

327

MINUTES

632nd MEETING

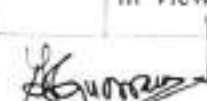
**STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY-TAMIL NADU**

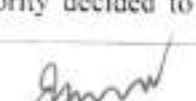
Date: 21.06.2023 & 22.06.2023

**MINUTES OF THE 632nd MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY HELD ON 21.06.2023 & 22.06.2023.**

Agenda No	Description	File No.	Minutes
a)	Confirmation of the minutes of the 631 st meeting of the Authority held on 19.06.2023.		The minutes of the 631 st meeting of the Authority held on 19.06.2023 was confirmed.
b)	The Action taken on the decisions of the 631 st meeting of the Authority held on 19.06.2023.		The Member Secretary informed that 631 st Minutes uploaded in Parivesh website and action taken report will be put up ensuing meeting.
1.	Proposed Garnet sand Quarry lease over an extent of 3.07,01Ha at S.F.Nos. 137/7, 348/1A, 1B, 1C1, 1C2, 1C3, 2B1, 3A, 4, 5, 6B, 7A, 8, 9, 11, 12 & 13 of Naduvalur Village, Thuraiyur Taluk, Tiruchirappalli District, Tamil Nadu by Tvl. Riverways Mines and Minerals Ltd -for Terms of Reference	6260	<p>The Authority noted that the subject was appraised in the 382nd SEAC meeting held on 09.06.2023. SEAC has furnished its recommendations for granting Terms of Reference with Public Hearing subject to the conditions stated therein.</p> <p>The Authority noted the following:</p> <ol style="list-style-type: none"> 1. The Project Proponent has applied for obtaining EC under violation category vide Online Application No. SIA/TN/MIN/62112/2017 dated 07.02.2017 prior to violation window period. 2. Also, the SEIAA vide Lt.No.SEIAA-TN/F.No.6260/2017/NGT dated:11.05.2017 has communicated to the Project Proponent stating that the project activity falls under Violation category among other things. 3. The AD/G&M/Tiruchirappalli vide his letter no. Rc.No. 220/2002/Mines dated 06.04.2018 has reported that the transport permit to the quarry was stopped on 17.09.2013 for want of Environmental Clearance. <p>In view of the above, the Authority decided to refer</p>


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			back the subject to SEAC for furnishing marks on whether the project comes under violation or not.
2.	Proposed Existing Limestone Mine lease area over an extent of 4.95.0Ha at S.F.Nos.394, 396, 416 & 417 Pudupalayam & Edayathankudi Village, Ariyalur Taluk, Ariyalur District Tamil Nadu by M/s. Chettinad Cement Corporation Limited -For Terms of Reference under violation.	6387	<p>The Authority noted that the subject was appraised in 382nd meeting of SEAC held on 09.06.2023 and the SEAC has recommended for the grant of Terms of Reference (ToR) without Public Hearing under Violation category subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority accepted the recommendations of SEAC and decided to grant Terms of Reference (ToR) without Public Hearing for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants which should be submitted within one year from the date of issue of ToR as recommended by SEAC, the normal conditions in addition to the following conditions and the conditions imposed in 'Annexure B' of this minute.</p> <ol style="list-style-type: none"> 1. Study report on impact of mining on agriculture, biodiversity, ground water, surface water, temperature, carbon-dioxide and greenhouse gases. 2. Life cycle analysis of the product mined so far. 3. The PP shall furnish the letter obtained from the Director, Department of Agriculture stating that the proposed mine lease area/ about the productivity status and productive potential of the land.


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			<ol style="list-style-type: none"> 4. The PP shall furnish the remarks obtained from local panchayat on the proposed mining activity. 5. The project proponent shall prepare mine closure plan considering mineable quantity of Topsoil, Weathered rock & mineral reject/waste, if any along with detailed EMP and technology of mine closure. 6. Copy of valid mining lease approval obtained from the Competent Authority. 7. Copy of approved review of scheme of mining plan by the Competent authority (Dept. of Geology and Mining / IBM). 8. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site. 9. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
3.	Existing Garnet sand Mine over an extent of 2.10.0Ha at S.F.No. 95/2A, 2B, 5A, 5B, 6A, 6B, 4B, 4C, 97/2B & 97/2E for over an extent of 2.10.0Ha in Kottathur Village, Musiri Taluk and Trichy District, Tamil Nadu by Tvl.S.S.Minerals - For Terms of Reference	6261	<p>The Authority noted that the subject was appraised in 382nd meeting of SEAC held on 09.06.2023 and the SEAC has recommended for the grant of Terms of Reference (TOR) with Public Hearing subject to the conditions stated therein.</p> <p>The Authority noted that,</p> <ol style="list-style-type: none"> I. SEIAA vide letter no. SEIAA-TN/F.No.6261/2017/NGT dated 26.04.2017 has communicated to the Project Proponent stating that the project activity falls under Violation category among other things.


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			<p>2. The Project Proponent himself has applied seeking ToR under violation category vide Online Application No. SIA/TN/MIN/24168/2018 dated 11.04.2018 during violation window period in accordance with the MoEF & CC Notification dated 14.03.2017 & 08.03.2018 notified for handling violation proposals.</p> <p>3. The AD/G&M/Tiruchirappalli vide his letter no. Rc.No. 213/2002/Mines dated 06.04.2018 has reported that the transport permit to the quarry was stopped on 17.09.2013 for want of Environmental Clearance.</p> <p>In view of the above, the Authority decided to refer back the subject to SEAC for furnishing remarks</p>
4.	<p>Proposed Black Granite quarry over an extent of 15.47.5 Ha at S.F.No. 331 and 148 (Part), in Veeramangalam & Mahankalikapuram Village, R.K.Pettai Taluk, Tiruvallur District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited - For Terms of Reference</p>	9982	<p>The Authority noted that the subject was appraised in 382nd meeting of SEAC held on 09.06.2023 and the SEAC has recommended for the grant of Terms of Reference (ToR) with Public Hearing subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority accepted the recommendations of SEAC and decided to grant Terms of Reference (ToR) with Public Hearing for undertaking the Environment Impact Assessment Study and preparation of Environment Management Plan subject to the conditions as recommended by SEAC, the normal conditions in addition to the following conditions and the conditions imposed in 'Annexure B' of this minute.</p> <p>1. Study report on impact of mining on drainage pattern, agriculture, biodiversity, flora and fauna, ground water, surface water,</p>


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			<p>temperature, carbon-dioxide and greenhouse gases.</p> <ol style="list-style-type: none"> 2. Details of the grassland, endangered species, vegetation in the region, trees to be translocated shall be reported. 3. Study report on impact of proposed mining on water bodies located within 2km from mine lease area. 4. Life cycle analysis of the product to be mined. 5. The PP shall furnish the letter obtained from the Director, Department of Agriculture stating that the proposed mine lease area/ about the productivity status and productive potential of the land. 6. The PP shall furnish the remarks obtained from local panchayat on the proposed mining activity. 7. The project proponent shall prepare mine closure plan considering mineable quantity of Topsoil, Weathered rock & mineral reject/waste, if any along with detailed EMP. 8. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site. 9. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
5.	Existing Aminabad Limestone Mine (Existing Mining Lease for Captive use) – Extent – 4,945 Ha.	6408	The Authority noted that the subject was appraised in 382 nd meeting of SEAC held on 09.06.2023 and the SEAC has recommended for the grant of Terms of


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ROM Limestone Production -1.2 Lakh Tons Per Annum - SF Nos. 104/1C, 104/2A, 2B, 2C, 2D, 2E, 105/1, 2, 3, 4, 5, 6A, 6b & 7 of Aminabad Village, Ariyalur Taluk & District, Tamil Nadu by M/s. Chettinad Cement Corporation Private Limited (CCCPL)- For Terms of Reference under Violation

Reference (ToR) without Public Hearing under Violation category subject to the conditions stated therein.

