

STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU

Minutes of 361st meeting of the State Expert Appraisal Committee (SEAC) held on 10.03.2023 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saldapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No: 361-01

(File No: 8852/2021)

Proposed Expansion of Residential complex Ashiana Shubham developed at S.F.Nos: 381/1A, 381/1B1, 381/1B2, 381/3A, 381/3B, 381/3C, 383/1A, 383/1B, 383/1C, 383/3, 384 Pt., 386 Pt., 389/4A, 389/4D1 Pt., 383/2B1, 383/2B2, 383/2B3, 390/2B4, 390/3A, 390/3B, 390/4, 390/5, 390/6A, 390/6B, 390/7A, 390/7B, 390/8, 394/1, 394/10A, 394/10B, 394/11A, 394/11B, 394/12, 394/14A, 394/14B1, 394/14B2, 394/14B3A, 394/14B3B, 394/2A, 394/2B, 394/2C, 394/2D, 394/2E, 394/2F, 394/3, 394/4, 394/5A&B2, 394/5B, 394/6, 394/8A, 394/8B1, 394/9, 389/4A, 384, 385, 386, 387, 390/3A, 390/3B of Sengundram Village, Chengalpattu Taluk, Chengalpattu District, Tamil Nadu by M/s. Escapade Real Estate Private Limited - For Environmental Clearance. (SIA/TN/ MIS/ 232358/2021 Dt. 02.09.2021)

The proposal was placed in 361st meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Escapade Real Estate Private Limited has applied for Environmental Clearance for the proposed Expansion of Residential complex Ashiana Shubham developed at S.F.No: 381/1A, 381/1B1, 381/1B2, 381/3A, 381/3B, 381/3C, 383/1A, 383/1B, 383/1C, 383/3, 384 Pt, 386 Pt, 389/4A, 389/4D1 Pt, 383/2B1, 383/2B2, 383/2B3, 390/2B4, 390/3A, 390/3B, 390/4, 390/5, 390/6A, 390/6B, 390/7A, 390/7B, 390/8, 394/1, 394/10A, 394/10B, 394/11A, 394/11B, 394/12, 394/14A, 394/14B1, 394/14B2, 394/14B3A, 394/14B3B, 394/2A, 394/2B, 394/2C, 394/2D, 394/2E, 394/2F, 394/3, 394/4, 394/5A&B2, 394/5B, 394/6, 394/8A, 394/8B1, 394/9, 389/4A, 384, 385, 386, 387, 390/3A, 390/3B of Sengundram Village, Chengalpattu Taluk, Chengalpattu District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.
3. M/s. Escapade Real Estate Private Limited has obtained EC vide letter No. SEIAA/TN/F.3814/EC/8(a)/435/2015 dated 18.12.2015.


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4. The Project Proponent has obtained Certified Compliance report from MoEf&CC Regional office(South Eastern Zone) vide F.No.EP/12.1/SEIAA/2016-17/49/TN dated 10.01.2022.
5. Earlier, this proposal was placed in 254th SEAC meeting held on 17.03.2022 and SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the certain conditions as stated therein.
6. Subsequently this proposal was placed in 498th SEIAA meeting held on 8.4.2022. After detailed discussions, the Authority noted that E- Mail message enclosed with a letter dated 01.04.2022 has been received from DEE, TNPCB, MMN on 01.04.2022 regarding a pending court case before Hon'ble NGT (SZ) in its order dated 15.03.2022 regarding the unit of M/s Escapade Real Estate Ltd at Senkundram Village, Chengalpattu. In this regard, the Authority decided to refer back the proposal to SEAC for re-examining the pending court case as stated above.
7. This proposal was again placed in 289th meeting of SEAC held on 24.06.2022. The PP has made the representation covering the points as sought by the SEIAA. After detailed deliberation, SEAC decided that as it is a legal issue, SEIAA may take decision based on the outcome in the pending case before the Hon'ble NGT(SZ).
8. Subsequently, the proposal was placed in the 534th Authority meeting held on 18.07.2022. The authority after detailed deliberation, decided that the examination of the proposal may be kept in abeyance and further course of action for this proposal is subject to the outcome of the O.A.No.25 of 2022 pending in Hon'ble NGT(SZ) Chennai and SEAC may examine the outcome and the recommendation for grant of Environmental Clearance may be furnished to SEIAA.
9. Subsequently, Hon'ble NGT (SZ) Chennai has passed orders on 13.02.2023 stating

ORDER

1. *Heard the learned counsels. The SEIAA – Tamil Nadu has filed its report dated 13.02.2023. However, the report of the Water Resources Department is yet to be filed.*
2. *From the report of the SEIAA – Tamil Nadu, it appears that there has been some violation of the Environmental Clearance (EC) conditions. If that is so, let the objection be filed by the project proponent. It is also stated that*


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the Environmental Clearance (EC) applied for expansion is also lying with the SEIAA. We clarify that the application may be considered on merits, as there is no specific order of stay.

3. *We await the report of the Water Resources Department. Let the matter be listed on 20.02.2023.*

Now, the proposal is placed in the 361st SEAC meeting held on 08.03.2023. SEAC had already examined the proposal on merits and made it's recommendation in its 254th SEAC meeting held on 17.03.2022. Now, the Hon'ble NGT has clarified that the proposal that "*We clarify that the application may be considered on merits, as there is no specific order of stay.*" Hence, SEIAA may take appropriate action on the SEAC recommendation already made.

Agenda No: 361 - 02

(File No: 9291/2022)

Proposed sand quarry lease over an extent of 4.95.0 Ha at S.F.No. 256 and 257 (Part) of Sathamangalam (Ananthimedu) Village, Lalgudi Taluk, Tiruchirappalli District, Tamil Nadu by M/s. The Executive Engineer, Water Resources Department, Mining and Monitoring Division, Tiruchirappalli - For Environmental Clearance. (SlA/TN/MIN/273300/2022, Dt. 19.05.2022)

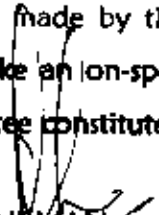
The proposal was placed in this 361st SEAC meeting held on 10.03.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. The Executive Engineer, Water Resources Department, Mining and Monitoring Division, Tiruchirappalli has applied for Environmental Clearance for the proposed sand quarry lease over an extent of 4.95.0 Ha at S.F.No. 256 and 257 (Part) of Sathamangalam (Ananthimedu) Village, Lalgudi Taluk, Tiruchirappalli District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, this proposal was placed for appraisal in the 296th SEAC meeting held on 16.07.2022. Based on the documents furnished and presentation made by the proponent, the SEAC, after detailed deliberations, decided to make an on-spot inspection to assess the present status of the site by the sub-committee constituted


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by the SEAC. Further, the PP shall furnish the following details during the site inspection.

- The Project Proponent shall study and report in details of the "Replenishment Study" as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020.

Subsequently, this proposal was placed for appraisal in the 541st SEIAA meeting held on 22.08.2022. The Authority noted that this proposal was placed for appraisal in this 296th meeting of SEAC held on 16.07.2022 and the SEAC decided to make an on-spot inspection to assess the present status of the site by the sub-committee constituted by the SEAC. Further, the PP shall furnish the following details during the site inspection.

- The Project Proponent shall study and report in details of the "Replenishment Study" as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining, 2020.
- Furnish the Details with route map and the transportation route.
- The details of maximum production from the mines.
- Demarcation of mining area with pillars and geo-referencing shall be made by furnishing photographs taken on site prior to the start of mining.
- 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.
- The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.
- Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.
- The project proponent shall study impact on indigenous flora and fauna.
- The project proponent shall study impact on fish habitats and the food web/ food chain in the water body and Reservoir.


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4. Again, this proposal was placed for appraisal in the 339th SEAC meeting held on 22.12.2022. Based on the Inspection report, presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for 1,23,750 m³ of Sand for period of 2 Years, subject to the specific conditions as stated therein, in addition to normal conditions stipulated by MOEF &CC.

Subsequently, this proposal was placed for appraisal in the 584th SEIAA meeting held on 12.01.2023. After detailed discussions, the Authority decided to request the Member Secretary, SEIAA-TN to obtain the following and place before the Authority for further course of action.

- The PP shall furnish the exact distance of proposed mining lease area from the Kallanai Dam ("Grand Anicut").
- The PP shall furnish the status w.r.to the W.P(MD) No. 133 of 2023 & WMP (MD) No. 130 of 2023.

Based on the PP's reply vide Lr. Dt: 15.02.2023, Again this proposal was placed in the 596th Authority meeting held on 22.02.2023 & 23.02.2023. The Authority further noted that PILs have been filed before the Hon'ble High Court of Madras (Madura Bench) vide WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 with the prayer to restrict sand mining using heavy machineries in the River basin of Kaveri/Kollidam considering the stability of the Kallanai Dam and the case is pending before the Hon'ble Court.

In this connection, the Authority decided to refer back the subject to SEAC to furnish its remarks on permitting mechanized sand quarrying near Kallanai Dam.

Based that this proposal has again been placed in 361st SEAC meeting held on 10.03.2023 and the PP has made re-presentation covering the above points is as follows.

- The Proponent submitted the Report on Replenishment Study as per the SSMMG-2016 and EMGSM-2020 to the Committee which indicates the occurrence of 40% replenishment for the bed thickness of 1.2 m
- Further, the PP also furnished reply for the additional queries raised by the Authority in its 596th Authority meeting held on 22.02.2023 & 23.02.2023.


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S. No	SEIAA Query	Reply	Reference
1.	The PP shall furnish the exact distance of proposed mining lease area from the Kallanai Dam ("Grand Anicut").	Sathamangalam (Ananthimedu) Proposed Sand Quarry Site is at a distance of 5 km to Kallanai Dam ("Grand Anicut").	Reply Letter – Lr.No: DB/JDO.2/F.23 /29M/ Dt: 13.02.2023
2.	The PP shall furnish the status w.r.to the W.P(MD) No. 133 of 2023 & WMP (MD) No. 130 of 2023.	Order Dated: 01.02.2023 – "The quarrying operations shall not be carried out within the prohibited distance of the bridges and the Kallanai Dam" Prohibited distance as per Sustainable Sand Mining Guidelines 2020 is 500 m - Annexure VIII Point No. 8.	Court Order Copy Submitted along with Reply Letter – Lr.No: DB/JDO.2/F.23 /29M/ Dt: 13.02.2023

The project proponent gave a re-presentation incorporating the details requested by SEIAA. The Committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to reiterate its recommendation already made in 339th SEAC meeting held on 22.12.2022. All other conditions stipulated in the earlier minutes will remain unaltered.

Agenda No: 361-03

(File No: 9292/2022)

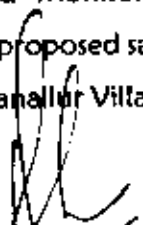
Proposed sand quarry lease over an extent of 4.90.0 Ha at S.F.No. 242 (Part) of Srinivasanallur Village, Thottiyam Taluk, Tiruchirappalli District, Tamil Nadu by the Executive Engineer, Water Resources Department, Mining and Monitoring Division, Tiruchirappalli - For Environmental Clearance (SIA/TN/MIN/78415/2022, Dt. 17.06.2022)

The proposal was earlier placed in the 296th meeting of SEAC held on 16.07.2022. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

The Executive Engineer, Water Resources Department, Mining and Monitoring Division, Tiruchirappalli has applied for Environmental Clearance for the proposed sand quarry lease over an extent of 4.90.0 Ha at S.F.No: 242 (Part) of Srinivasanallur Village, Thottiyam Taluk, Tiruchirappalli District, Tamil Nadu.


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1. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended.

Based on the documents furnished and presentation made by the proponent, the SEAC, after detailed deliberations, decided to make an on-the-spot inspection to assess the present status of the site by the sub-committee constituted by the SEAC. Further, the PP shall furnish the following details during the site inspection. The Project Proponent shall study and report in details of the "Replenishment Study" as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020.

The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Lr.No.SEAC/TN/Site Inspection/2022, dt.16.07.2022 to inspect and study the field condition for the proposal seeking EC for a sand quarry proposed at Srinivasanallur Village in SF No. 242 (P), Thottiyam Taluk, Trichy District. The Committee comprised of Mr. K.S.S.V.P, Reddy, I.F.S (Rtd), Member, SEAC and Dr. P. Balamadeswaran, Member, SEAC. Accordingly, the sub-committee visited the site on 19.12.2022 and submitted its inspection report to the Committee during the 339th meeting of the SEAC held on 22.12.2022. Based on the Inspection report, presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for mining 98,000Cu.m of Sand in a period of 2years to an ultimate depth of 2m (1m above theoretical bed level + 1m below theoretical bed level) subject to the conditions stated therein.

Subsequently, the proposal was placed in 584th meeting of SEIAA held on 12.01.2023. After detailed discussions, the Authority decided to request the Member Secretary, SEIAA-TN to obtain the following and place before the Authority for further course of action,

- The Proponent shall furnish the exact distance of proposed mining lease area from the Kallanai Dam ("Grand Anaicut").


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- The PP shall furnish the status w.r.to the W.P(MD) No. 133 of 2023 & WMP (MD) No. 130 of 2023.

The proponent vide letter dated: 15.02.2023 has reported the following:

"The Authority Committee has sought for the additional details towards the proposed Sand Quarry over an extent of 4.90.0 Ha in River Cauvery located at SF.No. 242 (P), Srinivasanallur Village, Thottiyam Taluk, Trichy District as detailed below,

1. Srinivasanallur - 53 Km is the Exact distance of the proposed Mining Lease area from the Kallanaï Dam (Grand Anaicut).
2. The Hon'ble High Court has granted interim Stay Order for Quarrying Operation on 11.01.2023. Now the modified order passed by the Hon'ble Madurai Bench of Madras High Court towards W.P.(MD) Nos.133 and 694 of 2023 and W.P.(MD) No.130 of 2023 In W.P.(MD) No.133 of 2023, Dated: 01.02.2023 is herewith submitted. Also, submitted that "All instructions will be adhered to".

Hence the subject was taken up for discussion in the 596th meeting of Authority held on 22.02.2023 & 23.02.2023. After detailed discussions, the Authority decided to refer back the subject to SEAC to furnish its remarks on the proposed mechanized sand mining with reference to the above Court order.

Therefore, the subject was placed before the Committee in this 361st meeting held on 10.03.2023. the PP has made re-presentation covering the above points is as follows.

- The Proponent submitted the Report on Replenishment Study as per the SSMMG-2016 and EMGSM-2020 to the Committee which indicates the occurrence of 81.63% replenishment for the bed thickness of 0.6 m.
- Further, the PP also furnished reply for the additional queries raised by the Authority in its 596th Authority meeting held on 22.02.2023 & 23.02.2023.


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The Committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to reiterate its recommendation already made in 339th SEAC meeting held on 22.12.2022. All other conditions stipulated in the earlier minutes will remain unaltered.

Agenda No: 361-04

(File No: 9420/2022)

Proposed Construction of High Rise Residential Building at S.F.No. 108B/2, 109/1, 109/2, 109/4A3, 109/4A4, 111/1C1A, 111/1C1B, 112/1, 112/2, 112/4, 112/5, 113/1, 113/2, 113/3, 114/2, 114/3A, 114/3B, 114/3C, 114/4, 114/5, 114/6, 114/7, 115/1, 115/2, 115/3, 115/4, 116, 117/1, 117/2, 117/3, 117/4, 117/5, 117/6, 120/1, 121/2, 122/1A, 122/1B, 122/2, 123/1, 123/2, 123/3, 123/4, 123/5, 123/6, 123/7, 124/2, 124/3, 124/4, 124/5, 125/1A, 125/1B, 125/2A, 125/2B, 126, 127/1, 127/2, 127/3A, 127/3B, 128/1, 128/2, 128/3, 128/4, 128/5, 129/1, 129/2, 130/1, 130/2A, 130/2B1, 130/2B2, 130/3, 130/4, 131, 132/2A, 132/2B, 133/1, 133/2, 134/1, 134/2A, 134/2B, 134/2C, 136/1 & 136/2 Melakottayur Village, Vandalur Taluk, Chengalpet District, Tamilnadu by M/s. Casagrand Magnum private limited - For Environmental Clearance. (SIA/TN/INFRA2/410611/2022 dated 14.12.2022)

The proposal was placed in this 361st SEAC meeting held on 10.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Casagrand Magnum private limited has applied for Environmental Clearance for the proposed Construction of Residential High Rise group development project at S.F.No. 108B/2, 109/1, 109/2, 109/4A3, 109/4A4, 111/1C1A, 111/1C1B, 112/1, 112/2, 112/4, 112/5, 113/1, 113/2, 113/3, 114/2, 114/3A, 114/3B, 114/3C, 114/4, 114/5, 114/6, 114/7, 115/1, 115/2, 115/3, 115/4, 116, 117/1, 117/2, 117/3, 117/4, 117/5, 117/6, 120/1, 121/2, 122/1A, 122/1B, 122/2, 123/1, 123/2, 123/3, 123/4, 123/5, 123/6, 123/7, 124/2, 124/3, 124/4, 124/5, 125/1A, 125/1B, 125/2A, 125/2B, 126, 127/1, 127/2, 127/3A, 127/3B, 128/1, 128/2, 128/3, 128/4, 128/5, 129/1, 129/2, 130/1, 130/2A, 130/2B1, 130/2B2, 130/3, 130/4, 131, 132/2A, 132/2B, 133/1, 133/2, 134/1, 134/2A, 134/2B, 134/2C, 136/1 & 136/2 Melakottayur Village, Vandalur Taluk, Chengalpet District, Tamilnadu.
2. The proposed activity is covered under Category "B" of Item 8(b) "Townships and Area Development" of the Schedule to the EIA Notification, 2006.


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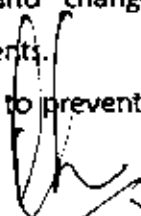
3. Earlier, the proposal was placed in the 345th meeting of SEAC held on 10.01.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.

Subsequently, the proposal was placed in the 590th authority meeting held on 09.02.2023. The Authority, after detailed discussions decided to refer the proposal back to SEAC for obtaining the following from the proponent:

- 1) The proponent has not furnished details on the standard ToR conditions 2, 4, 6, 9, 12 & 18. Hence, the same shall be furnished in detail.
- 2) In addition to this, the proponent shall also furnish details on the following:
 - a) The proponent shall furnish details on the actions taken to reduce anthropogenic GHGs such as CO₂, CH₄, nitrous oxide, etc., resulting from human activities.
 - b) The proponent shall furnish details on the strategies adopted to decarbonize the building.
 - c) The proponent shall furnish measures taken to mitigate the impact on critically endangered species, biodiversity, etc. due to the modification of the habitat.
 - d) The proponent shall develop an emergency response plan in addition to the disaster management plan.
 - e) The proponent shall furnish details on building-friendly pest control strategies developed using non-chemical measures so as to control the pest population thereby not losing beneficial organisms.
 - f) The proponent shall furnish the measures taken to prevent the spread of invasive species.
 - g) The proponent shall furnish detailed plan adopted to reduce carbon footprints and also strategies for climate proofing and climate mitigation.
 - h) The proponent shall furnish details on strategies developed to ensure the buildings in blocks don't trap heat and become local urban heat islands.
 - i) The proponent shall furnish details on the sustainability criteria adopted to protect the micro environment from wind turbulences and change in aerodynamics since high rise buildings may stagnate air movements.
 - j) The proponent shall furnish details on the strategies developed to prevent bird

hits

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- k) The proponent shall furnish details on the provisions made to ensure that the building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues.
- l) The proponent shall develop detailed evacuation plan for disabled people and safety evacuation plan during emergencies.
- m) The proponent shall furnish details on the strategies adopted to maintain the health of the inhabitants in high rise buildings.
- n) The proponent shall explain the methodology adopted to control thermal environment and other shocks in the building.
- o) The proponent shall provide details on the provisions for controlled ventilation and lighting systems.

In view of the above, the proposal is again placed in this 361st SEAC meeting held on 10.03.2023 for re-appraisal.

The project proponent gave a re-presentation incorporating the details requested by SEIAA. The Committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to reiterate its recommendation already made in 345th Meeting of SEAC held on 10.01.2023. All other conditions stipulated in the earlier minutes will remain unaltered.

Agenda No. 361 - 05.

File No.9663/2022

Proposed construction of High Rise Commercial Office Building at SF.Nos. 32/3, 33/1, 2a, 3a, Nandambakkam Village, Alandur Taluk, Chennai District, Tamilnadu by M/s. Casagrاند Everta Private Limited – For Environmental Clearance. (SIA/TN/INFRA2/409336/2022) Dt:09.12.2022.

Earlier, the proposal was placed in the 345th SEAC Meeting held on 10.01.2023. The details of the minutes are available in the website (parivesh. nic. in).

The SEAC noted the following:

1. The Proponent, M/s. Casagrاند Everta Private Limited has applied for Environmental Clearance for the proposed construction of High Rise Commercial Office Building at SF.Nos. 32/3, 33/1, 2a, 3a, Nandambakkam Village, Alandur Taluk, Chennai District, Tamilnadu.
2. The project/activity is covered under category "B2" of Item 8 (a) "Building and Construction" of the schedule to the EIA Notification, 2006.


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3. The proposed project consists of Extended Double Basement Floor + Ground Floor + 9 Floors with total built up area – 34,333 Sq.m& total plot area of 6,395 Sq.m.

Based on the presentation made and documents furnished by the project proponent, **SEAC decided to recommend the proposal for the grant of Environmental Clearance** subject to the following specific conditions stated therein, in addition to normal conditions stipulated by MOEF &CC.

Subsequently, the proposal was placed in the 590th Authority meeting held on 09.02.2023. After detailed discussions, the Authority decided to refer back the proposal after the receipt of following additional particulars from the project proponent.

- 1) From KML file it was noted that vegetation was found within the proposed project site. Hence, PP shall furnish details & type of vegetations and details of action plan for transplantation & compensatory sapling plantation within the project site & avenue plantation.
- 2) Detailed of Action plan for storm water management considering Adyar River.
- 3) NOC from Airport authority for Height Clearance.
- 4) NOC from PWD department inundation point of view considering Adyar River.
- 5) Commitment letter for fresh water supply and disposal of excess treated sewage for the proposed activity from the competent authority.
- 6) The proponent shall furnish details on the actions taken to reduce anthropogenic GHGs such as CO₂, CH₄, nitrous oxide, etc., resulting from human activities.
- 7) The proponent shall furnish details on the strategies adopted to decarbonize the building.
- 8) The proponent shall furnish measures taken to mitigate the impact on critically endangered species, biodiversity, etc, due to the modification of the habitat.
- 9) The proponent shall develop emergency response plan in addition to the disaster management plan.

- 10) The proponent shall furnish details on building-friendly pest control strategies developed using non chemical measures so as to control the pest population thereby not losing beneficial organisms.
- 11) The proponent shall furnish the measures taken to prevent the spread of invasive species.
- 12) The proponent furnish detailed plan adopted to reduce carbon footprints and also strategies for climate proofing and climate mitigation.
- 13) The proponent shall furnish details on strategies developed to ensure the buildings in blocks don't trap heat and become local urban heat islands.
- 14) The proponent shall furnish details on the sustainability criteria adopted to protect the micro environment from wind turbulences and change in aerodynamics since high rise buildings may stagnate air movements.
- 15) The proponent shall furnish details on the strategies developed to prevent bird hits.
- 16) The proponent shall furnish details on the provisions made to ensure that the building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues.
- 17) The proponent shall develop detailed evacuation plan for disabled people and safety evacuation plan during emergencies.
- 18) The proponent shall furnish details on the strategies adopted to maintain the health of the inhabitants in high rise buildings.
- 19) The proponent shall explain the methodology adopted to control thermal environment and other shocks in the building.
- 20) The proponent shall provide details on the provisions for controlled ventilation and lighting systems.

The proposal was again placed for appraisal in 361st meeting of SEAC held on 10.03.2023. During the Committee meeting, the PP has presented the replies to queries raised by 590th Authority meeting held on 09.02.2023 as follows.


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S.N	SEIAA Query	Reply
1	From KML file it was noted that vegetation was found within the proposed project site. Hence, PP shall furnish details & type of vegetations and details of action plan for transplantation & compensatory sapling plantation within the project site & avenue plantation.	<ul style="list-style-type: none"> The proposed site was empty as of the time of our acquisition. There was no vegetation on that land. The KML file has not updated in the Google earth. However we are planning to develop the green belt at the proposed site. The total area of the project site is 6.197 sq.m. The project proponent allotted 1283 sq. m. (20 %) of land for green belt development.

