

**MINUTES**

**752<sup>nd</sup> MEETING**

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

**Date: 03.09.2024**



**MINUTES OF THE 752<sup>nd</sup> MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT  
ASSESSMENT AUTHORITY HELD ON 03.09.2024.**

| Agenda No | Description                                                                                                                                                                                                                  | File No. | Minutes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| a)        | Confirmation of the minutes of the 751 <sup>st</sup> meeting of the Authority held on 02.09.2024.                                                                                                                            |          | The minutes of the 751 <sup>st</sup> meeting of the Authority held on 02.09.2024 was confirmed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1.        | Proposed construction of Residential Development at S.F.No. 4288/12 & 107 of Mylapore Village, Mylapore-Triplicane Taluk, Chennai District, Tamil Nadu by M/s. Ceebros Hotels Private Limited - For Environmental Clearance. | 2592     | <p>The authority noted that based on the details submitted by the TNPCB, the subject was earlier placed in the 739<sup>th</sup> meeting of Authority held on 19.07.2024. After detailed discussions, the Authority decided that the file may be closed and recorded, after obtaining views of SEAC. Hence, the proposal was placed in the 491<sup>st</sup> meeting of SEAC held on 14.08.2024. The Project proponent made a presentation as follows,</p> <ul style="list-style-type: none"> <li>• The project had been proposed for a total built-up area of 1,05,728 sq.mts spread over a plot area of 22,471.47 sq.mtrs, comprising of 321 Dwelling Units.</li> <li>• Located near the Adyar Estuary the project attracts the provisions of CRZ Notification of 2011, thus, requiring a prior CRZ Approval as well from MoEF&amp;CC, given the site is a notified CRZ-II.</li> <li>• We secured the requisite TNSCZMA recommendation for the project on 29-05-2015, vide ref: Letter No. R.C.No.P1/839/2015.</li> <li>• During this period, due to absence of Authority in Tamil Nadu, we approached</li> </ul> |



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|  |  | <p>MoEF&amp;CC, towards securing a Composite Clearance [EIA+CRZ].</p> <ul style="list-style-type: none"> <li>• Thus, a letter for joint appraisal was undertaken, following which in the EAC Meeting held on July 2015, where the committee recommended grant of Environmental Clearance under the provisions of EIA Notification of 2006 and CRZ Notification of 2011.</li> <li>• Following which the CTE had been secured from TNPCB and the Planning Permission from CMDA, only after which we commenced our construction activities.</li> <li>• Subsequently upon completion, the project had secured itself with Completion Certificate and CTO. Upon formation of a Residents Association, the overall property was handed over to this Association as well in the year 2021.</li> <li>• In lieu of the above, we would like to inform you that the project had secured itself with a prior Composite Clearance for EIA+CRZ from MoEF&amp;CC, Delhi in 2015, only after which did the construction activities commence.</li> <li>• In lieu of the above, we request you to kindly consider our reply and close our file in reference to the subject project.</li> </ul> <p>The Committee carefully examined the replies given by the PP and noted that the PP has obtained EC&amp;CRZ clearance from MoEF&amp;CC. The Committee, therefore, decided that the fact may be</p> |
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|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>recorded and file may be closed, as no further action is required.</p> <p>After detailed discussions, the authority decided to accept the decision of SEAC and also decided that the file may be closed &amp; recorded, as no further action is required.</p> <p>In view of the above, authority has decided to request the Member Secretary, SEIAA to communicate the said decision of the authority to the project proponent. Hence, the file may be closed &amp; recorded.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2. | <p>File No: 10223</p> <p>Proposed expansion of existing Steel plant at S.F.Nos. 352, 353/1,2, 379/1pt, 379/2pt, 380pt, 382/1pt, 382/3 pt, Nallur Village &amp; S. F. No. 50/1pt of Kunnamalai Village, Paramathi Velur Taluk, Namakkal District, Tamil Nadu by M/s. Sri Vela Smelters Private Limited – Request for surrender of ToR issued under violation category .</p> <p>Earlier the Project Proponent's letter requesting surrender of <b>ToR issued under violation category</b> vide <b>T.O Lr. No. SEIAA – TN/F.No.10223/SEAC/3(a)/ToR – 1568/2023</b>. Dt:27.09.2023 was placed in the 740<sup>th</sup> meeting of SEIAA held on 19.07.2024. The SEIAA noted that the PP has made representation to the SEIAA vide letter dated 10.07.2024 stating as follows:</p> | <p><i>We have submitted a Terms of Reference (ToR) proposal vide reference (1) &amp; (2) above for before the proposed expansion of Steel Melting Shop &amp; Steel Rolling Mill at the above said location towards manufacturing of MS Billets - 1,20,000 TPA, Steel Rods &amp; MS Flats, Angles, Rods &amp; Squares - 1,50,000 TPA. This expansion was submitted considering our future expansion for next 10 - 15 years. Subsequently SEIAA has granted Terms of Reference - under violation category (TOR) approval for the said proposal vide reference (3) cite above. Meanwhile, MOEF&amp;CC vide reference (3) have published an amendment to the EIA Notification which states "Secondary Metallurgical processing industry with process involving melting (Gas/Electricity based Furnaces) of non-toxic metals more than 60,000 TPA (0.06 MTPA) upto 1,20,000 TPA (0.12 MTPA) shall be appraised under B2 category wherein Public Hearing &amp; EIA study is not required for obtaining Environmental Clearance".</i></p> |



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*Therefore, considering the Time & Financial Constraints, we would like to surrender the TOR issued for our expansion proposal and planning to submit a new proposal seeking EC expansion of Steel Rolling Mill & Steel Melting Shop in the above said location towards manufacturing of MS Billets & Steel Rods/Structural Components less than 1,20,000 TPA capacity. Upon deciding the revised production capacity, we will communicate and apply for Fresh EC Proposal.*

*We request your good office to accept our request our **surrendering TOR approval** and do the needful. This is for your information & records.*

In view of the above, the SEIAA decided to forward the subject to SEAC on receipt of online application in Form 11 from the PP.