After detailed discussions, the Authority accepted the recommendations of SEAC and decided to grant **Terms of Reference (ToR) without Public Hearing** for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants which should be submitted **within one year** from the date of issue of ToR as recommended by SEAC, the normal conditions in addition to the following conditions and the conditions imposed in '**Annexure B**' of this minute.

1. Study report on impact of mining on agriculture, biodiversity, ground water, surface water, temperature, carbon-dioxide and greenhouse gases.
2. Life cycle analysis of the product mined so far.
3. The PP shall furnish the letter obtained from the Director, Department of Agriculture stating that the proposed mine lease area/ about the productivity status and productive potential of the land.
4. The PP shall furnish the remarks obtained from local panchayat on the proposed mining activity.
5. The project proponent shall prepare mine closure plan considering mineable quantity of Topsoil, Weathered rock & mineral


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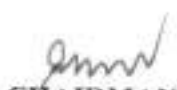

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			<p>reject/waste, if any along with detailed EMP and technology of mine closure.</p> <p>6. Copy of valid mining lease approval obtained from the Competent Authority,</p> <p>7. Copy of approved review of scheme of mining plan by the Competent authority (Dept. of Geology and Mining / IBM).</p> <p>8. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.</p> <p>9. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.</p>
6.	<p>Construction of Medical Hospital building without prior Environmental clearance by M/s. Velammal Medical College & Hospital & Research Institute at S.F.Nos. 62/6, 62/7, 63/9A, 63/9B, 63/9C, 64/2, 64/7B,70/2A, 70/2B, 71/1, 71/3, 71/4A,72/2, 72/3A, 72/38, 72/4A, 72/4B, 72/4C,72/4D, 72/5, 72/6, 72/7, 72/8, 72/9A, 72/9B1,72/9B2, 72/10, 72/11A,72/11B, 72/12, 72/13, 73/4A(P), 73/4B, 73/13, 80/5 of Anuppanadi Village, Madurai South Taluk, Madurai District, Tamil Nadu - For Environmental Clearance under Violation</p>	518	<p>The Authority noted that the subject was appraised in 382nd meeting of SEAC held on 09.06.2023 and the SEAC has directed the Project proponent to obtain and furnish legal opinion on the legal implications in issuing EC under violation category to the project while the legal case filed before the Hon'ble NGT(SZ) vide O.A No. 08/2021 against the Proponent is still pending.</p> <p>The Authority decided to request the Member Secretary, SEIAA to communicate the minutes to the Project Proponent directing him to furnish the details sought by SEAC at the earliest.</p>


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7.	<p>Proposed Expansion of Industrial shed by M/s Volumus Developers Pvt Ltd at S.F.No. 19/2A1B, 19/3, 19/4, 22/1, 22/2A1, 22/2C, 23,24/1, 24/2 , 25, 26, 27/1, 27/2, 27/3A, 27/3B, 27/4, 28/1, 28/2, 29/1, 29/2, 30/1A1, 30/1B, 30/2A, 30/3A, 31/1B, 31/2A1, 31/2B, 32, 33, 34/1, 34/2, 51/1, 51/2, 52/1A, 52/1B, 52/2A, 52/3A, 52/4A, 52/4B, 53/3, 64/3, 66/1, 67/1A, 68/1, 69/1A, 69/2A, 70/1A, 70/1B, 70/2A, 71/1, 71/2, 71/3A2, 71/3B, 71/3C, 71/3D, 71/3E1, 71/3E2, 71/3E3, 72/2, 73/2A, 1026/2A, 199/3, 199/4, 196, 195/1, 195/2, 195/4, 195/5, 194/1B, 194/2, 193/1, 193/2, 195/3, 202/3A2, 202/1, 203/1, 203/2, 204/1, 204/3, 205/2, 199/1, 202/4, 198/2B, 140/5, 140/4, 202/2, 203/4, 206/1C, 204/2, 206/1B1, 198/2A, 197/1, 197/2B, 198/2C, 202/3B, 206/2B Part, 198/1, 201/2B, 201/1, 205/1, 206/1B2, 206/1A1, 206/1A3, 202/3A1, 201/2A, 203/3, 206/1A2, 36/3A, 35/2, 36/2, 37/2, 37/3, 36/1, 37/1, 38,40/2, 36/3B2, 40/1 Part, 35/1A1, 35/1A2, 212/1, 213/1, 219/1, 219/2, 218,217/1, 217/2A1, 217/2A2, 217/2B, 217/3, 216/1, 216/2, 215/1, 215/2, 215/3A, 215/3B, 215/4, 215/5, 214, 213/1, 213/2, 213/3, 212/1A, 212/1B,</p>	9941	<p>The authority noted that the subject was appraised in 382nd SEAC meeting held on 09.06.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC after detailed deliberations, decided to recommend the proposal for the grant of Terms of Reference (ToR).</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 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 minute:</p> <ol style="list-style-type: none"> 1. All the non - compliance in the Certified Compliance report obtained from IRO, MoEF&CC shall be complied before submission of EIA Report. 2. Details regarding the Health Care Facility, creche, Recreational activities provided for the workers shall be discussed in EIA Report. 3. The proponent shall submit details regarding Green Belt Plan Layout, Avenue Plantation, Garden & Lawns along with EIA Report. 4. The proponent shall discuss about the impact on Lakes & Water bodies nearby and shall provide mitigation measures due to the proposed activity along with EIA Report.
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	<p>212/1C, 212/2A1, 212/2A2, 212/2A3, 212/2B, 211/1, 211/2A, 211/2B, 211/3, 211/4, 211/5, 210/1, 210/2, 210/3, 210/4, 209/1, 209/2, 207/1, 207/2, 207/3, 207/4, 207/5, 206/2A1, 206/2A2, 206/2B, 206/3, 220/1, 219/3, 220/2, 221 of Vadakupattu Village, Kundrathur Taluk, Kancheepuram district and S. Nos. 14/2 (Pt), 14/3, 14/4, 14/6 pt, 14/7 (Pt), 14/8, 15/1C Pt, 15/2A Pt, 15/3A, 15/4A, 15/5B1 of Padharvadi Village, Sriperumbudur Taluk & Kancheepuram district, Tamil Nadu- for Terms of Reference.</p>		
8.	<p>Proposed Rough Stone & Gravel quarry over an extent of 1.86.50 Ha in S.F.No. 79 of Midithepalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. B.Srikar for Terms of Reference.</p>	9962	<p>The authority noted that the subject was appraised in 382nd SEAC meeting held on 09.06.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC after detailed deliberations, decided to recommend the proposal for the grant of Terms of Reference (ToR).</p> <p>After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the following conditions and the conditions mentioned in 'Annexure B' of this minute:</p>


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9.	<p>Proposed Rough Stone & Gravel quarry over an extent of 1.37.0 Ha in S.F.Nos.1/3(P), 1/7F(P), 1/7G(P), 2/13(P), 3/2(P), 3/5(P), 11/3B1, 11/3B2, 11/3B3, 11/3B4(P), 11/3B5, 11/4A(P), 11/4B(P), 11/4C(P), 11/4D, 11/5B & 11/6(P) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu by Thiru. M. Baskaran for Terms of Reference.</p>	9969	<p>The authority noted that the subject was appraised in 382nd SEAC meeting held on 09.06.2023.</p> <p>During the presentation, proponent stated that he would like to withdraw the proposal. Hence, SEAC decided to accept the proponent's request to withdraw the proposal and SEIAA may accordingly take necessary action in accordance with the procedures laid by the MoEF & CC.</p> <p>The Authority after detailed deliberation, decided that</p> <ol style="list-style-type: none"> 1. The proponent had stated in the withdrawal request that "Kindly accept the withdraw request so as to file a new proposal comes under B2 category." Hence, the proponent is requested to provide justification for change in category from B1 to B2. 2. Further, from the KML file uploaded by the proponent in Parivesh Portal and google imagery, it is ascertained that the site has been worked. Hence, the proponent shall clarify. <p>Upon the receipt of clarification, proponent's request to withdraw the proposal will be considered.</p>
10.	<p>File No: 9990</p> <p>Proposed Rough Stone & Gravel quarry over an extent of 1.18.5 Ha in S.F.No. S.F.Nos. 153/2, 3, 4A, 4B, 4C & 5 of Veerapatti Village, Iluppur Taluk, Pudukottai District, Tamil Nadu by Thiru. P. Sabapathi- for Terms of Reference.</p>		<p>The authority noted that the subject was appraised in 382nd SEAC meeting held on 09.06.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC after detailed deliberations, decided to recommend the proposal for the grant of Terms of Reference (ToR).</p> <p>After detailed deliberations, the Authority decided to call for additional details</p> <ol style="list-style-type: none"> 1. The proponent has uploaded existing pit letter obtained from Assistant Director, G&M, vide Rc.No.694/2022 (G&M) Dated: 08.03.2023.