S.No.	SEIAA Query	Reply	Reference
2	Detailed of Action plan for storm water management considering Adyar River.	<p><u>As per the PWD recommendation:</u></p> <ul style="list-style-type: none"> The observed Maximum Flood Level near the site is (+) 13.215m. The existing Mount poonamallee High road top level is (+) 10.680m. To protect the site safe against any inundation in the near future, the site must be raised minimum of 0.60m above the MFL (or) above the road top level abutting/ nearer to the site, whichever is highest The maximum Flood Level is higher than the Road Level recorded at 2015 nearby the site. Hence, it is recommended to raise the field level to (+) $13.215m + 0.60m = (+) 13.815m$ (i.e. 9.085m above Crest Level of Nandambakkam Check Dam which is (+) 4.730m). 	<p>Additional details raised by SEIAA.</p> <p>Letter No.DB.T5(2NF)-NOC 0149</p> <p><u>Nandambakkam</u> Village 0739/2023/dated 30.02.2023 from Water Resources Department, Chennai Region.</p>


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S.No	SEIAA Query	Reply	Reference
3	NOC from Airport authority for Height Clearance.	No Objection certificated has obtained from <u>Airport Authority of India</u> .	Additional details raised by SEIAA. Letter No. CHEN/SOUTH/B/120822/7 29851 from Airports Authority of India.
4	NOC from PWD department inundation point of view considering Adyar River.	Flood and inundation NOC has obtained from PWD department.	Additional details raised by SEIAA. Letter No.DB.T6(SMF-NOC 0149 Nandambakkam Villaga 0739/2023/dated 20.02.2023 from Water Resources Department.
5	Commitment letter for fresh water supply and disposal of excess treated sewage for the proposed activity from the competent authority.	<u>Acknowledgement copy</u> and <u>Processing fee letter</u> has received from CMWSSB and after paying processing fee as well as obtaining Environmental Clearance we will obtain permission.	Additional details raised by SEIAA. Letter No. CMWSSB/O&M L/SE(SW) Area XII/SPL/2022-23 Dated: 23.02.2023 from CMWSSB

S. No.	SEIAA Query	Reply	Reference
6	The proponent shall furnish details on the actions taken to reduce anthropogenic GHGs such as CO ₂ , CH ₄ , nitrous oxide, etc., resulting from human activities.	The following actions to be taken to reduce GHGs: <ul style="list-style-type: none"> • Use low-carbon cement - Concrete is one of the most carbon-intensive construction materials as the production of its cement component requires extreme heat and releases a great deal of CO₂. • Reuse building materials and components. • To install Solar Panels in roof top. • To install solar street lights. • Installing energy saving light bulbs like LEDs, CFLs. 	<ul style="list-style-type: none"> • Additional details raised by SEIAA. • Refer Page No. 66 Section 4.5.2


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S. No.	SEIAA Query	Reply	Reference
7	The proponent shall furnish details on the strategies adopted to decarbonize the building.	<ul style="list-style-type: none"> Use low carbon fuel alternative energy sources such as Solar to reduce the generation of GHG emissions. To Improve energy efficiency, through measures like LED lighting or HVAC upgrades, to reduce overall energy usage and loss. 	Additional details raised by SEIAA.
8	The proponent shall furnish measures taken to mitigate the impact on critically endangered species, biodiversity, etc, due to the modification of the habitat.	<ul style="list-style-type: none"> Since the land is vacant. There was no modification of the habitat. We will allotted 1289 sq. m. (20%) of land for green belt development. 	<ul style="list-style-type: none"> Additional details raised by SEIAA. Refer Page No.64 Section 4.3

S. No.	SEIAA Query	Reply	Reference
9	The proponent shall develop emergency response plan in addition to the disaster management plan.	<p>1. Contacts In the event of a confirmed emergency, emergency services and relevant regulators must be contacted immediately.</p> <p>2. Assembly point Assembly area will be earmarked for the people to get together in case of emergency. A list of all the employees will be available at this site so that their roll call could be taken and missing person, if any, could be located.</p> <p>3. Fire and Smoke The following steps are followed immediately. Step 1: Activate the nearest emergency alarm. Advise the security immediately of the fire or smoke and its location on the site. Step 3: The Chief security will assess the situation and, if deemed appropriate, evacuate the site and notify emergency services</p> <p>4. Emergency alarm system An audible emergency alarm system will be installed in the premises. It will be operated from at least 4 different points spread over the entire area and clearly marked as "Emergency Area Switch".</p>	<ul style="list-style-type: none"> Additional details raised by SEIAA. Refer Page No.66 Section 4.6

S.No.	SEIAA Query	Reply	Reference
10	The proponent shall furnish details on <u>building friendly</u> pest control strategies developed using non chemical measures so as to control the pest population thereby not Losing beneficial organisms.	Use of naturally occurring insecticides, such as Neem tree products, <u>Margosa (vembhu)</u> , <u>Tilai</u> Leaf, Citrus Oil, Eucalyptus Oil, Onion, Garlic, Essential Oils. These also refer to as Organic Pesticides.	Additional details raised by SEIAA.
11	The proponent shall furnish the measures taken to prevent the spread of invasive species.	<ul style="list-style-type: none"> • Native species are the best natural defense against invasive species. They require less water. • We will plant native species to prevent the spread of invasive species. 	<ul style="list-style-type: none"> • Additional details raised by SEIAA • Refer Page No. 65 Table 4.2


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S.N	SEIAA Query	Reply	Reference
12	The proponent furnish detailed plan adopted to reduce carbon footprints and also strategies for climate proofing and climate mitigation.	<ul style="list-style-type: none"> Using the green fuel like electrical vehicle. To use construction materials made from recycled content. We will propose green building design features that improve energy efficiency, such as additional insulation, efficient HVAC equipment, LED lighting. 	Additional details raised by SEIAA.
13	The proponent shall furnish details on strategies developed to ensure the buildings in blocks don't trap heat and become local urban heat islands.	<ul style="list-style-type: none"> We will install Solar panel on the roofs. Solar panel are an ideal for heat reduction. 	Refer Page No 66 Section 4.5.1

S.No.	SEIAA Query	Reply	Reference
14	The proponent shall furnish details on the sustainability criteria adopted to protect the micro environment from wind turbulences and change in aerodynamics since high rise buildings may stagnate air movements.	<ul style="list-style-type: none"> The proposed building maximum height will be 42.38 m. Hence, it will not create any wind turbulences and no change in aerodynamics 	Additional details raised by SEIAA.
15	The proponent shall furnish details on the strategies developed to prevent bird hits.	<ul style="list-style-type: none"> We will provide Double glazing Unit (DGU) glass, on the exterior. This will help birds recognize glass as a barrier. 	Additional details raised by SEIAA.
16	The proponent shall furnish details on the provisions made to ensure that the building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues.	We ensure, the proposed building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues.	Additional details raised by SEIAA.

S. No.	SEIAA Query	Reply	Reference
17	The proponent shall develop detailed evacuation plan for disabled people and safety evacuation plan during emergencies.	<ul style="list-style-type: none"> • We will propose the Fire escape staircase during the emergencies. • Exit the building as calmly and quickly as possible using the nearest safe exit. Do not use the elevator. • Move the people to building's designated meeting site. • We will propose the ramp entry for disables people. 	Additional details raised by SEIAA.
18	The proponent shall furnish details on the strategies adopted to maintain the health of the inhabitants in high rise buildings.	<ul style="list-style-type: none"> • We will conduct monthly indoor air quality monitoring in the proposed building. 	Additional details raised by SEIAA.

S. No.	SEIAA Query	Reply	Reference
19	The proponent shall explain the methodology adopted to control thermal environment and other shocks in the building.	<ul style="list-style-type: none"> • Proper Ventilation to be proposed. • Double glazing Unit (DGLU) will be used for windows instead of steels. • Creation of micro climate - Trees can be planted to create micro climate. i.e. small scale climatic condition at along the boundary wall. • Preventing Infiltration - Infiltration can be prevented by sealing the sites of air leaks 	Additional details raised by SEIAA.
20	The proponent shall provide details on the provisions for controlled ventilation and lighting systems.	<ul style="list-style-type: none"> • To adopt the basic recommended air change schedule as per NBC 2016. • To adopt a minimum ventilation rate of 36 m³/person/hour of fresh air (10 liters/person/second). • We will Provide centralized extract system/ exhaust fan for discharging contaminated air & controlling the humidity. 	Additional details raised by SEIAA.


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S. No.	SEIAA Query	Reply	Reference
		<ul style="list-style-type: none"> • Offices working in shifts (24x7), all the surfaces should be disinfected using any disinfectant solution after every shift. Windows shall be kept open for 15 minutes before and after each shift. • Set the temperature between 25 C and 30 C and maintain a relative humidity between 40% and 70%. • The required illuminance could be achieved through a combined usage of the natural day lighting and the artificial lighting. 	

Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to reiterate its recommendation already made 345th SEAC Meeting held on 10.01.2023. All other conditions stipulated in the earlier minutes will remain unaltered.

Agenda No: 361 – 06

File No: 9582

Proposed Expansion for Construction of Data Centre Building in Plot No-H-11/1A (Survey Nos. 85 (part), 86, 87 (part) of SIPCOT Information Technology Park, Sruseri of Egattur Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu by M/s. Sify Infnit Spaces Limited- For Environmental Clearance. (SIA/TN/INFRA2/407480/2022, dated 23.11.2022)

The proposal was placed in 361st SEAC meeting held on 08.03.2023. The details of the project furnished by the proponent are given in the website (parlvesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Sify Infnit Spaces Limited has applied for Environmental Clearance for the Proposed Expansion for Construction of Data


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Centre Building in Plot No-H-11/1A (Survey Nos. 85part, 86, 87part) of SIPCOT Information Technology Park, Siruseri of Egattur Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu.

2. The project/activity is covered under Category "B" of item 8(a) "Building & Construction" of the Schedule to the EIA Notification, 2006.
3. Total land area is 19,841sq.m & the total built-up area after expansion is 87,033.87sq.m.
4. Earlier, the proposal was placed in the 345th SEAC meeting held on 10.01.2023. Based on the presentation and documents furnished by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance.
5. Subsequently, the proposal was placed in the 590th Authority meeting held on 09.02.2023. The Authority after detailed deliberation, noted that since the data center is in cloud computing, the following impacts may be studied in detail
 1. The proponent must submit details regarding the fire suppression strategies that will be deployed during Fire break out.
 2. The impact on Global Warming, Climate Change, Energy consumption, Cooling mechanisms to reduce temperature.
 3. Since the Data Centre is known to maintain temperature within the facility. The proponent is requested to provide information regarding the technology that will be employed to maintain the temperature within the Data Centre.
 4. The proponent shall submit the details regarding the methodology that will be adopted to maintain humidity within the facility.
 5. Impacts on the surrounding environment and the inhabitants within the facility shall be studied and reported.
 6. The proponent shall submit impacts regarding the Toxic Waste generation and its mitigation measures.
 7. The proponent shall submit impacts regarding the anticipated E-Waste generation and its mitigation measures.


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8. The proponent shall discuss in detail regarding the smart and innovative tools/technology that will be employed to tackle environmental conservation.
9. Since the proposed activity has higher power consumption, the proponent shall furnish the details regarding the Electricity surveillance and monitoring that will be adopted and its environmental implications.
10. The proponent shall furnish the details regarding the Temperature surveillance and monitoring that will be adopted and its implications.
11. The proponent shall furnish the details regarding the Carbon Emission surveillance and monitoring that will be adopted and its implications.
12. The proponent shall submit the details regarding the anticipated per month energy consumption and per year energy consumption and ways to reduce energy consumption.
13. The proponent shall furnish the details regarding whether adequate parking area provided and traffic Impact.
14. The proponent shall submit the impact of change in temperature and humidity on the green belt proposed within the site and in the nearby vicinity.
15. The proponent shall submit the details regarding the facility that will be provided to monitor the health of the workers within the facility.

In the view of the above, Authority decided to refer back the proposal and SEAC shall examine the above-mentioned queries and shall furnish its recommendations to SEIAA to take further course of action.

6.

Sl No	Description	Existing	After Expansion	Remarks
1.	Name of the Project proponent and address	M/s Sify Data and Managed Services	M/s SifyInfnit Spaces Limited	


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2.	Proposed Activity		Proposed Expansion for Construction of Data Centre Building		
3.	Category and Schedule No. as per EIA Notification	8(a)	8(a)	8(a)	8(a)
4.	Project Location i) Survey Nos	Plot No-H-11/1A (Survey Nos. 85 part, 86, 87 part) of SIPCOT Information Technology Park	Plot No-H-11/1A (Survey Nos. 85 part, 86, 87 part) of SIPCOT Information Technology Park		
	Coordinates	Points	Latitude	Longitude	
		A	12°49'51.64"N	80°13'34.16"E	
		B	12°49'52.14"N	80°13'37.36"E	
		C	12°49'45.68"N	80°13'38.06"E	
	D	12°49'45.58"N	80°13'34.58"E		
ii) Revenue Village	Siruseri of Egattur	Siruseri of Egattur			
iii) Taluk	Thiruporur	Thiruporur			
iv) District	Chengalpattu	Chengalpattu			
5.	Total area of Extent	19,841 Sq.m	19,841 Sq.m	No Change	
	1. Total Land Area (Sq.m)	19841.0	19841.0		
	2. Total Ground Coverage Area of Building (Sq.m)	3881.13	19.56%	9822.67	49.51%
	3. Roads and Pavements Area (Sq.m)	7598.96	38.30%	5606.57	28.26%


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	4. Other Utilities Area (Sq.m)	420	2.12%	1235.73	6.22%	
	5. Surface or Open Parking Area (Sq.m)	4926.91	24.83%	- *	-	
	6. Green Belt (Sq.m)	3014	15.19%	3132	15.79%	
	7. Vacant Area (Sq.m)	-	-	44.03	0.22%	
6.	Brief description of the project	<p>EC Obtained by M/s Sify Data and Managed Services Limited on 07.03.2019. of Plot area 19841 Sq.m with built up Area 29,408.46 Sq.m. IDC Building – Basement +Ground Floor + Mezzanine Floor + 5 Floors. GIS Substation – Ground Floor + 2 Floors.</p>		<p>Proposed Expansion by M/S. SifyInfinitt Spaces Limited of plot area 19841 Sq.m with built up Area 89,536.97 Sq.m. Data Centre Block (Block A) - Basement + Ground Floor + 1st Floor + Mezzanine Floor + 2nd to 8th Floors. GIS Substation Block (Block B) - Basement + Ground Floor + 1st Floor</p>		
	Built up Area	29,408.46 Sq.m		89,536.97 Sq.m		Additional Area 60128.51 Sq.m
	FSI Achieved	0.96		4.48		Premium FSI

	Occupancy Load	1290	300	Reduction in Occupancy due to Data Centre Purpose Only
	Green belt area & Landscaping	3014 Sq.m (15.2%)	3132 Sq.m (15.8%)	Greenbelt Area increased by 118 Sq.m (0.6%)
	Parking area	4926.913 Sq.m	6853.685 Sq.m	Proposed Basement Parking Area
	Building Height	49.40 m	57.45 m	Permitted Top Elevation 115 m
7	Parking details Car Parking Provided Two-Wheeler Parking Provided	287 Nos. 587 Nos.	290 Nos. 234 Nos.	As per Tamil Nadu Data Centre Policy 2021.
8	Source of Water Supply and sewage disposal	SIPCOT, Siruseri	SIPCOT, Siruseri	No Change
9	Total Water Requirement	81 KLD (Fresh Water 31 KLD & Recycled Water 50 KLD)	Total Fresh Water 12 KLD	Reduction in Water Requirement
10	Quantity of sewage generation	53 KLD	10.2 KLD	Reduction in Sewage Generation
11	Sewage Treatment Plant Capacity	STP Capacity 80 KLD	STP Capacity – 35 KLD Proposed	Reduction in Occupancy due to Data Centre Purpose Only
12	Mode of Disposal of treated waste water	Toilet Flushing- 25 KLD HVAC – 14 KLD	Green belt development - 10 KLD	

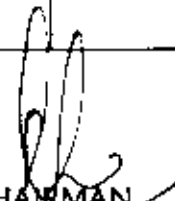

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		Green belt development - 11 KLD	
13	Sewage Treatment Plant (Activated Sludge Process)		<p>Plant Capacity – 35 KLD (PROPOSED)</p> <p>Process – Activated Sludge Process.</p> <ol style="list-style-type: none"> 1. Bar Screen Chamber 2. Oil and Grease Trap 3. Collection Tank 4. Aeration Tank 5. Settling Tank 6. Filter Feed Tank 7. Sludge Drying Bed 8. Pressure Sand Filter 9. Activated Carbon Filter 10. Hypo Dosing System 11. UV System 12. UF Feed Tank / Partial 13. Treated Tank 14. UF Treated Water Tank


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14	Total Solid waste generation	Total Solid Waste Generation 256.2 Kg/day. (Biodegradable Waste: 153.72 Kgs/day Non-Biodegradable Waste: 102.48 Kgs/day) Bio Sludge: 8 (Kgs/day) Hazardous Waste: - E-Waste: 8 TPA	Total Solid Waste Generation 41 Kg/day. (Biodegradable Waste: 16.4 Kgs/day Non-Biodegradable Waste: 24.6 Kgs/day) Bio Sludge: 0.2 (Kgs/day) Hazardous Waste: 20 TPA, ITPA E-Waste: 10 TPA	Reduction in Solid Waste Generation 215.2 Kg/day. (Biodegradable Waste: 137.32 Kgs/day Non-Biodegradable Waste: 77.88 kgs/day)
15	Power requirement	Power: 19.208 MVA & Source: TANGEDCO Back Up DG sets: 24 Nos. of 2000 KVA. (Operation: 12 Nos. + Standby 12 Nos.)	Power: 150.6 MVA (128MW) & Source: TANGEDCO Back Up DG sets: 66 Nos. of 3000 KVA. (Operation: 33 Nos. + Standby 33 Nos.)	Increase in power requirement 131.392 MVA. Total 65% (97.89 MVA) of Renewable Energy = (Solar Energy 50% + Wind Energy 15%).
16	Project Cost		Rs. 2086 Crores	
17	Budgetary Allocation For Emp Construction Phase		Construction Phase Capital Expenses: 45.5 Lakhs Operational Expenses: 39.7 Lakhs Operation Phase Capital Expenses: 394.4 Lakhs	

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			Operational / Maintenance Expenses (Per Annum):616.5 Lakhs	
18	CER Cost		Rs. 8 Crores	

S. No	Query	Reply
1.	The proponent must submit details regarding the fire suppression strategies that will be deployed during Fire break out.	The site layout will be equipped with adequate fire safety provision with SCADA controlled facilities to suppress the fire during emergency. The details of fire safety layout and Model of SCADA control screenshot image enclosed as Annexure - I.
2.	The impact on Global Warming, Climate Change, Energy consumption, Cooling mechanisms to reduce temperature.	The following measures will be implemented to reduce the temperature and minimize impact on Global Warming, Climate Change, Energy Consumption & Cooling Mechanism. <ul style="list-style-type: none"> i. Greenbelt area of 3331.6 Sq.m with 251 Nos of trees planned around the project boundaries. ii. Building will conform to achieve of LEEDs Platinum building scores and will obtain LEEDs Platinum certificate. iii. Utilization of Renewable Energy (solar energy & wind energy) 100% of the total energy. iv. Adaptation of SCADA controlled cooling and chiller unit operations v. Continual upgradation of utilization in the Computing and reduce wasted resources. The details of Model of SCADA control screenshot image for Cooling and Chiller unit operations enclosed as Annexure - II.
3.	Since the Data Centre is known to maintain temperature within the facility. The proponent is requested to provide information regarding the technology that will be employed to maintain the temperature within the Data Centre.	To maintain temperature within the Data Centre, Air Cooled Chilling with SCADA controlled facility operation will be established. The proposed model floor layout Temperature Monitoring SCADA screenshot image enclosed as Annexure - III.
4.	The proponent shall submit the details regarding the methodology that will be adopted to maintain humidity within the facility.	To maintain humidity within the Data Centre, Desiccant type dehumidifier with SCADA controlled facility operation will be installed. The proposed Desiccant type dehumidifier equipment model and floor layout Humidity Monitoring SCADA screenshot image enclosed as Annexure - IV.
5.	Impacts on the surrounding environment and the inhabitants within the facility shall be studied and reported.	Energy: The major impact on the environment is due to the energy consumption in the data centre. In order to reduce its impacts various mitigation measures will be implemented.

6.	The proponent shall submit impacts regarding the Toxic Waste generation and its mitigation measures.	Impacts regarding Toxic Waste Generation and Mitigation measures:		
		Description	Impacts	Mitigation Measures
		Toxic Waste Generation (emission from DG sets, hazardous wastes & e-wastes)	Air Pollution, Soil Pollution & Water Pollution Which will lead to human health hazard problems such as skin, respiratory, cancer, neurological damage etc.	<ul style="list-style-type: none"> i. Installation of energy efficient equipments. ii. Monitoring of Power Utilization Effectiveness through SCADA control system. iii. Use of renewable energy. iv. Use of green fuel in DG sets. v. Installation of server arrangement for Cold/Hot aisle. vi. Usage of modular design to separate parts and simplify disposal to reduce waste generation. vii. Safe disposal of toxic waste through authorized waste handler in sustainable manner (separating recyclable, reusable & landfillable wastes).
7.	The proponent shall submit impacts regarding the anticipated E-Waste generation and its mitigation measures.	Anticipated E-Waste generation from Data Centre Project are:		
		Description	Impacts	Mitigation Measures
		E-Waste generation	Air Pollution, Soil Pollution & Water Pollution Which will lead to human health hazard	<ul style="list-style-type: none"> i. Sustainability through innovative Server Installation with SCADA controlled operation. ii. Modular design to separate parts, repaired, replaced or


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		and environment.	recyclable to simplify disposal to reduce E-Waste. ii. Disposal of E-Waste to the Manufacturer / Producer to adhere with Extended Producer Responsibility (EPR) Guidelines of CPCB. iv. Agreement with Authorized E-Waste Handler. v. Awareness to promote environment friendly e-waste management programmes.
8.	The proponent shall discuss in detail regarding the smart and innovative tools/technology that will be employed to tackle environmental conservation.	Innovative technologies planned for Environmental Conservation as follows. 1. High Sustainable, High-Performance Servers with PDU using SCADA control, Advanced processors for boosted performance will reduce energy consumption, Cooling consumption. 2. Automated (SCADA Controlled) Cooling Control Systems along with Desiccant type dehumidifier equipment. 3. Hot and Cold Aisle arrangement in server's hall. 4. Liquid Immersion Cooling System 5. Advanced energy storage Fuel cells (Lithium -Ion Batteries) Smart and Innovative tools/technology proposed model enclosed as Annexure-V.	
9.	Since the proposed activity has high power consumption, the proponent shall furnish the details regarding the Electricity Surveillance and monitoring that will be adopted and its environmental implications.	The power distribution will be monitored by the integrated building management system, Utilization of Renewable Energy (solar energy & wind energy) 100% of the total energy which will have no environmental implication. This system uses PLC controllers and field IO devices to integrate the power distribution devices such as energy meters, switch gears, transformers, generators, UPS, PDUs etc. All the input and output feeders will be installed with energy meters with communication ports that enables all energy usage will be integrated with the BMS system.	


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		BMS system with SCADA controlled monitoring facility which will improve the energy performance management, equipment life and reduce the E-Waste generation.												
10.	The proponent shall furnish the details regarding the Temperature Surveillance and monitoring that will be adopted and its implications.	<p>Temperature and humidity in the server halls (cold aisle) will be monitored.</p> <p>Each cold aisle in the server hall will be installed with minimum of 4 temperature sensors positioned at the top of the rack position and mounted or hung from the top to measure.</p> <p>The temperature sensors will be wired to a controller device which will be IP enabled to communicate with the integrated building management system.</p> <p>The SCADA software maps the temperature / humidity sensors as per its positions in the floor, and the real time dash board is displayed.</p> <p>The threshold alerts for upper and lower margins are configured that sends email and SMS alert if the temperature goes beyond defined limits.</p> <p>Alert range for equipment operation allowable temperature 15° to 32° C and allowable humidity level is 8% to 90%.</p> <p>Any abnormality in temperature/ humidity will be rectified with suitable action to reduce equipment failure and E-Waste generation.</p>												
11.	The proponent shall furnish the details regarding the Carbon Emission Surveillance and monitoring that will be adopted and its implications.	Carbon Emission Surveillance will be conducted once in a year to ensure the sustainability with respect to the proposed carbon sequestration measures. 100% utilization of Renewable Energy will make Zero Carbon emission / Net neutral emission during operation phase. To monitor the carbon emission, periodical Data Centre Technology Update will be implemented. Hence the project will be Zero Carbon emission / Net neutral emission during operation phase. Details of carbon sequestration measures enclosed in Annexure VI.												
12.	The proponent shall submit the details regarding the anticipated per month energy consumption and per year energy consumption and ways to reduce energy consumption.	<p>Anticipated Energy Consumption below:</p> <table border="1"> <thead> <tr> <th>Description</th> <th>Energy Consumption (kw/month)</th> <th>Energy Consumption (kw/year)</th> </tr> </thead> <tbody> <tr> <td>Energy - IT</td> <td>4,53,18,400</td> <td>78,38,20,800</td> </tr> <tr> <td>Energy - Non-IT</td> <td>3,26,59,200</td> <td>39,19,10,400</td> </tr> <tr> <td>Total Energy</td> <td>9,79,77,600</td> <td>1,17,57,31,200</td> </tr> </tbody> </table>	Description	Energy Consumption (kw/month)	Energy Consumption (kw/year)	Energy - IT	4,53,18,400	78,38,20,800	Energy - Non-IT	3,26,59,200	39,19,10,400	Total Energy	9,79,77,600	1,17,57,31,200
Description	Energy Consumption (kw/month)	Energy Consumption (kw/year)												
Energy - IT	4,53,18,400	78,38,20,800												
Energy - Non-IT	3,26,59,200	39,19,10,400												
Total Energy	9,79,77,600	1,17,57,31,200												


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i. High Sustainable, High-Performance Servers with PDU using SCADA control, Advanced processors for boosted performance will reduce energy consumption, Cooling consumption.

ii. Utilization of Renewable Energy (solar energy & wind energy) 100% of the total energy which will achieve net zero greenhouse gases (GHG) emissions.

