

MINUTES

630th MEETING

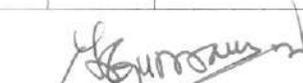
**STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY-TAMIL NADU**

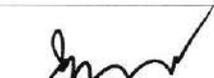
Date: 16.06.2023

**MINUTES OF THE 630th MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY HELD ON 16.06.2023.**

| Agenda No | Description | File No. | Minutes |
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| a) | Confirmation of the minutes of the 629 th meeting of the Authority held on 15.06.2023. | | The minutes of the 629 th meeting of the Authority held on 15.06.2023 was confirmed. |
| b) | The Action taken on the decisions of the 629 th meeting of the Authority held on 15.06.2023. | | The Member Secretary informed that 629 th Minutes uploaded in Parivesh website and action taken report will be putup ensuing meeting. |
| 1. | Existing lime Stone quarry (Azur Lime stone Mine) over an extent of 4.925 Ha falling in SF Nos. 209/3A, 3B, 3C, 5, 6, 7B, 8, 9, 10A, 10B, 11, 12, 13A, 13B, 14, 17, 18, 210/3, 4, 6, 7A, 7B & 9 (p) of Azur Village, Kunnam Taluk, Perambalur District, Tamil Nadu by M/s. Chettinad Cement Corporation Limited (CCCL) - for Terms of Reference "Under Violation". | 6392 | <p>The Authority noted that the subject was appraised in the 366th SEAC meeting held on 30.03.2023. SEAC decided to accept the project proponent's contention that no violation was involved in this case and therefore, SEIAA may accept the request of PP to withdraw his application seeking EC vide online proposal no. 64181/2017 Dt 24.04.2017. Subsequently, this subject was placed in the 613rd Authority meeting held on 21.04.2023. After detailed discussions, the Authority decided to defer the proposal and direct the PP to furnish the following additional documents</p> <ul style="list-style-type: none"> i) Copy of final mine closure plan and site restoration plan. ii) To furnish affidavit stating that the mine closure and site restoration would be completed as per approved final mine closure plan and site restoration plan as committed. <p>Now, the PP had submitted a reply as sought by the Authority vide letter dated:02.06.2023. Based on the Proponent's reply, this subject was placed in the 629th Authority meeting held on .06.2023. After detailed</p> |

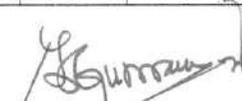

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| | | | discussions, the Authority decided that the application seeking EC vide online proposal no. 64181/2017 Dt 24.04.2017 under violation will be disposed after the receipt of action taken report as made out in the mine closure plan and the PP is requested to submit the proof for the same. |
| 2. | Proposed Rough Stone Quarry lease over an extent of 2.13.0Ha at S.F.No.75 of S.F.No.187/1A, 187/1B, 188 and 189 of Gopanapalli Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by M/s. A. S. Enterprises - for Environmental Clearance Amendment. | 8632 | <p>The Authority noted that earlier, the EC was accorded to the proponent vide Lr.No.SEIAA-TN/F.No.8632/EC/1(a)/5566/2022 dated.23.02.2023 for the quantity of 230340 Cu.m of rough stone.</p> <p>Now, the project proponent has applied seeking amendment of Environmental Clearance vide proposal No. SIA/TN/MIN/300732/2023N in regard to revise EMP cost in the EC granted.</p> <p>Based on the proponent's request, this subject was placed in the 629th Authority meeting held on 16.06.2023. The authority after detailed discussion has decided to forward the proposal to SEAC-TN to obtain remarks on the amendment requested by the PP.</p> |
| 3. | Proposed Red Earth and Pebbles quarry over an extent of 3.46.0 Ha in S.F.No. 4/1, Sorappattu Village, Marakkanam Taluk, Villupuram District, Tamil Nadu by Thiru Raphael Alphonse Nimalraj for Environmental Clearance | 9074 | <p>The Authority noted that this proposal was placed for reappraisal in the 332nd meeting of SEAC held on 25.11.2022 and SEAC decided to reiterate its recommendation already made in the 282nd Meeting of SEAC held on 04.06.2022 to the Authority for granting Environmental Clearance to the project subject to the conditions stated therein. Subsequently, this proposal was placed in the 577th Authority meeting held on 14.12.2022 & 15.12.2022. The Authority after detailed discussion decided to call for the following details from the project proponent.</p> <p>1. The PP shall obtain revised mining plan for the year wise production quantity as</p> |


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recommended, separately for the lease period of 3 years.