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Sl. No.	Name and Address	S.P.Nos.	Extent	Collector's Proceedings	Lease period
1.	Thiru.Chidambara m, S/o.Dhanukodi, Illuppur Taluk, Pudukkottai District	153/3	0.79.0	Rc.No.3282/2002 (G&M) dated 19.01.2003	03.03.2003 to 02.03.2008
2.	Thiru.Chidambara m, S/o.Dhanukodi, Illuppur Taluk, Pudukkottai District	153/3	0.79.0	Rc.No.360/2008 (G&M) dated 18.07.2008	07.10.2008 to 06.10.2013
3.	Thiru.P.Sabapathi S/o.Palaniyandi, Seethapatty,Kilikudi post,Illuppur Taluk, Pudukkotti District	153/2, 153/3, 153/4A, 153/4B, 153/4C & 153/5	1.18.5	Rc.No.539/2017 (G&M) dated 28.07.2017	23.08.2017 to 22.08.2022

Hence, based on the above, it is ascertained that the proponent had obtained lease for a period of 5 years from 23.08.2017 to 22.08.2022. Further, the proponent shall give details regarding whether EC was obtained from SEIAA-TN for the above-mentioned period. If so, copy of the same shall be submitted.

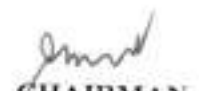
2. Further, the proponent may be requested to submit Certified Compliance Report obtained from IRO, MoEF & CC as per the OM Dated: 08.06.2022, if prior EC had been obtained from SEIAA-TN for the earlier lease period from 23.08.2017 to 22.08.2022.

Upon the receipt of aforesaid details, further deliberation shall be done.

11.	Proposed Garnet sand over an extent of 4.75.5 Ha in S.F.Nos. 390(P) of Kottathur Village, Musiri Taluk, Trichy District, Tamil Nadu by Tvl. Riverways Mines and Minerals Ltd for Terms of Reference.	6507	The authority noted that the subject was appraised in 382 nd SEAC meeting held on 09.06.2023. Based on the presentation and documents furnished by the project proponent, SEAC after detailed deliberations, decided to recommend the proposal for the grant of Terms of Reference (ToR) . After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal
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conditions in addition to the following conditions and the conditions mentioned in 'Annexure B' of this minutes:

1. The analysis of the minerals of Garnet to be mined out from the mining lease area shall be carried out by the competent authority before conducting EIA study and the proponent shall ensure that the threshold value 0.00% monazite in heavy minerals, irrespective of monazite grade as per the Atomic minerals concession rules 2016 issued by ministry of mines notification dated 20.02.2019.
2. The proponent shall furnish the scientific proof to ensure the non-hazardous nature of the waste generated from the mineral pre- concentrated plant since the said waste proposed to dump into the mined-out void. In this connection proponent has to detailed plan bring back the non-hazardous nature of the waste generated from the mineral pre-concentrated plant to the mined-out area.
3. The detailed mine closure plan shall be furnished.
4. The proponent has to conduct cumulative EIA report considering the other four adjacent proposed mining quarries with Separate EMP plan for the proposed individual quarrying operations.
5. The transportation methodology for the transportation of Garnet from the mining lease to the process area shall be furnished in detail and cumulative impact on Air pollution especially Fugitive emission needs to be carried out considering all the mining areas.
6. The proponent shall furnish the detailed CER plan with budget allocation incorporating the needs of the nearby public and also points raised in the


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		<p>public hearing as per the Office Memorandum of MoEF & CC dated 01.05.2018.</p> <ol style="list-style-type: none"> 7. A detailed study shall be included in the EIA Report by incorporating flowchart showing the process of Garnet extraction from sand. This should indicate the flow of processes and products. 8. Impact due to the transportation of garnet sand from the site to the pre-concentration plant and back to site for reclamation shall be discussed in detail in the EA Report. The distance to the pre-concentration plant from the site shall also be furnished. 9. The details of tailings and the concentrates in the tailings shall also be included in the EIA Report. 10. Impact study on climate, water use, land use, energy use, details of waste generation, CO₂ & GHG emission due to proposed project activity shall be included in the EIA Report. 11. Life Cycle Assessment of Garnet including the recycle-reuse pathway for the waste generated shall be included. 12. Details of Environmental monitoring agencies to be employed in the monitoring process during the removal and recovery of garnet shall be furnished. 13. The proponent shall furnish the details on the sustainable technologies to be deployed for the separation of garnet sand. 14. Impact study on soil, groundwater, surface water, agriculture, and horticulture including the impact on the fish shall be furnished. 15. Impact of the proposed project activity on wildlife, livestock & biodiversity shall be studied in detail. 16. Detailed mine closure & reclamation plan for
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			<p>sustainable restoration of the site shall be furnished.</p> <p>17. The EIA Report shall cover the technologies to be adopted for the reduction of environmental burdens including eco-friendly processes to be employed for the extraction of garnet.</p>
12.	<p>Proposed Rough stone, Gravel & Earth quarry lease over an extent of 4.41.5ha at S.F.No.713 in Vembakottai Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Tmt. P. Kaladevi- For Environmental Clearance.</p>	7445	<p>The authority noted that the subject was appraised in 382nd SEAC meeting held on 09.06.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance.</p> <p>The Committee, however, decided to bring it to the notice of SEIAA, the inappropriate way in which the AD has written the reply and hence SEIAA may consider taking it up with the Director, Department of Geology and Mining, Chennai, to advice the concerned AD/Mines on how to communicate with superior authorities.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC decided to</p> <p>A. Request Member Secretary, SEIAA-TN to write a letter to Director, Department of Geology and Mining as per the SEAC direction.</p> <p>B. Considering the abutting river and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the restricted quantity of 55,860 m³ of Rough Stone and 84,190 m³ of Gravel for the depth of mining up to 11m (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</p>



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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. Considering the river abutting the proposed site and in order to ensure adequate safety distance to the river from the proposed site, Authority decided that quarrying shall not be quarried in the section AA' & DD' in the 5th year.
3. 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.
4. 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.
5. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.
6. As per the OM vide F. No. 1A3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental


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			<p>conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</p> <p>7. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p>
13.	Proposed Rough stone, Gravel & Earth quarry lease over an extent of 1.54.0 ha at S.F.No.1316/1B & 1316/2A in Keezhanmaraninadu Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu by Tmt. P.Kaladevi For Environmental Clearance.	7446	<p>The authority noted that the subject was appraised in the 382nd SEAC meeting held on 09.06.2023. On perusal of the records/ documents submitted by the project proponent in the PARIVESH Portal, it is ascertained by the SEAC that earlier a part of the current proposed area, i.e. S.F.No.1316/2B was granted a lease in the name of Tmt. N. Rajathi for quarrying Savudu Earth during the period 2016-2019. The EC for the same was granted vide Lr.No.SEIAA-TN/F.No.2764/EC/1(a)/1819/2014 dated.27.03.2015. Now, the mining plan is approved for quarrying rough stone, gravel & topsoil/earth in the same area.</p> <p>In this regard, the committee decided that:</p> <ol style="list-style-type: none"> SEIAA may obtain clarification on the matter from the Dept. of Geology & Mining. The EIA coordinator should furnish an explanation for not disclosing the above facts.