Water:

Total water requirement 12 KLD which will be used for Domestic purposes only.

Water requirement for cooling purposes is avoided by installation of Air-Cooled Chillers and Precision Air Handling Units.

Waste:

Data centers generate significant waste during construction and operations.

Construction Phase:

Utilization of construction waste such as aggregates, excavated materials and implement 3R concept (Reduction / Reuse / Recycle of wastes) to manage within the site to the maximum possible.

Operation Phase:

Bio degradable waste will be treated in organic waste converter and used as manure. Non Bio degradable waste will be disposed to authorized recycler.

Estimated E-waste generation will be 10 TPA. Minimization of E-Waste through Modular design to separate parts, repaired, replaced or recyclable to simplify disposal of E-Waste.

Land & Biodiversity:

Data centre will be operation in the earmarked area for industrial park. Hence impact on land will be relatively small footprint.

Carbon emissions from energy consumption (i.e., electricity) are normally the biggest portion. As a result, the GHG emissions savings from proposed renewable energy typically outweigh the negative impact on land & biodiversity.


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		<p>Energy Consumption will be monitored using BMS system with SCADA controlled facility which will indicate the higher energy consumption locations.</p> <p>Any abnormality in energy consumption will be rectified with suitable action.</p> <p>To reduce energy consumption equipment installation with</p> <ol style="list-style-type: none"> i. High Sustainable, High-Performance Servers PDU using SCADA control. ii. Advanced processors for boosted performance. iii. Periodical Update of energy conservation technology as per BEE (ECBC) best practices will be implemented. The details of Energy SCADA Monitoring Screenshot image enclosed as Annexure – VII. 																																																
13.	<p>The proponent shall furnish the details regarding whether adequate parking area provided and traffic impact.</p>	<p>As per Tamil Nadu Data Centre Policy 2021, One Parking Space per 300 Sq.m of total Built-up area at the option of the developer. Required parking 298 Nos.</p> <p>Adequate parking area 6833.68 Sq.m provided within the site in the Basement to accommodate Cars – 298 Nos. and Two Wheelers – 234 Nos.</p> <p>The existing traffic scenario and LOS (peak HR Flow)</p> <table border="1" data-bbox="730 779 1257 1025"> <thead> <tr> <th>Road</th> <th>The volume in PCU/hr</th> <th>Capacity as Per IRC</th> <th>V/C Ratio</th> <th>LOS Existing</th> </tr> </thead> <tbody> <tr> <td>Rajiv Gandhi Road (SR 49A) Road</td> <td>8235 (9.00-10.00)</td> <td>3600</td> <td>2.28</td> <td>'F'</td> </tr> <tr> <td>Padayakkam Main Road (SR 49A) Road</td> <td>8260 (11.00-12.00)</td> <td>3600</td> <td>2.29</td> <td>'F'</td> </tr> <tr> <td>Padayakkam Main Road (SR 49A) Road</td> <td>957 (9.00-10.00)</td> <td>1500</td> <td>0.64</td> <td>'C'</td> </tr> <tr> <td>SR 49A JCT</td> <td>954 (11.00-12.00)</td> <td>1500</td> <td>0.63</td> <td>'C'</td> </tr> </tbody> </table> <p>Expected vehicles during Operational phase</p> <table border="1" data-bbox="730 1093 1257 1169"> <thead> <tr> <th>Car Parking Provided</th> <th>Two-Wheeler Parking Provided</th> <th>PCU</th> <th>PCU/hr</th> </tr> </thead> <tbody> <tr> <td>298 x 1 = 298</td> <td>234 x 0.75 = 175.5</td> <td>473.5</td> <td>40</td> </tr> </tbody> </table> <p>The estimated traffic scenario and LOS (peak HR Flow)</p> <table border="1" data-bbox="730 1227 1257 1429"> <thead> <tr> <th>Road</th> <th>The volume in PCU/hr</th> <th>Capacity as Per IRC</th> <th>V/C Ratio</th> <th>LOS Existing</th> </tr> </thead> <tbody> <tr> <td>Rajiv Gandhi Road (SR 49A) Road</td> <td>8231 + 40 = 8271 (9.00-10.00)</td> <td>3600</td> <td>2.29</td> <td>'F'</td> </tr> <tr> <td>Padayakkam Main Road (SR 49A) Road</td> <td>8260 + 40 = 8300 (11.00-12.00)</td> <td>3600</td> <td>2.30</td> <td>'F'</td> </tr> </tbody> </table>	Road	The volume in PCU/hr	Capacity as Per IRC	V/C Ratio	LOS Existing	Rajiv Gandhi Road (SR 49A) Road	8235 (9.00-10.00)	3600	2.28	'F'	Padayakkam Main Road (SR 49A) Road	8260 (11.00-12.00)	3600	2.29	'F'	Padayakkam Main Road (SR 49A) Road	957 (9.00-10.00)	1500	0.64	'C'	SR 49A JCT	954 (11.00-12.00)	1500	0.63	'C'	Car Parking Provided	Two-Wheeler Parking Provided	PCU	PCU/hr	298 x 1 = 298	234 x 0.75 = 175.5	473.5	40	Road	The volume in PCU/hr	Capacity as Per IRC	V/C Ratio	LOS Existing	Rajiv Gandhi Road (SR 49A) Road	8231 + 40 = 8271 (9.00-10.00)	3600	2.29	'F'	Padayakkam Main Road (SR 49A) Road	8260 + 40 = 8300 (11.00-12.00)	3600	2.30	'F'
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		There will be No Change in Level of Service (LOS) due to the proposed Project. Parking Layout with area details enclosed as Annexure - VIII.
14.	The proponent shall submit the impact of change in temperature and humidity on the green belt proposed within the site and in the nearby vicinity.	In the proposed Data Centre building, installation of IT Equipments planned from 2nd Floor to 8th Floor (12.75m to 37.0m Height) with adequate path for Air Flow management to maintain thermal efficiency. The Greenbelt will be located with 9.0m spatial distance from the buildings and expected trees to reach maximum height of 8.0m. As the air duct planned in the 2nd Floor at the height of 16.0m and the hot air removal (Temperature and humidity increase) from the vents via CRAC units to get dispersed in the atmospheric air thereby atmospheric equilibrium will be maintained within the site. Hence no impact on proposed greenbelt within site and nearby vicinity. Details of Floor Elevation with Air Duct Height enclosed as Annexure - IX.
15.	The proponent shall submit the details regarding the facility that will be provided to monitor the health of the workers within the facility.	Construction Phase: Health Surveillance (frequency for Construction Employees within the site - Once in 3 Months. OHC established within the site in case of emergency. Operation Phase: Data Centre Employees Health Surveillance program - Once in 6 Months. Family Health Insurance facility will be provided. Photos of health monitoring of workers within the facility enclosed as Annexure - X.

Now the proposal is placed in the 351st SEAC meeting held on 08.03.2023. Based on the presentation and documents furnished by the project proponent, SEAC after carefully examining the replies submitted by the proponent, decided to reiterate its recommendation already made in 345th SEAC meeting held on 10.01.2023. All other conditions stipulated in the earlier minutes will remain unaltered.

Agenda No: 361 - 07
File No: 9589


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Proposed Expansion of Data Center Building Complex in S.F.No. 17/1, Plot No.6, Ambattur SIDCO Industrial Estate, Ambattur Taluk, Chennai District, Tamil Nadu by M/s. BAM Digital Realty Chennai Private Limited- For Environmental Clearance. (SIA/TN/INFRA2/407628/2022, dated 23.11.2022)

The proposal was placed in 361st SEAC meeting held on 08.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. BAM Digital Realty Chennai Private Limited has applied for Environmental Clearance for the Proposed Expansion of Data Center Building Complex in S.F.No. 17/1, Plot No.6, Ambattur SIDCO Industrial Estate, Ambattur Taluk, Chennai District, Tamil Nadu.
2. The project/activity is covered under Category "B" of item 8(a) "Building & Construction" of the Schedule to the EIA Notification, 2006.
3. Total land area is 32,820sq.m & the total built-up area after expansion is 1,12,265.57sq.m.
4. Earlier, the proposal was placed in the 345th SEAC meeting held on 10.01.2023. Based on the presentation and document furnished by the proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance.**
5. Subsequently, the proposal was placed in the 590th Authority held on 09.0.2.2023. The Authority after detailed deliberation, noted that since the data center is in cloud computing, the following impacts may be studied in detail
 1. The proponent must submit details regarding the fire suppression strategies that will be deployed during Fire break out.
 2. The impact on Global Warming, Climate Change, Energy consumption, Cooling mechanisms to reduce temperature.
 3. Since the Data Centre is known to maintain temperature within the facility. The proponent is requested to provide information regarding the technology that will be employed to maintain the temperature within the Data Centre.
 4. The proponent shall submit the details regarding the methodology that will be adopted to maintain humidity within the facility.
 5. Impacts on the surrounding environment and the inhabitants within the facility shall be studied and reported.


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6. The proponent shall submit impacts regarding the Toxic Waste generation and its mitigation measures.
7. The proponent shall submit impacts regarding the anticipated E-Waste generation and its mitigation measures.
8. The proponent shall discuss in detail regarding the smart and innovative tools/technology that will be employed to tackle environmental conservation.
9. Since the proposed activity has higher power consumption, the proponent shall furnish the details regarding the Electricity surveillance and monitoring that will be adopted and its environmental implications.
10. The proponent shall furnish the details regarding the Temperature surveillance and monitoring that will be adopted and its implications.
11. The proponent shall furnish the details regarding the Carbon Emission surveillance and monitoring that will be adopted and its implications.
12. The proponent shall submit the details regarding the anticipated per month energy consumption and per year energy consumption and ways to reduce energy consumption.
13. The proponent shall furnish the details regarding whether adequate parking area provided and traffic impact.
14. The proponent shall submit the impact of change in temperature and humidity on the green belt proposed within the site and in the nearby vicinity.
15. The proponent shall submit the details regarding the facility that will be provided to monitor the health of the workers within the facility.

In the view of the above, Authority decided to refer back the proposal and SEAC shall examine the above-mentioned queries and shall furnish its recommendations to SEIAA to take further course of action.


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S. No	Description	Details																		
1.	Name of the Project	proposed Expansion of Data Center Building Complex																		
2.	Location	S.F.No. 17/1, Plot No.6, Ambattur SIDCO Industrial Estate,AmbatturTaluk,Chennai District																		
3.	Type of Project	Building and Construction Projects Schedule 8 (a)																		
4.	Latitude & Longitude	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>13° 5'54.38"N</td> <td>80° 9'49.21"E</td> </tr> <tr> <td>2</td> <td>13° 5'54.11"N</td> <td>80° 9'51.88"E</td> </tr> <tr> <td>3</td> <td>13° 5'56.03"N</td> <td>80° 9'53.99"E</td> </tr> <tr> <td>4</td> <td>13° 6'1.80"N</td> <td>80° 9'54.35"E</td> </tr> <tr> <td>5</td> <td>13° 6'3.38"N</td> <td>80° 9'48.78"E</td> </tr> </tbody> </table>	S. No.	Latitude	Longitude	1	13° 5'54.38"N	80° 9'49.21"E	2	13° 5'54.11"N	80° 9'51.88"E	3	13° 5'56.03"N	80° 9'53.99"E	4	13° 6'1.80"N	80° 9'54.35"E	5	13° 6'3.38"N	80° 9'48.78"E
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5.	Total Area (in sq. m)	a) Total land area – 32,820 Sq.m b) Total Ground Coverage area of buildings – 14,113 Sq.m c) Guard Block, substation BLock – 1,437 Sq.m d) Other Utilities (Transformer Yard, Meter Room, Security Room, etc) – 1,188 Sq.m e) Roads and Pavement – 7,877 Sq.m f) Greenbelt Area – 4,923 Sq.m g) OSR Area – 3,282 Sq.m																		
6.	Built up area	1,12,266 Sq.m																		
7.	Cost of Project	Rs. 663.05 Crores																		


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8.	Brief description of the project	<table border="1"> <thead> <tr> <th>Tower</th> <th>No. of Floors</th> <th>Total Built-up Area (Sq.m)</th> </tr> </thead> <tbody> <tr> <td>DC Building 1</td> <td>B + G + 6 Floors + Terrace</td> <td>18,451</td> </tr> <tr> <td>DC Building 2</td> <td>B + G + 6 Floors + Terrace</td> <td>20,527</td> </tr> <tr> <td>DC Building 3</td> <td>B + G + 6 Floors + Terrace</td> <td>47,237</td> </tr> <tr> <td>DG Building 1</td> <td>B + G + 3 Floors</td> <td>3,200</td> </tr> <tr> <td>DG Building 2</td> <td>B + G + 3 Floors</td> <td>3,200</td> </tr> <tr> <td>DG Building 3</td> <td>B + G + 6 Floors</td> <td>15,421</td> </tr> <tr> <td>Substation Block</td> <td>G + 2 Floors</td> <td>2,077</td> </tr> <tr> <td>Guard House</td> <td>Ground Floor</td> <td>154</td> </tr> <tr> <td>Other Utilities (HSD Yard, Transformer Yard, Meter Room, Security Room, STP, OWC)</td> <td></td> <td>2,000</td> </tr> <tr> <td colspan="2">Grand Total (Sq.m)</td> <td>1,12,266</td> </tr> </tbody> </table>	Tower	No. of Floors	Total Built-up Area (Sq.m)	DC Building 1	B + G + 6 Floors + Terrace	18,451	DC Building 2	B + G + 6 Floors + Terrace	20,527	DC Building 3	B + G + 6 Floors + Terrace	47,237	DG Building 1	B + G + 3 Floors	3,200	DG Building 2	B + G + 3 Floors	3,200	DG Building 3	B + G + 6 Floors	15,421	Substation Block	G + 2 Floors	2,077	Guard House	Ground Floor	154	Other Utilities (HSD Yard, Transformer Yard, Meter Room, Security Room, STP, OWC)		2,000	Grand Total (Sq.m)		1,12,266
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9.	a) Water requirement KLD	<p>Total water requirement – 54 KLD</p> <p>Fresh water requirement – 20 KLD</p> <p>i. Domestic water requirement – 20 KLD</p> <p>Treated/Recycled water requirement – 34 KLD</p> <p>i. Green Belt– 17 KLD</p> <p>ii. Flushing – 17 KLD</p>																																	
	b) Source	<p>Construction Phase – Private Tankers</p> <p>Operation Phase</p> <ul style="list-style-type: none"> Primary fresh water source – CMWSSB Secondary source – Treated water from STP 																																	

10.	Quantity of Sewage KLD	During Operation Phase Total Sewage Generation – 34 KLD			
11.	Details of /Sewage Treatment Plant	Sewage Treatment Plant – 40 KLD capacity (2 Nos. of 20 KLD capacity) <ul style="list-style-type: none"> • Equalization tank • Anoxic tank • Aeration Tank • Settling Tank • Clarifier Tank • Treated Water Tank • UF & UV Disinfection system 			
12.	Mode of Disposal of treated sewage with quantity	Total Treated waste water – 34 KLD <ul style="list-style-type: none"> i. Toilet Flushing – 17 KLD ii. Greenbelt Development – 17 KLD 			
13.	Quantity of Solid Waste generated per day, Mode of treatment and Disposal of Solid Waste	S.No	Description	Quantity (Kg/ day)	Methods of Treatment / Disposal
		1	Biodegradable Waste (40%)	158.4	Treated in Organic Waste Converter and used as manure for gardening.
		2	Non-Biodegradable Waste (60%)	105.6	Sent to authorized recyclers.
		3	STP Sludge	3.0	Dried and processed in OWC and used as manure for gardening.
		4	E-Waste	6 T/Annum	Handed over to recyclers/dismantlers


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14.	Power requirement	130 MVA , Source of power – TANGEDCO Grid																																		
15.	Details of D.G. set with Capacity	<p>48 nos. of 2,250 KVA at DG1 and DG2 with a stack height of 38.5 m from the ground level.</p> <p>72 nos. of 2,250 KVA at DG3 with a stack height of 59.5 m from the ground level.</p> <ul style="list-style-type: none"> • Having Acoustic enclosure / room and stack height <p>Provision of inbuilt dry catalytic converter</p> <table border="1"> <thead> <tr> <th>Description</th> <th>Energy consumed in conventional method (kWH) per year</th> <th>Energy consumed in saving method (kWH) per year</th> <th>Total power savings In (kWH) units per year</th> </tr> </thead> <tbody> <tr> <td>Internal and External lighting load (Using LED & Solar power)</td> <td>7,46,772</td> <td>4,48,063</td> <td>2,98,709</td> </tr> <tr> <td>Using VFD in HVAC</td> <td>7,40,448</td> <td>6,86,22,336</td> <td>53,82,144</td> </tr> <tr> <td>Using VFD in Pumps</td> <td>74,00,448</td> <td>53,82,144</td> <td>20,18,304</td> </tr> <tr> <td>Lifts</td> <td>1,68,192</td> <td>1,17,734</td> <td>50,458</td> </tr> <tr> <td>Flat monitors for computers</td> <td>50,458</td> <td>33,638</td> <td>16,820</td> </tr> <tr> <td>Total</td> <td>8,23,70,350</td> <td>7,46,03,915</td> <td>77,66,435</td> </tr> <tr> <td>Total Energy savings In percentage</td> <td colspan="3">9.43%</td> </tr> </tbody> </table>			Description	Energy consumed in conventional method (kWH) per year	Energy consumed in saving method (kWH) per year	Total power savings In (kWH) units per year	Internal and External lighting load (Using LED & Solar power)	7,46,772	4,48,063	2,98,709	Using VFD in HVAC	7,40,448	6,86,22,336	53,82,144	Using VFD in Pumps	74,00,448	53,82,144	20,18,304	Lifts	1,68,192	1,17,734	50,458	Flat monitors for computers	50,458	33,638	16,820	Total	8,23,70,350	7,46,03,915	77,66,435	Total Energy savings In percentage	9.43%		
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16.	Details of Green Belt Area	4,923 Sq.m				
17.	Details of Parking Area	Parking Space Location	Total No. of Car Parking space proposed	Area proposed for car Parking (Sq.m)	Total No. of Two wheeler Parking space proposed	Area proposed for Two wheeler Parking (Sq.m)
		DC Building 1	12	150	24	43
		DC Building 2	12	150	15	27
		DC Building 3	18	225	37	67
		Visitors parking	4	50.	9	16
		Total Proposed	46 Nos.	575 Sq.m	85 Nos.	153 Sq.m
		CMDA Requirement	46 Nos.	500 Sq.m	60 Nos.	108 Sq.m
18.	Provision for rain water harvesting	Total runoff – 957 m ³				
		Based on the annual rainfall days , average daily rainfall is			45 mm/day	
		Average annual rainfall for Chennai region			1200 mm/annum	
		Rainwater collection Tank provided for storing 100% of the roof area. Per day Roof area Rain fall collection is 539 Cum			539 cum	

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		(100 m ³ Underground Rainwater storage tank Proposed)	
		Remaining rainwater will be recharge into recharge well. Recharge pit: 12 Nos with Dia 1.2 m, depth 1.8 m	418 cum
		100 % of rainwater managed inside by storage and recharge within the site	
19.	EMP Cost (Rs.)	During Construction Phase Capital Cost – Rs. 92 Lakhs O& M Cost (per annum) – Rs. 22.5 Lakhs During Operation Phase Capital Cost – Rs. 608 Lakhs Recurring Cost – Rs. 55 Lakhs	
20.	CER activities with the specific allocation of funds	Restoration of Ambattur Lake – Rs. 500 Lakhs	
Appraisal by SEAC Please refer to the minutes of 345 th meeting of SEAC held on 10.01.2023 annexed. The subject is placed before the Authority to decide on the issue of Environmental Clearance for the project subject to the conditions as recommended by SEAC.			

S. No.	SEIAA Query	Reply	Ref. Page No. of EMP
1.	The proponent must submit details regarding the fire suppression strategies that will be deployed during Fire break out.	<ul style="list-style-type: none"> Proposed fire fighting equipment in the data center building complex in compliance with National Building Code (Part IV, Fire & Life Safety Standards of Fire & Life Safety Standards) and Tamil Nadu Fire and Rescue Services Department. 	Page No. 72 & Annexure X (Fire NoC)
2.	The impact on Global warming, Climate change, Energy Consumption, Cooling mechanisms to reduce temperature.	<ul style="list-style-type: none"> The building is designed and proposed to achieve the green building rating i.e. IGBC Platinum Certification. Building materials are proposed in compliance with ECBC & IGBC. The ECBC Values of the proposed construction materials is provided below: 	Page No. 69
3.	Since the Data Centre is known to maintain temperature within the facility. The proponent is	<ul style="list-style-type: none"> We will maintain the temperature within the facility as 24 to 27 degrees Celsius in the work zone (office area) and in the server rooms in compliance with ASHRAE standards. 	Page No. 69


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	<p>requested to provide information regarding the technology that will be employed to maintain the temperature within the data centre.</p>	<ul style="list-style-type: none"> • Proposed to install air cooled HVAC system to maintain the temperature within the data centre with temperature sensors (thermostat). • Following criteria are considered towards selection of HVAC system: <ul style="list-style-type: none"> • To meet the IGBC requirements (Platinum Rating) • Energy efficient equipment resulting in low electrical demand. • To provide a system with low maintenance and running costs. • System to meet the indoor occupational, health and safety standards • System with Eco Friendly refrigerants (GHC free) • Chillers are proposed with technology transfer to sustainable management (HFO refrigerant) 	
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		<ul style="list-style-type: none"> • Design details of HVAC system comprising of heat load calculation, type of equipment selection in compliance with NBC, ECBC, ASHRAE is submitted herewith 	
4.	<p>The proponent shall submit the details regarding the methodology that will be adopted to maintain humidity within the facility.</p>	<ul style="list-style-type: none"> • Humidity sensors will be part of mechanical HVAC system • The humidity levels within the data centre will be maintained as 30%-80%. • Proposed to install the air cooled HVAC system for the data centre building complex. • Design details of HVAC system comprising of heat load calculation, type of equipment selection in compliance with NBC, ECBC, ASHRAE is submitted herewith. • Duct system will be inspected before installation • Regular inspection on the duct, air filters, thermostats, cooling coils, drain pans, outdoor units will be carried out at regular intervals (once in 3 months). 	Page No. 69


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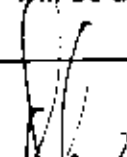

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5.	Impact on the surrounding environment and the inhabitants within the facility shall be studied and reported.	<ul style="list-style-type: none"> • Detailed impact assessment and its mitigation measures during construction and operation phase on the land environment, water environment, air environment, noise environment, traffic, power & energy is reported below. • Overall impact evaluation found to be minor and short term for construction phase and medium for operation phase. 	Page No. 61 to 79.
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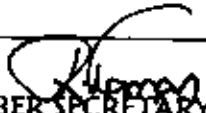
During Construction Phase

Component & Impact	Sources of Impact	Mitigation Measures
Air Quality: Increase in Ground Level Concentration (GLC)	<ul style="list-style-type: none"> • Storage of construction materials (loose materials) • Operation of DG sets • Vehicular movements 	<ul style="list-style-type: none"> • All loose construction materials will be covered with tarpaulin sheets • DG sets with acoustic enclosure and stacks will be used for construction • Only PUC vehicles will be used


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<p>Noise Environment:</p> <p>Increase in noise levels</p>	<ul style="list-style-type: none"> • Movement of construction vehicles, equipment's 	<ul style="list-style-type: none"> • Use of well-maintained equipment fitted with silencers. • Providing noise shields near the heavy construction operations • Construction activity will be limited to daytime hours only. • Use of Personal Protective Equipment (PPE) like ear muffs and ear plug during construction activities.
<p>Water Environment:</p> <p>Changes in Water Quality</p>	<ul style="list-style-type: none"> • Water required for construction activity • Waste water generated from Labour settlements • Accumulation of rainwater 	<ul style="list-style-type: none"> • Use of adhesives in the concretes to reduce water requirement • Septic tank with soak pit arrangements will be installed to treat the sewage


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		<ul style="list-style-type: none"> • Temporary storm water drain with silt traps will be established
<p>Land Environment:</p> <p>Degradation of soil quality</p>	<ul style="list-style-type: none"> • Disposal of solid waste • Spillage of hazardous materials 	<ul style="list-style-type: none"> • The construction waste / debris shall be segregated into recyclable & non-recyclable waste • Only trained labour will be allowed to work with hazardous construction material • Hazardous material shall be handled with utmost care and stored in closed containers
<p>Power & Energy:</p> <p>Energy consumption for construction</p>	<ul style="list-style-type: none"> • Operation of DG sets, electrical equipment's 	<ul style="list-style-type: none"> • Temporary power connection shall be obtained from TNEB/TANGEDCO • During power cuts generator sets with acoustic enclosures

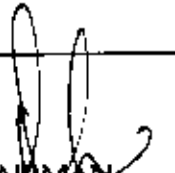
		<ul style="list-style-type: none"> Standard operating procedures shall be followed for operation of all the Electro-mechanical equipment's
During Operation Phase		
Component & Impact	Sources of Impact	Mitigation Measures
Air Quality: Increase in Ground Level Concentration (GLC)	<ul style="list-style-type: none"> Operation of DG sets Vehicular movements 	<ul style="list-style-type: none"> DG sets with acoustic enclosure and stacks will be used Provision of catalytic converter for DG sets 100 % internal parking is proposed in compliance with CMDA norms
Noise Environment: Increase in noise levels	<ul style="list-style-type: none"> Operation of DG sets Vehicular movements 	<ul style="list-style-type: none"> Green Belt Development and development of silence zones for traffic movement.