Hence the subject was placed in this **491<sup>st</sup> meeting of SEAC held on 14.08.2024**. As per the latest EIA Notification S.O 2215 (E) dated 07.06.2024, under the category **3(a) - Metallurgical industries (ferrous & nonferrous)** in column (4) it is stated as, 3(a) (ii) Processes involving melting of nontoxic metals

| Fuel in the furnace        | Category B2                       | Category B1      |
|----------------------------|-----------------------------------|------------------|
| 1. Solid or liquid fuel    | $\geq 0.03$ MTPA to $< 0.06$ MTPA | $\geq 0.06$ MTPA |
| 2. Gas fuel or electricity | $\geq 0.06$ MTPA to $< 0.12$ MTPA | $\geq 0.12$ MTPA |


Based on the presentation and documents furnished by the proponent and based on the EIA Notification S.O 2215 (E) dated 07.06.2024, SEAC confirmed that the unit of the PP under appraisal **with the existing capacity does not require EC**. Therefore, the Committee decided to recommend to SEIAA to accept the surrender of the **ToR issued under violation category** vide **T.O Lr. No. SEIAA – TN/F.No.10223/SEAC/3(a)/ToR – 1568/2023**. PP may apply for EC as and when there is capacity expansion as per the requirement of aforesaid Notification.

Now the subject was placed in in this **752<sup>nd</sup> meeting of SEIAA held on 03.09.2024**. The SEIAA accepted the surrender of the **ToR issued under violation category** vide **T.O Lr. No. SEIAA – TN/F.No.10223/SEAC/3(a)/ToR – 1568/2023** as recommended by SEAC.

3. File No: 372  
Existing Residential Apartment Building complex in S.F. No. 375/5B (Pt), 376/1B (Pt), 376/2B (Pt), 377/3 (Pt) of Keeranatham Village, Annur Taluk, Coimbatore District, Tamil Nadu by M/s. KGISL

  
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Technologies and Infrastructures Private Limited - For Environmental Clearance under violation category. (SIA/TN/MIN/423025/2023)

The subject was placed in the 752<sup>nd</sup> Authority meeting held on 03.09.2024. The authority noted that the subject was appraised in the 491<sup>st</sup> SEAC meeting held on 14.08.2024. In this circumstance, SEAC unable to proceed. Hence, SEIAA could get following clarification from the Hon'ble NGT(SZ):

Earlier, the Hon'ble NGT(SZ) has passed an Order in O.A. No. 74 of 2017 dated 21.01.2020 which reads as follows:

- "36. The area in question is a developing area in Coimbatore. One cannot believe for moment that project could be completed and sold for lesser amount. Further, applying the principle of "Polluter Pays" and also considering the manner in which environmental compensation has to be fixed as has been held in Godavarman's case, it must be deterrent in nature and it must take into account loss of service to ecology and the cost of restoration and that must be non profitable in the nature. Even assuming that each flat is sold for minimum of Rs.35 lakhs then the approximate value comes to Rs.152.25 crores and as has been held in the decision report in S.P. Muthuraman's case and also Goel Ganaga's case, if 5% of the amount of the project cost is calculated, then it will come to Rs.7.61 crores. However, that alone will not be sufficient until the loss of ecology has been assessed by the authorities. Though there is a provisions as to how the environmental compensation has to be fixed under para 5 of the Notification dated 14.03.2017, we feel that it will not fetter the power of the Tribunal to appoint an independent committee to assess the same. The committee can take note of guidelines provided in the notification for this purpose.*
- 37. So considering these aspects we feel it appropriate that fifth respondent is directed to pay an interim compensation of Rs.8 crores and that amount can be deposited before the CPCB within a period of two months and the same can be utilized by the CPCB for restoration of ecology lost.*
- 38. Further, in order to assess the actual compensation payable we constitute a committee comprising of CPCB, SPCB, SEIAA, Regional Office of MoEF, Council for Scientific and Industrial Research and IIT, Chennai. SPCB will be the nodal agency for coordination and providing necessary logistics for this purpose and the committee shall submit a report within a period of three months to this Tribunal through e-mail at [ngtszfiling@gmail.com](mailto:ngtszfiling@gmail.com)."*



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Based on the above, the Hon'ble NGT(SZ) has constituted a committee comprising of CPCB, SPCB, SEIAA, Regional Office of MoEF, Council for Scientific and Industrial Research and IIT, Chennai to determine the quantum of Environmental Compensation to be levied on Project Proponent for the above said violation. The Hon'ble NGT(SZ) has also directed that the quantum of Environmental Compensation will be finalized by the above said committee.