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			<p>iii) The proponent shall furnish a report on the mineral composition of the proposed area from a laboratory authorized by the Dept. of G&M.</p> <p>iv) The proponent shall furnish the Certified Compliance Report from IRO, MoEF&CC for the EC obtained earlier dated.27.03.2015, as applicable.</p> <p>In view of this, the authority after deliberations, decided to request Member Secretary, SEIAA to communicate the minutes of the 382nd SEAC meeting to the project proponent. Also, the Member Secretary, SEIAA shall address AD/DD Mines and seek clarification as directed by SEAC.</p>
14.	Proposed Rough Stone & Gravel quarry Lease over an extent of 1.10.0 Ha (Patta Land) at S.F.Nos. 251/3B of Karadikudi Village, Anaicut Taluk, Vellore District, Tamilnadu by Thiru.C.Venkatesan – For Terms of Reference	9977	<p>The authority noted that the subject was appraised in the 382nd SEAC meeting held on 09.06.2023. SEAC has furnished its recommendations for granting Terms of Reference with Public Hearing to the proposal.</p> <p>The Authority, after detailed discussions decided to consider the proposal after obtaining the following particulars from the project proponent:</p> <p>1. The project proponent shall submit a Certified Compliance Report from the IRO, MoEF & CC, Chennai for the EC obtained earlier.</p>
15.	Proposed rough stone & gravel quarry lease over an extent of 5.07.22 Ha (Patta Land) at S.F.No. 76/1A & 76/1B(P) of Chikkarampalayam Village, Mettupalayam Taluk, Coimbatore District, Tamilnadu by Tvl.Sri Blue Metals – For Terms of Reference	9991	<p>The authority noted that the subject was appraised in the 382nd SEAC meeting held on 09.06.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the</p>


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			<p>conditions as recommended by SEAC & normal conditions in addition to the following conditions and the conditions mentioned in 'Annexure B' of this minutes.</p> <p>i) Considering the safety aspects & the water regime of the locality, this Terms of Reference is accorded for the restricted depth of 32m below ground level.</p> <p>ii) The proponent shall furnish a letter obtained from AD/DD of Dept. of G&M stating whether any mining activity was carried out in the proposed area after 2014.</p> <p>iii) The proponent shall furnish details on the impact of the proposed mining activity on the elephant corridors and the mitigation measures proposed for the same.</p>
16.	<p>Proposed mining in Kottathur Garnet Sand Deposits (G.O.(3D) No.71) over an extent of 4.80.0 Ha at S.F.Nos. 390(P) of Kottathur Village, Musiri Taluk, Trichy District, Tamilnadu by Tvl. Riverways Mines and Minerals Ltd. - For Terms of Reference</p>	6508	<p>The authority noted that the subject was appraised in the 382nd SEAC meeting held on 09.06.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the following conditions and the conditions mentioned in 'Annexure B' of this minutes:</p> <p>1. The analysis of the minerals of Garnet to be mined out from the mining lease area shall be carried out by the competent authority before conducting EIA study and the proponent shall</p>



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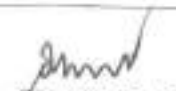

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ensure that the threshold value 0.00% monazite in heavy minerals, irrespective of monazite grade as per the Atomic minerals concession rules 2016 issued by ministry of mines notification dated 20.02.2019.

2. The proponent shall furnish the scientific proof to ensure the non-hazardous nature of the waste generated from the mineral pre-concentrated plant since the said waste is proposed to dump into the mined-out void. In this connection, proponent has to furnish a detailed plan to bring back the non-hazardous waste generated from the mineral pre-concentrated plant to the mined-out area.
3. The detailed mine closure plan shall be furnished.
4. The proponent has to conduct cumulative EIA report considering the other four adjacent proposed mining quarries with Separate EMP plan for the proposed individual quarrying operations.
5. The transportation methodology for the transportation of Garnet from the mining lease to the process area shall be furnished in detail and cumulative impact on Air pollution especially Fugitive emission needs to be carried out considering all the mining areas.
6. The proponent shall furnish the detailed CER plan with budget allocation incorporating the needs of the nearby public and also points raised in the public hearing as per the Office Memorandum of MoEF & CC dated 01.05.2018.


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		<ol style="list-style-type: none"> 7. A detailed study shall be included in the EIA Report by incorporating flowchart showing the process of Garnet extraction from sand. This should indicate the flow of processes and products. 8. Impact due to the transportation of garnet sand from the site to the pre-concentration plant and back to site for reclamation shall be discussed in detail in the EA Report. The distance to the pre-concentration plant from the site shall also be furnished. 9. The details of tailings and the concentrates in the tailings shall also be included in the EIA Report. 10. Impact study on climate, water use, land use, energy use, details of waste generation, CO₂ & GHG emission due to proposed project activity shall be included in the EIA Report. 11. Life Cycle Assessment of Garnet including the recycle-reuse pathway for the waste generated shall be included. 12. Details of Environmental monitoring agencies to be employed in the monitoring process during the removal and recovery of garnet shall be furnished. 13. The proponent shall furnish the details on the sustainable technologies to be deployed for the separation of garnet sand. 14. Impact study on soil, groundwater, surface water, agriculture, and horticulture including the impact on the fish shall be furnished. 15. Impact of the proposed project activity on wildlife, livestock & biodiversity shall be
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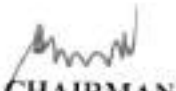

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			<p>studied in detail.</p> <p>16. Detailed mine closure & reclamation plan for sustainable restoration of the site shall be furnished.</p> <p>17. The EIA Report shall cover the technologies to be adopted for the reduction of environmental burdens including eco-friendly processes to be employed for the extraction of garnet.</p>
17.	Proposed Rough stone & gravel quarry lease area over an extent of 3.79.5 Ha at S.F.No. 177/5, 177/6, 177/7 & 178/1 of Mannarkottai Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Thiru.E.Mariappan - For Environmental Clearance.	6970	<p>The authority noted that the subject was appraised in the 382nd SEAC meeting held on 09.06.2023. During the meeting, the proponent was absent. Hence, the SEAC decided to defer the proposal.</p> <p>The Authority noted the following:</p> <ol style="list-style-type: none"> i. Earlier, the proposal was placed in the 136th meeting of SEAC held on 20.09.2019. Based on the presentation and details furnished by the project proponent, the SEAC decided that the project proponent has to furnish the following details: <ol style="list-style-type: none"> i) It was noted in the Google image that mining activity was already been carried out in the leased area. It is requested to furnish the following details: <ol style="list-style-type: none"> a) What was the period of operation and stoppage of the earlier mines? b) Quantity of minerals mined out c) Depth of mining d) Name of the person already mined in the leases area ii) The detail of fugitive emissions should be modelled and mitigation measures shall be furnished.


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2. The proposal is then placed in 144th SEAC meeting held 17.02.2020 on receipt of a reply from the proponent.

On submission of the above details, SEAC decided to make an on the spot inspection to assess the present status of the project by the sub-committee constituted by the SEAC. The Sub-Committee inspected the site on 01.02.2020. The Sub-Committee held discussions with the project proponent and the committee inspected the project site and observed the following:

1. It was observed that the proposed site was an existing pit with a mined out approximately upto a depth of 25m.
2. No fencing arrangements were provided around the periphery of the mining site.
3. It was noticed that a safety distance of 50m was stipulated for the Odai located at S.F.No. 176/4 vide letter dated 23/02/2019 by Department of Geology & Mining, Virudhuangar. **However, there was no safety distance left.**
4. There was no green belt developed by the proponent.

