

MINUTES

626th MEETING

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

Date: 05.06.2023

**MINUTES OF THE 626th MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY HELD ON 05.06.2023.**

Agenda No	Description	File No.	Minutes
a)	Confirmation of the minutes of the 625 th meeting of the Authority held on 01.06.2023.		The minutes of the 625 th meeting of the Authority held on 01.06.2023 was confirmed.
b)	The Action taken on the decisions of the 625 th meeting of the Authority held on 01.06.2023.		The Member Secretary informed that 625 th Minutes uploaded in Parivesh website and action taken report will be putup ensuing meeting.
1.	Proposed construction of Residential Building Complex at Old TS. No. 3, New S.F.No 6/1, 6/2 & 6/3, Block No 31 of Venkatapuram Village, Guindy Taluk, Chennai District, Tamilnadu by M/s. DLF IT Offices Chennai Private Limited - For Terms of Reference	9480	<p>The authority noted that the subject was appraised in 379th SEAC meeting held on 12.05.2023 and SEAC has furnished its recommendations for granting Terms of Reference (ToR) subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) for undertaking the Environment Impact Assessment Study and preparation of Environment Management Plan subject to the standard terms of reference in addition to the conditions as recommended by SEAC & normal conditions in addition to the conditions in 'Annexure D' of this minute.</p> <p>1. The PP shall obtain NOC from PCCF/Chief Wild Life Warden in regard to Hon'ble Supreme Court Order in the case of W.P (Civil) No. 202 of 1995 Dt: 03.06.2022 & 26.04.2023.</p>
2.	Proposed construction of Residential Building Complex at Block No. 7, T.S No. 2/1, 2/2, 2/3	10014	The Authority noted that the proposal was placed in the 379 th meeting of SEAC held on 12.05.2023. The SEAC decided to recommend the proposal for the


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

<p>Adayar Village, Guindy Taluk, Chennai District Tamilnadu by M/s. Baashyamm Infrastructure Pvt Ltd – For Terms of Reference (ToR).</p>	<p>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 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 PP shall obtain NOC from PCCF/Chief Wild life warden regarding Hon'ble Supreme Court Order in the case of W.P (Civil) No. 202 of 1995 Dt: 03.06.2022 & 26.04.2023.</p>
<p>3. Proposed Expansion of Commercial Tower in the Existing Mall at T.S.Nos. 5/2, 5/3, 6/2 & 6/3 of Velachery Village, Guindy-Mambalam Taluk, Chennai District, Tamil Nadu by M/s. Classic Mall Development Company Limited, M/s. Classic Housing Projects Pvt. Ltd & M/s. Starboards Hotel Private Ltd - For Terms of Reference</p>	<p>9583</p> <p>The authority noted that the subject was appraised in the 379th SEAC meeting held on 12.05.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) for undertaking the 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 following conditions and the conditions mentioned in 'Annexure D' of this minutes.</p> <p>i) The proponent shall furnish a NOC obtained from Principal Chief Conservator of Forests for the proposed expansion activity since Guindy National Park is located within 500m from the project site boundary.</p>


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

ii) The proponent shall take appropriate measures to comply with all the non-compliance conditions mentioned in the Certified Compliance Reports obtained from IRO of MoEF&CC for the ECs issued earlier dated. 20.09.2010, 09.10.2017 & 23.08.2021 and shall furnish a detailed report on the same.

4. File No: 9421

Proposed Construction of High-Rise Building for Residential purpose at Block No. 16, T.S. No. 9/1 of Velachery Village, Velachery Taluk, Chennai District, Tamilnadu by the M/s. IVAR Estates Private Limited-For Environmental Clearance.

The authority noted that this proposal was placed for appraisal in 379th meeting of SEAC held on 12.05.2023 and SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.

In view of the above, the authority decided that.

1. The PP has not furnished all the details in population table, hence the PP shall furnish all the details in the table.

Population details:

POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION
Total Saleable Du's	74		482
Total			
Non Residential			
CLUB house (Employees etc.)			
Club			
Commercial			
Facility Management Staff			5
Total			
Visitors			48
Residential			


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

Club/Community Hall		
Commercial		
Total Visitors		
Total Population		535

2. The PP shall furnish approval letter from CMWSSB for supply of drinking water and absorb excess treated sewage.
3. The PP shall furnish No objection certificate from PCCF for initiating construction activities within ES zone.
4. The PP shall furnish details of children's play area.
5. The PP shall furnish the details of adequate parking facility for all the units including visitors and maintenance staff.
6. The PP shall furnish evacuation plan.
7. The PP shall furnish disaster management plan.
8. The PP shall furnish evacuation plan.
9. The PP shall furnish fire NOC.
10. The PP shall furnish Airport NOC.