**In view of the above, SEIAA may file a clarification petition before the Hon'ble NGT(SZ) seeking clarification on the following:**

**(A) In cases involving violation, the environmental compensation will have to be determined and the PP has to submit Bank Guarantee for the amount so determined, as per the guidelines provided in the MoEF&CC Notification dated 14.03.2017, before EC is issued. In this case, the environment compensation is yet to be decided by the committee constituted by the Hon'ble Tribunal. Against the background, whether the SEIAA can grant EC as per the directions of the Hon'ble NGT(SZ) Order dated 13.05.2024 in Miscellaneous Application No.04 of 2024 in Original Application No.74 of 2017 (SZ), treating the amount of Rs. 8 crores deposited with CPCB as environment compensation.**

(or)


**(B) Whether the SEIAA should await the final decision of the committee constituted by the Hon'ble NGT(SZ) vide its Order dated 21.01.2020 in O.A. No. 74 of 2017 to determine the Environmental Compensation as per the guidelines provided in the MoEF&CC Notification dated 14.03.2017 before proceeding further.**

In view of the above, SEIAA decided to file a counter affidavit to the Hon'ble NGT (SZ) explaining the whole history of the said case. Earlier, the PP has submitted bank guarantee of Rs. 6.80 crores to the TNPCB (BG NO. T20GPE240755001, dated: 15.03.2024) as per the recommendations of the SEAC sub-committee based on the MoEF&CC Notification dated 14.03.2017. The amount shall be utilized for the ecological damage remediation plan, Natural resource augmentation plan & Community resource augmentation plan. The Bank Guarantee will be released to the PP after the completion of the said activity by the PP within the time limit.

In the meantime, The Hon'ble NGT in its order dated 13.05.2024 had directed the PP to deposit a sum of Rs. 8 Crores with CPCB within a period of two weeks. Under the circumstances, the PP has requested SEIAA to release/return the Bank Guarantee of Rs. 6.8 Crores already deposited with TNPCB.

  
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A letter was addressed to The Chairperson, TNPCB vide Lr. No. SEIAA-TN/F.No.372/2023/BG/ dated: 11.06.2024 requesting to return the bank guarantee submitted by the project proponent for an amount of Rs.6,80,00,000/- in order to enable the PP to submit the Bank Guarantee as directed by the Hon'ble NGT (SZ) in it's order dated: 13.05.2024 with CPCB in the Miscellaneous Application No.04 of 2024 in original Application No. 74 of 2017.

SEIAA noted that as per the reply furnished by the PP, the sum of Rs.8 Crores had been remitted to CPCB in compliance of the directions issued by the Hon'ble NGT (SZ).

Further, the Hon'ble NGT has passed an Order dated 19.07.2024 in Appeal No.39 of 2024 (SZ) which reads as follows:

*"The learned counsel appearing for the appellant would state that a sum of Rs.8 Crores, as directed by the Hon'ble Supreme Court, has already been deposited. If the additional particulars, as required by the SEIAA – Tamil Nadu is furnished, the SEIAA – Tamil Nadu may consider the application and pass appropriate orders."*

In view of the above, SEIAA accepts the decision of SEAC and request the Member Secretary, SEIAA to file a clarification petition before the Hon'ble NGT(SZ) seeking clarification on the following:

(A) In cases involving violation, the environmental compensation will have to be determined and the PP has to submit Bank Guarantee for the amount so determined, as per the guidelines provided in the MoEF&CC Notification dated 14.03.2017, before EC is issued. In this case, the environment compensation is yet to be decided by the committee constituted by the Hon'ble Tribunal. Against the background, whether the SEIAA can grant EC as per the directions of the Hon'ble NGT(SZ) Order dated 13.05.2024 in Miscellaneous Application No.04 of 2024 in Original Application No.74 of 2017 (SZ), treating the amount of Rs. 8 crores deposited with CPCB as environment compensation.

(or)

(B) Whether the SEIAA should await the final decision of the committee constituted by the Hon'ble NGT(SZ) vide its Order dated 21.01.2020 in O.A. No. 74 of 2017 to determine the Environmental Compensation as per the guidelines provided in the MoEF&CC Notification dated 14.03.2017 before proceeding further.

4. File No: 845

Proposed Black Granite & Quartzo-Feldspathic Gneiss quarry lease area over an extent of 40.13.05 Ha (Government Poramboke land) at S.F.Nos. 58/1 (Pothuvai Village 10.44.0 Ha) & 135/1

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(Pazhavalam Village 29.69.05 Ha) of Gingee Taluk, Villupuram District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited - For Environmental Clearance. (SIA/TN/MIN/444029/2023)

The subject was placed in the 752<sup>nd</sup> Authority meeting held on 03.09.2024. After detailed discussions, the authority noted as follows:

1. Earlier, the subject was placed in the 674<sup>th</sup> authority meeting held on 20.11.2023. The authority noted that the subject was appraised in the 420<sup>th</sup> SEAC meeting held on 02.11.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.

After detailed discussions and based on the details provided by the proponent and on review of the KML file uploaded in the Parivesh portal, the Authority has decided to sought the following additional details from the Project Proponent:

- 1) It is mentioned that the depth of Water table is at 15m-13m BGL and the depth of Quarrying is 30m. As mining at 30mtrs will intersect the water table at 13m – 15m BGL what will be the impact on the water table due to the said quarrying activity? what are the innovative, sustainable and precautionary principles additionally adopted to prevent disturbance to ground water table and to support effective ground water management.
- 2) The PP shall conduct Hydrogeological study by using Govt. authorized expert/reputed institution in the said quarry and furnish the report.
- 3) It is mentioned that the nearest habitations such as Pattuvoy, Ramarajapettai, Palavalam, Tadakam, Anukkamalai are located at a distance of 0.36Km, 0.51Km, 0.52Km, 0.55Km & 1.48Km respectively. What will be the impact on the nearest habitations due to the said quarrying activity?
- 4) It is mentioned that the Reserved/Protected forests such as Pakkammalai Reserve Forest, Pulanji Malai Reserve Forest are located at a distance of 0.80Km, 2.88Km respectively. What will be the impact on the nearest Reserved/Protected forests due to the said quarrying activity?
- 5) It is mentioned that the Water Bodies such as Pattuvoy Lake located adjacent to the quarry site, Palavalam Lake & Vettavalam Lake are located at a distance of 0.06Km & 1.94Km respectively. What will be the impact on the nearest water bodies and also mention the impact on the Livelihood & Ground water due to the said quarrying activity?