Inspection report by the Sub-Committee is submitted to the Chairman, SEAC for the further course of action regarding the proposal seeking Environmental Clearance by Thiru.Marippan.

The project proponent has not complied with mandatory measures as stipulated above. Hence the sub-committee


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decided not to recommend the project proposal for the issuance of EC.


The Inspection report of the sub-committee was placed in the 144th SEAC meeting held on 17.02.2020. After detailed deliberations, the SEAC decided to defer the proposal for the next SEAC meeting.

3. The proposal was placed before SEAC again in the 153rd SEAC meeting held on 04.06.2020, after the detail deliberation, the SEAC decided to get the following details from AD Mines, Virudunagar District:


During inspection of the sub-committee of SEAC, It was noticed that safety distance of 50m was stipulated for the Odai located at S.F no 176/4 vide letter dated 23/02/2019 by Department of Geology and Mining, Virudhunagar. However there was no safety distance left. Hence the SEAC has **decided to impose the Environmental compensation** for carried out the mining in the safety distance of 50m from Odai. In this regards the SEIAA may request the AD mines to furnish the quantity of mineral mined out from the said safety zone and value of the same.

On receipt of the above detail from AD,Mines of the Viruthunagar District, the SEAC will decide further course of action on the proposal.

4. In this regard, Member Secretary, SEIAA vide Lr.No.SEIAA-TN/F.6970/2019 dated. 11.09.2020 has requested the Deputy Director, Dept. of G&M, Viruthunagar District to furnish


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the above-mentioned details as indicated in 153rd SEAC meeting.

5. There was no reply from the Dept. of G&M so far.


6. Now, the proponent has submitted a withdrawal request vide letter dated.26.10.2022, stating as follows:

" I have submitted application for Environmental Clearance for E.Mariappan Rough Stone & Gravel Quarry over a total extent of 3,79.5 Ha in S.F.No. 177/5, 177/6, 177/7 & 178/1 Mannarkottai Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu. Now my health is not good due to age factor, am not further going ahead on this proposal and request to withdraw my application as said in above reference.


I request the Member Secretary to kindly do the needful for allowing me to withdraw the above referred application for environmental clearance for our project at the earliest".

7. This withdrawal request of the proponent is placed in this 610th meeting of authority held on 11.04.2023. The authority, after detailed deliberations, decided that the SEAC shall assess the ecological damage and impose the Environmental compensation for the mining carried out in the safety distance of 50m from Odai.


Only after the assessment of ecological damage and completion of Environmental Compensation, the withdrawal request can be considered.


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			<p>8. In view of the above, the proposal was placed in the 382nd SEAC meeting held on 09.06.2023. But the proponent was absent during the meeting.</p> <p>In view of the above facts, the Authority after detailed deliberations, decided the following:</p> <p>i) MS-SEIAA shall write a reminder letter to Assistant Director/ Deputy Director, Dept.of G&M, to furnish details as requested in the previous letter dated.11.09.2020 within 15 days.</p> <p>ii) MS-SEIAA shall address the Govt. to take credible action against the proponent under Section 19 of the Environment (Protection) Act, 1986 for the violations committed.</p>
18.	Proposed Rough stone Quarry over an extent of 3.00.0Ha in SF.No. 220/1 (Part-1) at Gopanapalli Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by M/s. Natural Stone Industry - For Terms of Reference.	9943	<p>The authority noted that this proposal was placed for appraisal in 382nd meeting of SEAC held on 09.06.2023, the committee has furnished its recommendations for granting ToR with Public hearing subject to the conditions stated therein. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions in 'Annexure B' of this minute.</p>
19.	Proposed Rough stone & Gravel Quarry over an extent of 2.31.50Ha in SF.No. 253/7, 259/5, 259/2 &	9971	<p>The authority noted that this proposal was placed for appraisal in 382nd meeting of SEAC held on 09.06.2023, the committee has furnished its</p>


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	259/4 at Karadikudi Village, Anaicut Taluk, Vellore District, Tamil Nadu by Thiru.R.Natarajan - For Terms of Reference.		recommendations for granting ToR with Public hearing subject to the conditions stated therein. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions in 'Annexure B' of this minute.
20.	Proposed Garnet Sand Mine over an extent of 4.75.0 ha by M/s. S.S. Minerals Ltd, for Garnet sand production of 2450 Tonnes for a period of 5 years at S.F.No.390 (Part) in Kottathur Village, Musiri Taluk, Trichy District - Activity I(a) - Mining of major mineral - For Terms of Reference.	6509	The authority noted that this proposal was placed for appraisal in 382 nd meeting of SEAC held on 09.06.2023, the committee has furnished its recommendations for granting ToR with Public hearing subject to the conditions stated therein. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing subject to the conditions as recommended by SEAC & normal conditions in addition to the following conditions: <ol style="list-style-type: none"> 1. A detailed study shall be included in the EIA Report by incorporating flowchart showing the process of Garnet extraction from sand. This should indicate the flow of processes and products. 2. Impact due to the transportation of garnet sand from the site to the pre-concentration plant and back to site for reclamation shall be discussed in detail in the EIA Report. The distance to the pre-concentration plant from the site shall also be furnished.


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			<ol style="list-style-type: none"> 3. The details of tailings and the concentrates in the tailings shall also be included in the EIA Report. 4. Impact study on climate, water use, land use, energy use, details of waste generation, CO2 & GHG emission due to proposed project activity shall be included in the EIA Report. 5. Life Cycle Assessment of Garnet including the recycle-reuse pathway for the waste generated shall be included. 6. Details of Environmental monitoring agencies to be employed in the monitoring process during the removal and recovery of garnet shall be furnished. 7. The proponent shall furnish the details on the sustainable technologies to be deployed for the separation of garnet sand. 8. Impact study on soil, groundwater, surface water, agriculture, and horticulture including the impact on the fish shall be furnished. 9. Impact of the proposed project activity on wildlife, livestock & biodiversity shall be studied in detail. 10. Detailed mine closure & reclamation plan for sustainable restoration of the site shall be furnished. 11. The EIA Report shall cover the technologies to be adopted for the reduction of environmental burdens including eco-friendly processes to be employed for the extraction of garnet.
21.	Proposed Rough stone quarry over an extent of 2.07.0 Ha at S.F.Nos. 30/1, 30/3, 30/4, 30/5, 30/6, 30/7, 30/8A, 30/9, 30/10, 30/11 and 31/2 kilukulavoipatti Village, Kulathur	9930	The authority noted that the subject was appraised in 382 nd SEAC meeting held on 09.06.2023. SEAC has furnished its recommendations for granting Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment


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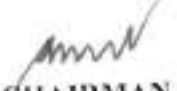

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	Taluk, Pudukkottai District , Tamil Nadu by Thiru.V. Sasikumar- For Terms of Reference		Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions stated therein. After detailed discussion, SEIAA decided to obtain the following additional details from the PP. 12. The project proponent shall furnish the certified compliance report obtained from MoEF & CC/RO.
22.	Proposed Rough stone quarry over an extent of 1.64.0 Ha at S.F.No. 253/4 Karadikudi Village, Anaicut Taluk, Vellore District , Tamil Nadu by Tmt. N. Kasthuri - For Terms of Reference	9951	The authority noted that the subject was appraised in 382 nd SEAC meeting held on 09.06.2023. SEAC has furnished its recommendations for granting Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions stated therein. After detailed discussion, SEIAA decided to obtain the following additional details from the PP. 1. The project proponent shall furnish the certified compliance report obtained from MoEF & CC/RO.
23.	Proposed Black granite quarry over an extent of 2.08.73 Ha at S.F.No. 2.08.73Ha S.F.Nos. 357/1(Part), 357/3B2, 357/4, 357/5A and 357/5B of Keelapuliur (S) Village, Kunnam Taluk, Perambalur District, Tamil Nadu by M/s. Siva Granite Products- For Terms of Reference	9965	The authority noted that this proposal was placed for appraisal in 382 nd SEAC meeting held on 09.06.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions in 'Annexure B' of this minute.