Based on the Proponent's reply, the proposal was placed in this 628th Authority meeting held on 14.06.2023.

After detailed discussions, the Authority taking into account the recommendation of SEAC and the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the restricted quantity of 14200m³ of Red Earth @ 40% recovery and 21300 m³ of Pebbles @ 60% recovery by restricting the depth of mining upto 2m Below Ground Level as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.

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 3 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.


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| | | | <ol style="list-style-type: none"> 3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life. 4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP. 5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login. 6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections. |
| 4. | Proposed Rough Stone and Gravel Quarry over an Extent 3.25.0ha at S.F.Nos. 116/1 (Part) & 116/2 (Part) of Panikkarkulam Village, Kayathar Taluk, Thoothukudi District, Tamil Nadu by Thiru.P. | 9755 | The Authority noted that this proposal was earlier placed for appraisal in the 372 nd meeting of SEAC held on 27.04.2023 and SEAC has furnished its recommendation to the Authority for granting Environmental Clearance to the project subject to the conditions stated therein. Subsequently, this proposal was placed in the 619 th Authority meeting held on |


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| | Sheik Dawood -For Environmental Clearance | <p>18.05.2023. The authority after detailed discussion decided to call for the following details from the project proponent.</p> <ol style="list-style-type: none"> 1. This is a B2 category project. The study in the Pre-feasibility report on Environmental impacts needs more details as follows, to cover project life. <ol style="list-style-type: none"> i. Impact on the local population due to the air pollution and dust. ii. Impact on the water quality, land quality in terms of pollution. iii. Impact on soil erosion. iv. Impact on health of workers and people around. Particularly skin, respiratory tract problems leading to Bronchitis and neurological issues, ulcer, cardiovascular, pulmonary diseases, asthma and other air borne disease. v. Detailed and sound Environmental Management Plan and policy to achieve scientific and sustainable mining. Action for protection and conservation of the Natural resources. vi. Impact on vegetation, wildlife. List of major flora, fauna and trees. vii. Arrangement for safe drinking water to the workers. viii. Anticipated total particulate matters and PM₁₀ concentration during project period. ix. Impact on waterbodies, lakes, borewells and water table. |
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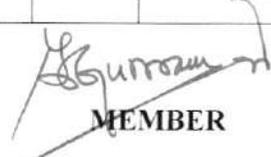
- x. What is the restoration program and plan for mine pit closure.
- xi. Impact on temperature, Climate change and GHG emissions.
- xii. Impact on Agriculture and Horticulture.
- xiii. Impact on Noise pollution.
- xiv. Biomagnification effect through food chain on human, Grazing animals and wildlife.

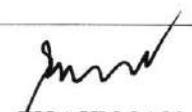
Now, the PP had submitted a reply for the details sought by the Authority vide letter dated: 08.06.2023. Hence, the proposal was placed in this 628th Authority meeting held on 14.06.2023.

After detailed discussions, the Authority taking into account the recommendation of SEAC and considering the safety aspects, depth of water table and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the restricted quantity of 5,46,002m³ of Rough Stone & 54,768m³ of Gravel by restricting the depth of mining upto 30m Below Ground Level as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.

- I. 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.


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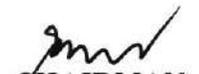

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| | | <ol style="list-style-type: none">2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all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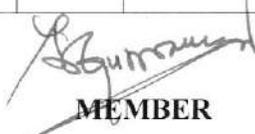

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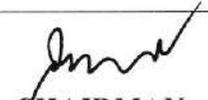

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| 5. | Proposed Gravel quarry over an extent of 3.28.0 Ha in S.F.Nos. 222/4, 222/6, 225/1, 226/1, 226/2, 227/4 & 227/5 of Vellaiyampatti Village, Salem Taluk, Salem District, Tamil Nadu by Thiru. M. Bharanidharan – For Environmental Clearance. | 9035 | <p>Earlier, the proposal was placed in the 602nd authority meeting held on 14.03.2023. The authority noted that the subject was appraised in the 356th SEAC meeting held on 16.02.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>The authority after detailed deliberations, decided to consider the proposal after obtaining the following details from the project proponent:</p> <ul style="list-style-type: none"> i) Impact of mining on the agricultural fields, vegetation, soil & subsoil, humus, biodiversity in the vicinity of the proposed site. ii) Impact of mining on the aquifers, water bodies, wells & wetlands in the vicinity of the proposed site. iii) The impact on soil micro-flora and fauna due to removal of soil. iv) The impact of physical change in landscape due to mining. v) Does the mining activity cause any change in water course and water channels? vi) Impact on people living around the site due to the dust and noise from mining activity. <p>The proponent, vide letter dated.06.06.2023 furnished a reply for the above queries/details requested in the 602nd authority meeting. In this regard, the proposal is placed in this 628th Authority meeting.</p> <p>The Authority after examining the reply/details furnished by the proponent and also taking into account the recommendations of SEAC, the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental</p> |
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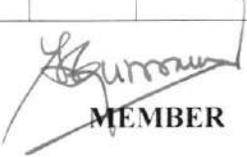