2. The proponent vide letter dated 30.08.2024 has replied to the above details sought by SEIAA.

The PP furnished the following reply:

  
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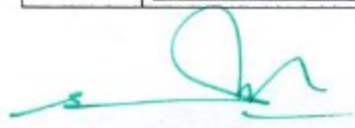
| Sl. No. | SEIAA query                                                                                                                                                                                                                                                                                                                                                                                                                                 | PP's Reply                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| 1.      | It is mentioned that the depth of Water table is at 15m-13m BGL and the depth of Quarrying is 30m. As mining at 30mtrs will intersect the water table at 13m – 15m BGL what will be the impact on the water table due to the said quarrying activity? what are the innovative, sustainable and precautionary principles additionally adopted to prevent disturbance to ground water table and to support effective ground water management. | The quarry is hilly terrain and the height of the hill is 100 m from the ground level. Whereas TAMIN has proposed to mine up to a depth of 30 m from the top of the hill. As there is no proposal to go beyond the depth of 30 mt from top of the hill, there will be no chance to intersect the ground water as well as there will be no impact on groundwater table due to the mining operations.<br><br>In this connection, TAMIN has engaged PWD, Ground Water Division to study the comprehensive hydrogeological study of the area and they have informed in their study report that the water table conditions will not be affected due to the mining activities. |
| 2.      | The PP shall conduct Hydrogeological study by using Govt. authorized expert/reputed institution in the said quarry and furnish the report.                                                                                                                                                                                                                                                                                                  | As directed TAMIN has engaged PWD, Ground Water Division to study the hydrogeological study of the area.<br><br>The Executive Engineer, Ground Water Division, Cuddalore has carried out the hydrogeological study in the said area and submitted report vide their Letter. No.42M/F-TAMIN/DB/JDO/2024, dated 21.08.2024.<br><br>Copy of the report is enclosed.                                                                                                                                                                                                                                                                                                         |
| 3.      | It is mentioned that the nearest habitations such as Pattuvoy, Ramarajapettai, Palavalam, Tadakam, Anukkamalai are located at a distance of 0.36Km, 0.51Km, 0.52Km, 0.55Km & 1.48Km respectively.                                                                                                                                                                                                                                           | There may be the following impact on nearest habitation during the course of Granite quarrying operation due to drilling, blasting, loading and transportation.<br><br><b>Impact: -</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

  
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|    | <p>What will be the impact on the nearest habitations due to the said quarrying activity?</p>                                                                                                                        | <p>1. Noise &amp; Vibration<br/>2. Air</p> <p><b>Mitigation measures: -</b></p> <p><b>Noise &amp; Vibration: -</b><br/>TAMIN will engage diamond wire-saw cutting for primary cutting and will use the Ca (OH)<sub>2</sub> for Secondary splitting. Granite mining is concerned less blasting will give more production so as to get good quality of undamaged (avoiding blasting crack) dimension stones and these dimensional blocks can only be sold. Hence, in order to minimize the blasting, TAMIN will follow the above method and which will avoid noise, dust and vibration. Whenever, the blasting is required, TAMIN will use the NONEL or Electronic Detonator and this kind of explosive will minimize vibration.</p> <p><b>Air: -</b><br/>TAMIN will engage wet drilling method while drilling. Water sprinkling on haul roads and excavated minerals, green belt development, periodic maintenance of vehicles will be done properly. The above mitigation measures will reduce the impacts to the nearest habitations.</p> |
| 4. | <p>It is mentioned that the Reserved/Protected forests such as Pakkammalai Reserve Forest, Pulanji Malai Reserve Forest are located at a distance of 0.80Km, 2.88Km respectively. What will be the impact on the</p> | <p><b>Impact: -</b><br/>There may be a chance that the waste and dust that comes out from mining pollutes the environment and affects the nearby species.</p> <p><b>Mitigation measures: -</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



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|    | <p>nearest Reserved/Protected forests due to the said quarrying activity?</p>                                                                                                                                                                                                                                                                                        | <p>TAMIN will engage diamond wire-saw cutting for primary cutting and will use the Ca(OH)<sub>2</sub> for Secondary splitting.</p> <p>Further, TAMIN will engage wet drilling Tamrac Drilling machine for drilling purpose. The above method of mining will minimize the dust during the course of mining.</p> <p>However, TAMIN will generate more plantation and fencing all along the boundary of the lease hold area so as to prevent the flying dust from the lease boundary to nearby forest.</p> <p>The Pakkamalai RF is 800mt away from the periphery of the lease area. The mining operation will be carried out during the general shift only.</p> <p>Considering the above, there will be no chance on impact on RF.</p> |
| 5. | <p>It is mentioned that the Water Bodies such as Pattuvoy Lake located adjacent to the quarry site, Palavalam Lake &amp; Vettavalam Lake are located at a distance of 0.06Km &amp; 1.94Km respectively. What will be the impact on the nearest water bodies and also mention the impact on the Livelihood &amp; Ground water due to the said quarrying activity?</p> | <p><b>Impact: -</b></p> <p>During the course of mining, there may be chance to roll down the granite waste from the mine pit.</p> <p>During the course of mining, there may be chance to roll down the granite waste from the mine pit to lake.</p> <p>During the raining season water may leaching soil and entered to Lake with soil.</p> <p><b>Mitigation measures: -</b></p> <p>TAMIN will fence all along the boundary of lease hold area and inside to of the fencing a parapet wall / bund will be formed to prevent the roll down granite waste if any.</p>                                                                                                                                                                 |