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			<ol style="list-style-type: none"> 1. The project proponent shall prepare mine closure plan considering quantity of Topsoil & Weathered rock. If any. 2. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
24.	Proposed Expansion of Existing Steel melting Plant & Rolling Mill at S.F. No. 51/1A, 51/1B, 53/1A, 53/2, 58/1, 58/2, 59/2A, 59/2B, 60, 61/2, 57/1A, 54, 55/3 Orattukkuppai Village, Madukkari Taluk, Coimbatore District, Tamil Nadu by M/s. Bradken India private limited - For Terms of Reference	10007	<p>The authority noted that this proposal was placed for appraisal in 382nd SEAC meeting held on 09.06.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing for preparation of detailed EIA report subject to the conditions as recommended by SEAC & normal conditions.</p> <ol style="list-style-type: none"> 1. State-of-art technology proposed for preventing/minimizing the impact of the project activity on the local and global environment. 2. Pollution control measures adopted to contain water and air-borne pollutants and prevention of heavy metal leaching. 3. Design capacity of the furnace used in the existing activity with relevant supporting documents. 4. The proponent shall submit the green technologies deployed in the production to reduce carbon footprint, Green House Gas (GHG), CO₂ and rise in temperature. 5. Details regarding strategies adopted for occupational health safety shall be submitted. 6. The proponent shall submit detailed report regarding temperature rise and climate change impacts due to the proposed project and control

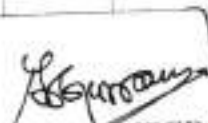

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		<p>measures.</p> <ol style="list-style-type: none"> 7. The PP shall study fugitive emissions and regular emission monitoring strategies to prevent their escape into the environment. 8. Details regarding the transparency and accountability system in place during the operation period of the project. 9. Details regarding the In-House environmental performance and evolution tools to evaluate the impacts of the project on the environment. 10. Detailed study to be made on material flow analysis and Life Cycle Assessment (LCA) in the process of production and the report shall be submitted. 11. Through a chart illustration, clarify the cradle to grave approach for anticipated emissions and environmental threats in every stage and the mitigation strategy at every stage shall be submitted. 12. Project Proponent shall submit the action plan to study the impacts on human health viz respiratory impacts, toxicity impacts and radiation impacts. 13. The proponent shall submit a detailed study report regarding the chemical exposures and risks anticipated to environmental and human health. 14. The proponent shall strictly adhere to the mitigation measures as committed regarding the emission of Green House Gas (GHG) and other gas emissions. 15. The proponent shall submit a detailed study report regarding the terrestrial and aquatic toxicity due to the proposed project.
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			<p>16. The green belt area should be not less than 15% of the total land area of the project.</p> <p>17. The proponent shall furnish details on the green practices adopted so as to support the circular economy.</p> <p>18. The proponent shall conduct a study and furnish details on the impact of the project on the communities in and around the project area.</p> <p>19. The proponent shall furnish details on the impact on employee health due to the project activities.</p> <p>20. Details regarding strategies adopted for energy efficiency standards shall be submitted.</p>
25.	Proposed Garnet Sand Mine over an extent of 4.90.6 Ha at S.F.No. 390(P), Kottathur Village, Musiri Taluk, Tiruchirapalli District, Tamil Nadu by M/s. Riverwaays Mines and Minerals Limited - For Terms of Reference.	6510	<p>The authority noted that this proposal was placed for appraisal in 382nd SEAC meeting held on 09.06.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions in 'Annexure B' of this minutes.</p> <ol style="list-style-type: none"> 1. A detailed study shall be included in the EIA Report by incorporating flowchart showing the process of Garnet extraction from sand. This should indicate the flow of processes and products. 2. Impact due to the transportation of garnet sand from the site to the pre-concentration plant and back to site for reclamation shall be discussed in detail in the EA Report. The distance to the pre-concentration plant from the site shall also be


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			<p>furnished.</p> <ol style="list-style-type: none"> 3. The details of tailings and the concentrates in the tailings shall also be included in the EIA Report. 4. Impact study on climate, water use, land use, energy use, details of waste generation, CO₂ & GHG emission due to proposed project activity shall be included in the EIA Report. 5. Life Cycle Assessment of Garnet including the recycle-reuse pathway for the waste generated shall be included. 6. Details of Environmental monitoring agencies to be employed in the monitoring process during the removal and recovery of garnet shall be furnished. 7. The proponent shall furnish the details on the sustainable technologies to be deployed for the separation of garnet sand. 8. Impact study on soil, groundwater, surface water, agriculture, and horticulture including the impact on the fish shall be furnished. 9. Impact of the proposed project activity on wildlife, livestock & biodiversity shall be studied in detail. 10. Detailed mine closure & reclamation plan for sustainable restoration of the site shall be furnished. 11. The EIA Report shall cover the technologies to be adopted for the reduction of environmental burdens including eco-friendly processes to be employed for the extraction of garnet.
26.	Proposed Rough Stone and Gravel Quarry lease over an extent of 1.05.5Ha S.F.No.251/3A, Karadikudi Village, Anaicut Taluk,	9924	The Authority noted that this proposal was placed for appraisal in this 382 nd SEAC meeting held on 09.06.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to


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	Vellore District by Thiru.R.Natarajan - For Terms of Reference.		grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions in ' Annexure B ' of this minute. <ol style="list-style-type: none"> 1. The project proponent shall prepare mine closure plan considering quantity of Topsoil & Weathered rock. If any. 2. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
27.	Proposed Rough Stone Quarry lease over an extent of 0.98.0Ha S.F.No.118/4, 118/5, 118/6A & 119/3, Sevvur Village, Thiruppattur Taluk, Sivagangai District by Thiru.C.Ammavasai - For Terms of Reference.	9938	The Authority noted that this proposal was placed for appraisal in this 382 nd SEAC meeting held on 09.06.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions in ' Annexure B ' of this minute. <ol style="list-style-type: none"> 1. The project proponent shall prepare mine closure plan considering quantity of Topsoil & Weathered rock. If any. 2. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.


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28.	Proposed Rough Stone Quarry lease over an extent of 3.00.0Ha S.F.No.220/1 (Part-3), Gopanapalli Village, Hosur Taluk, Krishnagiri District by M/s. Srre Krish Rough Stone - For Terms of Reference.	9945	<p>The Authority noted that this proposal was placed for appraisal in this 382nd SEAC meeting held on 09.06.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions in 'Annexure B' of this minute.</p> <ol style="list-style-type: none"> 1. The project proponent shall prepare mine closure plan considering quantity of Topsoil & Weathered rock. If any. 2. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
29.	Proposed Rough Stone & Gravel Quarry lease over an extent of 1.71.0Ha S.F.No.182/3, 182/4 & 182/8, Sembatur Village, Pudukkottai Taluk, Pudukkottai District by Thiru.C.S.Arjunkumar - For Environmental Clearance.	9987	<p>The Authority noted that this proposal was placed for appraisal in this 382nd SEAC meeting held on 09.06.2023 and SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein. After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity 181570m³ of Rough Stone & 16742m³ of Gravel and the depth of mining upto 22m BGL as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of</p>



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SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.