5.	Dalmia Bharat Sugar and Industries Ltd at Chettichavadi Jaghir Magnesite and Dunite Mines, to an extent of 449.364 Ha in Chettichavadi village, Salem Taluk and District, Tamilnadu. Salem District Survey Report for Dunite to be approved by SEIAA, Tamilnadu as per Minutes of Meeting of EAC, MOEF, New Delhi dated 17.01.2023- Reg	C.No: 6013/2023	The authority noted that the subject was appraised in 379 th SEAC meeting held on 12.05.2023. SEAC has furnished its recommendations to SEIAA. The Authority in detailed discussion and decided to accept the SEAC recommendation & also requested to Member Secretary SEIAA to communicate the minutes to the PP.
6.	Proposed Desilting of Parapalar Reservoir over an extent of 25.31.7 Ha located at S.F. No. 225,226 & 227, Reserve Forest, Vadakadu	8788	The Authority noted that the subject was appraised in the 379 th meeting of SEAC held on 12.05.2023 and SEAC has furnished its recommendations for the grant of extension of validity of the Environmental


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

<p>Village, Oddanchatram Taluk, Dindigul District by The Executive Engineer, PWD/WRD, Nanganjiyar Basin Division, Palani - For Environmental Clearance</p>	<p>Clearance for the project subject to the conditions stated therein.</p>
	<p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the excavation quantity of 5,53,936m³ of Silt and 30,191m³ of Sand to the depth of 3.56m BGL in 5 years as per the approved mining plan. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p>
	<ol style="list-style-type: none"> 1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period. 2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of 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


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

environmental norms should be strictly followed as per the EMP.

5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.
6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.
7. The 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.

Reserve Forests & Protected Areas

As the proposed mine lease area is located in the forest, the Project Proponent shall necessarily comply with the following additional conditions:

8. The activities should provide nature-based support and solutions for forest protection and wildlife conservation.
9. The project activities should not result in forest fires, encroachments or create forest


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

			<p>fragmentation and disruption of forest corridors.</p> <p>10. There should be no disturbance to the freshwater flow from the forest impacting the water table and wetlands.</p> <p>11. The project proponent should support all activities of the forest department in creating awareness to local communities on forest conservation.</p> <p>12. The project activities should not alter the geodiversity and geological heritage of the area.</p> <p>13. The activities should not result in temperature rise due to increased fossil fuels usage disrupting the behaviour of wildlife and flora.</p> <p>14. The activities should support and recognise the rights and roles of indigenous people and local communities and also support sustainable development.</p> <p>15. The project activities should support the use of renewables for carbon capture and carbon storage in the project site and forest surrounds.</p> <p>16. The project activities should not result in changes in forest structure, habitats and genetic diversity within forests.</p>
7.	Existing Grey Granite (Paradiso) Mine Lease over an extent of 1.21.0 Ha at S.F.No. 438 (part) in Jagadevipalayam Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Tmt.S. Naseera – For Environmental Clearance	4793	The authority noted that the subject was appraised in the 379 th SEAC meeting held on 12.05.2023. The committee carefully examined the queries raised by SEIAA in its 605th meeting & the reply furnished by the proponent/consultant and after detailed deliberations decided to re-iterate its


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

			<p>recommendations already made in 359th SEAC meeting held on 02.03.2023.</p> <p>The Authority, after detailed discussions, decided to consider the proposal after obtaining the following particulars from the project proponent:</p> <p>i) The proponent shall furnish the details of the pending WP filed before the Hon'ble High Court of Madras WMP.No.24608/2022 in W.P.No.25607/2022.</p>
8.	Proposed Rough Stone, Jelly & Gravel quarry Lease over an extent of 1.46.5 Ha at S.F.No. 1040/5, 1041/1, 1041/2, 1041/3 & 1041/4 in Sevalkulam Village, Tiruvengadam Taluk, Tirunelveli District, Tamil Nadu by Thiru. C. Jagadeesan – For Environmental Clearance	7159	<p>The authority noted that the subject was appraised in the 379th SEAC meeting held on 12.05.2023. Based on the presentation & reply furnished by the project proponent, the Committee noted that though the proponent has filed an application for obtaining Environmental Clearance before 31.03.2016, it is evident from the letter of G&M Dept. dated. 31.10.2016 that he has continued quarrying operations till 07.11.2016 thereby violating the provisions of EIA Notifications, 2006. Hence, the Committee decided to reverse its earlier decision and decided to grant Terms of Reference under Violation category through lateral entry to the proposal.</p> <p>After detailed discussions, the Authority 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</p>