  
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|  |  | <p>Further, 50mt safety distance will be provided adjacent to the lake area and before 50 mt safety distance within the lease area, TAMIN will make trenches to prevent the erosion of water along with soil so as to avoid the accumulation of soil in the lake.</p> <p>TAMIN will undertake adequate safeguard measures during extraction of material and ensure that due to this activity, the hydrogeological regime of the surrounding area shall not be affected.</p> <p>Regular monitoring of ground water level and quality shall be carried out around the mine lease area during the mining operation.</p> |
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In view of the above, the Authority after examining the reply/details furnished by the proponent and also taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of 90,298 m<sup>3</sup> ROM which includes 9030 m<sup>3</sup> of Black Granite Recovery (@10%) & 81,268 m<sup>3</sup> of Granite Rejects (@90%) and 35,96,021 m<sup>3</sup> of Quartzo-Feldspathic Gneiss up to the ultimate depth of 30m and the annual peak production should not exceed 1811 m<sup>3</sup> of Black Granite Recovery and 7,52,124 m<sup>3</sup> of Quartzo-Feldspathic Gneiss. This is also subject to the conditions imposed by SEAC, normal conditions stipulated by MOEF&CC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.

1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.
2. **The EC granted is valid only for Black Granite 9030 m<sup>3</sup> @ 10% recovery.**
3. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years and also during the mine plan period, till the project life so as to review the EC conditions and to ensure that they have all been adhered to and implemented.



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4. The project proponent shall submit a Certified Compliance Report obtained from IRO of MoEF&CC to the monitoring, regulatory and other concerned authorities including SEIAA, while seeking a renewal of the mining plan to cover the project life.
5. There should be regular monitoring of air quality, water quality, ground water level and noise quality and reports regarding the same should be submitted to TNPCB, SEIAA & IRO of MoEF&CC once in every 6 months.
6. The proponent shall strictly adhere to the mining plan and half yearly and annual returns shall be submitted to the Director of Geology and Mining Department with copy marked to TNPCB, SEIAA & IRO of MoEF&CC.
7. Biodiversity in and around the project area should be monitored frequently and detailed biodiversity report should be submitted every year to SEIAA & IRO of MoEF&CC.
8. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP and as per the amount committed and approved in EC for EMP. Status of progressive mine closure and green belt implementation should be included in the half yearly compliance report submitted to TNPCB, SEIAA & IRO of MoEF&CC.
9. 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.
10. 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.
11. The project proponent shall store/dump the granite waste generated within the earmarked area of the project site and utilize the same for mine closure as per the approved mine closure plan.

|    |                                                                                                                                                                     |      |                                                                                                                                                                                                                                                        |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. | Proposed Rough stone & gravel quarry lease over an extent of 1.82.50 Ha at S.F.No. 281/2, 282/1, 283/1A, 283/1B, 283/1C, 283/2A, 283/2B, 283/2C, 283/4A & 283/4B of | 9956 | Earlier, the subject was placed in the 637 <sup>th</sup> authority meeting held on 11.07.2023. The authority noted that the subject was appraised in the 387 <sup>th</sup> SEAC meeting held on 28.06.2023. SEAC has furnished its recommendations for |
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| <p>Velambur Bit-I Village, Peraiyur Taluk, Madurai District, Tamilnadu by Tmt.J.Selvi- For Environmental Clearance.<br/>(SIA/TN/MIN/423685/2023)</p> |  | <p>granting Environmental Clearance subject to the conditions stated therein.</p> <p>The Authority, after carefully examining the KML file and the recommendations/ conditions specified by the SEAC, noted that <b>habitations are located within a distance of 300m</b> from the proposed project site. Therefore, the authority after detailed discussions decided to consider the proposal after obtaining the following particulars from the project proponent:</p> <p>i) As per Tamil Nadu Minor Mineral Concession Rules, 1959 under section V – Miscellaneous in para 36, General restrictions in respect of quarrying operations; (1-A) (a) &amp; (c) states that:</p> <p>(a) <i>“No lease shall be granted for quarrying stone within 300 metres (three hundred metres) from any inhabited site:</i></p> <p><i>Provided that the existing quarries which are subsisting under current leases shall be entitled for continuance till the expiry of the lease period. The lessees whose quarries lie within a radius of 300 metres from the inhabited site shall undertake blasting operations only after getting permission of the Director of Mines Safety, Chennai.....”</i></p> <p>(c) <i>“No new layout, building plans falling within 300 metres from any quarry should be given approval by any agency unless prior clearance of the Director of Geology and Mining is obtained. On</i></p> |
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*receipt of proposals for according clearance, the Director of Geology and Mining shall decide upon the continuance or closure, as the case may be of any quarry which is situated within 300 metres from the now layout, building sought for such "clearance".*

**In view of the above, the proponent shall obtain NOC from Director, Department of Geology and Mining for carrying out mining & blasting operations.**

- ii) The proponent shall erect high metal sheet fencing around the project site such that there will be no disturbance to the people/habitations situated in the vicinity of the project area and furnish proofs for the same.

Subsequently, the proponent submitted a reply vide letter dated.29.08.2024.