1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.
2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of 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


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		<p>works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p> <p>7. The project proponent shall store/dump Weathered Rock & Topsoil generated within the earmarked area of the project site and the utilize the same for mine closure.</p> <p>8. The project proponent shall spend EMP cost of Rs.190 Lakhs/ 5 Years including capital & recurring cost with 5% inflation cost anticipated every year as committed.</p> <p>9. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 accepted by the Project proponent, the CER cost is Rs.5.0 Lakhs and the amount shall be spent for the Panchayat Union Middle School, Rajakulathur, Pudukkottai Union, Pudukkottai District before obtaining CTO from TNPCB.</p> <p>10. All the trees listed within the proposed mining area shall be transplanted all along the boundary.</p> <p>11. The PP shall ensure protection for the list of shrubs, herbs, climbers and the threatened/endangered vulnerable species within the proposed mining area as mentioned in the documents submitted.</p> <p>12. The PP shall ensure that the Wildlife habitat and Biodiversity shall not be disturbed.</p> <p>13. The PP shall ensure no impact on surrounding waterbodies and water course by the way of soil erosion, etc.</p>
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30.	Proposed Garnet Sand Mining over an extent of 4.75.0 ha at S.F.No. 390 (Part) in Kottathur Village, Musiri Taluk, Trichy District by M/s. Riverways Mines and Minerals Ltd for Garnet sand production of 2500 Tonnes for a period of 5 years - Terms of Reference.	6511	<p>The Authority noted that this proposal was placed for appraisal in this 382nd SEAC meeting held on 09.06.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions in 'Annexure B' of this minute.</p> <p>A detailed study shall be included in the EIA Report by incorporating flowchart showing the process of Garnet extraction from sand. This should indicate the flow of processes and products.</p> <ol style="list-style-type: none"> 1. Impact due to the transportation of garnet sand from the site to the pre-concentration plant and back to site for reclamation shall be discussed in detail in the EA Report. The distance to the pre-concentration plant from the site shall also be furnished. 2. The details of tailings and the concentrates in the tailings shall also be included in the EIA Report. 3. Impact study on climate, water use, land use, energy use, details of waste generation, CO2 & GHG emission due to proposed project activity shall be included in the EIA Report. 4. Life Cycle Assessment of Garnet including the recycle-reuse pathway for the waste generated shall be included. 5. Details of Environmental monitoring agencies to be employed in the monitoring process during the removal and recovery of garnet shall be furnished.
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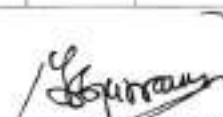

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			<p>6. The proponent shall furnish the details on the sustainable technologies to be deployed for the separation of garnet sand.</p> <p>7. Impact study on soil, groundwater, surface water, agriculture, and horticulture including the impact on the fish shall be furnished.</p> <p>8. Impact of the proposed project activity on wildlife, livestock & biodiversity shall be studied in detail.</p> <p>9. Detailed mine closure & reclamation plan for sustainable restoration of the site shall be furnished.</p> <p>10. The EIA Report shall cover the technologies to be adopted for the reduction of environmental burdens including eco-friendly processes to be employed for the extraction of garnet.</p>
31.	Existing Limestone Mine lease area over an extent of 4.99.5Ha at S.F.Nos.382/1A, 382/1B, 382/1C, 382/1D, 382/5A, 383/1A, 383/1B, 383/1C, 383/2A, 383/2B, 383/2C, 383/3A, 383/3B & 384/1D (P) of Nakkambadi Village, Sendurai Taluk, Ariyalur District, Tamil Nadu by M/s. Chettinad Cement Corporation Pvt. Limited - For Terms of Reference under violation	6389	<p>The authority noted that the subject was appraised in the 382nd SEAC meeting held on 09.06.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) under violation category for undertaking EIA study followed by the EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants subject to the conditions as recommended by SEAC & normal / Standard conditions in addition to the following conditions and conditions stated therein vide Annexure 'B'.</p> <p>11. The PP shall furnish Copy of valid mining lease approval obtained from the competent Authority.</p> <p>12. The PP shall furnish Copy of mining plan approved</p>


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			<p>by the competent authority of the Dept of Geology and Mining.</p> <p>13. The PP shall furnish EMP for the project life including progressive mine closure plan and final mine closure plan with detailed budget plan.</p> <p>14. 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.</p> <p>15. 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.</p> <p>16. The PP shall study in detail about Soil health, Climate change leading to Droughts, Floods etc.</p> <p>17. The PP shall study in detail about release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.</p> <p>18. The PP shall study in detail about Possibilities of water contamination and impact on aquatic ecosystem health.</p> <p>19. 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>20. The PP shall study the impact on Invasive Alien Species (IAP).</p>
32.	Proposed expansion of existing foundry unit production capacity from 2790 TPM to 6125 TPM located at S.F. No. 39A and 39B, Kathikavakkam Village, Tiruvottiyur Taluk, Tiruvallur	7465	The Authority noted that the subject was appraised in 382 nd meeting of SEAC held on 09.06.2023 and the SEAC has furnished its recommendation for the extension of validity of Terms of Reference (ToR) with Public Hearing subject to the conditions stated therein.

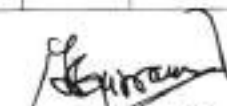

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	District by M/s.Ashok Leyland Limited, Tiruvallur District – For Extension of validity of Terms of Reference with Public Hearing		<p>After detailed discussions, the Authority accepted the recommendations of SEAC and decided to extend the validity of Terms of Reference (ToR) with Public Hearing to 22.06.2025 as recommended by SEAC subject to the following additional conditions: All the other conditions detailed in the ToR issued vide Lr. No. SEIAA-TN/F.No.7465/3(a)/TOR- 726/2020 Dated: 23.06.2020 remain un-altered.</p> <ul style="list-style-type: none"> • Design capacity of the furnace used in the existing activity with relevant supporting documents. • State-of-art technology proposed for preventing/minimizing the impact of the project activity on the local and regional environment. • Pollution control measures adopted to contain water and air-borne pollutants and prevention of heavy metal leaching. • Impact of the proposed activity on the biodiversity, temperature, Co2, GHG, surface water, flora and fauna. • Lifecycle analysis and carbon foot print of the product shall be detailed. • Part 3-year health record of the workers employed in the process area. • Report on Environmental Management System, monitoring systems ssand sustainable operations in place.
33.	Proposed Rough Stone & Gravel Quarry lease over an extent of 4.79.0Ha S.F.No.1019/2 (Part), 1021/3 (Part), 1022 (Part) & 1023/3 (Part), Kuppam Village, Pugalur Taluk, Karur District Tamil Nadu	9775	<p>The Authority noted that this proposal was placed for appraisal in this 373rd SEAC meeting held on 28.04.2023 and SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein. After detailed discussions, the Authority taking into</p>


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	<p>by M/s. Alpha Blue Metals- for Environmental Clearance</p>	<p>account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity 832910 m³ of Rough Stone & 81750m³ of Gravel and the depth of mining upto 30m BGL as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <ol style="list-style-type: none"> 1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated,14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period. 2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented. 3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life. 4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP. 5. As per the OM vide F. No. IA3-22/1/2022-IA-
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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 **Weathered Rock & Topsoil** generated within the earmarked area of the project site and the utilize the same for mine closure.
8. The project proponent shall spend EMP cost of **Rs.447.93 Lakhs/10 Years** including capital & recurring cost with 5% inflation cost anticipated every year as committed.
9. As per the MoEF& CC office memorandum F.No.22-65/2017-1A.III dated: 30.09.2020 and 20.10.2020 accepted by the Project proponent, the CER cost is **Rs. 5.0 lakhs and the amount shall be spent for the Panchayat Union Primary School, Kuppam Village as committed, before obtaining CTO from TNPCCB.**
10. All the trees listed within the proposed mining


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			<p>area shall be transplanted all along the boundary.</p> <p>11. The PP shall ensure protection for the list of shrubs, herbs, climbers and the threatened/endangered vulnerable species within the proposed mining area as mentioned in the documents submitted.</p> <p>12. The PP shall ensure that the Wildlife habitat and Biodiversity shall not be disturbed.</p> <p>13. The PP shall ensure no impact on surrounding waterbodies and water course by the way of soil erosion, etc.</p>
34.	Proposed of Rough Stone & Gravel quarry lease over an extent of 1.79.5 Ha at S.F Nos. 1185/1, 1185/7A & 1185/8, Katchaikatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu by M/s. Concretia Rock Products Pvt Ltd - for Environmental Clearance.	7988	<p>The Authority noted that this proposal was placed for appraisal in this 370th SEAC meeting held on 25.04.2023 and SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity 121,555 m³ of rough stone & 20,889 m³ of Gravel and the depth of mining upto 38m BGL as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <p>1. Keeping in view of MoEF&CC's notification</p>


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S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.