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		<ul style="list-style-type: none"> • Providing acoustic enclosures and wall surrounding Generator sets • Use of Personal Protective Equipment (PPE) like ear muffs and ear plug during construction activities.
<p>Water Environment:</p> <p>Changes in Water Quality</p>	<ul style="list-style-type: none"> • Sewage generation • Increased runoff from the project activity 	<ul style="list-style-type: none"> • STP with MBBR technology is proposed for treatment of sewage • Complete recycling of treated water is proposed • Water saving fixtures will be installed to reduce water consumption • Sump for storage of rooftop runoff & recharge pits for augment of ground water


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<p>Land Environment:</p> <p>Degradation of soil quality</p>	<ul style="list-style-type: none"> • Disposal of solid waste • Spillage of hazardous materials 	<ul style="list-style-type: none"> • The organic waste shall be composted within the project site using OWC. • Recyclable waste will be handed over to local body • Hazardous Waste and E-Waste shall be handled separately as per their respective Rules under the Environment Protection Act,1986.
<p>Power & Energy:</p> <p>Energy consumption for operation</p>	<ul style="list-style-type: none"> • Operation of DG sets, electrical equipments 	<ul style="list-style-type: none"> • Substation for power distribution will be installed by the project proponent • Use of renewable energy (solar panels at rooftop, purchase of green power) • Buildings are designed to achieve IGBC Platinum Rating


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		<ul style="list-style-type: none"> • District Cooling system is proposed to be adopted due to its efficiency • Compliance of NBC, IGBC, ECBC, ASHRAE for building materials and HVAC system 	
6.	<p>The proponent shall submit impacts regarding the Toxic Waste generation and its mitigation measures</p>	<ul style="list-style-type: none"> • The spent oil / used oil (12 T/Annum) from the DG sets falls under the Schedule 5.1 of Hazardous Waste Management Rules, 2016. • The used/spent oil is recyclable in nature and the stored in drums at dedicated area (15 Sq.m) having covered roof and impervious flooring. • The stored oil will be handed over to the TNPCC authorized recyclers 	Page No. 31

		<ul style="list-style-type: none"> • Agreement with the authorized recyclers for transportation and recycling will be executed • Hazardous waste authorization for generation, collection, storage and disposal will be obtained from TNPCB. 	
7.	SEIAA Query	The proponent shall submit impacts regarding the anticipated E-waste generation and its mitigation measures.	
Description		Details	
Estimated E-Waste Generation		6 T/Annum	
Components of E-Waste		<ul style="list-style-type: none"> • Personal Computing devices like laptop, CPU, hard disk • Printers including cartridges • Elements of Air-conditioners • LED Lamps 	


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Management	<ul style="list-style-type: none"> • E-waste collected will be stored in an Isolated rooms (3 nos. of 20 Sq.m each) earmarked in the ground floor of the building. • It would be disposed through TNPCB authorized E-waste recyclers operating in our locality. • Frequency of disposal from our premises would be once in six months. • Tenants will be encouraged to adopt Buy Back Approach to minimize E- waste generation. 		
8.	<p>The proponent shall discuss in detail regarding the smart and innovative tools/ technology that will be employed to tackle environmental conservation.</p>	<ul style="list-style-type: none"> • Building is designed as a green building to achieve IGBC Platinum Certification • Building materials in compliance with ECBC will be ensured • Electronically commutated centrifugal fans (EC plug fans) in air handling units (AHUs) • Direct cooling technology having energy efficiency will be adopted for HVAC system • Plumbing fixtures that are certified by IGBC under 	Page No. 69.

		<p>Green Product Certification Programme will be used</p> <ul style="list-style-type: none"> • Smart temperature and humidity sensors in the HVAC system • Motion sensor for indoor lighting in server rooms • Energy metering and management of electrical consumption • Natural ventilation (50 % of the office space with daylight illuminance levels for a minimum of 110 Lux) • Lighting power density will be reduced by 30% for building facades • Automated and timed sprinkler systems and subsurface water lines for greenbelt areas • Oil free compressors in HVAC system 	
9.	<p>Since the proposed activity has higher power consumption, the proponent shall furnish</p>	<ul style="list-style-type: none"> • Separate energy meter is proposed for the work zone (office area), server rooms, 	<p>Page No. 52 to 54.</p>


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	<p>the details regarding the Electrical surveillance and monitoring that will be adopted and its environmental implications.</p>	<p>DG rooms utility areas (STP, OWC), common areas.</p> <ul style="list-style-type: none"> • Monthly audit regarding energy consumption will be carried out. • Also, electrical surveillance monitoring will involves in regular verification on function/operation of electrical and electronic equipment, fixtures in the proposed project. • Replacement of equipment/fixture will be carried based on the monitoring 	
<p>10.</p>	<p>The proponent shall furnish the details regarding the Temperature surveillance and monitoring that will be adopted and its implications.</p>	<ul style="list-style-type: none"> • Temperature sensors (i.e., thermistors) will be installed in each and every floor at all locations (i.e., for every 2,500 Sq.m) which shall automatically sense and controls the HVAC system. • Temperature sensors will be connected to the Ethernet which has the following functions: 	<p>Page No. 52 to 54.</p>

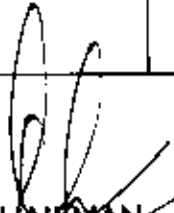
		<ul style="list-style-type: none"> ➤ Real-time temperature monitoring ➤ Automatic archiving on Personal Computer (PC) ➤ Alarms by email and/or pop-up on PC ➤ Display and print graphs, lists 	
11.	<p>The proponent shall furnish the details regarding the Carbon Emission Surveillance and monitoring that will be adopted and its implications.</p>	<ul style="list-style-type: none"> • The building is designed to achieve the IGBC Platinum Rating. • DG set and vehicular movements are the activities related to carbon emission. • DG sets are proposed with provision for catalytic converters along with stack and only PUC certified vehicles will be allowed within the project site. • Also, we wish to Inform you that materials with recyclable nature will be used for construction of the proposed project. 	Page No. 52 to 54.


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		<ul style="list-style-type: none"> • Carbon accounting will be carried out through external agency before operation • Proposed to implement the protocol with respect to Carbon Emission accounting and reporting based on the protocol (GHG Protocol & ISO 14064) published by World Resources Institute (WRI), U.S.A and International Organization for Standardization. • International Standard on Assurance Engagements (ISAE) 3000 Certified Agencies will be engaged for Carbon Emission Surveillance and monitoring at a interval of once in 18 months. 	
12	The proponent shall submit the details regarding the anticipated per month energy consumption and per year energy consumption and ways	<ul style="list-style-type: none"> ➤ Anticipated energy consumption (on 100% storage) per month is 8,79,39,300 kWh (approx. 1,000 kWh per Sq.m) 	Page No. 69.


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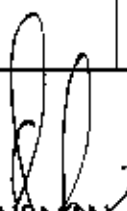
	<p>to reduce energy consumption</p>	<ul style="list-style-type: none"> ➤ Anticipated energy consumption per year is 94,97,44,440 kWh. ➤ Energy Conservation Measures proposed: <ul style="list-style-type: none"> • Solar panels will be installed in the rooftop for illumination of common areas, internal lightings • 20% of total power required will be sourced through purchase of green energy • LED lights, VFD in pumps and lifts will be installed to increase the energy efficiency • LED Lights for Indoor/Outdoor with motion sensor will be placed • External lighting for the roads and pavements will be equipped with solar power 	
<p>13.</p>	<p>The proponent shall furnish the details regarding whether adequate parking area provided and traffic impact.</p>	<ul style="list-style-type: none"> • Parking proposed in compliance with CMDA norms. • 46 nos. of car parks in the area of 575 Sq.m 	<p>Page No. 70 - 72</p>


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		<ul style="list-style-type: none"> • 85 nos. of two wheelers in the area of 153 Sq.m • Traffic analysis shows no major impact anticipated on the existing traffic load 	
14	The proponent shall submit the impact of change in temperature and humidity on the greenbelt proposed within the site and in the nearby vicinity.	<ul style="list-style-type: none"> • Temperature and humidity within the building complex will be controlled by mechanical means (sensors) & equipment can able to perform at extreme humidity without impacting to environment . • The ducts are proposed to take above the height of the building such that ambient air temperature will not be affected. • Periodical air vent monitoring, odour monitoring and replacement of filters as per the manufacturer's recommendations will be carried out towards maintaining the HVAC system. 	Page No. 67 & 68.


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		<ul style="list-style-type: none"> • Greenbelt with total land extent of 4.923 Sq.m (covering 15% of plot area) is proposed. Native trees species as specified in the SEAC's list is proposed for plantation in the greenbelt area. • Thus, no major impact is anticipated on the greenbelt due to change in temperature and humidity. 	
15.	The proponent shall submit the details regarding the facility that will be provided to monitor the health of the workers within the facility.	<p>Construction Phase:</p> <ul style="list-style-type: none"> • 5-10 nos. of Qualified EHS personnel will be employed & Routine health checkup every month • Pre health screening for all employees • First Aid facilities (with a Trained personnel & Ambulance) • PPE for all labourers/employees engaged in construction activities – Helmet, Shoes, Goggles, Visibility Jackets 	Page No. 77


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		<ul style="list-style-type: none"> • Monthly safety assessment to review and corrections • COVID-19 precautions. <p>Operation Phase:</p> <ul style="list-style-type: none"> • Pre health screening for all employees • Regular health check up (master health checkup) at the interval of once in six months will be carried out. • Health and wellness counseling proposed for the workers (as per Wellness standards. • First aid room will be provided within the project site. 	
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Now the proposal is placed in the 361st SEAC meeting held on 08.03.2023. Based on the presentation and documents furnished by the project proponent, SEAC after carefully examining the replies submitted by the proponent, decided to reiterate its recommendation already made in 345th SEAC meeting held on 10.01.2023. All other conditions stipulated in the earlier minutes will remain unaltered.

Agenda No: 361 – 08.

File No.6742/2022

Amendment of Environmental Clearance for the proposed Black Granite Quarry over an extent of 30.10.5 Ha at SF.No.1, Sudanur village, Palacode Taluk, Dharmapuri


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District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited- Environmental Clearance. (SIA/TN/MIN/283002/2022, dt:12.07.2022).

Earlier ,the proposal was placed in the 334th SEAC Meeting held on 02.12.2022. The details of the minutes are available in the website (Parivesh.nic.in).

1. The project/activity is covered under category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
2. The project proponent M/s. Tamil Nadu Minerals Limited has obtained Environmental Clearance vide Lr. No. SEIAA-TN/F.No.6742/EC/1(a)/5012/2020, dt: 09.03.2022 for the proposed Black Granite Quarry over an extent of 30.10.5 Ha at SF.No.1, Sudanur village, Palacode Taluk, Dharmapuri District for the production of 79,004m³ of ROM Black Granite per Annum and 3,950m³ of recoverable production of granite for a period of 5 years and ultimate depth is 30m.
3. Now, the project proponent (PP) M/s. Tamil Nadu Minerals Limited has applied for **amendment** of Environmental Clearance vide Online proposal No. SIA/TN/MIN/283002/2022 dated:12.07.2022 and requested for the amendment of Environmental Clearance for the following vide covering Lr. Dt:13.07.2022 for the reasons stated therein.

Production Quantity as per EC	Amendment Sought
RoM: 79,004m ³ per Annum Black Granite: 3950m ³ per Annum (5% of recovery) EC period: 5 Years.	RoM: 79,004m ³ per Annum Black Granite: 15800 m ³ per Annum (20% of recovery). EC period: 30 Years (or) life of mine whichever is earlier.

Based on the presentation made and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of amendment of Environmental Clearance for the validity period of 30 Years (or) life of mine whichever is earlier and the production quantity of RoM is 79,004m³ per Annum & 15800 m³ of Black Granite per Annum (20% of recovery) subject to all the conditions stipulated vide EC Lr. No. SEIAA-TN/F.No.6742/EC/1(a)/5012/2020, dt: 09.03.2022.


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The subject was placed in the 579th authority meeting held on 16.12.2022. Authority after detailed discussion, decided to refer back the proposal to SEAC for remarks for the following stated therein.

The Authority during discussions, noted the following:

- i) Earlier EC was accorded to M/s TAMIN vide Lr. No. SEIAA-TN/F.No.6742/EC/1(a)/5012/2020, dt: 09.03.2022 for the production of 79,004m³ of ROM Black Granite per Annum and 3,950m³ per Annum of Black Granite (5% Recovery). Now, the PP had submitted a proposal seeking amendment in earlier issued EC for an increase in the recovery rate from 5% to 20%. Subsequently, the production quantity has increased from 3590 m³ to 15800 m³.
- ii) Further, as per the letter issued by Commissioner, Dept.of Geology&Mining, Chennai dated.31.10.2022, the proponent has obtained permit for quantity of 703.514 cu.m from April 2022 to August 2022 which amounts to production capacity only.
- iii) Further, in the EIA/EMP report submitted earlier, the measures proposed to mitigate the pollution load that would arise due to the transportation of material might be anticipated for 10% of the RoM only. But as per the current proposal, there would be increase in the number of transport loads as the recovery increased to 20%. Subsequently, pollution load may also increase.
- iv) As per the MoEF&CC O.M dated11.04.2022, Underpara4.point(v)and (vii) states as follows:

".....Predicted environmental quality parameters arising out of proposed expansion /modernisation shall be within the prescribed norms and the same shall be maintained as per prescribed norms..."

".....The project proponent should have satisfactorily complied the conditions stipulated in the existing EG(s) and satisfactorily fulfilled all the commitments made during the earlier public hearing/ consultation proceedings and also the

commitments given while granting previous expansion, as may be applicable. This shall be duly recorded in the certified compliance report issued by the IRO / CPCB/ SPCB, which should not be more than one year old at the time of submission of application....”

In the view of the above, the current proposal may fall under modernization /expansion due to the change in the mining plan of the earlier accorded EC and further predicted environmental quality parameters are anticipated to change due to the proposed increase in the rate of recovery from 5% to 20%.

v) Further, As per the MoEF & CCO M dated 11.04.2022, Under para 5,

Scenario	Intended change through modernisation/ change of product mix/ expansion	Requirement of revised EIA/ EMP report	Requirement of Certified Compliance Report	Requirement of Fresh Public Consultation	Whether reference to Appraisal Committee is required
I	Projects which involve modernisation/change of product mix without increase in production capacity but with increase in pollution load.	Yes	Yes	No	Yes
II	Up to 20 percent based on environmental safeguard conditions.	Yes	Yes	No	Yes
III	Up to 40 percent based on successful compliance of previous environmental safeguard conditions related to expansion of 20 percent.	Yes	Yes	No	Yes
IV	More than 40 percent but less than 50 Percent based on successful compliance of previous environmental safeguard conditions related to expansion of 40 percent.	Yes	Yes	Yes	Yes

As per the above OM, it is ascertained that, though there is no change in ROM but there will be a significant increase in the pollution load due to the increased truckloads. Hence, scenario I may be applicable to the current proposal. Hence, the proponent may have to produce a revised EIA report and a Certified Compliance Report for the EC issued dated 09.03.2022.

vi) Also under para 2 (a),

“Projects seeking prior EC for expansion with increase in the production capacity beyond the capacity for which prior environmental clearance was granted [with increase in lease area or production capacity in mining projects] shall be considered by the concerned Expert Appraisal Committee [or SEAC, as the case may be] to decide whether

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Environment Impact Assessment and public consultations need to be carried out for grant of EC."

This proposal was again placed in 347th SEAC meeting held on 13.01.2023. Based on the presentation & documents furnished, the Committee after detailed discussion decided to re-confirm the recommendation already made in 334th SEAC Meeting held on 02.12.2022.

Subsequently, the proposal was placed in the 592nd Authority meeting held on 16.02.2023. The authority noted that a public complaint was received from Thiru. A.Murugan Dt:06.01.2023 received by this office Dt: 11.01.2023.

In view of the above, the authority after detailed discussion decided refer back the proposal to SEAC for remarks & recommendation.

The proposal was again placed for appraisal in 361st meeting of SEAC held on 10.03.2023. During committee meeting the PP has presented the reply and submitted the same to SEAC in regard to queries raised by 592th Authority meeting held on 16.02.2023 as follows.


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1.	AD(Mines) Dharmapuri has failed to take into account about the nearest Sudanoor Forest.	AD(Mines) has taken the account of Forest land vide inspection report dated 04.02.201. District Collector, Dharmapuri letter Roc.No. 29/201(Mines), dt.17.07.2017. DFO, Dharmapuri Letter Rc No.5953/2021/F, dated 10.05.2022
2.	There is a Vari(Odal) going along SF No.5.	As directed in the G.O condition No.6.F, TAMIN has provided 50mts safety distance.[G.O Copy enclosed.]
3.	TAMIN creating enormous noise and vibration to the nearby residential areas namely Chudanur, Thandekuppam, Palapandhalil, Yellappankottal, Perumal Kottal, Sathan Kottal & many others small group of family living around the mentioned area which is less than 300m to quarry	TAMIN is carrying out the mining operation in eco-friendly method. I.e. with deploying wire saw machine, Ca(OH) ₂ . TAMIN has conducted the vibration study through Anna University, Mining Department on 16.10.2020 to 18.10.2020. vide Anna University Dept of Mining Engineering letter No. Mining/Consultant /BN/TAMIN/04, dated 23.12.2020. [Copy /photo enclosed]


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4.	TAMIN is creating disturbance to village people during the transportation of the mined out material.	So far TAMIN has obtained way permit and transported 1.489cu.m only vide AD(Mines) File No.16/2023, dated,13.01.2023. [Copy of Bulk Permit enclosed]. So far only one truck has been moved. TAMIN's Lorry No.TN.29 BB7836 dt.31.01.2023.[copy of dispatch slip enclosed]
5.	TAMIN is disturbing the movement of grazing animals and free ranging	Quarrying operation is being carried out at the crest of the hill with mild blasting ie 90mt from ground level with proper watch and ward
6.	As a result of complaints preferred by village people TAMIN stopped quarrying activities. TAMIN might restart quarrying activities after recent relaxation of 1KM RF issues.	Due to some market issues TAMIN has temporarily stopped the mine. As the quarry is located more than 1km form Km RF the ban of one KM RF G.O dated 03.11.2021 does not applicable to this project.

7.	TAMIN has concealed the fact that there is no permanent structure located within 500m from the lease boundary.	TAMIN has informed fact vide EIA Report Page No.267. However, TAMIN has obtained a certified form VAO, Sudanur on 07.03.2022. Certificate says that there is no house/ habitation within 300mt radial distance of TAMIN's Sudanur Quarry SF No.1 Ext.30.30.10.5 Ha Govt. However, 50meter safety distance is enough for Granite quarries as per Rule 36(1)TNMCR,1959. Further Rule,36(1-A) (c) (III) of TNMCR,1959 says that "Inhabited site" shall mean a village site or town site or a house site as referred to in the revenue records or a house sit or layout approved by a Local Body or Town or country or Metropolitan Planning Authority, where the said Body or Authority is created under a statute and empowered to approve such an areas as a house site or lay-out area"
B.	No steps have been taken by TAMIN for afforestation during the course of mining operation.	Within a year TAMIN has planted around 400 saplings. Further 400 has been proposed with help of Dharmapuri forest Department during the raining season. [photo and video enclosed]

District Collector, Dharmapuri.
Proceeding No.156/2022(Kanmam),dt. 11.08.2022

Based on complaint given by Thiru. Annamalai (Former President of Sudanur) and others Collector formed the following special committee to conduct the joint field survey at YAMIN quarry over an extent of 30.10.5 ha of Govt lane in SF No.1 of Sudanur village and one private Blue Metal quarry over an extent of 3.95.5ha of patta land in SF No.105/1(Part) of Sudanur village and directed to submit the report before 18.08.2022.

S/N	Designation	
1.	Revenue District Officer	Chairman
2.	District Forest Officer	Member
3.	Joint Director, Agriculture Department, Dharmapuri	Member
4.	DEE, TNPCB, Dharmapuri	Member
5.	Executive Engineer, PWD, Dharmapuri	Member
6.	AD(Mines) Dharmapuri	Member



District Collector, Dharmapuri.
Memo No.156/2022(Kanmam),dt. 12.11.2022

- Based on the report of special committee , the District Collector has directed both lessees to follow/ maintain the safety distance as per EC and CTO.
- Green belt has to be raised and make more plantation.as per EC and CTO conditions and such photos has to be submitted by both lessees.
- Mild blasting has to be carried out during the quarrying operation.

Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to reiterate its recommendation already made 334th SEAC Meeting held on 02.12.2022. All other conditions stipulated in the earlier minutes will remain unaltered.

Agenda No: 361 - 09
(File No: 6365/2018)

Existing Limestone Mine lease over an extent of 1.14.0Ha (patta land) in S.F.Nos. 202/2k (part) of Olaipadi West Village, Kunnam Taluk, Perambalur District, Tamil Nadu by M/s. Saravana Mines & Minerals -for Terms of Reference under Violation. (SIA/TN/MIN/23188/2018 Dated: 06.04.2018)

The proposal was placed in 361st SEAC meeting held on 10.03.2023. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in).

The SEAC noted the following:


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1. The Project Proponent, M/s. Saravana Mines & Minerals has applied for Terms of Reference Violation for the existing Limestone quarry lease over an extent of 1.14.0Ha (patta land) in S.F.Nos. 202/2k (part) of Olaipadi West Village, Kunnam Taluk, Perambalur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification,2006.
3. The quarry lease was granted vide G.O (3D) No.29 Industries (MMA-2) Dept. dated 03.04.1998 for the period of twenty years (1998-99 to 2017-18). The lease deed was executed on 31.07.1998.
4. As per the MMDR Amendment Act 2015, the period of mining lease is extended for 50 years from the grant of mining lease (upto 2048).
5. The first scheme of mining (2003-04 to 2007-08) was prepared and approved by the Indian Bureau of mines, Chennai vide letter No.TN/LST/MS-268-MDS dated 1.11.2004.
6. The scheme of mining was not prepared for the period (2008-09 to 2012-13).
7. The Scheme of mining period (2013-14 to 2017-18) was approved by the Indian Bureau of Mines vide letter no.TN/PBR/LST/MS-854-MDS, dated: 07.06.2013 and mining plan was expired on 31.03.2018. The production as per the RoMP, 1,26,095 Ts of RoM including 1,13,486 Ts of Limestone @ 90%. The depth of mining is 6 m BGL (Existing pit – 6m).
8. Earlier, this proposal was placed for appraisal in the 341st Meeting of SEAC held on 29.12.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to grant of **Terms of Reference (TOR) under Violation category**, subject to the additional TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants.
9. Subsequently, this proposal was placed for appraisal in the 586th SEIAA meeting held on 25.01.2023 & 27.01.2023. The Authority noted that this proposal seeking Terms of Reference (ToR) under violation lacks the following valid mandatory documents for considering issue of ToR

- Copy of valid mining lease approval obtained from the competent Authority.
- Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
- Copy of approved review of scheme of mining plan by the competent authority i.e Dept of Geology and Mining.
- Copy of request letter submitted for renewal of mining plan/mining lease.