The proposal along with the reply furnished by the proponent is placed in this 752<sup>nd</sup> Authority meeting. The Authority noted from the details submitted by the proponent that he/she has revised the Mining Plan. In the reply, it is stated that the mining plan is revised by ensuring that there are no habitations within 300m radius from the proposed project area. Further, the Authority noted that there is revision in the Project Extent, Survey Numbers, Geological Reserves, Mineable Reserves, Depth of Quarrying, Number of lorry loads, etc.



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|  |  |  | In view of the above, the Authority decided to refer back the proposal to SEAC for seeking remarks on the revised mining plan submitted by the proponent. |
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**Annexure 'A'**

**a) EC Compliance**

1. The Environmental Clearance is accorded based on the assurance from the project proponent that there will be full and effective implementation of all the undertakings given in the Application Form, Pre-feasibility Report, mitigation measures as assured in the Environmental Impact Assessment/ Environment Management Plan and the mining features including Progressive Mine Closure Plan as submitted with the application.
2. All the conditions as presented by the proponent in the PPT during SEAC appraisal should be addressed in Full.
3. The proponent shall submit Compliance Reports on the status of compliance of the stipulated EC conditions including results of monitored data. It shall be sent to the respective Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA).
4. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

**b) Applicable Regulatory Frameworks**

5. The project proponent shall strictly adhere to the provisions of Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006, Wildlife Protection Act, 1972, Forest Conservation Act, 1980, Biodiversity Conservation Act, 2016, the Biological Diversity Act, 2002, Biological diversity Rules, 2004 & TN Forest Act, 1882 and Rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter

**c) Safe mining Practices**

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6. The AD/DD, Dept. of Geology & Mining shall ensure operation of the proposed quarry after the submission slope stability study conducted through the reputed research & Academic Institutions such as NIRM, IITs, NITS Anna University, and any CSIR Laboratories etc.
7. The AD/DD, Dept. of Geology & Mining & Director General of Mine safety shall ensure strict compliance and implementation of bench wise recommendations/action plans as recommended in the scientific slope stability study of the reputed research & Academic Institutions as a safety precautionary measure to avoid untoward accidents during mining operation.
8. A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling unit or other structures, and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendations of SEAC depending on specific local conditions.

**d) Water Environment – Protection and mitigation measures**

9. The proponent shall ensure that the activity does not disturb the water bodies and natural flow of surface and groundwater, nor cause any pollution, to water sources in the area.
10. The proponent shall ensure that the activities do not impact the water bodies/wells in the neighboring open wells and bore wells. The proponent shall ensure that the activities do not in 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.



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

**e) Air Environment – Protection and mitigation measures**


17. The activity should not result in CO<sub>2</sub> release and temperature rise and add to micro climate alternations.
18. The proponent shall ensure that the activities undertaken do not result in carbon emission, and temperature rise, in the area.
19. The proponent shall ensure that Monitoring is carried out with reference to the quantum of particulate matter during excavation; blasting; material transport and also from cutting waste dumps and haul roads.

**f) Soil Environment – Protection and mitigation measures**

20. The proponent shall ensure that the operations do not result in loss of soil biological properties and nutrients.
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

  
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at earmarked dump site(s) only. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geotextile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.

28. Activities should not result in invasion of site by exotic and alien plant and animal species and disturb the native biodiversity and soil micro flora and fauna.

**g) Noise Environment – Protection and mitigation measures**

29. The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
30. The sound at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Hence, the PP shall ensure that the biological clock of the villages are not disturbed because of the mining activity.

**h) Biodiversity - Protection and mitigation measures**

31. The proponent should ensure that there is no disturbance to the agriculture plantations, social forestry plantations, waste lands, forests, sanctuary or national parks. There should be no impact on the land, water, soil and biological environment and other natural resources due to the mining activities.
32. No trees in the area should be removed and all the trees numbered and protected. In case trees fall within the proposed quarry site the trees may be transplanted in the Greenbelt zone. The proponent shall ensure that the activities in no way result in disturbance to forest and trees in vicinity. The proponent shall ensure that the activity does not disturb the movement of grazing animals and free ranging wildlife. The proponent shall ensure that the activity does not disturb the biodiversity, the flora & fauna in the ecosystem. The proponent shall ensure that the activity does not result in invasion by invasive alien species. The proponent shall ensure that the activities do not disturb the resident and migratory birds. The proponent shall ensure that the activities do not disturb the vegetation and wildlife in the adjoining reserve forests and areas around.
33. The proponent shall ensure that the activities do not disturb the agro biodiversity and agro farms. Actions to be taken to promote agroforestry, mixed plants to support biodiversity conservation in the mine restoration effort.



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34. The proponent shall ensure that all mitigation measures listed in the EIA/EMP are taken to protect the biodiversity and natural resources in the area.
35. The proponent shall ensure that the activities do not impact green lands/grazing fields of all types surrounding the mine lease area which are food source for the grazing cattle.

**i) Climate Change**

36. The project activity should not in any way impact the climate and lead to a rise in temperature.
37. There should be least disturbance to landscape resulting in land use change, contamination and alteration of soil profiles leading to Climate Change.
38. Intensive mining activity should not add to temperature rise and global warming.
39. Operations should not result in GHG releases and extra power consumption leading to Climate Change.
40. Mining through operational efficiency, better electrification, energy use, solar usage, use of renewable energy should try to decarbonize the operations.
41. Mining Operation should not result in droughts, floods and water stress, and shortages, affecting water security both on site and in the vicinity.
42. Mining should not result in water loss from evaporation, leaks and wastage and should support to improve the ground water.
43. Mining activity should be flood proof with designs and the drainage, pumping techniques shall ensure climate-proofing and socio-economic wellbeing in the area and vicinity.