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

		<p>following conditions and conditions stated therein vide Annexure 'B'.</p> <ol style="list-style-type: none"> 1. The PP shall furnish Copy of valid mining lease approval obtained from the competent Authority. 2. The PP shall furnish Copy of mining plan approved by the competent authority of the Dept of Geology and Mining. 3. The PP shall furnish EMP for the project life including progressive mine closure plan and final mine closure plan with detailed budget plan. 4. The PP shall study in detail about the CO₂ release and temperature rise and the project activities that add to micro climate alternations and the same shall be included in the final EIA report. 5. The PP shall study in detail about impact of the proposed mining activity on the water bodies and natural flow of surface and ground water and the same shall be included in the final EIA report. 6. The PP shall study in detail about Soil health, Climate change leading to Droughts, Floods etc. 7. The PP shall study in detail about release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people. 8. The PP shall study in detail about Possibilities of water contamination and impact on aquatic ecosystem health. 9. The PP shall study in detail about impact on flora, fauna, biodiversity and water table and
--	--	--


MEMBER SECRETARY



MEMBER


CHAIRMAN
SEIAA-TN

			<p>the same shall be included in the final EIA report.</p> <p>10. The PP shall study the impact on Invasive Alien Species (IAP).</p>
9.	<p>Amendment on Environmental Clearance issued to the proposed "Proposed construction of IT Park-Phase II at S.No. 240 (p) of Siruseri Village, and S.no.117 (p) of Kazhipattur Village, Tirupporur (Previously Chengapattu) Taluk, Chengalpattu (Previously Kancheepuram) District, Tamil Nadu by M/s Syntel International Pvt. Ltd – For amendment on Environmental Clearance</p>	494	<p>The authority noted that the subject was appraised in 379th SEAC meeting held on 12.05.2023. SEAC has furnished its recommendations to SEIAA for granting amendment in Environmental Clearance issued subject to the conditions stated therein. After detailed discussion, SEIAA decided to obtain the following additional details from the PP.</p> <ol style="list-style-type: none"> 1. Earlier, the EIA report has mentioned as 4x400 KLD of UG sump for collecting and storage of roof top rain water. Now the PP has made the representation to install 280 KL + 90 KL with supporting documents. Therefore the PP has requested furnish the justification obtained from reputed Govt. educational institutions. 2. Similarly, the PP also obtain the proper justification for reducing the rain water recharging pits from 85 to 68 nos from WRO/ reputed Govt. educational institution
10.	<p>Existing Granite Quarry lease over an extent of 1.80.0 Ha at S.F.Nos. 328(P) of Soolamalai Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. Thirumalai Alagar Exports – for extension of Environmental Clearance.</p>	2782	<p>The Authority noted that the subject was appraised in the 379th meeting of SEAC held on 12.05.2023. The PP informed the Committee that he intends to withdraw this extension application and apply afresh for EC. The Committee agreed for the same and decided to communicate to SEIAA.</p> <p>After detailed discussions, the Authority decided to accept the withdrawal request of the Project Proponent and for applying afresh for EC.</p>