In view of the above, Authority after detailed discussion decided to call for the above said valid mandatory documents so as to consider the issue of Terms of Reference (ToR) under violation.

In the meantime, the authority decided that in case the proponent does not provide the above said details sought for in 3 months, the Member Secretary, SEIAA may refer the proposal to SEAC and to take credible action against the PP under Sec.19 of Environment Protection Act,1986.

Based that this proposal has again been placed in 361st SEAC meeting held on 10.03.2023 and the PP has made re-presentation covering the above points is as follows.

The PP furnished reply for the additional queries raised by the Authority in its 586th SEIAA meeting held on 25.01.2023 & 27.01.2023.

S.No	SEIAA Query	Reply	Reference
1	Copy of valid mining lease approval obtained from the competent Authority.	The mining lease was granted by the Commissioner & Director of Geology and Mining for the period of twenty years 1998-99 to 2017-18 (20 years). As per the MMDR Amendment Act 2015, the lease was extended for 50 years.	Letter No. G.O.(3D) No.29 Industries (MMA-2), Dated:03.04.1998


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		Hence the validity of the mining lease extended upto 2048.	
2	Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.	As per the MMDR Amendment Act 2015, the lease was extended for 50 years. Hence the validity of the mining lease extended upto 13.09.2048 Review of Mining plan prepared for the period of 2014-15 to 2018- 19 and the same has been approved considering the MMDR Amendment ACT 2015, hence the lease is valid upto 2048	Review of Mining plan approved vide Letter No:TN/PBR/LST/MS- No: 854.MDS Dated 07.06.2013. MMDR Amendment ACT, 2015
3	Copy of approved review of scheme of mining plan by the competent authority of the Department of Geology and Mining.	Review of Mining plan for the period of 2023-24 to 2027-28 is due for submission and shall be presented during Final EIA & EMP report.	
4	Copy of request letter submitted for renewal of mining plan/mining Lease.	Review of Mining plan for the period of 2023-24 to 2027- 28 is due for submission and shall be presented during Final EIA & EMP report.	


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The SEAC accepted the reply furnished by the Project Proponent and decided to reiterate the recommendations already made in its 341st Meeting of SEAC held on 29.12.2022. The SEAC decided that the PP shall prepare, submit and present Chapter 13 within one year from the date of issue of ToR comprising of the following components in compliance with the Supreme Court order stated in MoEF & CC letter F.No. 3-5012017 IA.III-pt dated: 05th January 2018, which includes the following:

1. The proponent should prepare an exclusive content for the ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation separately in a chapter and include in the EIA / EMP report.
2. The PP shall produce the Scheme of Mining for the next five year of the Approved Mining Plan as approved by the Competent Authority.
3. The Validity of Lease Period
4. The proponent is required to submit the No Objection Certificate obtained from the Department of Geology and Mining, Government of Tamil Nadu regarding payment of 100% cost of illegally mined mineral under section 21(5) of MMDR Act 1957

Further, SEIAA shall request the TNPCB to initiate take action u/s 19 of E(P) Act 1986 immediately against the PP for the committed violation.

Agenda No: 360-10

(File No: 9549/2022)

Existing Grey Granite Quarry lease over an extent 3.19.5 Ha at S.F.Nos. 347/1, 347/2, 347/4, 347/5, 348/4, 348/5, 348/6B1, 348/6C & 348/6D1 Jagadevipalayam Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by M/s. Everking Granite - For Terms of Reference. (SIA/TN/MIN/404966/2022 Dt:04.11.2022)

Earlier, this proposal was placed in the 346th SEAC Meeting held on 12.01.2023. The details of the minutes are available in the website (parivesh. nic. in).

The SEAC noted the following:

1. The project proponent, M/s. Everking Granite has applied for Terms of Reference for the existing Grey Granite Quarry lease over an extent 3.19.5 Ha at S.F.Nos.


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347/1, 347/2, 347/4, 347/5, 348/4, 348/5, 348/6B1, 348/6C & 348/6D1 Jagadevipalayam Village, Bargur Taluk, Krishnagiri District, Tamil Nadu.

2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was issued vide DEIAA Lr. No. 03/DEIAA-KGI/EC No25/2018 Dt: 27.08.2018 valid upto 26.08.2023 for Grey Granite Quarry lease over an extent S.F.Nos. 347/1, 347/2, 347/4, 347/5, 348/4, 348/5, 348/6B1, 348/6C & 348/6D1 Jagadevipalayam Village, Bargur Taluk, Krishnagiri District, Tamil Nadu and production of 52459 Grey Granite & Ultimate depth upto 30m
4. Validity of lease is upto 27.5.2038
5. MoEF&CC Notification S.O. 221(E), Dt :18.01.2021.
6. MoEF&CC Notification S.O. 1807(E), Dt: 12.04.2022.
7. MoEF&CC O.M. Dt:13.12.2022.
8. The total production for the first 5 years(2023-24 to 2027-28) not to exceed RoM: 100413m³, Grey Granite (30% recovery) - 30124 m³ with the Ultimate depth shall not exceed 30m.

During the meeting, the proponent stated that he had requested for an automatic extension as per the MoEF&CC notification dated 12.04.2022 and O.M dated 13.12.2022 and hence requested for the same.

SEAC noted that as per OM Dated 13.12.2022, Clarification on the amendment to EIA Notification 2006 Issued vide S.O. No. 1807(E) dated 12.04.2022 with regard to validity of Environment Clearance, para 2 (ii) states that...

"The Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the EIA Notification 2006 as on the date of publication of Notification i.e., 12.04.2022 shall stand automatically extended to respective increased validity as mentioned at Para no. 1 column (C) above."

Based on the presentation made by the proponent and the facts made available by the PP, the SEAC decided to confirm that the proposal is eligible for 'automatic extension' as per the aforementioned OM Issued by the MoEF & CC.


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Subsequently, it was placed in 591st Authority meeting held on 10.2.2023, and the authority after detailed discussion decided that the automatic extension of validity of prior Environmental Clearance should be based on approval mining plan. Also, the project proponent has filed application seeking Terms of Reference (ToR) vide online proposal No.SIA/TN/MIN/404966/2022, dated: 04.11.2022 only and not for Extension validity of Environmental Clearance. In view of the above, SEAC has decided to refer back the proposal to SEAC and SEAC is requested consider approved mining plan and to recommended approval of ToR”.

It is again been placed in 361st SEAC meeting held on 10.3.2023. During the meeting the PP/EIA Co Ordinator stated that they would like to withdraw this proposal quoting with MOEF&CC O.M dated 13.12.2022. Hence, the SEAC has decided to defer the proposal and requested the SEIAA to take further action accordingly.

Agenda No: 361 – 11.

(File No: 9550/2022)

Existing Grey Granite Quarry lease over an extent 1.56.5 Ha at S.F.Nos. 353/2A1B, 2A7, 2B, 2C1 & 2E1A, Jagadevipalayam Village Bargur Taluk, Krishnagiri District, Tamil Nadu by Thriu E.Jagadeesan - For Terms of Reference. (SIA/TN/MIN/404965/2022 Dt:04.11.2022)

Earlier, the proposal was placed in the 346th SEAC Meeting held on 12.01.2023. The details of the minutes are available in the website (parivesh. nic. in).

The SEAC noted the following:

1. The project proponent, Thriu E.Jagadeesan has applied for Terms of Reference for the existing Grey Granite Quarry lease over an extent 1.56.5 Ha at S.F.Nos. 353/2A1B, 2A7, 2B, 2C1 & 2E1A, Jagadevipalayam Village Bargur Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was issued vide DEIAA Lr. No. 03/DEIAA-KGI/EC No.104/2018 Dt: 27.08.2018 valid upto 26.08.2023 for Grey Granite Quarry lease over an extent 1.56.5 Ha at S.F.Nos. 353/2A1B, 2A7, 2B, 2C1 & 2E1A, Jagadevipalayam Village


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Bargur Taluk, Krishnagiri District, Tamil Nadu and production of 9374 Grey Granite & Ultimate depth upto 6m

4. MoEF&CC Notification S.O. 221(E), Dt :18.01.2021.
5. MoEF&CC Notification S.O. 1807(E), Dt: 12.04.2022.
6. MoEF&CC O.M, Dt:13.12.2022.
7. Hence, the total production for the first 5 years not to exceed RoM: 51764m³, Grey Granite (30% recovery) - 15529 m³, Granite Waste (70%)- 36235 m³, Topsoil - 1131m³ & Weathered Rock - 4484 m³ with the Ultimate depth shall not exceed 19m. The annual peak production shall not exceed 1040 m³(4th year).

During the meeting, the proponent stated that he had requested for an automatic extension as per the MoEF&CC notification dated 12.04.2022 and O.M dated 13.12.2022 and hence requested for the same.

SEAC noted that as per OM Dated 13.12.2022, Clarification on the amendment to EIA Notification 2006 issued vide S.O. No. 1807(E) dated 12.04.2022 with regard to validity of Environment Clearance, para 2 (ii) states that...

"The Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the EIA Notification 2006 as on the date of publication of Notification i.e., 12.04.2022 shall stand automatically extended to respective increased validity as mentioned at Para no. 1 column (C) above."

Based on the presentation made by the proponent and the facts made available by the PP, the SEAC decided to confirm that the proposal is eligible for 'automatic extension' as per the aforementioned OM issued by the MoEF & CC.

Subsequently, the proposal was placed in the 591st Authority meeting held on 10.02.2023. The authority after detailed discussion decided that the automatic extension of validity of prior valid Environmental Clearance should be based on approved mining plan. Also, the PP has filed application seeking Terms of reference (ToR) vide online proposal No. SIA/TN/MIN/404965/2022 Dt:04.11.2022 only and not for Extension of validity of Environmental Clearance. In view of the above, SEAC has decided to refer back the proposal to SEAC and SEAC is requested consider approved mining plan and to recommend for approval of ToR.


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The proposal was again placed for appraisal in 361st meeting of SEAC held on 10.03.2023. During committee meeting the PP has presented the reply and submitted the same to SEAC in regard to queries raised by 591st Authority meeting held on 10.02.2023 as follows.

S.No.	Details sought by SEIAA	Reply furnished by PP
1.	The authority after detailed discussion decided that the automatic extension of validity of prior valid Environmental Clearance should be based on approved mining plan. Also, the PP has filed application seeking Terms of reference (ToR) vide online proposal No. SIA/TN/MIN/404965/2022 Dt:04.11.2022 only and not for Extension of validity of Environmental Clearance.	Online application was made vide TOR Application SIA/TN/MIN/404965/2022 Dt:04.11.2022 but the MoEF&CC clarification Notification for automatic extension of EC has come on 13.12.2022. Therefore, the applicant would like to withdraw the TOR application.

During the meeting the PP/EIA Co Ordinator stated that they would like to withdraw this proposal quoting with MOEF&CC O.M dated 13.12.2022. Hence, the SEAC has decided to defer the proposal and requested the SEIAA to take further action accordingly.

Agenda No: 361 – 12.

(File No: 9494/2022)

Exsting Grey Granite Quarry lease over an extent 1.78.0 Ha at S.F.No.375/2D, 375/3, 375/2E (P), &377/1A1Chendarapalli Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Thiru.A.Sathar- For Terms of Reference. (SIA/TN/MIN/406217/2022 dated 26.09.2022)

Earlier, the proposal was placed in the 345th SEAC Meeting held on 10.01.2023. The details of the minutes are available in the website (parivesh. nic. in).

The SEAC noted the following:

1. The project proponent, Thiru.A.Sathar has applied for Terms of Reference for the proposed Grey Granite Quarry lease over an extent 1.78.0 Ha at


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S.F.No.375/2D, 375/3, 375/2E (P), &377/1A1 Chendarapalli Village, Bargur Taluk, Krishnagiri District, Tamil Nadu.

2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was issued vide Lr. No.SEIAA-TN/F.No.5055/1(a)/ EC.No: 3237/2016 dated:06.07.2016 for Grey Granite Quarry lease over an extent 1.78.0 Ha at S.F.No.375/2D, 375/3, 375/2E (P), &377/1A1 Chendarapalli Village, Bargur Taluk, Krishnagiri District, Tamil Nadu and production of 2025 cu.m Grey Granite & Ultimate depth upto 9m.
4. MoEF&CC Notification S.O. 221(E), Dt:18.01.2021.
5. MoEF&CC Notification S.O. 1807(E), Dt: 12.04.2022.
6. MoEF&CC O.M, Dt: 13.12.2022.
7. Hence, the total production for the first 5 years not to exceed RoM: 19130 m³. Grey Granite (50% recovery) – 9565 m³, Granite Waste (50%)- 9565 with the Ultimate depth shall not exceed 19m. The annual peak production shall not exceed 1040 m³(4th year).

During the meeting, the proponent stated that he had requested for an automatic extension as per the MoEF&CC notification dated 12.04.2022 and O.M dated 13.12.2022 and hence requested for the same.

SEAC noted that as per OM Dated 13.12.2022, Clarification on the amendment to EIA Notification 2006 issued vide S.O. No. 1807(E) dated 12.04.2022 with regard to validity of Environment Clearance, para 2 (ii) states that...

"The Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the EIA Notification 2006 as on the date of publication of Notification i.e., 12.04.2022 shall stand automatically extended to respective increased validity as mentioned at Para no. 1 column (C) above."

Based on the presentation made by the proponent, the SEAC recommend the proposal for 'automatically extension to the respective increased validity' as per the aforementioned OM issued by the MoEF & CC.

Subsequently, the proposal was placed in the 590th Authority meeting held on 09.02.2023. The authority after detailed discussion decided that the automatic


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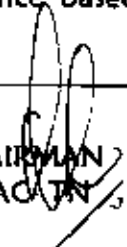
extension of validity of prior valid Environmental Clearance should be based on approved mining plan. Also, the PP has filed application seeking Terms of reference (ToR) vide online proposal No.SIA/TN/MIN/83004/2022 Dt:30.08.2022 only and not for Extension of validity of Environmental Clearance. In view of the above, SEAC has decided to refer back the proposal to SEAC and SEAC is requested consider approved mining plan and to recommend approval of ToR.

The proposal was again placed for appraisal in 361st meeting of SEAC held on 10.03.2023. During committee meeting the PP has presented the reply and submitted the same to SEAC in regard to queries raised by 590th Authority meeting held on 09.02.2023 as follows.

The proposal was again placed for appraisal in 361st meeting of SEAC held on 10.03.2023. During committee meeting the PP has presented the reply and submitted the same to SEAC in regard to queries raised by 590th Authority meeting held on 09.02.2023 as follows.

S.No.	Details sought by SEIAA	Reply furnished by PP
1.	The authority after detailed discussion decided that the automatic extension of validity of prior valid Environmental Clearance should be based on approved mining plan. Also, the PP has filed application seeking Terms of reference (ToR) vide online proposal No.SIA/TN/MIN/83004/2022 Dt:30.08.2022 only and not for Extension of validity of Environmental Clearance. In view of the above, SEAC has decided to refer back the	To bring to kind notice and record the PP had obtained Environmental Clearance for the applied area dated 06.07.2016 with validity limited to 5Years. Therefore, applied for Terms for Reference vide online Dated 30.08.2022. Whereas, MoEF&CC Clarified EC validity vide OM vide F.no.1A3-22/28/2022.1A111 (E181584) Dated 13.12.2022. Hence, the PP has requested for the confirmation of validity of Environmental Clearance based


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	proposal to SEAC and SEAC is requested consider approved mining plan and to recommend approval of ToR.	on the above said Office memorandum.
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Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to reiterate its recommendation already made 345th SEAC Meeting held on 10.01.2023. All other conditions stipulated in the earlier minutes will remain unaltered.

Agenda No: 361 - 13
File No: 9603

Proposed Rough stone & gravel over an extent of 2.82.5 Ha at S.F.Nos.153/1, 2, 3, 4, 5, 6, 154/3A2, 162/9, 10 & 11 of Udaiyalipatti Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by Tmt. U. Vijayalakshmi - For Terms of Reference. (SIA/TN/MIN/408143/2022, dated: 28.11.2022)

The proposal was placed in 361st SEAC meeting held on 08.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent Tmt. U. Vijayalakshmi has applied for Terms of Reference for the Proposed Rough stone & gravel over an extent of 2.82.5 Ha at S.F.Nos.153/1, 2, 3, 4, 5, 6, 154/3A2, 162/9, 10 & 11 of Udaiyalipatti Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The Production for the five years states that total quantity should not exceed 90,700m³ of rough stone, 11,856 m³ of Gravel for an ultimate depth of mining upto 40m (2m Gravel + 38m Rough Stone).
4. Earlier, the proposal was placed in 346th SEAC meeting held on 12.01.2023. During the presentation proponent requested for withdrawal of the proposal citing the following reasons


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EC obtained Date	16.09.2016
Lease Deed Registered Date: 03.10.2016	Validity of EC – 02.10.2021
Validity of Extension of EC	S.O. 221 (E) Dated: 18.01.2021 Validity of EC – 02.10.2022

As per the OM Dated 13.12.2022, project that has valid Environmental Clearance as on date of notification 12.04.2022 shall stand automatically extended.

During the meeting, the proponent stated that he had requested for an automatic extension as per the MoEF&CC notification dated 12.04.2022 and O.M dated 13.12.2022 and hence requested for the same.

SEAC noted that as per OM Dated 13.12.2022, Clarification on the amendment to EIA Notification 2006 issued vide S.O. No. 1807(E) dated 12.04.2022 with regard to validity of Environment Clearance, para 2 (ii) states that...

"The Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the EIA Notification 2006 as on the date of publication of Notification i.e., 12.04.2022 shall stand automatically extended to respective increased validity as mentioned at Para no. 1 column (C) above."

Based on the presentation made by the proponent and the facts made available by the PP, the SEAC decided to confirm that the proposal is eligible for 'automatic extension' as per the aforementioned OM issued by the MoEF& CC and therefore SEIAA may consider PP's request to withdraw the application.

- Subsequently, the proposal was placed in the 591st Authority meeting held on 10.02.2023. The Authority after detailed discussion decided that the automatic extension of validity of prior Environmental Clearance should be based on approval mining plan. Also, the project proponent has filed application seeking Terms of Reference (ToR) vide online proposal No. SIA/TN/MIN/408143/2022, dated: 11.01.2023 only and not for Extension validity of Environmental Clearance.


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In view of the above, SEIAA has decided to refer back the proposal to SEAC and SEAC is requested consider approved mining plan and to recommended approval of ToR.

The proposal was place in the 361st SEAC meeting held on 08.03.2023 and the EIA Coordinator stated that the PP has decided to withdraw the ToR application due to economic reasons. SEAC, therefore, decided to remit the file back to SEIAA to consider the withdrawal application of the PP, as and when made.

Agenda No: 361 – 14.

File No.1827/2022

Existing Black granite qquarry over an extent of 6.73.0 Ha at S.F.No. 4/2 & 4/37 Thandrampattu Village, Chengum Taluk, Tiruvannamalai District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited– Terms of Reference. (SIA/TN/MIN/23931/2018).

Earlier, this proposal was placed in the 347th SEAC Meeting held on 13.1.2022.

The details of the minutes are available in the website (Parivesh.nic.in).

The SEAC noted that

1. The project proponent, M/s. Tamil Nadu Minerals Limited has applied for Extension of Environmental Clearance issued for the Existing Black Granite quarry lease over an extent of 6.73.0 Ha at S.F.No. 4/2 Thandrampattu Village, Chengum Taluk, Tiruvannamalai District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The period of lease from 1.09.2009 to 31.08.2029
4. The PP has obtained Environmental Clearance under violation category vide SEIAA-TN/F.No.1827/2013/1(a)/EC-4556/2021 Dt. 24.2.2021 with valid up to 31.3.2022 with the production quantity 9690 m3 of Black granite.
5. MoEF&CC Notificatlon S.O. 221(E), Dt :18.01.2021.
6. MoEF&CC Notificatlon S.O. 1807(E), Dt: 12.04.2022.
7. MoEF&CC O.M. Dt:13.12.2022.
8. The Scheme of mining is as follows

Scheme -2


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Sl No	Year	Proposed Production quantity in M ³ as per EC			Actual Production quantity in M ³ as per EC			Approval of Scheme of Mining -II
		RoM	Production [10%]	Granite rejects	RoM	Production	Granite rejects	
1.	2017-2018	50028	5003	45025	-	-	-	Re.Lr.No.2993/MMM /2020. dt.13.07.2020
2.	2018-2019	50121	5012	45109	-	-	-	
3.	2019-2020	50221	5022	45199	-	-	-	
4.	2020-2021	46754	4675	42079	-	-	-	
5.	2021-2022	50154	5015	45199	-	-	-	
Total		247278	24727	222551	-NIL-	-NIL-	-NIL-	

Scheme 3

Sl No	Year	Proposed Production quantity in M ³ as per EC			Actual Production quantity in M ³ as per EC			Approval of Scheme of Mining -III
		RoM	Production [10%]	Granite rejects	RoM	Production	Granite rejects	
1.	2022-2023	50224	5022	45202	-	-	-	Re.Lr.No.1175/MMM/2022. dt.08-03-2022
2.	2023-2024	46754	4675	42079	-	-	-	
3.	2024-2025	50149	5015	45134	-	-	-	
4.	2025-2026	50031	5003	45028	-	-	-	
5.	2026-2027	50118	5012	45106	-	-	-	
Total		247276	24727	222549	NIL	NIL	NIL	


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9. The Total quantity of RoM does not exceed with 247278 M³ and 10% of recovery -24727m³. The annual peak production 50224 m³- ROM & 5022 M³ of Black granite (1st year) with an ultimate depth of 30m from AGL.

Based on the presentation and details furnished by the project proponent, SEAC after detailed discussions decided that the validity of the EC is deemed to be extended upto 30 years/life of mine as per the MoEF&CC Notification S.O. 1807(E), Dt: 12.04.2022 & MoEF&CC O.M. Dt:13.12.2022.

Subsequently, it was placed in 592nd SEIAA meeting held on 16.2.2023 and the authority after detailed discussion decided that the automatic extension of validity of prior Environmental Clearance should be based on approval mining plan. Also, the project proponent has filed application seeking Terms of Reference (ToR) online proposal only and not for Extension validity of Environmental Clearance. In view of the above, SEIAA has decided to refer back the proposal to SEAC and SEAC is requested consider approved mining plan and to recommended approval of ToR

This proposal again been placed in 361st SEAC meeting held on 10.3.2023. During the meeting the PP has furnished the following details.

Reply to Query
1. In this case the lease is valid upto 31.08.2029 vide GO .3(D) No.21, Industries (MME.1) Department, dated 03.08.2009
2. The Mining plan is valid upto lease period i.e 31.08.2029 under Rule 18 of Granite Conservation and Development Rules,1999.
3. The validity of EC restricted for Five years EC only upto 31.03.2022
4. The application for extension of EC was made on hard copy by TAMIN vide letter Rc No. 11692/ML3/2013, dated 16.03.2022.
5. Now TAMIN has applied vide Parivesh portal for extension of EC
6. As per latest clarification given by MoEF&CC this case is eligible for automatic extension as per OM dated 13.12.2022 clarification of the amendment to EIA Notification,2006 with regard to validity of Environment clearance para 2 (ii) states that ...

"The environment clearance for which the Project Proponents have submitted the application for extension of validity as per the provisions of the EIA Notification, 2006 as on the date of publication of Notification i.e., 12.04.2022 shall stand automatically extended to respective increased validity as mentioned that para no. I.coloum (C) above".

7. We therefore request SEIAA to conform the automatic extension of the above.

Based on the presentation & documents furnished, the Committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to reiterate its recommendation already made in 347th SEAC Meeting held on 13.1.2023.

Agenda No: 350-15


(File No: 8616/2021)

Proposed Rough stone & Gravel quarry lease over an extent of 2.66.0 Ha in, SF. Nos. 63/1, 64/1A, 64/3A & 64/5A of Kavundampalayam Village, Gobichettipalayam Taluk, Erode District, Tamil Nadu by Thiru.S.Kandasamy - For Environmental Clearance. (SIA/TN/MIN/ 404467/2022, Dt: 28.10.2022).

The proposal was placed in 350th SEAC meeting held on 02.02.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.S.Kandasamy has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 2.66.0 Ha in S. F. Nos. 63/1, 64/1A, 64/3A & 64/5A of Kavundampalayam Village, Gobichettipalayam Taluk, Erode District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 2,83,295m³ of rough stone and 25,380m³ of Gravel with an ultimate depth of mining is 40m (2m Gravel + 38m Rough Stone). The annual peak production is 63045m³ of Rough Stone (4th year) and 12,150m³ of Gravel (1st year).
4. ToR issued vide Lr.No.SEIAA-TN/F.No.8616/SEAC/ToR-1025/2021 dated 26.08.2021.