**j) Reserve Forests & Protected Areas**


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



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51. The project activities should support the use of renewables for carbon capture and carbon storage in the project site and forest surrounds.
52. The project activities should not result in changes in forest structure, habitats and genetic diversity within forests.

**k) Green Belt Development**

53. The proponent shall ensure that in the green belt development more indigenous trees species (Appendix as per the SEAC Minutes) are planted.
54. The proponent shall ensure the area is restored and rehabilitated with native trees as recommended in SEAC Minutes (in Appendix).

**l) Workers and their protection**

55. The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying /Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.
56. The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.
57. The workers shall be employed for working in the mines and the working hours and the wages shall be implemented/enforced as per the Mines Act, 1952.

**m) Transportation**

58. No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a bypass road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.



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59. The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

**n) Storage of wastes**

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

**o) CER/EMP**

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

62. The EMP shall also be implemented in consultation with local self-government institutions & Govt. departments.

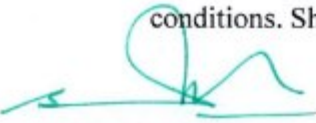
63. The follow-up action on the implementation of CER Shall be included in the compliance report.

**p) Directions for Reclamation of mine sites**

64. The mining closure plan should strictly adhere to appropriate soil rehabilitation measures to ensure ecological stability of the area. Reclamation/Restoration of the mine site should ensure that the Geotechnical, physical, chemical properties are sustainable that the soil structure composition is buildup, during the process of restoration.

65. The proponent shall ensure that the mine closure plan is followed as per the mining plan and the mine restoration should be done with native species, and site restored to near original status. The proponent shall ensure that the area is ecologically restored to conserve the ecosystems and ensure flow of goods and services.

66. A crucial factor for success of reclamation site is to select sustainable species to enable develop a self-sustaining eco system. Species selected should easily establish, grow rapidly, and possess good crown and preferably be native species. Species to be planted in the boundary of project site should be un palatable for cattle's/ goats and should have proven capacity to add leaf-litter to soil and decompose. The species planted should be adaptable to the site conditions. Should be preferably pioneer species, deciduous in nature to allow maximum leaf-

  
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litter, have deep root system, fix atmospheric nitrogen and improve soil productivity. Species selected should have the ability to tolerate altered pit and toxicity of and site. They should be capable of meeting requirement of local people in regard to fuel fodder and should be able to attract bird, bees and butterflies. The species should be planted in mixed association.


67. For mining area reclamation plot culture experiments to be done to identify/ determine suitable species for the site.
68. Top soil with a mix of beneficial microbes (Bacteria/Fungi) to be used for reclamation of mine spoils. AM Fungi (Arbuscular mycorrhizal fungi), plant growth promoting Rhizo Bacteria and nitrogen fixing bacteria to be utilized.
69. Soil and moisture conservation and water harvesting structures to be used where ever possible for early amelioration and restoration of site.
70. Top soil is most important for successful rehabilitation of mined sites. Topsoil contains majority of seeds and plant propagation, soil microorganism, Organic matter and plant nutrients. Wherever possible the topsoil should be immediately used in the area of the for land form reconstruction, to pre mining conditions.
71. Over burdens may be analyzed and tested for soil characteristics and used in the site for revegetation. Wherever possible seeds, rhizome, bulbs, etc of pioneering spices should be collected, preserved and used in restoring the site.
72. Native grasses seeds may be used as colonizers and soil binders, to prevent erosion and allow diverse self- sustaining plant communities to establish. Grasses may offer superior tolerance to drought, and climatic stresses.
73. Reclamation involves planned topographical reconstruction of site. Care to be taken to minimize erosion and runoff. Topsoils should have necessary physical, 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.
74. Alkaline soils, acidic soils, Saline soils should be suitably treated/amended using green manure, mulches, farmyard manure to increase organic carbon. The efforts should be taken to landscape and use the land post mining. The EMP and mine closure plan should provide adequate budget for re-establishing the site to pre-mining conditions. Effective steps should be taken for utilization of over burden. Mine waste to be used for backfilling, reclamation, restoration, and rehabilitation of the terrain without affecting the drainage and water regimes.



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The rate of rehabilitation should be similar to rate of mining. The land disturbed should be reshaped for long term use. Mining should be as far as possible be eco-friendly. Integration of rehabilitation strategies with mining plan will enable speedy restoration.

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


### Annexure 'B'

#### Cluster Management Committee

1. Cluster Management Committee shall be framed which must include all the proponents in the cluster as members including the existing as well as proposed quarry.
2. The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc.,
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 & emergency management plan, fire safety & evacuation plan and sustainable development goals 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 in the EIA Report.
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 deliberate on the health of the workers/staff involved in the mining as well as the health of the public in the vicinity.

  
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### **Agriculture & Agro-Biodiversity**

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

### **Forests**


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

### **Water Environment**

19. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the entire mine lease period.
20. Erosion Control measures.
21. 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.

  
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22. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.
23. The project proponent shall study and furnish the details on potential fragmentation impact on natural environment, by the activities.
24. 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.
25. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.
26. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.
27. The EIA shall include the impact of mining activity on the following:
  - a) Hydrothermal/Geothermal effect due to destruction in the Environment.
  - b) Bio-geochemical processes and its foot prints including environmental stress.
  - c) Sediment geochemistry in the surface streams.

#### **Energy**

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

#### **Climate Change**

29. 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.
30. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock, soil health and physical, chemical & biological soil features.
31. Impact of mining on pollution leading to GHGs emissions and the impact of the same on the local livelihood.