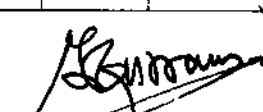

MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

11.	<p>Recommendations for releasing the Bank guarantee for the value of Rs 56 Lakhs remitted towards Ecological remediation, Natural resources Augmentation and Community resources Augmentation under EIA Notifications dated 14.3.2017 & 08.03.2018 (violation category) for existing Multi-storied Residential Buiding Project "Sigiriya" at S.F.No. 170/2C2, 1A1F2, 2C2, 2B, 1B, 2C1, 172, 173/1D, 1A1, 1A2, 1B1, 1B2, 1E, 2, 1C OF Pallikaranai Village. Sholinganallur Taluk. Kanchipuram District by M/s. Jones Foundations Pvt. Ltd.</p>	2244	<p>The Authority noted that the subject was appraised in 379th SEAC meeting held on 12.05.2023. The SEAC accepted the documents and details furnished by the project proponent and decided to recommend for release of bank guarantee to SEIAA. After detailed discussions, the Authority accepted the recommendation of SEAC and decided to release of bank guarantee.</p>
12.	<p>Extension on Environmental Clearance issued to the existing rough stone quarry lease in SF No. 1(p), Bit-7, Kondamanaickenpatti Village, Namakkal Taluk, Namakkal District Tamil Nadu by Thiru P Palanisamy – For Extension on Environmental Clearance</p>	3864	<p>The authority noted that the subject was appraised in 379th SEAC meeting held on 12.05.2023 & SEAC has furnished its recommendations to SEIAA . After detailed discussion, SEIAA decided to obtain the following additional details from the PP.</p> <ol style="list-style-type: none"> 1. The PP shall furnish the proper justification for withdrawal of this EC extension proposal. 2. The PP shall furnish the last permit obtained from the AD, Mines & Geology. 3. Furnish the letter from AD mines regarding violation if any committed by the PP.
13.	<p>Existing Multicolor granite quarry Lease over an extent of 2.52.42 Ha in S.F.No. 17/9A, 10A(P), 11A,</p>	4275	<p>The authority noted that the subject was appraised in the 379th SEAC meeting held on 12.05.2023. The Committee, after detailed deliberations, decided to</p>


MEMBER SECRETARY



MEMBER


CHAIRMAN
SEIAA-TN

	18/9, 10, 12, 19/12A, 12B1 & 19/12B2(P), Keelamangalam Village, Ottaipidaram Taluk, Thoothukudi District, Tamilnadu by Thiru.G.Gopalakrishnan – For Extension of validity in Environmental Clearance issued.		defer the proposal based on the request made by the PP. In view of this, the authority after deliberations, decided to request Member Secretary, SEIAA to communicate the minutes of the 379 th SEAC meeting to the project proponent.
14.	Existing Grey Granite Quarry lease over an Extent of 1.85.5 Ha located at S.F.No 266/1,268/1AC and 268/1AD, Jagadevipalayam Village, Krishnagiri Taluk, Krishnagiri District by M/s. M.P. Granites – Extension of validity of Environmental Clearance	4483	The Authority noted that the subject was appraised in the 379 th meeting of SEAC held on 12.05.2023 and SEAC has furnished its recommendations for the grant of extension of validity of the Environmental Clearance for the project subject to the conditions stated therein. After detailed discussions, the Authority decided to call for the following additional details/documents from the project proponent: 1. Letter from AD/Mines stating the quantity of mineral excavated so far and the details of last permit issued. 2. Justification for increase in recovery to 40%. 3. Copy of valid mining plan/1 st scheme of mining along with approval letter. 4. Recently issued Certified compliance report. On receipt of the details/documents sought above the Authority will further deliberate and decide on future course of action.
15.	Proposed Multi colour granite quarry over an extent of 2.43.5 Ha in SF.No. 343/1B, 343/2, 343/3, 343/4, 343/5, 343/6, 343/7,343/8, 343/9, 343/10 (P), 343/11B (P), 344/A1, 354/A2, 354/A3, 354/A4,	4507	The Authority noted that the subject was appraised in the 379 th SEAC meeting held on 12.05.2023. SEAC has furnished its recommendations for granting Environmental Clearance Extension subject to the conditions stated therein.


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

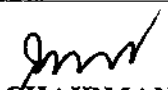
354/A5,354/B1A, 354/B13,
354/B14, 354/B15,354/B16 at K.
Pitchampatti Village, Karur Taluk,
Karur District, Tamil Nadu by M/s.
M.P. Granite - For Environmental
Clearance Extension.

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 Extension for the quantity of ROM – 31,250m³, Multi colour granite @ 40% Recovery – 12,500m³ and granite waste @60% 18,750m³ for the depth of mining up to 32.5m BGL as per the mine plan approved by the Department of Geology & Mining for the period of scheme of mining 2021-22 to 2025-26. 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.

1. Keeping in view of MoEF&CC 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 proponent shall submit Certified Compliance Report obtained from IRO, MoEF&CC not older than 1year from the date of inspection by the concerned authority before obtaining CTO from TNPCCB.
3. The Environmental Clearance issued is only for the Lime stone @ 98% Recovery.
4. The EC granted is subject to review by District Collector, Mines Dept. and TNPCCB on completion of every 5 years till the project life. They should also review the EC conditions to