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5. Public hearing conducted on 28.07.2022.

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru.S.Kandasamy S/o.K.R.Subramaniam No.12/1, Kamaraj Street Chinna Kodiveri Gobichettipalayam Erode District-638503
2	Type of quarrying	Rough stone & Gravel
3	S.F No. Of the quarry site with area break-up	63/1, 64/1A, 64/3A & 64/5A
4	Village In which situated	Kavundampalayam
5	Taluk in which situated	Gobichettipalayam
6	District in which situated	Erode
7	Extent of quarry (in ha.)	2.66.0Ha
8	Period of quarrying proposed	5 years
9	Type of mining	Opencast Mechanized Mining
10	Production (Quantity in m ³)	As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 2,83,295m ³ of Rough stone and 25,380m ³ of Gravel with an ultimate depth of mining 40m (2m Gravel + 38m Rough Stone). The annual peak production is 63045m ³ of Rough Stone (4 th year) and 12,150m ³ of Gravel (1 st year).
11	Latitude & Longitude of all corners of the quarry site	11°31'05.96" N to 11°31'05.96" N 77°22'17.19"E to 77°22'24.38"E
12	Top Sheet No.	58 E/06
13	Man Power requirement per day:	36 Nos.
14	Precise area communication approved by the Assistant Director, Department of Geology & Mining, with date	Na.Ka.No.18122/2018/X-1 dated: 07.05.2021
15	Mining Plan approved by the Assistant Director, Department of Geology and Mining, Erode with date	Rc.No.18122/2018/X-1 dated: 31.05.2021
16	AD mines 500m cluster letter approved by the Assistant Director, Department of Geology & Mining, with date	Rc. No.18122/2018/X-1 dated: 02.06.2021


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17	Water requirement: 1. Drinking & domestic purposes 2. Dust suppression 3. Green Belt (in KLD)	3.0 KLD 1.0 KLD 1.5 KLD 0.5 KLD
18	Power requirement a. Domestic Purpose b. Industrial purpose	TNEB 2.48,180 Liters of HSD for the entire period of life.
19	Depth of quarrying	40m (2m Gravel + 38m Rough Stone)
20	Depth of water table	70m in summer season -65 in rainy season
21	Whether any habitation within 300m distance	No
22	Project Cost	Rs. 60.11Lakhs
23	EMP cost	Rs. 341.42 Lakhs
24	CER cost	Nil
25	VAO certificate regarding 300m habitation within 300m	Letter dated: 01.06.2021
26	ToR issued	ToR issued vide Lr.No.SEIAA-TN/F.No.8616/SEAC/ToR-1025/2021 dated 26.08.2021.
27	Public Hearing Details	Public hearing conducted on Dated: 28.07.2022.

This proposal was placed for appraisal in 595th Authority Meeting held dated 20.02.2023 & 21.02.2023.

The Authority noted that this proposal was placed for appraisal in this 350th meeting of SEAC meeting held on 02.02.2023 and SEAC has furnished its recommendation to the Authority for granting Environmental Clearance to the project subject to the conditions stated therein. After detailed discussion the Authority decided to request the Member Secretary SEIAA-TN to refer back the proposal to SEAC-TN stating the following reasons.

1. As per the kml uploaded by the proponent in the online through the Parivesh portal, it is ascertained that there are many structures, Odai and agricultural lands exists within 300m radius.

"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 receipt of proposals for according clearance, the Director of Geology and Mining shall decide upon the continuance or closure, as the case may be


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of any quarry which is situated within 300 metres from the now layout, building sought for such "clearance".

Now the proposal was placed in 361st SEAC meeting held on 10.03.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEIAA.

S.No	Query	Reply
1	As per the kml uploaded by the proponent in the online through the Parivesh portal, it is ascertained that there are many structures, Odai and agricultural lands exists within 300m radius.	<p>In the southern side of the proposed lease area at 118m is a house with cattle shed, workers shelter and Machinery shelter of 9000 sq feet owned by Proponent Kandasamy. The PP paid the House tax.</p> <p>At 115m in the South eastern side, a shed of 1200sq feet is owned by Mrs Indirani owner of the P2 quarry lease in the same cluster. The shed is in use for her quarry employees.</p> <p>At 215m and 254m in the southwest and southern side of the lease area is the open well with 5hp Motor Pump shed of king size which is also used for keeping the agricultural equipment's to make Banana Grove. The Banana yield and leaf were packed in this shelter for sale.</p>

The Committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to reiterate its recommendation already made in 350th SEAC meeting held on 02.22.2023. All other conditions stipulated in the earlier minutes will remain unaltered.


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Agenda No: 361- 16

File No: 9673

Proposed Construction of Multi Storied Building at Old S.F.Nos. 125/2pt, 126/1pt, 134/1pt & 138, New S.F.Nos. 13/9pt, 13/3pt, 18/14, 13/1, 13/2, 13/3, 13/5, 15/5, 15/3, Athipattu Village, Ambattur Taluk, Chennai District, Tamil Nadu by Tmt. S. Sudharani - For Environmental Clearance. (SIA/TN/INFRA2/411011/2022, dated 20.12.2022)

The proposal was placed in 361th SEAC meeting held on 08.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Tmt. S.Sudharani has applied for Environmental Clearance for the Proposed Construction of Multi Storied Building at Old S.F.Nos. 125/2pt, 126/1pt, 134/1pt & 138, New S.F.Nos. 13/9pt, 13/3pt, 18/14, 13/1, 13/2, 13/3, 13/5, 15/5, 15/3, Athipattu Village, Ambattur Taluk, Chennai District, Tamil Nadu.
2. The project/activity is covered under Category "B" of item 8(a) "Building & Construction" of the Schedule to the EIA Notification, 2006.
3. The project involves construction of Multi Storied building comprises of 3 blocks, Blocks - A, B, C, with combined basements 1 & 2, Block-A :stilt + 18th floors + part 19th floor with 288 nos. of units ; Block-B :stilt + 18th floors + part 19th floor with 288 nos. of units ; Block-C :stilt + 19th floors with 114 nos. of units having total of 690 Dwelling Units.
4. Total land area is 15.552.285sq.m& the total built-up area after expansion is 94.532.275sq.m.
5. Earlier, the proposal was placed in the 345th SEAC meeting held on 10.02.2023. Neither the proponent nor the EIA coordinator was present for the appraisal. Hence, SEAC decided not to take up the proposal.

S. No	Description	Details
1.	Name of the Project	Proposed Construction of Multi Storied Building
2.	Location	Old S.F.Nos. 125/2pt, 126/1pt, 134/1pt & 138, New S.F.Nos. 13/9pt, 13/3pt, 18/14, 13/1, 13/2, 13/3, 13/5, 15/5, 15/3, Athipattu Village, Ambattur Taluk, Chennai District, Tamil Nadu


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3.	Type of Project	Building and Construction Projects Schedule 8 (a)																							
4.	Latitude & Longitude	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>13° 5'54.38"N</td> <td>80° 9'49.21"E</td> </tr> <tr> <td>2</td> <td>13° 5'54.11"N</td> <td>80° 9'51.58"E</td> </tr> <tr> <td>3</td> <td>13° 5'58.03"N</td> <td>80° 9'53.98"E</td> </tr> <tr> <td>4</td> <td>13° 6'1.80"N</td> <td>80° 9'54.36"E</td> </tr> <tr> <td>5</td> <td>13° 6'3.38"N</td> <td>80° 9'49.76"E</td> </tr> </tbody> </table>						S. No.	Latitude	Longitude	1	13° 5'54.38"N	80° 9'49.21"E	2	13° 5'54.11"N	80° 9'51.58"E	3	13° 5'58.03"N	80° 9'53.98"E	4	13° 6'1.80"N	80° 9'54.36"E	5	13° 6'3.38"N	80° 9'49.76"E
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5.	Total Area (in sq. m)	h) Total land area – 15,552.28 Sq.m i) OSR Area – 3,302.82 Sq.m j) Total Ground Coverage area of buildings – 3414.46 Sq.m k) Roads and Pavement – 4867.01 Sq.m l) Surface or open parking area- 1,528.34 Sq.m m) STP, Solid Waste Disposal and Other Utilities – 104.65 Sq.m n) Greenbelt Area – 2,335 Sq.m																							
6.	Built up area	94,532.27 Sq.m																							
7.	Cost of Project	Rs. 178.18 Crores																							
8.	Brief description of the project	The project involves construction of Multi Storied building comprises of 3 blocks, Blocks A, B, C, with combined basements 1 & 2, Block-A: stilt + 18th floors + part 19th floor with 288 nos. of units; Block-B: stilt + 18th floors + part 19th floor with 288 nos. of units; Block-C: stilt + 19th floors with 114 nos. of units having total of 690 Dwelling Units																							
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Combined Basement (1&2)	20197.36	0	329.22	19742.04	126.1	0																			

		Block – A (stilt + 18 floors + part 19 th floor)	28911.55	2434.33	70.34	1573.1	24484.64	349.14
		Block – B (stilt + 18 floors + part 19 th floor)	28904.05	2428.98	70.34	1573.1	24498.35	33.28
		Block – C (stilt + 19 floors)	16519.31	787.17	36.68	847.81	14847.65	0
		Total area (Blocks -A, B, C)	94532.27	5650.48	506.58	23736.05	63956.74	682.42
9.	a) Water requirement KLD	<p>Total water requirement – 374 KLD</p> <p>Fresh water requirement – 235 KLD</p> <p>ii. Domestic water requirement – 232 KLD</p> <p>iii. Swimming pool – 3 KLD</p> <p>Treated water requirement – 139 KLD</p> <p>iii. Green Belt development & OSR – 20 KLD</p> <p>iv. Flushing – 119 KLD</p>						
	b) Source	CMWSSB						
10.	Quantity of Sewage KLD	<p>During Operation Phase</p> <p>Total Sewage Generation – 328 KLD</p>						
11.	Details of /Sewage	Sewage Treatment Plant – 360 KLD capacity						


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	Treatment Plant	<ul style="list-style-type: none"> • Bar Screen Chamber • Oil & Grease Tank • Equalization tank • MBBR Tank • Settling Tank • Filter Feed Tank • Treated Water Tank • Pressure Sand Filter • Activated Carbon Filter • UV Disinfection system • Dewatering system – filter press with screw pumps 			
12.	Mode of Disposal of treated sewage with quantity	Total Treated waste water – 312 KLD iii. Toilet Flushing – 119 KLD iv. Green Belt development & OSR – 20 KLD v. CMWSSB Sewer – 173 KLD			
13.	Quantity of Solid Waste generated per day, Mode of treatment and Disposal of Solid Waste	S.No	Description	Quantity (Tons/day)	Methods of Treatment / Disposal
		1	Biodegradable Waste (40%)	0.637	Will be Treated In Organic Waste Converter and used as manure for gardening.
		2	Non-Biodegradable Waste (60%)	0.956	Sent to authorized recyclers or local bodies for recycling.
		3	STP Sludge	15 kg/day	Will be used as manure for greenbelt development.
14.	Power requirement	3850 KVA, Source of power – TNEB Grid			

15.	Details of D.G. set with Capacity	1 no. of 500 KVA <ul style="list-style-type: none"> Acoustic enclosures proposed for DG sets to comply with noise level standards prescribed by CPCB Scrubber will be provided for the control of Air Pollution 																														
16.	Details of Green Belt Area	2,335 Sq.m																														
17.	Details of Parking Area	<table border="1"> <thead> <tr> <th>Details</th> <th>No. of Car Parking</th> <th>No. of Two-wheeler Parks</th> <th>Area allotted for Parking (Sq.m)</th> </tr> </thead> <tbody> <tr> <td>1) Total number of parking in Basement -1</td> <td>216</td> <td>347</td> <td>3325</td> </tr> <tr> <td>2) Total number of parking in Basement -2</td> <td>223</td> <td>359</td> <td>3384</td> </tr> <tr> <td>3) Total number of parking in Stilt</td> <td>73</td> <td>110</td> <td>1111</td> </tr> <tr> <td>4) Total number of parking in Ground level (Surface Parking)</td> <td>83</td> <td>37</td> <td>1105</td> </tr> <tr> <td>Total Number of Parking required as CMDA</td> <td>450</td> <td>760</td> <td>6993</td> </tr> <tr> <td>Total number of Parking Provided</td> <td>595</td> <td>853</td> <td>8973</td> </tr> </tbody> </table>	Details	No. of Car Parking	No. of Two-wheeler Parks	Area allotted for Parking (Sq.m)	1) Total number of parking in Basement -1	216	347	3325	2) Total number of parking in Basement -2	223	359	3384	3) Total number of parking in Stilt	73	110	1111	4) Total number of parking in Ground level (Surface Parking)	83	37	1105	Total Number of Parking required as CMDA	450	760	6993	Total number of Parking Provided	595	853	8973		
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18.	Provision for rain water harvesting	Total runoff – 7582 m ³ <table border="1"> <tr> <td>Considering 50 rainy days per Annum, per day rainwater runoff will be</td> <td>152cum</td> </tr> <tr> <td>Rainwater collection Tank provided for storing 100% of the roof area. Per day Roof area Rain fall collection is 64 Cum</td> <td>64 cum</td> </tr> </table>			Considering 50 rainy days per Annum, per day rainwater runoff will be	152cum	Rainwater collection Tank provided for storing 100% of the roof area. Per day Roof area Rain fall collection is 64 Cum	64 cum																								
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		(65 m ³ Underground Rainwater storage tank Proposed)															
		Remaining rainwater will be recharge into recharge well. Recharge pit: 25 Nos with Dia 1.2 m. depth 3 m	88 cum														
		100 % of rainwater managed inside by storage and recharge within the site															
19.	EMP Cost (Rs.)	During Construction Phase Capital Cost – Rs. 10.85 Lakhs O& M Cost (per annum) – Rs. 3.5 Lakhs During Operation Phase Capital Cost – Rs. 137 Lakhs Recurring Cost – Rs. 33.88 Lakhs															
20.	CER activities with the specific allocation of funds	Improvement of school infrastructure, sanitation facility, library, Drinking water treatment plant, solar lighting & smart class (LED Projector with computer), furniture, development of sports facilities, Greenbelt development, additional classrooms for schools mentioned below															
		<table border="1"> <thead> <tr> <th>S. No</th> <th>CER Activity</th> <th>Capital cost Allocation (in Lakhs)</th> </tr> </thead> <tbody> <tr> <td>i</td> <td>Mogappair Government Primary School- 0.74 km, E</td> <td></td> </tr> <tr> <td>ii</td> <td>Govt Hr Sec School, Mugappair West- 1.07 km, E</td> <td></td> </tr> <tr> <td>iii</td> <td>Panchayat Union Middle School, Nolambur – 1.33 km, SE</td> <td></td> </tr> <tr> <td colspan="2">Total Cost Allocation</td> <td>100</td> </tr> </tbody> </table>	S. No	CER Activity	Capital cost Allocation (in Lakhs)	i	Mogappair Government Primary School- 0.74 km, E		ii	Govt Hr Sec School, Mugappair West- 1.07 km, E		iii	Panchayat Union Middle School, Nolambur – 1.33 km, SE		Total Cost Allocation		100
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Total Cost Allocation		100															

Now, the proposal is placed in the 361st SEAC meeting held on 08.03.2023. Based on the presentation and document furnished by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the following specific conditions in addition to normal conditions stipulated by MOEF&CC,


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1. The project proponent shall obtain IGBC - Gold rating for the construction project.
2. The proponent shall provide Permeable Pavements.
3. The Proponent shall provide Solar panels in the roof with a minimum coverage of 50%.
4. The proponent shall undertake maintenance of STP for 10 years under Build, Operate and Transfer (B.O.T).
5. The proponent shall provide Bio Methanation plant within project site for bio-degradable waste and shall dispose the non- Biodegradable waste to authorized recyclers as committed.
6. PP shall ensure that minimum 50% of DG sets which are proposed to be set up are run on green energy sources instead of Diesel.
7. The height of the stacks of DG sets shall be provided as per the CPCB norms.
8. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to TNPCB before obtaining CTO.
9. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for Toilet flushing, Green belt development, OSR, and no treated water shall be let out of the premise.
10. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.
11. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix, in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
12. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted with proper spacing as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The


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- proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
13. The unit shall ensure the compliance of land use classification fit for construction.
 14. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed.
 15. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
 16. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
 17. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
 18. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
 19. No waste of any type to be disposed of in any other way other than the approved one.
 20. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
 21. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines.
 22. The project proponent shall provide a medical facility, possibly with a medical

- officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
23. The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
24. Solar energy should be at least 25% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
25. 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 adhere the EMP as committed.
26. As accepted by the Project Proponent, an amount of Rs. 100 Lakhs shall be spent towards CER for the activities committed by the Proponent.

Improvement of school infrastructure, sanitation facility, library, Drinking water treatment plant, solar lighting & smart class (LED Projector with computer), furniture, development of sports facilities, Greenbelt development, additional classrooms for schools mentioned below		
S. No	CER Activity	Capital cost Allocation (in Lakhs)
i	Mogappair Government Primary School- 0.74 km, E	
ii	Govt Hr Sec School, Mugappair West- 1.07 km, E	
iii	Panchayat Union Middle School, Nolambur - 1.33 km, SE	
Total Cost Allocation		100

Agenda No: 361-17

(File No: 9601/2022)

Proposed construction of Multi Storied Commercial Building at S.F.No. 335/3A, 335/3B, Block No.37, in Krishnarayapuram Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu by M/s. Globus Arima Builders LLP - For Environmental Clearance (SIA/TN/INFRA2/412971/2023, Dated 12.01.2023).

The proposal was placed in this 361st SEAC meeting held on 10.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, M/s. Globus Arima Builders LLP has applied for


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Environmental Clearance for the Proposed construction of Multi storied Commercial Building at S.F.No. 335/3A & 335/3B, Block No.37 in Krishnarayapuram Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu.

2. The project/activity is covered under Category "B2" of item 8(a) "Building & Construction Projects" of the Schedule to the EIA Notification, 2006.
3. The PP had earlier submitted an online application SIA/TN/INFRA2/404399/2022, Dated 28.10.2022 (9601/2022) to obtain Terms of Reference. This proposal was placed in the 346th SEAC Meeting held on 12.01.2023. The SEAC noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.
4. Subsequently, the PP had submitted a letter dated: 19.01.2023 to withdraw their application earlier made for obtaining Terms of Reference vide online application No. SIA/TN/INFRA2/404399/2022, Dated 28.10.2022 (9601/2022) stating that our application has submitted wrongly under obtaining ToR hence we are planning to resubmit the application for getting Environmental Clearance.
5. Subsequently, the PP had submitted a fresh Online application vide online No. (SIA/TN/INFRA2/412971/2023, Dated 12.01.2023) for obtaining Environmental Clearance.
6. The salient features of the proposed project as follows

S. No	Description	Details	
1.	Name of the Project	proposed construction of Multi Storied Commercial Building	
2.	Location	S.F.No: 335/3A, 335/3B, Block No: 37, in Krishnayapuram Village, Coimbatore North Taluk, Coimbatore, Tamil Nadu.	
3.	Type of Project	Building and Construction Projects Category "B2" Schedule 8 (a)	
4.	Latitude & Longitude	11°01'12.69" N, 76°59'29.74" E.	
5.	Total Area (in sq. m)	Area Break up	Area in Sq.m
		Plot Coverage Area (49.65 %)	2376.89 Sq.m


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		Road area (24.74 %)	1184.39 Sq.m
		Greenbelt area (25.01 %)	1197.50 Sq.m
		Other / Vacant area (0.59 %)	28.11 Sq.m
		Total Site Area	4786.89 Sq.m
6.	Built up area	28358.97 Sq.m	
7.	Cost of Project	Rs.64.74 Crores	
8.	TOTAL BUILTUP AREA BREAKUP	BUILTUP AREA OF THE PROJECT	
		3rd Basement floor	3012.96 Sq.m
		2nd Basement floor	3503.77 Sq.m
		1st Basement floor	3503.77 Sq.m
		Semi Basement	3498.10 Sq.m
		Ground Floor	2044.33 Sq.m
		First Floor	2242.50 Sq.m
		Second Floor	2311.56 Sq.m
		Third Floor	2310.97 Sq.m
		Fourth Floor	1027.23 Sq.m
		Fifth Floor	2376.89 Sq.m
		Sixth Floor	2376.89 Sq.m
		Terrace Floor	150.00 Sq.m
		Total Built-up Area	28358.97 Sq.m
9.	a) Water requirement KLD	Total water requirement – 51.35 KLD i. Recyded water- 20.54 KLD i. Raw water requirement- 30.81 KLD	
10.	Quantity of Sewage KLD	Sewage Generation – 46.21 KLD	
11.	Details of /Sewage Treatment Plant	Sewage Treatment Plant – 50 KLD capacity <ul style="list-style-type: none"> • Raw Sewage • Screen chamber • Oil Trap • Collection Tank • FBBR • Settling Tank • Filter feed tank • DMF • BAG FILTER • UV system • Treated water 	
12.	Mode of Disposal of treated	Total Treated waste water – 46.21 KLD vi. Toilet Flushing – 20.54 KLD vii. Greenbelt Development– 5.0 KLD viii. Cooling Tower-20.67 KLD	


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	sewage with quantity				
13.	Quantity of Solid Waste generated per day, Mode of treatment and Disposal of Solid Waste	No.	Particulars	Quantity (kg/day)	Methods of Treatment / Disposal
		1	Biodegradable	430.65	Biodegradable waste will be treated by organic waste converter and further used as manure
		2	Non-Biodegradable	287.1	The non-biodegradable waste will be disposed to authorized recycler
		3	Sludge from STP	5.0	Will be used as manure.
		4	E Waste	10.0 Kg/Day	The waste will be disposed to authorized recycler.
14.	Power requirement	1423.1 KVA, Source of power – TNEB Grid			
15.	Details of D.C. set with Capacity	2 Nos. of 750 KVA & 1 No of 500 KVA <ul style="list-style-type: none"> Acoustic enclosures proposed for DG sets to comply with the noise level standards prescribed by CPCB. Stack height of 20 m for all the DG is proposed as per CPCB specifications. 			
16.	Details of Green Belt Area	1197.50 Sq.m (25.01%)			
17.	Details of Parking Area	Description		Car Parking	Two wheeler Parking
		No. of Parking required including Visitors		132 nos	299 nos
		Total No. of Parking provided		197 nos	329 nos
		CAR & Two-Wheeler Parking Area 10,491.84 Sq.m (Normal Parking – 8686.90 Sq.m & Mechanical Parking – 1804.94 Sq.m)			
18.	Provision for rain water harvesting	Total runoff – 78.30 cu.m/day			
		Run-off calculation, $Q = (C \times I \times A)$			Q
		Roof Area			39.15
		Other Area			39.15
		Total Run off			78.30
Rain Water Harvesting Available: • Percolation Pits Area – 108.74 Sq.m					

19.	EMP Cost (Rs.)	Capital Cost – Rs. 60.0 Lakhs Recurring Cost – Rs. 6.05 Lakhs
20.	CER activities with the specific allocation of funds	The CER amount Rs 50 Lakhs as accepted by the PP.

Hence, the proposal was placed in this 361st SEAC meeting held on 10.03.2023. Based on the presentation and document furnished by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the following specific conditions in addition to normal conditions stipulated by MOEF&CC,

1. The building shall conform to minimum of IGBC Gold green building norms and shall obtain IGBC certificate in this regard before obtaining CTO from TNPCB.
2. The PP shall obtain fresh water supply commitment letter from the local body /TWAD before obtaining CTO.
3. The treated/untreated sewage water shall not be let-out from the unit premises. The Project Proponent shall adopt IGBC Net Zero Water System.
4. The purpose of Green belt around the project should not be less than 25% of total area to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics.
5. The project proponent shall enumerate No. of Trees, Age of trees & its yield details of trees in the proposed project site and no trees should be cut.
6. At least 2 shops in the proposed mall should be earmarked for environmentally friendly products and also rental concessions should be given to those shops.
7. The project proponent shall provide STP of capacity 50 KLD and treated water shall be utilized for flushing, green belt and avenue plantation after obtaining necessary permission from competent Authority.
8. At least 50% of the roof coverage should be specifically allocated for solar panels and should be used for the generation of solar energy.
9. The height of the stacks of DG sets shall be provided as per the CPCB norms.
10. The project proponent shall submit structural stability certificate and STP adequacy report from reputed institutions like IIT, Anna University etc. to


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TNPCB before obtaining CTO.