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Clearance for the **quantity of 34,988m³ of gravel by allowing mining activity only in sections X₁Y₁-CD, X₁Y₁-EF, X₂Y₂-EF, X₃Y₃-GH, X₄Y₄-GH (leaving out section XY – AB) upto the depth of 2m below from elevated portion** as per the mine plan approved 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.

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


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| | | <p>Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</p> <p>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p> |
| 6. | <p>File No: 9626</p> <p>Proposed Rough Stone & Gravel quarry Lease over an extent of 1.27.5 Ha at S.F.No. 45/1A & 45/1B in Irumbarai Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu by Thiru.B.Ramalingam – For Environmental Clearance</p> <p>Earlier, the proposal was placed in the 602nd authority meeting held on 14.03.2023. The authority noted that the subject was appraised in the 356th SEAC meeting held on 16.02.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>The authority after detailed deliberations, decided to consider the proposal after obtaining the following details from the project proponent:</p> <ol style="list-style-type: none"> i) Impact of mining on the agricultural fields, vegetation, soil & subsoil, humus, biodiversity in the vicinity of the proposed site. ii) Impact of mining on the aquifers, water bodies, wells & wetlands in the vicinity of the proposed site. iii) The impact on soil micro-flora and fauna due to removal of soil. iv) The impact of physical change in landscape due to mining. v) Does the mining activity cause any change in water course and water channels? | |


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vi) Impact on people living around the site due to the dust and noise from mining activity.

The proponent, vide letter dated.06.06.2023 furnished a reply for the above queries/details requested in the 602nd authority meeting. In this regard, the proposal is placed in this 628th Authority meeting.

The Authority after examining the reply/details furnished by the proponent and also taking into account the recommendations of SEAC, the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the **quantity of 34,988m³ of gravel by allowing mining activity only in sections X₁Y₁-CD, X₁Y₁-EF, X₂Y₂-EF, X₃Y₃-GH, X₄Y₄-GH (leaving out section XY – AB) upto the depth of 2m below from elevated portion** 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.

1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.
2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.
3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life.
4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.
5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.
6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.

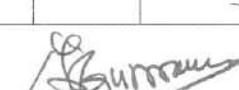

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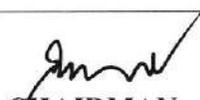

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| 7. | Proposed Rough Stone and gravel quarry lease over an extent 2.18.0 Ha at S.F.No.76/2, 76/3A & 76/6 of Eraiyur Village, Vanur Taluk, Viluppuram district, Tamil Nadu by Thiru.K.Anandavelu - For Terms of Reference. | 9895 | <p>Earlier, the proposal was placed in the 617th authority meeting held on 15.05.2023. The authority noted that the subject was appraised in the 370th SEAC meeting held on 25.04.2023. 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> <ol style="list-style-type: none"> 1. The project proponent shall submit a Certified Compliance Report for the EC dated.19.03.2015 granted by the SEIAA-TN from the IRO, MoEF & CC, Chennai. 2. The proponent shall furnish details on the CTE/CTO obtained from TNPCB for the quarrying operations carried out earlier. <p>The proponent, vide letter dated.08.06.2023 furnished a reply for the above queries/details requested in the 617th authority meeting. In this regard, the proposal is placed in this 628th Authority meeting.</p> <p>The Authority after examining the reply/details furnished by the proponent, 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> <ol style="list-style-type: none"> i) The proponent shall take appropriate measures to comply with all the non-compliance |
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| | | | conditions mentioned in the Certified Compliance Report dated.02.06.2023 obtained from IRO of MoEF&CC for the EC issued earlier dated. 19.03.2015 and shall furnish a detailed report on the same. |
| 8. | Proposed Ordinary Earth quarry lease over an extent of 1.66.5 Ha at SF. Nos. 96/1A, 96/1B, 96/2A, 98/2A3, 98/2A4, 98/2B1 and 98/2B2. of Vembedu Village, Uthukottai Taluk, Tiruvallur District, Tamil Nadu by Thiru. V.Mothilal- For Environmental Clearance. | 9620 | <p>The authority noted that this proposal was placed for appraisal in 364th meeting of SEAC held on 23.03.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein. In view of the above, the authority raised ADS. The PP has now submitted reply for SEIAA ADS. The reply was placed in 630th authority meeting held on 16.06.2023.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and decided to grant Environmental Clearance for the quantity 24,780m³ of Ordinary Earth (restricting CD axis tail portion) by restricting the depth of mining up to 2m BGL for one year as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <p>1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</p> |