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

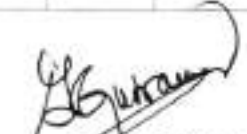

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		<p>should be brought to the notice of concerned authorities during inspections.</p> <p>7. The project proponent shall store/dump Weathered Rock & Topsoil generated within the earmarked area of the project site and the utilize the same for mine closure.</p> <p>8. The project proponent shall spend EMP cost of Rs.72.56 Lakhs/5 Years including capital & recurring cost with 5% inflation cost anticipated every year as committed.</p> <p>9. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 accepted by the Project proponent, the CER cost is Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Primary School, Ramayampatti & Government primary School, Katchaikatti as committed, before obtaining CTO from TNPCB.</p> <p>10. All the trees listed within the proposed mining area shall be transplanted all along the boundary.</p> <p>11. The PP shall ensure protection for the list of shrubs, herbs, climbers and the threatened/endangered vulnerable species within the proposed mining area as mentioned in the documents submitted.</p> <p>12. The PP shall ensure that the Wildlife habitat and Biodiversity shall not be disturbed.</p> <p>13. The PP shall ensure no impact on surrounding waterbodies and water course by the way of soil erosion, etc.</p>
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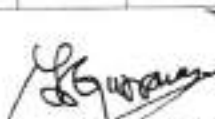

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35.	Proposed of Rough Stone & Gravel Quarry lease over an extent of 1.16.5Ha in S.F.Nos.1186/2A, 1186/3 & 1186/4 of Katchaikatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu By Thiru.S.Karuppasamy- for Environmental Clearance.	8387	<p>The Authority noted that this proposal was placed for appraisal in this 370th Meeting of SEAC held on 25.04.2023 and the SEAC recommended the proposal for the grant of Environmental Clearance subject to the condition that</p> <p style="padding-left: 40px;">“The SEIAA is requested to seek a clarification from the office of the Competent Authority over the omission of the mine operated M/s. Concretia Rock Products Pvt Ltd in S.F. No. 1185/1 in the cluster area letter”</p> <p>In this regard, the authority after detailed discussion decided to defer the proposal and to request the Member Secretary, SEIAA to obtain clarification from the AD, Dept. of Geology & Mining, Madurai in regard to omission of proposed rough stone and gravel quarry by M/s. Concretia Rock Products Pvt. Ltd in the 500m Radius letter issued to the PP M/s. Thiru. S. Karuppasamy vide RoC. No. 442/2020 - Mines Dated:02.02.2021.</p> <p>In this connection, the PP has submitted reply vide lr. Dt:15.06.2023 enclosing revised 500m radius cluster letter dt:12.06.2023 issued by AD(i/c), Dept. Geology & Mining, Madurai incorporating proposed rough stone and gravel quarry by M/s. Concretia Rock Products Pvt. Ltd.</p> <p>Hence, the proposal was again placed in the 632nd Authority meeting held on 21.06.2023. The authority after detailed discussion decided to refer back the proposal to SEAC for remarks and recommendation.</p>
36.	Proposed Construction of Non-High Rise Residential Building in	9852	The Authority noted that the subject was earlier appraised in the 375 th SEAC meeting held on


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<p>T.S.L.R No 38/23, 56/34 & 70/32, Ward No E, Block No 33 of Korattur Village, Ambattur Taluk, Chennai District, Tamil Nadu by M/s. Casagrand Builder Private Limited- For Environmental Clearance</p>	<p>04.05.2023 and SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein. Subsequently, the subject was placed in the 622nd Authority meeting held on 26.05.2023. After detailed discussions, the Authority decided to obtain the following details</p> <ol style="list-style-type: none"> 1. The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the local body /TWAD. 2. The proponent shall study about flood inundation in the proposed project site and obtain certificate from Competent Authority/PWD. 3. Impact on the Korattur lake situated at 700m and Thathan Kuppam Lake at 700m. 4. The proponent shall explore possibilities to provide sufficient grass lawns and play facilities for children. 5. The project proponent shall provide detailed traffic plan including adequate parking space for visitors (car and two-wheelers). <p>Subsequently, the PP had submitted a reply vide letter dated:16.06.2023. Hence, this proposal was placed in the 632nd Authority meeting held on 21.06.2023 & 22.06.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Environmental Clearance subject to the conditions as recommended by SEAC & normal conditions and conditions in Annexure 'C' of this minutes in addition to the following conditions:</p> <ol style="list-style-type: none"> 1. The PP shall submit fresh water supply commitment letter & disposal of excess treated
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		<p>water from the local body /TWAD and commitment letter to pay an amount of Rs. 2,36,000/- for dedicated sewer and water main in the form of Demand draft in favour of CMWSSB before obtaining CTE from TNPCB.</p> <p>2. The proponent shall study about flood inundation in the proposed project site and obtain certificate from Competent Authority/PWD before obtaining CTE from TNPCB.</p> <p>3. The PP shall ensure that the Construction activities should not cause any Impact on the Korattur lake situated at 700m and Thathan Kuppam Lake at 700m.</p> <p>4. The proponent shall provide sufficient grass lawns and play facilities for children.</p> <p>5. The project proponent shall submit detailed traffic plan including adequate parking space for visitors (car and two-wheelers) before obtaining CTE from TNPCB.</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,


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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.
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


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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

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.


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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.
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.


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Biodiversity - Protection and mitigation measures

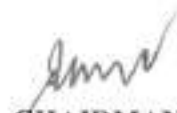
30. The proponent should ensure that there is no disturbance to the agriculture plantations, social forestry plantations, waste lands, forests, sanctuary or national parks. There should be no impact on the land, water, soil and biological environment and other natural resources due to the mining activities.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


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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.
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


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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 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


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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.
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.


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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.
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.


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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

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 .


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- 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.
- 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,


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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

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

EMP


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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/unfavorable accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities covering the entire mine lease period as per precise area communication order issued.

Others

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

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

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

Annexure 'C'

Climate Change

1. The proponent shall adopt strategies to decarbonize the building.
2. The proponent shall adopt strategies to reduce emissions during operation (operational phase and building materials).
3. The proponent shall adopt strategies to reduce temperature including the Building Façade.
4. The proponent shall adopt methodology to control thermal environment and other shocks in the building.


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

Health

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

Energy

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

Regulatory Frameworks

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


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Plastic Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001.

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

Database maintenance & audits


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

Biodiversity


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

Safety measures

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


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33. The proponent shall adhere to the provision and norms regard to fire safety prescribed by competent authority.

Water/Sewage

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

Parking

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

Solid waste Management

41. The proponent shall ensure that no form of municipal solid waste shall be disposed outside the proposed project site at any time.
42. The proponent should strictly comply with, Tamil Nadu Government order regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.

EMP

43. The proponent shall ensure that the EIA/EMP and disaster management plan should be adhered strictly.
44. The proponent shall ensure that all activities of EMP shall be completed before obtaining CTO from TNPCB.


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


Others

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

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

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


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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




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