11. The project proponent shall obtain the necessary authorization for E-waste disposal. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
12. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for Toilet flushing, Green belt development, OSR, and no treated water shall be let out of the premise.
13. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.
14. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix, in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
15. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted with proper spacing as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
16. The unit shall ensure the compliance of land use classification fit for construction.
17. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed.
18. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
19. The project proponent shall obtain the necessary authorization from TNPCB

- and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
20. No waste of any type to be disposed of in any other way other than the approved one.
 21. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
 22. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines.
 23. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
 24. The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
 25. 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 adhere the EMP as committed.
 26. As accepted by the Project Proponent the CER cost is Rs. 50 lakhs and the amount shall be spent for the improvement of Burial Grounds maintained by Coimbatore Corporation, in consultation with the Corporation, as committed by the proponent before CTO from TNPCB.

Agenda No: 361-18

(File No: 9808/2023)

Proposed Expansion of Existing Special Economic Zone in Tindivanam Industrial Park (In SIPCOT Industrial park) with land area 67.75 Hectares at SF.No. 32/1, 32/2, 32/3, 33/1B1, 33/1B2, 33/3, 33/5A, 33/5B, 33/7A, 33/7B, 33/8A, 33/8B, 34/1, 34/2, 34/3, 34/4, 34/5, 34/6, 34/7, 34/8, 34/9A, 34/9B, 34/10, 34/11, 35, 36, 37/1, 37/2, 37/3, 37/4, 37/5, 37/6, 37/7, 38/1, 38/2, 38/3, 38/4A1, 38/4A2B, 38/5, 38/6, 38/7, 38/8, 38/9, 39/2, 40/2A, 40/2B, 40/3, 40/4, 40/5, 40/6, 40/7, 40/8,


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40/9, 41/3, 42/3, 51/1, 51/2, 51/3, 51/4, 51/5, 51/6, 53/1, 53/2, 53/3, 53/4, 53/5, 53/6, 53/7A, 53/7B, 53/8, 54/1, 54/2, 54/3, 54/4, 54/5, 54/6, 54/7, 55/1, 55/2, 56/1A, 56/1B, 56/1C, 56/2, 57/1, 57/2, 57/3A, 57/3B, 57/3C, 57/4, 57/5A, 57/5B, 57/6, 57/7, 57/8, 57/9, 60/1, 60/2, 60/3, 61/1, 61/2, 62/1, 62/2, 62/3, 63/1, 63/2, 63/3, 63/4A, 63/4B, 64/1, 118/1, 120/1, 120/2, 121/1, 121/2, 121/3 of Pelakuppam Village, Tindivanam Taluk, Villupuram District, Tamil Nadu by M/s. Cheyyar SEZ Developers Private limited - For Terms of Reference under violation category.(SIA/TN/INFRA2/417104/2023, dated 06.02.2023)

The proposal was placed in 361st SEAC meeting held on 10.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Cheyyar SEZ Developers Private limited has applied for Terms of Reference (under violation category) for the Proposed Construction of New Special Economic Zone in Tindivanam Industrial Park (in SIPCOT Industrial park) with land area 67.75 Hectares at S.No:32/1,32/2,32/3,33/1B1,33/1B2,33/3,33/5A,33/5B,33/7A,33/7B,33/8A,33/8B,34/1,34/2,34/3,34/4,34/5,34/6,34/7,34/8,34/9A,34/9B,34/10,34/11,35,36,37/1,37/2,37/3,37/4,37/5,37/6,37/7,38/1,38/2,38/3,38/4A1,38/4A2B,38/5,38/6,38/7,38/8,38/9,39/2,40/2A,40/2B,40/3,40/4,40/5,40/6,40/7,40/8,40/9,41/3,42/3,51/1,51/2,51/3,51/4,51/5,51/6,53/1,53/2,53/3,53/4,53/5,53/6,53/7A,53/7B,53/8,54/1,54/2,54/3,54/4,54/5,54/6,54/7,55/1,55/2,56/1A,56/1B,56/1C,56/2,57/1,57/2,57/3A,57/3B,57/3C,57/4,57/5A,57/5B,57/6,57/7,57/8,57/9,60/1,60/2,60/3,61/1,61/2,62/1,62/2,62/3,63/1,63/2,63/3,63/4A,63/4B,64/1,118/1,120/1,120/2,121/1,121/2,121/3 of Pelakuppam Village, Tindivanam Taluk Villupuram District, Tamil Nadu.
2. The project/activity is covered under Category "B" of item 8(b) "Township and Area development project" of the Schedule to the EIA Notification, 2006.


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3. Environmental clearance obtained for SIPCOT land vide No.SEIAA-TN/F.6497/EC/8(b)/681/2019 dated :27.11.2019.
4. Total built-up area – 2,97,994.08 Sq.m

Based on the proposal submitted and the presentation made, SEAC noted that the activity is covered under Category "B" of Item 8(b) "Area Development" of the Schedule to the EIA Notification, 2006, as amended and hence require prior Environmental Clearance. However, the project proponent has started the construction activities for expansion.

The Committee further noted that,

i) MoEF &CC vide O.M F.No.22-21/2020-IA.III dated 07.07.2021 has issued standard operating procedure (SoP) for identification and handling of violation cases under EIA Notification 2006 in compliance to order of Hon'ble National Green Tribunal in O.A.No.34/2020 WZ.

ii) MoEF &CC vide O.M F.No.22-21/2020-IA.III (E 138949) dated 28.01.2022 has stated as follows:

"2. The SoP was challenged in the Madurai Bench of the High Court of Madras in the matter W.P.(MD) No. 11757 of 2021 titled Fatima Vs Union of India and was interim stayed vide order dated 15th July 2021.

3. Recently, in the Order dated 09th December 2021 in the matter of Civil Appeal Nos. 7576-7577 of 2021 in Electrosteel Steels Limited Vs Union of India and Ors., the Hon'ble Supreme Court of India has Inter-alia observed the following:

"93. The Interim order passed by the Madras High Court appears to be misconceived. However, this Court is not hearing an appeal from that interim order. The interim stay passed by the Madras High Court can have no application to operation of the Standard Operating Procedure to projects in territories beyond the territorial jurisdiction of Madras High Court. Moreover, final decision may have been taken in accordance with the Orders/Rules prevailing prior to 7th July, 2021."

After detailed deliberations, the Committee decided to recommend for the grant of sector specific standard Terms of Reference (ToR) under violation category for rapid EIA in 3 parts for the project, for assessment of Ecological damage, remediation plan and natural & community resource augmentation plan to be prepared as an


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independent chapter in the Environment Impact Assessment report by the Accredited consultant and also with collection and analysis of data for the assessment of ecological damage. preparation of remediation plan and natural & community resource augmentation plan to be done by an Environmental laboratory duly notified under the Environment (Protection) Act, 1986, accredited by NABET or a laboratory of council of Scientific and Industrial research Institutions working in the field of Environment in addition to the following ToRs :

1. This ToR is issued subject to the outcome of the court case filed before the Hon'ble High Court of Madras (Madurai Bench) vide W.P.(MD) No. 11757 of 2021 titled Fatima Vs Union of India challenging the SoP for violation proposals dated 07th July 2021.
2. No construction for the expansion shall be initiated at the project site without obtaining prior Environmental Clearance.
3. The entire land ownership details shall be included in the EIA report.
4. The industries to be housed in the SEZ shall comply with the norms as prescribed by the Competent Authority for treated sewage, treated trade effluent and disposal of solid wastes generated from the process activity.
5. If any Category A or B type of industry as notified in the EIA Notification 2006, as amended is proposed in the SEZ, the concerned project proponent shall apply for Environmental Clearance as per EIA Notification 2006, as amended.
6. The PP shall Submit the present land use and permission required for any conversion such as forest, agriculture etc. land acquisition status, rehabilitation of communities/ villages and present status of such activities.
7. The PP shall explore construction of pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a structure which was crucial to the overall eco-system.



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8. As per G.O. Ms. No. 142 approval from Central Ground Water Authority shall be obtained for withdrawal of water and furnish the copy of the same, if applicable.
9. The PP shall furnish Commitment letter from competent authority for supply of water.
10. Copy of the village map, FMB sketch and "A" register shall be furnished.
11. The proponent shall furnish the design details of the STP and ETP treatment system.
12. The space allotment for solid waste disposal and sewage treatment & grey water treatment plant shall be furnished.
13. Details of the Solid waste management plan shall be prepared as per solid waste management Rules, 2016 and shall be furnished.
14. Details of the E-waste management plan shall be prepared as per E-waste Management Rules, 2016 and shall be furnished.
15. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modeling for the ground water, emission, noise and traffic.
16. Examine baseline environmental quality along with projected incremental load due to the proposed project/activities.
17. The air quality monitoring should be carried out according to the notification issued on 16th November, 2009.
18. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
19. Submit details of a comprehensive Risk Assessment and Disaster Management Plan including emergency evacuation during natural and man-made disasters.
20. Submit details of the trees to be cut including their species and whether it also involves any protected or endangered species. Measures taken to reduce the number of the trees to be removed should be explained in detail. Submit the details of compensatory plantation. Explore the possibilities of relocating the existing trees.


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21. The project proponent is advised to retain the trees available at the project site. In case of necessity, if any to remove the trees, the project proponent shall commit to plant minimum of 10 nos. of trees for every tree that is cut.
22. Examine the details of afforestation measures indicating land and financial outlay. Landscape plan, green belts and open spaces may be described. A thick green belt should be planned all around the nearest settlement to mitigate noise and vibrations. The identification of species/ plants should be made based on the botanical studies.
23. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area.
24. Details of the rain water harvesting system with cost estimation should be furnished.
25. A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains and sub-drains in accordance with the contour levels of the proposed project considering the flood occurred in the year 2015 and also considering the water bodies around the proposed project site & the surrounding development. The storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.
26. The purpose of Greenbelt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 15 metre wide and in between blocks in an organized manner and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval. The total green belt area should be minimum 33% of the total area and the same shall not be used for car parking/OSR.
27. Cumulative impacts of the Project considering with other infrastructure developments and industrial parks in the surrounding environment within 5 km & 10 km radius shall be furnished.
28. Submit details regarding R&R involved in the project.

29. A detailed post-COVID health management plan for construction workers as per ICMR and MHA or the State Govt. guideline may be followed and report shall be furnished.
30. The proposal for utilization of at least 50% of Renewable Energy shall be included in the EIA/EMP report.
31. Detailed Evacuation plan during emergency/natural disaster/untoward accidents shall be submitted.
32. 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.
33. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available at Ministry website [https://environmentclearance.nic.in/writereaddata/torletterpdf/7\(c\)NCP.pdf](https://environmentclearance.nic.in/writereaddata/torletterpdf/7(c)NCP.pdf) for Special Economic Zone.

Agenda No: 361-19

(File No: 9811/2022)

Proposed Expansion of Existing Special Economic Zone In Bargur SIPCOT Industrial Park over an extent of 94.2 Ha at Plot Nos 3,4,5,18 to 37 bearing S.F.No. 1 Part, 2 Part, 3 Part, 4 Part, 4/3 Part, 4/4 Part, 5/1 Part, 5/2 Part, 5/3Part, 5/4Part, 6/1, 6/2, 6/3, 7 Part, 7/1 Part, 7/2Part, 7/3 Part, 8/1, 9/1, 9/2, 9/3, 10/2 Part, 21 Part, 22 part, 23 Part, 24/1 Part, 25 Part, 25/2B Part, 26, 27Part, 28 Part, 29 Part, 30, 31 Part, 32/1 Part, 32/2 Part, 32/3 Part, 33 Part, 49 Part, 50 Part, 59 Part, 60 Part of Olaipatti Village, Uthangarai Taluk and S.F.No. 641 Part, 642 Part, 643 Part, 726 Part of Balethottam Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu by M/s. CHEYYAR SEZ DEVELOPERS PVT LTD- For Terms of Reference under Violation Category (SIA/TN/INFRA2/417033 Dated:04.02.2023).

The proposal was placed in this 361st SEAC meeting held on 10.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, M/s. CHEYYAR SEZ DEVELOPERS PVT LTD has applied for Terms of Reference under Violation Category for the Proposed Expansion of Existing Special Economic Zone in Bargur SIPCOT Industrial Park over an extent of 94.2 Ha at Plot Nos 3,4,5,18 to 37 bearing S.F.No. 1 Part, 2 Part, 3 Part, 4 Part, 4/3 Part, 4/4 Part, 5/1 Part, 5/2 Part, 5/3Part, 5/4Part, 6/1,


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6/2, 6/3, 7 Part, 7/1 Part, 7/2Part, 7/3 Part, 8/1, 9/1, 9/2, 9/3, 10/2 Part, 21 Part, 22 part, 23 Part, 24/1 Part, 25 Part, 25/2B Part, 26, 27Part, 28 Part, 29 Part, 30, 31 Part, 32/1 Part, 32/2 Part, 32/3 Part, 33 Part, 49 Part, 50 Part, 59 Part, 60 Part of Olaipatti Village, Uthangarai Taluk and S.F.No. 641 Part, 642 Part, 643 Part, 726 Part of Balethottam Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu.

2. The project/activity is covered under Category "B1" of item 8(b) "Township and area Development" of the Schedule to the EIA Notification, 2006.
3. The proposal involves Expansion of Existing Special Economic Zone in Bargur SIPCOT Industrial Park with a total built up area of 225680.24 Sq.m (Existing- 142819.59 Sq.m + Additional- 82860.65 Sq.m) and plot/land area 94.20Ha.

Based on the proposal submitted and the presentation made, SEAC noted that the activity is covered under Category "B" of Item 8(b) "Area Development" of the Schedule to the EIA Notification, 2006, as amended and hence require prior Environmental Clearance. However, the project proponent has started the construction activities for expansion.

The Committee further noted that,

- i) MoEF &CC vide O.M F.No.22-21/2020-IA.III dated 07.07.2021 has issued standard operating procedure (SoP) for identification and handling of violation cases under EIA Notification 2006 in compliance to order od Hon'ble National Green Tribunal in O.A.No.34/2020 WZ.
- ii) MoEF &CC vide O.M F.No.22-21/2020-IA.III (E 138949) dated 28.01.2022 has stated as follows:
"2. The SoP was challenged in the Madurai Bench of the High Court of Madras in the matter W.P.(MD) No. 11757 of 2021 titled Fatima Vs Union of India and was Interim stayed vide order dated 15th July 2021.

3. Recently, in the Order dated 09th December 2021 In the matter of Civil Appeal Nos. 7576-7577 of 2021 in Electrosteel Steels Limited Vs Union of India and Ors., the Hon'ble Supreme Court of India has inter-alla observed the following:

"93. The Interim order passed by the Madras High Court appears to be misconceived. However, this Court is not hearing an appeal from that Interim order. The Interim stay passed by the Madras High Court can have no application to operation of the Standard Operating Procedure to projects in territories beyond the territorial jurisdiction of Madras High Court. Moreover, final decision may have been taken in accordance with the Orders/Rules prevailing prior to 7th July, 2021."

After detailed deliberations, the Committee decided to recommend for the grant of sector specific standard Terms of Reference (ToR) under violation category for rapid EIA in 3 parts for the project, for assessment of Ecological damage, remediation plan and natural & community resource augmentation plan to be prepared as an independent chapter in the Environment Impact Assessment report by the Accredited consultant and also with collection and analysis of data for the assessment of ecological damage, preparation of remediation plan and natural & community resource augmentation plan to be done by an Environmental laboratory duly notified under the Environment (Protection) Act, 1986, accredited by NABET or a laboratory of council of Scientific and Industrial research Institutions working in the field of Environment in addition to the following ToRs :

1. This ToR is issued subject to the outcome of the court case filed before the Hon'ble High Court of Madras (Madurai Bench) vide W.P.(MD) No. 11757 of 2021 titled Fatima Vs Union of India challenging the SoP for violation proposals dated 07th July 2021.
2. No construction for the expansion shall be initiated at the project site without obtaining prior Environmental Clearance.
3. The entire land ownership details shall be included in the EIA report.
4. The industries to be housed in the SEZ shall comply with the norms as prescribed by the Competent Authority for treated sewage, treated trade effluent and disposal of solid wastes generated from the process activity.
5. If any Category A or B type of industry as notified in the EIA Notification 2006, as amended is proposed in the SEZ, the concerned project proponent shall apply for Environmental Clearance as per EIA Notification 2006, as amended.


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6. Submit the present land use and permission required for any conversion such as forest, agriculture etc. land acquisition status, rehabilitation of communities/ villages and present status of such activities.
7. The PP shall explore construction of pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a structure which was crucial to the overall eco-system.
8. As per G.O. Ms. No. 142 approval from Central Ground Water Authority shall be obtained for withdrawal of water and furnish the copy of the same, if applicable.
9. Commitment letter from competent authority for supply of water shall be furnished.
10. Copy of the village map, FMB sketch and "A" register shall be furnished.
11. The proponent shall furnish the design details of the STP and ETP treatment system.
12. The space allotment for solid waste disposal and sewage treatment & grey water treatment plant shall be furnished.
13. Details of the Solid waste management plan shall be prepared as per solid waste management Rules, 2016 and shall be furnished.
14. Details of the E-waste management plan shall be prepared as per E-waste Management Rules, 2016 and shall be furnished.
15. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modeling for the ground water, emission, noise and traffic.
16. Examine baseline environmental quality along with projected incremental load due to the proposed project/activities.
17. The air quality monitoring should be carried out according to the notification issued on 16th November, 2009.
18. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan

with cost and parameters.

19. Submit details of a comprehensive Risk Assessment and Disaster Management Plan including emergency evacuation during natural and man-made disasters.
20. Submit details of the trees to be cut including their species and whether it also involves any protected or endangered species. Measures taken to reduce the number of the trees to be removed should be explained in detail. Submit the details of compensatory plantation. Explore the possibilities of relocating the existing trees.
21. The project proponent is advised to retain the trees available at the project site. In case of necessity, if any to remove the trees, the project proponent shall commit to plant minimum of 10 nos. of trees for every tree that is cut.
22. Examine the details of afforestation measures indicating land and financial outlay. Landscape plan, green belts and open spaces may be described. A thick green belt should be planned all around the nearest settlement to mitigate noise and vibrations. The identification of species/ plants should be made based on the botanical studies.
23. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area.
24. Details of the rain water harvesting system with cost estimation should be furnished.
25. A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains and sub-drains in accordance with the contour levels of the proposed project considering the flood occurred in the year 2015 and also considering the water bodies around the proposed project site & the surrounding development. The storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.
26. The purpose of Greenbelt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted.


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The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 15 metre wide and in between blocks in an organized manner and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval. The total green belt area should be minimum 33% of the total area and the same shall not be used for car parking/OSR.

27. Cumulative impacts of the Project considering with other infrastructure developments and industrial parks in the surrounding environment within 5 km & 10 km radius shall be furnished.
28. Submit details regarding R&R involved in the project.
29. A detailed post-COVID health management plan for construction workers as per ICMR and MHA or the State Govt. guideline may be followed and report shall be furnished.
30. The proposal for utilization of at least 50% of Renewable Energy shall be included in the EIA/EMP report.
31. Detailed Evacuation plan during emergency/natural disaster/untoward accidents shall be submitted.
32. 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.
33. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available at Ministry website [https://environmentclearance.nic.in/writereaddata/torletterpdf/7\(c\)NCP.pdf](https://environmentclearance.nic.in/writereaddata/torletterpdf/7(c)NCP.pdf) for Special Economic Zone.

Agenda No: 361-20

(File No: 9812/2023

Proposed Expansion of Existing Special Economic Zone at Cheyyar SIPCOT Industrial Park at S. F. No. 191B,194B,197B,199B, 200, 201, 213, 214, 215, 216, 217,218, 220, 221(PT),387 and 194, 195, 377, 386, 387/4 of Mathur Village and SF.No. 5 (PT), 7 (PT), 8, 9, 10 (PT), 12 (PT), 14, 15,16(PT),17, 18, 19, 20, 21(PT), 22(PT), 48(PT), 49, 51,52, 53, 54, 55, 57, 59, 61, 62, 63, 64, 68, 69, 73, 222 PT, 223(PT),13, 56, 60,70, 71, 72,74(PT) of Mangal Village, SIPCOT Industrial Park, Cheyyar Phase-I Mathur and Manga Villages Vembakkam Taluk Tiruvannamalai District by Ms/. CHEYYAR SEZ DEVELOPER PVT LTD -For Terms of Reference under violation category.

(SIA/TN/INFRA2/416815/2023 dated 03.02.2023)


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The proposal was placed in this 361st meeting of SEAC held on 10.3.2023. The project proponent gave detailed presentation. The details of the project are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent Ms/. CHEYYAR SEZ DEVELOPER PVT LTD has applied seeking Terms of Reference (under violation category) for the proposed Expansion of Existing Special Economic Zone in Cheyyar SIPCOT Industrial Park at S. F. No. 191B,194B,197B,199B, 200, 201, 213, 214, 215, 216, 217,218, 220, 221(PT),387 and 194, 195, 377, 386, 387/4 of Mathur Village and SF.No. 5 (PT), 7 (PT), 8, 9, 10 (PT), 12 (PT), 14, 15,16(PT),17, 18, 19, 20, 21(PT), 22(PT), 48(PT), 49, 51,52, 53, 54, 55, 57, 59, 61, 62, 63, 64, 68, 69, 73, 222 PT, 223(PT),13, 56, 60,70, 71, 72,74(PT) of Mangal Village, SIPCOT Industrial Park, Cheyyar Phase-I Mathur and Manga Villages Vembakkam Taluk Tiruvannamalai District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B" of Item 8(b) "Area Development" of the Schedule to the EIA Notification, 2006, as amended.
3. ToR Lr.No.SEIAA-TN/F.No.2187/2014/LVII-ToR-181/2014, Dated: 30.06.2014.
4. SEIAA letter No.SEIAA-TN/F.No.2187/2014 dated 14.06.2016.
5. Total built-up area - 3,17,115 Sq.m

Based on the proposal submitted and the presentation made, SEAC noted that the activity is covered under Category "B" of Item 8(b) "Area Development" of the Schedule to the EIA Notification, 2006, as amended and hence require prior Environmental Clearance. However, the project proponent has started the construction activities for expansion.

The Committee further noted that,

- i) MoEF &CC vide O.M F.No.22-21/2020-IA.III dated 07.07.2021 has issued standard operating procedure (SoP) for identification and handling of violation cases under EIA Notification 2006 in compliance to order od Hon'ble National Green Tribunal in O.A.No.34/2020 WZ.
- ii) MoEF &CC vide O.M F.No.22-21/2020-IA.III (E 138949) dated 28.01.2022 has stated as follows:


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"2. The SoP was challenged in the Madurai Bench of the High Court of Madras in the matter W.P.(MD) No. 11757 of 2021 titled Fatima Vs Union of India and was interim stayed vide order dated 15th July 2021.

3. Recently, in the Order dated 09th December 2021 in the matter of Civil Appeal Nos. 7576-7577 of 2021 In Electrosteel Steels Limited Vs Union of India and Ors., the Hon'ble Supreme Court of India has Inter-alia observed the following:

"93. The interim order passed by the Madras High Court appears to be misconceived. However, this Court is not hearing an appeal from that interim order. The interim stay passed by the Madras High Court can have no application to operation of the Standard Operating Procedure to projects in territories beyond the territorial jurisdiction of Madras High Court. Moreover, final decision may have been taken in accordance with the Orders/Rules prevailing prior to 7th July, 2021."

After detailed deliberations, the Committee decided to recommend for the grant of sector specific standard Terms of Reference (ToR) under violation category for rapid EIA in 3 parts for the project, for assessment of Ecological damage, remediation plan and natural & community resource augmentation plan to be prepared as an independent chapter in the Environment Impact Assessment report by the Accredited consultant and also with collection and analysis of data for the assessment of ecological damage, preparation of remediation plan and natural & community resource augmentation plan to be done by an Environmental laboratory duly notified under the Environment (Protection) Act, 1986, accredited by NABET or a laboratory of council of Scientific and Industrial research Institutions working in the field of Environment in addition to the following ToRs :

1. This ToR is issued subject to the outcome of the court case filed before the Hon'ble High Court of Madras (Madurai Bench) vide W.P.(MD) No. 11757 of 2021 titled Fatima Vs Union of India challenging the SoP for violation proposals dated 07th July 2021.
2. No construction for the expansion shall be initiated at the project site without obtaining prior Environmental Clearance.
3. The entire land ownership details shall be included in the EIA report.