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| | | <ol style="list-style-type: none">2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life.4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections. |
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| 9. | Proposed Earth quarry lease over an extent of 2.41.0 Ha at SF. Nos. 121/1, 122/5, 122/7B and 122/8 of Rasingapiuram Village, Bodinaickanur Taluk, Theni District, Tamil Nadu by Thiru.S.Maharajan - For Environmental Clearance. | 9675 | <p>The authority noted that this proposal was placed for appraisal in 365th meeting of SEAC held on 24.03.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein. In view of the above, the authority raised ADS. The PP has now submitted reply for SEIAA ADS. The reply was placed in 630th authority meeting held on 16.06.2023.</p> <p>After detailed discussions, the Authority decided to grant Environmental Clearance for the quantity of 38,912m³ of Earth up to the depth of mining 2m BGL, as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following 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 3 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented. 3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC |
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| | | | <p>while seeking a renewal of the mining plan to cover the project life.</p> <p>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</p> <p>5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</p> <p>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p> |
| 10. | Proposed construction of residential development at S.F. No: 733/4, Veeriyamapalayam Road, Kalapatti Village, Coimbatore North Taluk, Coimbatore District, Tamilnadu by M/s. Infinium Developers LLP – for Environmental Clearance | 9863 | <p>Earlier, it was placed in 622nd SEIAA meeting held on 26.05.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein. After detailed discussion, SEIAA decided to obtain the following additional details from the PP.</p> <p>1. The proponent shall furnish the details of OSR.</p> |


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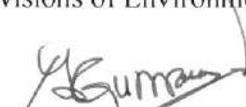
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| | | <p>2. The proponent shall furnish the details regarding Children's Play Area in the project site.</p> <p>3. Details of Disaster Management Plan.</p> <p>4. The proponent shall furnish Club Staff details.</p> <p>5. The Proponent shall furnish the commitment letter obtained from Coimbatore City Municipal Corporation for fresh water supply and disposal of sewage.</p> <p>On the receipt of the reply received from the PP, it was again been placed in 630th SEIAA meeting held on 16.06.2023. After detailed discussion, SEIAA decided to refer back this proposal to the proponent for getting specific remarks.</p> |
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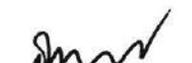
Annexure-'A'

EC Compliance

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


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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

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


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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

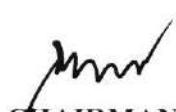
17. The activity should not result in CO₂ release and temperature rise and add to micro climate alternations.
18. The proponent shall ensure that the activities undertaken do not result in carbon emission, and temperature rise, in the area.
19. The proponent shall ensure that Monitoring is carried out 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.


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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.

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.


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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.
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.


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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 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.


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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

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.


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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.

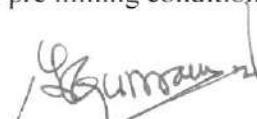
66. For mining area reclamation plot culture experiments to be done to identify/ determine suitable species for the site.

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.

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.

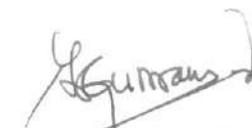

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70. Over burdens may be analyzed and tested for soil characteristics and used in the site for revegetation. Wherever possible seeds, rhizome, bulbs, etc of pioneering species should be collected, preserved and used in restoring the site.
71. Native 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, chemical, 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 broadcasted 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 be taken to aesthetically improve the mine site. Generally, there are two approaches to restoration i.e Ecological approach which allows tolerant species to establish following the succession process allowing pioneer species to establish. The other approach i.e plantation approach is with selected native species are planted. A blend of both methods may be used to restore the site by adding soil humus and mycorrhiza.
75. Action taken for restoration of the site should be specifically mentioned in the EC compliances.


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