#### **Mine Closure Plan**

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

**EMP**



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33. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued and the scope for achieving SDGs.
34. 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**

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

#### **Disaster Management Plan**

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

#### **Others**

37. 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.
38. 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.
39. 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, reduce carbon footprints and develop strategies for climate proofing and mitigation.
2. The proponent shall adopt strategies to reduce carbon & GHG emissions during operation (operational phase and building materials).

  
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3. The proponent shall adopt methodology to control thermal environment and other shocks in the building.
4. The proponent shall adopt strategies to ensure the buildings in blocks are not trapping heat to become local urban heat islands.
5. The proponent shall ensure that the building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues.
6. 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.
7. The proponent shall ensure that the buildings does not cause any damage to water environment, air quality and should be carbon neutral building.

**Health**

8. The proponent shall adopt strategies to maintain the health of the inhabitants within and in the vicinity.

**Energy**

9. The proponent shall adopt strategies to reduce electricity demand and consumption.
10. The proponent shall provide provisions for automated energy efficiency.
11. The proponent shall provide provisions for controlled ventilation and lighting systems.
12. The proponent shall provide adequate capacity of DG set (standby) for the proposed STP so as to ensure continuous and efficient operation.

**Regulatory Frameworks**

13. The proponent shall effectively implement and strictly adhere to 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.


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

**Database maintenance & audits**

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

  
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### **Biodiversity**

17. The proponent shall ensure that the proposed activities in no way result in the spread of invasive species.
18. 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.
19. The proponent shall ensure utmost safety for the existing biodiversity, trees, flora & fauna and the critically endangered species & endangered species shall not disturb under any circumstances.
20. 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.
21. The proponent shall adopt strategies to prevent birds getting hit by the high buildings.

### **Safety measures**

22. The proponent should develop an emergency response plan & safety evacuation plan (including disabled people) in addition to the disaster management plan.
23. All bio-safety standards, hygienic standards and safety norms of working staff to be strictly followed as stipulated in EIA/EMP.
24. The disaster management/disaster mitigation standards & fire safety standards as prescribed by competent authorities.
25. The proponent shall provide the emergency exit in the buildings.

### **Water/Sewage**

26. The proponent shall ensure that no untreated sewage is let outside the project site under any circumstances. Further, the treated water shall not be disposed off through any other means other than the permitted mode of disposal.
27. 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.
28. The proponent shall periodically test the treated sewage through TNPCB lab /NABL accredited laboratory and submit report to the TNPCB & IRO of MoEF&CC.
29. The proponent shall ensure that provision should be given for proper utilization of recycled water.
30. The project proponent shall adhere to storm water management plan as committed.

### **Parking**

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

**Solid waste Management**

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

33. 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**

34. The proponent shall strictly adhere to the EIA/EMP report.

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

**Others**

36. 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.


37. 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

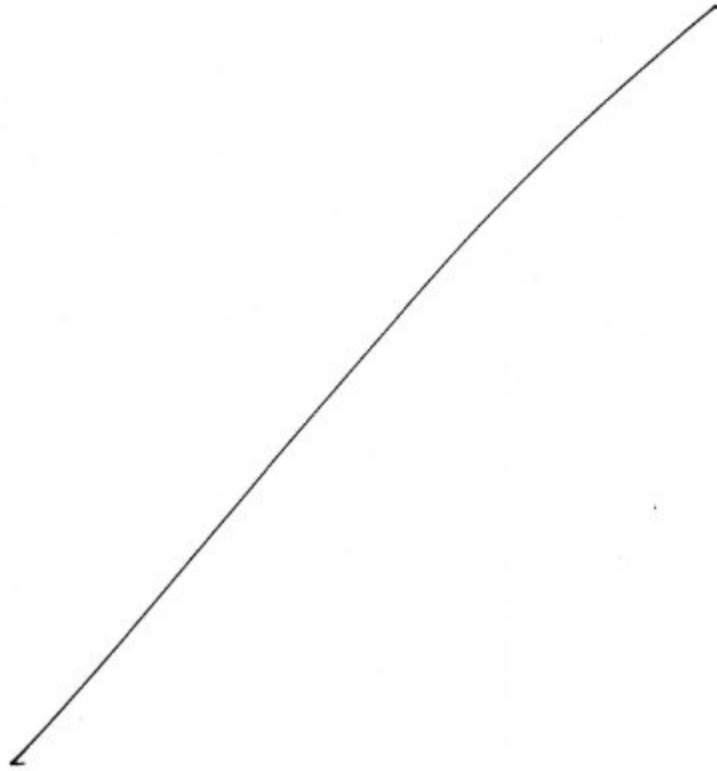
  
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support the climatic action to make it sustainable buildings.

10. The project proponent shall furnish the action taken to provide adequate parking space for visitors of all inmates including clean traffic plan.
11. The project proponent shall furnish the action taken to improve water usage efficiency in the building.
12. The project proponent shall conduct detailed study of biodiversity flora & fauna including invasives /endemic vulnerable species.
13. The project proponent shall furnish NOC obtained from competent authority that there is no encroachment of water bodies (including canals).
14. The project proponent shall furnish impact of Green House Gases emissions and climate change likely due to activities.
15. The project proponent shall conduct detailed soil investigation including microflora /fauna.
16. The project proponent shall study impact on livelihoods of locals.
17. The project proponent shall furnish List of trees available in the area.
18. The project proponent shall study impact of activities on water bodies/wetlands.
19. The project proponent shall conduct studies on invasive and alien species



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