Impacts on living System (air ,water ,soil & micro organism).
3. Impacts on terrestrial & aquatic within and surrounding areas.
4. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed EMP mentioning all the CER activities as committed with the action plan.
5. All the construction of Buildings shall be energy efficient and confirm to the green building norms.
6. The proponent shall provide adequate parking facility for vehicles of all the workers & visitors.
7. The proponent shall ensure that no treated or untreated trade effluent/sewage discharged outside the premises under any circumstances.
8. The disaster management and disaster mitigation standards to be seriously adhered to avoid of calamities.
9. The proponent shall provide the action taken for reduction of green house gas emissions to support the climatic action to make it sustainable buildings.
10. The project proponent shall furnish the action taken to provide adequate parking space for visitors of all inmates including clean traffic plan.
11. The project proponent shall furnish the action taken to improve water usage efficiency in the building.
12. The project proponent shall conduct detailed study of biodiversity flora & fauna including invasives /endemic vulnerable species.
13. The project proponent shall furnish NOC obtained from competent authority that there is no encroachment of water bodies (including canals).
14. The project proponent shall furnish impact of Green House Gases emissions and climate change likely due to activities.


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15. The project proponent shall conduct detailed soil investigation including microflora /fauna.
16. The project proponent shall study impact on livelihoods of locals.
17. The project proponent shall furnish List of trees available in the area.
18. The project proponent shall study impact of activities on water bodies/wetlands.
19. The project proponent shall conduct studies on invasive and alien species




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