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

			<p>ensure that they have all been adhered to and implemented.</p> <p>5. 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.</p> <p>6. 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>7. 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>
16.	Existing rough stone & gravel quarry Lease over an extent of 1.84.0 Ha in S.F. No. 66(P) of Thirumalaiyampalayam Village, Madukkarai Taluk, Coimbatore District Tamil Nadu by Thiru. S. Venkatasalam – For Extension of validity in Environmental Clearance issued.	4730	<p>The authority noted that the subject was appraised in the 379th SEAC meeting held on 12.05.2023. During the meeting, the proponent was absent. Further, the Committee noted that the proponent has submitted a request to withdraw this extension proposal vide mail dated.11.05.2023, stating as follows:</p> <p><i>"I had applied for Extension of Validity in Environmental Clearance issued by DEIAA, Dharmapuri Lr.No.SEIAA-TN/F.No.4730/1(a)/EC.NO.3575/2016. Dated: 19.08.2016 for the remaining consented quantity mentioned in EC and the quantity approved in Scheme of Mining for the S.F.No 's, 66(P), Over an extent of 1.84.0 Hectares in</i></p>


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

			<p><i>Thirumalayampalayam Village, Madukkarai Taluk, Dharmapuri District, Tamil Nadu State. I withdraw the application for the file No: 4730/2015 for the following reason,</i></p> <p><i>1. The circular memo No.T1/TNPCB/F.002953/Rough stones /SPR/2023 Dated:24.04.2023 issued by TNPCB stated that the CTO will issue if the consented quantity in EC not attained within 5 years by the Lessee."</i></p> <p>The SEAC had agreed to defer the file for facilitating the above withdrawal of application as requested by the PP.</p> <p>The authority after detailed discussions, decided that the withdrawal request of the proponent will be processed after the proponent furnishes a letter obtained from AD/DD, Dept. of G&M stating the following:</p> <ol style="list-style-type: none"> i) The last transport permit obtained by the proponent. ii) Details of irregularities/violations in the field, if any.
17.	Amendment of earlier issued Environmental clearance for office building to Internet Data Centre (IDC) 3 building with supportive GIS substation (G+1) at T. S. No: 2/1, Block No. 11(Old S. No. 782/2, 784/part, 785/part, 786/part) of Korattur Village, T. S. No. 1/1, Block No. 2, (old S. no. 222/1) of Menambedu village. Ambattur	4750	<p>The authority noted that the subject was appraised in 379th SEAC meeting held on 12.05.2023.</p> <p>Based on the documents & presentation made by the PP, SEAC decided to direct the PP to submit the following details.</p> <ul style="list-style-type: none"> • The proponent shall submit the certified compliance report from the IRO, MoEF & CC, Chennai for the earlier EC obtained. <p>In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary to</p>


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

	Taluk, Tiruvallur District, Tamil Nadu by M/s. TATA Communications Limited for Amendment in Environmental Clearance.		communicate the minutes of 379 th SEAC held on 12.05.2023 to the project proponent.
18.	Proposed Multi colour granite quarry over an extent of 2.42.9 Ha in SF.No. 488/1B (Part) & 503/3 (Part) at K Sithampoondi Village, Paramathivelur Taluk, Namakkal District, Tamil Nadu by Tvl. P. K. K. Exports- For Environmental Clearance Extension.	4850	The authority noted that this proposal was placed for appraisal in 379 th meeting of SEAC held on 12.05.2023 and during the presentations the PP/EIA consultant requested SEAC defer the proposal and hence SEAC deferred the proposal. 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 12.5.2023.
19.	Proposed Grey granite quarry over an extent of 2.02.5 Ha in SF.No. 416/2A & 417/2B at Veppalampatty Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu by M/s. Sri Balaji Land Promoters Pvt. Ltd - For Environmental Clearance Extension.	4941	The authority noted that this proposal was placed for appraisal in 379 th meeting of SEAC held on 12.05.2023 and during the presentations the PP/EIA consultant requested SEAC defer the proposal and hence SEAC deferred the proposal. 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 12.5.2023.
20.	Existing grey granite quarry lease over an extent of 2.85.5 Ha in S.F.No. 377/1A2, 1A1B, 1B, 2A, 2B, 378/1 & 378/2 of Chendarapalli Village, Krishnagiri Taluk, Krishnagiri District, Tamilnadu by Thiru.A.Ameed – For Extension of validity in Environmental Clearance issued.	4947	The authority noted that the subject was appraised in the 379 th SEAC meeting held on 12.05.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following details from the project proponent: i) The proponent shall furnish the work carried out to comply with the non-compliance conditions as mentioned in the Certified Compliance report dated.21.01.2022 obtained


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

			<p>from IRO, MoEF&CC, Chennai for the EC obtained earlier.</p> <p>In view of this, the authority after deliberations, decided to request Member Secretary, SEIAA to communicate the minutes of the 379th SEAC meeting to the project proponent.</p>
21.	<p>Proposed Lime Kankar quarry lease area over an extent of Extent 123.26.5 Ha at S.F.No. Parts of 7 to 15, 17 to 32, 34, 40, 101 to 103, 107 to 109, 113, 118, 124 to 130, 132, 138 to 139 & 213 to 215 of Vadakkunatham Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu by M/s. The Ramco Cements Limited - For Environmental Clearance.</p>	9881	<p>The authority noted that the subject was appraised in 379th SEAC meeting held on 12.05.2023.</p> <p>Based on the presentation and document furnished by the proponent, SEAC noted that the proponent had obtained Terms of Reference from MoEF&CC. Subsequently, the proponent had submitted an application in Parivesh Portal for Environmental Clearance after conducting public hearing along with EIA report vide SIA/TN/MIN/419988/2023, Dated: 27.02.2023 to SEIAA-TN directly. Hence, SEAC decided to direct the proponent to apply at MoEF&CC for further course of action.</p> <p>Now, this proposal again been placed in 379th SEAC meeting held on 12.5.2023. During the meeting the PP requested adequate time to transfer the ToR file from the EAC, MoEF in order to process for EC.</p> <p>Hence the committee decided to defer the proposal.</p> <p>In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary to communicate the minutes of 379th SEAC held on 12.05.2023 to the project proponent.</p>
22.	<p>Proposed Lime Kankar quarry lease area over an extent of 294.18.5 Ha at S.F.No. Parts of 208 to 229, 232 to 235, 246 to 248, 253, 259 to 283, 287, 288, 290 to 298, 546, 547, 554</p>	9882	<p>The authority noted that the subject was appraised in the 379th SEAC meeting held on 12.05.2023. During the meeting The PP requested time to transfer the ToR project from MoEF in order to process for EC. Hence the committee decided to defer the proposal.</p>


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

	to 569, 571 to 575, 577 to 579, 581, 583 to 587, 589, 592, 603, 605 to 612 of Therku Koppuchitampatti Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu by M/s. The Ramco Cements Limited - For Environmental Clearance.		In view of this, the authority after deliberations, decided to request Member Secretary, SEIAA to communicate the minutes of the 379 th SEAC meeting to the project proponent.
23.	Proposed Lime Kankar quarry over an extent of 498.87.0 Ha in SF.No. parts of 14, 15, 19 to 22, 30 to 33, 40, 41, 43, 44, 54, 55, 56, 58, 59, 62, 63, 65, 66, 79, 80, 84, 86 to 91, 93 to 101, 103 to 109, 111 to 122, 124, 130, 202, 205 to 218, 222 to 224, 227 to 229, 232 to 240, 244 to 248, 253 to 257, 263, 295 to 305, 340 at Suddhamadam Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu by M/s.The Ramco Cements Limited - For Environmental Clearance.	9883	<p>The authority noted that this proposal was placed for appraisal in 379th meeting of SEAC held on 12.05.2023 and SEAC noted,</p> <p>(i) Earlier, the PP has filed ToR application to MoEF and the proposal was deliberated in 4th EAC meeting held during 23-24.04.2019 and ToR was granted dated 15.05.19.</p> <p>(ii) Now the PP has applied for EC to SEIAA, TN based on notification SO 1886(E) dated 20.04.2022.</p> <p>(iii) The PP requested adequate time to transfer the ToR project from MoEF in order to process for EC.</p> <p>Hence the committee 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 12.5.2023.</p>

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


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

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 Institutions as a safety precautionary measure to avoid untoward accidents during mining operation.


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

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

Air Environment – Protection and mitigation measures


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

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.

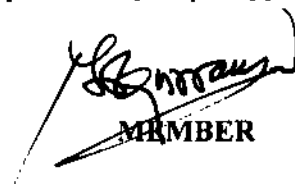
Soil Environment – Protection and mitigation measures

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.
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.


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

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.

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.


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

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

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


MEMBER SECRETARY


MEMBER


**CHAIRMAN
SEIAA-TN**

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 installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

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.


MEMBER SECRETARY


MEMBER


**CHAIRMAN
SEIAA-TN**

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.


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

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

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


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

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

Agriculture & Agro-Biodiversity

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

Forests

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


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

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


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

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 - '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


MEMBER SECRETARY


MEMBER


CHAIRMAN
SEIAA-TN

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.
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


MEMBER SECRETARY


MEMBER


**CHAIRMAN
SEIAA-TN**