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4. The industries to be housed in the SEZ shall comply with the norms as prescribed by the Competent Authority for treated sewage, treated trade effluent and disposal of solid wastes generated from the process activity.
5. If any Category A or B type of industry as notified in the EIA Notification 2006, as amended is proposed in the SEZ, the concerned project proponent shall apply for Environmental Clearance as per EIA Notification 2006, as amended.
6. Submit the present land use and permission required for any conversion such as forest, agriculture etc. land acquisition status, rehabilitation of communities/ villages and present status of such activities.
7. The PP shall explore construction of pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a structure which was crucial to the overall eco-system.
8. As per G.O. Ms. No. 142 approval from Central Ground Water Authority shall be obtained for withdrawal of water and furnish the copy of the same, if applicable.
9. Commitment letter from competent authority for supply of water shall be furnished.
10. Copy of the village map, FMB sketch and "A" register shall be furnished.
11. The proponent shall furnish the design details of the STP and ETP treatment system.
12. The space allotment for solid waste disposal and sewage treatment & grey water treatment plant shall be furnished.
13. Details of the Solid waste management plan shall be prepared as per solid waste management Rules, 2016 and shall be furnished.
14. Details of the E-waste management plan shall be prepared as per E-waste Management Rules, 2016 and shall be furnished.
15. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modeling for the ground water, emission, noise and traffic.


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16. Examine baseline environmental quality along with projected incremental load due to the proposed project/activities.
17. The air quality monitoring should be carried out according to the notification issued on 16th November, 2009.
18. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
19. Submit details of a comprehensive Risk Assessment and Disaster Management Plan including emergency evacuation during natural and man-made disasters.
20. Submit details of the trees to be cut including their species and whether it also involves any protected or endangered species. Measures taken to reduce the number of the trees to be removed should be explained in detail. Submit the details of compensatory plantation. Explore the possibilities of relocating the existing trees.
21. The project proponent is advised to retain the trees available at the project site. In case of necessity, if any to remove the trees, the project proponent shall commit to plant minimum of 10 nos. of trees for every tree that is cut.
22. Examine the details of afforestation measures indicating land and financial outlay. Landscape plan, green belts and open spaces may be described. A thick green belt should be planned all around the nearest settlement to mitigate noise and vibrations. The identification of species/ plants should be made based on the botanical studies.
23. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area.
24. Details of the rain water harvesting system with cost estimation should be furnished.
25. A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains and sub-drains in accordance with the contour levels of the proposed project considering the flood occurred in the year 2015 and also considering the water bodies around the proposed project site & the surrounding development. The storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.
26. The purpose of Greenbelt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the

- aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 15 metre wide and in between blocks in an organized manner and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval. The total green belt area should be minimum 33% of the total area and the same shall not be used for car parking/OSR.
27. Cumulative impacts of the Project considering with other infrastructure developments and industrial parks in the surrounding environment within 5 km & 10 km radius shall be furnished.
28. Submit details regarding R&R involved in the project.
29. A detailed post-COVID health management plan for construction workers as per ICMR and MHA or the State Govt. guideline may be followed and report shall be furnished.
30. The proposal for utilization of at least 50% of Renewable Energy shall be included in the EIA/EMP report.
31. Detailed Evacuation plan during emergency/natural disaster/untoward accidents shall be submitted.
32. 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.
33. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available at Ministry website [https://environmentclearance.nic.in/writereaddata/torletterpdf/7\(c\)NCP.pdf](https://environmentclearance.nic.in/writereaddata/torletterpdf/7(c)NCP.pdf) for Special Economic Zone.

Agenda No: 361- 21

File No: 9820

Proposed Construction of Building for the Strengthening of District Headquarters Hospital In Tambaram Sanitorium at Tambaram in Chengalpattu District at Town Survey No: 2(Part) / Ward – B / Block – 22 of Kadaperi Village & Survey No: 226/1(Part), 226/2(Part), 227(Part), 228/2 & 228/3 of Chitlapakkam Village, Tambaram Taluk, Chengalpattu District, Tamil Nadu by M/s. Government Hospital Tambaram - For Environmental Clearance. (SIA/TN/INFRA2/416697/2023, dated 03.02.2023)


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The proposal was placed in 361th SEAC meeting held on 08.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. **Government Hospital Tambaram** has applied for Environmental Clearance for the **Proposed Construction of Building for the Strengthening of District Headquarters Hospital In Tambaram Sanitorium at Tambaram in Chengalpattu District at Town Survey No: 2(Part) / Ward – B / Block – 22 of Kadaperi Village & Survey No: 226/1(Part), 226/2(Part), 227(Part), 228/2 & 228/3 of Chitlapakkam Village, Tambaram Taluk, Chengalpattu District, Tamil Nadu.**
2. The project/activity is covered under Category "B" of item 8(a) "Building & Construction" of the Schedule to the EIA Notification, 2006.
3. Total plot area is 21,886.50 Sq.m & the total built-up area is 21,306.24 Sq.m.

S. No	Description	Details		
1.	Name of the Project	Proposed Construction of Building for the Strengthening of District Headquarters Hospital in Tambaram Sanitorium at Tambaram in Chengalpattu District		
2.	Location	Town Survey No: 2(Part) / Ward – B / Block – 22 of Kadaperi Village & Survey No: 226/1(Part), 226/2(Part), 227(Part), 228/2 & 228/3 of Chitlapakkam Village, Tambaram Taluk, Chengalpattu District, Tamil Nadu		
3.	Type of Project	Building and Construction Projects Schedule 8 (a)		
4.	Latitude & Longitude	S. No	Latitude	Longitude
		1	12°56'25.62"N	80°7'50.10"E
		2	12°56'29.77"N	80°7'45.89"E
		3	12°56'33.01"N	80°7'49.03"E
		4	12°56'29.74"N	80°7'52.86"E

		5	12°56'28.39"N	80°7'50.91"E																		
		6	12°56'27.12"N	80°7'51.60"E																		
5.	Total Area (in sq. m)	o) Total Plot area – 21,886.50 Sq.m p) Total Ground Coverage area – 4,194.24 Sq.m q) Parking – 3,074.5 Sq.m r) Road & Vacant – 11,334.86 Sq.m s) Greenbelt Area – 3,282.90 Sq.m t) OSR Area – Nil																				
6.	Built up area	21,306.24 Sq.m																				
7.	Cost of Project	Rs. 110 Crores																				
8.	Brief description of the project	<table border="1"> <thead> <tr> <th>Building & floor</th> <th>Description</th> <th>Area (Sq.m)</th> </tr> </thead> <tbody> <tr> <td>Ground Floor</td> <td>Out patients (2 OP Rooms). Casualty and Radio diagnosis (USG, X ray, CT, MRI, Mammo, Fluroscopy & Echo) with Portico (162.24 Sq.m)</td> <td>2804.24</td> </tr> <tr> <td>First Floor</td> <td>Out-Patients (10 OP Rooms with USG scan), Emergency OT with Recovery wards (10 beds)</td> <td>2642</td> </tr> <tr> <td>Second Floor</td> <td>Labour ward, Eclampsia, Emergency OT with Recovery ward, Post – Operative ward, AN ward, PN ward, NICU-I, II, III (Total-80 Beds)</td> <td>2642</td> </tr> <tr> <td>Third Floor</td> <td>Ward (72 beds), Dialysis ward (16 beds) Blood bank</td> <td>2642</td> </tr> <tr> <td>Fourth Floor</td> <td>Ward (60 beds), Burns ward (16 beds), Integrated Laboratory (Micro-biology, Bio chemistry & Pathology)</td> <td>2642</td> </tr> </tbody> </table>			Building & floor	Description	Area (Sq.m)	Ground Floor	Out patients (2 OP Rooms). Casualty and Radio diagnosis (USG, X ray, CT, MRI, Mammo, Fluroscopy & Echo) with Portico (162.24 Sq.m)	2804.24	First Floor	Out-Patients (10 OP Rooms with USG scan), Emergency OT with Recovery wards (10 beds)	2642	Second Floor	Labour ward, Eclampsia, Emergency OT with Recovery ward, Post – Operative ward, AN ward, PN ward, NICU-I, II, III (Total-80 Beds)	2642	Third Floor	Ward (72 beds), Dialysis ward (16 beds) Blood bank	2642	Fourth Floor	Ward (60 beds), Burns ward (16 beds), Integrated Laboratory (Micro-biology, Bio chemistry & Pathology)	2642
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		Fifth Floor	OT Complex – 4nos recovery ward (15 beds), ICU (13 beds) & HDU (8 beds)	2642
		Sixth Floor	Ward (90 beds), Dialysis and burn ward (10 beds)	2642
		Auxillary building (G+2) floor	Ground floor-Kitchen, Laundry, CSSD First floor- Admin & Office, meeting hall Second floor- Medical stores, Surgical stores & MRD	1890
			Manifold Room arrangements	150
			HT Room & EB room	280
		Additional Amenities	Patient attenders waiting hall and public toilet	150
			Mortuary (12 beds cold storage arrangements)	280
			STP for 350 KLD & ETP 50 KLD RCC underground Sump – 2.50 Lakhs capacity (2 Nos)	
		Total		21,306.24 Sq.m
9.	a) Water requirement KLD	Total water requirement – 336 KLD Fresh water requirement – 229 KLD iv. Domestic & Flushing requirement – 184 KLD v. Canteen – 5 KLD vi. Other (Laundry & CSSD) – 10 KLD vii. Lab – 10 KLD viii. Mortuary – 10 KLD ix. Operation Theatre – 10 KLD Treated/Recycled water requirement – 107 KLD v. Flushing – 92 KLD vi. Green Belt – 15 KLD		
	b) Source	Construction Phase – Private Tankers Operation Phase		

		<ul style="list-style-type: none"> • Tambaram Corporation
10.	Quantity of Sewage / Effluent KLD	<p>During Operation Phase</p> <p>Total Sewage Generation – 263 KLD</p> <p>Total Effluent Generation – 263 KLD</p>
11.	Details of Sewage Treatment Plant / Effluent Treatment Plant	<p>Sewage Treatment Plant – 350 KLD capacity</p> <ul style="list-style-type: none"> • Coarse Bar Screen Chamber • Fine Bar Screen Chamber • Equalization tank • Anoxic Tank Feed Pump • Rotary Drum Screen • Anoxic Tank (RCC) • Aeration Tank • MBR Tank • MBR Permeate pump • Treated water storage tank • Sludge Pump • Sludge holding Tank • Centrifuge feed pump • Poly dosing system • Centrifuge • Sludge out <p>Effluent Treatment Plant – 50 KLD capacity</p> <ul style="list-style-type: none"> • Bar Screen Chamber • Oil Skimmer Unit • Equalization tank • Raw Effluent transfer pump • Dosing system • Flash mixer tank


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		<ul style="list-style-type: none"> • Primary Tubesettler Tank • Aeration Tank • Secondary Tubesettler Tank • Sludge transfer Pump • Sludge holding Tank • Poly dosing system • Centrifuge • Clear water tank • Chlorine dosing tank • Pressure sand Filter • Activated carbon filter • Treated water tank • To STP Collection Tank 			
12.	Mode of Disposal of treated sewage with quantity	Total Treated waste water – 303 KLD ix. Toilet Flushing – 92 KLD x. To Other Hospital Greenbelt Development – 196 KLD xi. Greenbelt Development – 15 KLD			
13.	Quantity of Solid Waste generated per day. Mode of treatment and Disposal of Solid Waste	S.No	Description	Quantity (Kg/day)	Methods of Treatment / Disposal
		1	Non-Biodegradable Waste (40%)	398	Disposed through Authorized Recyclers
		2	Biodegradable Waste (60%)	597	Converted into bio gas through Bio-methanation plant
		3	STP Sludge	35	Used as manure for gardening.

14.	Power requirement	700 KVA , Source of power – TANGEDCO Grid Construction Phase – 100 KVA	
15.	Details of D.G. set with Capacity	<ul style="list-style-type: none"> • 1 no of 320 (KVA) • 1 no of 250 (KVA) • 1 no of 125 (KVA) ▪ Stack height (m) AGL – 33m ▪ APC measures – Common stack 	
16.	Details of Green Belt Area	3,282.90 Sq.m	
17.	Details of Parking Area	Parking details	Surface area
		CAR	
		Required	214
		Proposed	215
		Two Wheelers	
		Required	214
		Proposed	215
	Area (Sq.m)	3282.90	
18.	Provision for rain water harvesting	No of RWH pits proposed – 22 Nos Size of Pit: <ul style="list-style-type: none"> • Diameter of pit - 2m • Height of pit – 4m • Volume of pit – 12.56m³ • Considering 50% percolation rate volume of pit including percolation 0-18.84m³ 	


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19.	EMP Cost (Rs.)	Capital Cost – 442 Lakhs Recurring Cost – 75 Lakhs (2years)
20.	CER activities with the specific allocation of funds	165 Lakhs

Now, the proposal is placed in the 361st SEAC meeting held on 08.03.2023. Based on the presentation and document furnished by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the following specific conditions in addition to normal conditions stipulated by MOEF&CC,

1. The project proponent shall obtain IGBC - Gold rating for the construction project.
2. The proponent shall undertake maintenance of STP for 10 years under Build, Operate and Transfer (B.O.T).
3. The proponent shall provide Bio Methanation plant within project site for bio-degradable waste and shall dispose the non- Biodegradable waste to authorized recyclers as committed.
4. PP shall ensure that minimum 50% of DG sets which are proposed to be set up are run on green energy sources instead of Diesel.
5. The height of the stacks of DG sets shall be provided as per the CPCB norms.
6. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to TNPCB before obtaining CTO.
7. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for Toilet flushing, Green belt development, OSR, and no treated water shall be let out of the premise.
8. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green

- belt development after composting.
9. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix, in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
 10. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted with proper spacing as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
 11. The unit shall ensure the compliance of land use classification fit for construction.
 12. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the pubic usage and as committed.
 13. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
 14. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
 15. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
 16. The project proponent shall obtain the necessary authorization from TNPCB and


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strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.

17. No waste of any type to be disposed of in any other way other than the approved one.
18. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
19. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines.
20. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
21. The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
22. Solar energy should be at least 25% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
23. 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 adhere the EMP as committed.
24. As accepted by the Project Proponent, an amount of Rs. 165 Lakhs shall be spent towards CER for the activities committed by the Proponent.

Agenda No: 361-22

(File No: 9816/2023)

Proposed Marine Bridge connecting Vivekananda rock to Ayyan Thiruvalluvar statue at Kanyakumari Taluk, Kanyakumari District, Tamil Nadu by The Divisional Engineer, Highways Department – For Environmental Clearance. (SIA/TN/MIN/418756/2023, dated 14.01.2023)

The proposal is placed in this 361st meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in):-


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The SEAC noted the following

- The Divisional Engineer, Highways Department, Nagercoil has proposed for the construction of Marine Bridge connecting Vivekananda Rock Memorial and Ayyan Thiruvalluvar Statue at Kanyakumari Village, Kanyakumari district.
- The Project Proponent stated that the principle approval permitting Tamil Nadu Maritime Board (TNMB) to take up the Marine Bridge project connecting Vivekananda Rock memorial and Ayyan Thiruvalluvar Statue at Kanyakumari by utilizing TNMB's own funds and for collection of user Fee have been accorded vide G.O. Ms. No. 64, Highways & Minor Ports (HM) Department, dated 27.04.2020.
- The Project Proponent stated that Tourists are taken to Vivekananda rock memorial and Thiruvalluvar statue by ferry service. The existing jetties at both rocks have facility to berth only one vessel at a time. Since the number of tourists visiting the site is increasing day by day, the existing ferry service is not able to meet the requirements. During low tide, it is difficult to operate ferries from Vivekananda Rock memorial to Thiruvalluvar Statue by which the tourists had to turn back without visiting the Thiruvalluvar statue spot. To overcome the existing demand, to enhance the capacity of visitors to these two monuments and to give an opportunity to the tourists to visit Thiruvalluvar Statue island even during low tide period also, it is necessary to construct a foot over Marine bridge connecting both monuments.
- The Project Proponent has submitted the difference between the existing (Marine bridge with Maritime Board as Project Proponent) and proposed project (Highways Department as Project Proponent) is given below.

Sl. No.	Variable	Proposed (Marine bridge with Highways Dept. as PP)
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1	GPS Coordinates	Truss bridge anchors location at Ayyan Thiruvalluvar Memorial Rock Latitude : 8°4'40.626"N, Longitude : 77°33'14.906"E Latitude : 8°4'40.315"N, Longitude : 77°33'15.000"E
		Truss bridge anchors location at Swami Vivekananda Memorial Rock Latitude : 8°4'41.556"N, Longitude : 77°33'18.022"E Latitude : 8°4'41.244"N, Longitude : 77°33'18.116"E
2	Span	115.00m
3	Width	10.00m

- The proposed bridge is a Network Arch type bridge in the obligatory portion and steel composite deck slab in Approach portion on either side. Network arch bridges are one of the suitable type bridge for long spans. The obligatory span of the bridge about 72m (centre to centre of the support). The width of the bridge is 10m (inner to inner). The height of the truss will be generally taken as one sixth of span. The deck slab is supported on longitudinal beams. The longitudinal beams in turn get supports on main transverse beams while transverse beam are supported on bottom chord members. The deck slab of the bridge of reinforced concrete over deck sheeting.
- Anchor arrangements : Anchor systems are provided at the two ends of the Network arch bridge and the approach portion bridge. The one end is falling in CRZ-II areas of Ayyan Thiruvalluvar Statue and another one end is falling in CRZ-IA (Archeological site) of Swami Vivekananda Rock

memorial. The anchor system will transfer the load from the bridge to the rocky strata. The Project Proponent also provided the details of design loads, dead loads, live loads, water current forces, buoyancy forces, seismic force, material specifications, concrete details, etc.,

- Total cost of the project and CRZ classification

The total cost of the project is Rs.37.818 crores and the proposed site is falling in CRZ-IA (Archeological site), CRZ-II and CRZ-IVA areas.

- Recommendations of the DCZMA

The DCZMA of Kanyakumari district has recommended the project to SCZMA in the meeting held on 01.10.2022

- Provisions in the CRZ Notification, 2011

As per the CRZ Notification, 2011 Para 4 OW, Clearance shall be given for any activity with the CRZ, if it requires waterfront and foreshore facilities, Para 3(iv), land reclamation, bunding required for the setting up of construction of foreshore facilities like bridges, sealink, road on stilts are permissible activities.

- Para 8(1) i CRZ-I (i) (c), construction of trans harbour sea link and without affecting the tidal flow of water between LTL and HTL and Para 8(1) i CRZ-I (ii) (g), construction of trans harbor sea links, roads on stilts or pillars without affecting the tidal flow of water are permissible activities.
- As per Para 4(i) and 4.2. (ii)(c) of the said Notification, the proposal may be recommended to SEIAA, for issuing Clearance.

- The subject was placed before the 119th meeting of the Tamil Nadu State Coastal Zone Management Authority (TNSCZMA) held on 12.12.2022 and the TNSCZMA has examined the recommendation of the DCZMA of Kanyakumari district and existing clearance issued by the SCZMA. The SCZMA also observed the replies furnished by the Project Proponent on the remarks of the Technical Expert Committee, during their presentation and decided to


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recommend the proposal to State Environment Impact Assessment Authority of Tamil Nadu (SEIAA-TN), with the following conditions.

1. No blasting should be carried out. As suggested only drilling activities can be used for anchoring the bridge on the rock portions.
2. The Proponent should take into account the cyclonic wind speeds including super cyclones while designing the bridge.
3. The Proponent shall also ensure that marine ecosystem is undisturbed.
4. The Proponent shall ensure the installation of safety measures for the public.
5. The construction of bridge should not affect the aesthetic aspects of Thiruvalluvar Statue and Vivekananda Rock site.
6. All the solid waste shall be handled as per the Solid waste Management Rules 2016,
7. The project proponent shall adhere to the Construction and Demolition Waste Management Rules, 2018.
8. The temporary structures should be removed immediately after completion of construction activities.
9. The proponent shall comply with the Environmental Management Plan during construction and operational phases.

Based on the documents furnished and the presentation made by the proponent, the SEAC, after detailed deliberations, decided to defer the proposal & take up this proposal in ensuing SEAC meeting.

Agenda No. 361 - 23

(File No. 9844/2022)

Proposed Expansion of foundry unit from 19200 TPA to 74400 TPA at S.F.No: 254/1, 254/2A1, 254/2A5, 256/1A, 256/1B, 256/1C, 256/1D, 258/1A, 258/2A, 258/2B, 258/3A, 258/3B & 258/3C Kallapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by M/s. Aquasub Engineering Unit V- for Terms of Reference (SIA/TN/IND1/415203/2023 Dt: 20.01.2023)

The proposal was placed in the 361st SEAC Meeting held on 10.3.2023. The details


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of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent M/s. Aquasub Engineering Unit V has Proposed Expansion of foundry unit from 19200 TPA to 74400 TPA at S.F.No: 254/1, 254/2A1, 254/2A5, 256/1A, 256/1B, 256/1C, 256/1D, 258/1A, 258/2A, 258/2B, 258/3A, 258/3B & 258/3C Kallapalayam Village, Suler Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 3(a) "Metallurgical industries (ferrous & non-ferrous)" of the Schedule to the EIA Notification, 2006.

Based on the presentation made by the proponent and the documents furnished, the SEAC decided to prescribe TOR for the preparation of Detailed EIA report along with Public Hearing. The Detailed EIA shall include standard ToR along with the following additional ToR:

1. The PP shall study in detail about various operational measures to reduce the specific energy consumption in induction furnaces.
2. Since the Periods of idling are inherent because of the following activities, the PP shall study in detail and the same shall be included in the EIA report.
 - i. Charging
 - ii. Slagging
 - iii. Sampling
 - iv. Charge material
 - v. Molten Heel Practice
 - vi. Furnace Cover Losses
3. The PP shall study in detail about Charging and operation of Melting for better and efficient operation of induction furnaces.
4. The proponent shall study in detail about various measures could be adopted during finishing and tapping of a heat.
5. The proponent shall study in detail about operational control measures to Minimize and control the refractory wall wearing.
6. The proponent shall explore the possibilities to Change from mains frequency


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to medium frequency furnaces.

7. Details of sand reclamation unit shall be incorporated in the EIA report.
8. The proponent shall explore the possibilities of utilizing state of the art technology with best global practice.
9. The proponent shall explore the possibilities of utilizing the industrial wastewater instead of fresh water.
10. The proponent shall elaborate on the state-of-the-art technology for induction furnace to control emissions (Fumes).
11. The proponent shall submit the Certified Compliance Report for existing plant.
12. The proponent must increase the solar and Wind Energy and must explore the possibilities of achieving Net Zero energy consumption.
13. The proponent shall submit the video and photograph of the operational details with particular reference to points of pollution in the existing plant.
14. Material balance and Water balance shall be furnished in accordance with MoEF&CC guidelines.
15. A detailed report on Solid waste management, hazardous waste shall be furnished.
16. Report on AAQ survey and proposed air pollution prevention and control measures shall be furnished in the EIA report.
17. The project proponent shall do the stoichiometric analysis of all the involved reactions to assess the possible emission of air pollutants in addition to the criteria pollutants, from the proposed project.
18. Adequacy report for ETP &STP for the proposed project obtained from any reputed Government institution such as IIT, Anna University, NIT shall be furnished.
19. Land use classification shall be obtained from the DTCP for the Survey Numbers of this project. Further, the project proponent shall submit the planning permission obtained from the DTCP, if any.
20. The proponent shall conduct the EIA study and submit the EIA report for the entire campus along with layout and necessary documents such as "A" register and village map.
21. Public Hearing points raised and commitments of the Project Proponent on the

same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.

22. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
23. The PP shall produce/display the EIA report, executive summary and other related information with respect to public hearing in Tamil.
24. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
25. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
26. The project proponent shall explore the possibilities of treating and utilizing the trade effluent and sewage within the premises to achieve Zero liquid discharge.
27. The layout plan shall be furnished for the greenbelt area earmarked with GPS coordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should be not less than 15 % of the total land area of the project.
28. As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
29. The proposal for Roof Top solar panel shall be included in the EIA Report.
30. 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.

Agenda No: 361-24

(File No: 9856/2023)

Proposed New Collectorate Building in Master Plan Complex with total built up area of 20,069.46 Sq.m" at Survey No. -157/4, 158/4 and 159/6, Kooralkundu


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Village, Virudhunagar Taluk & Virudhunagar District, Tamil Nadu by M/s. Public Works Department - For Environmental Clearance.

(SIA/TN/INFRA2/419182/2023, dated 22.02.2023)

The proposal was placed in 361st SEAC meeting held on 10.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Public Works Department has applied for Environmental Clearance for the Proposed New Collectorate Building in Master Plan Complex with total built up area of 20,069.46 Sq.m² at Survey No. -157/4, 158/4 and 159/6, Kooraikundu village, Virudhunagar Taluk & Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of item 8(a) "Building & Construction" of the Schedule to the EIA Notification, 2006.

The PP requested to withdraw the project. Hence the SEAC decided to recommend to SEIAA to accept the withdrawal request.

Agenda No: 361-25

(File No: 9824/2023)

Proposed sand quarry in Vellaru river over an extent of 4.48.0Ha at S.F.No.241/1 (P) & 242/1 (P), Vasistapuram Village, Kunnam Taluk, Perambalur District, TamilNadu by The Executive Engineer, Public Works Department, WRD, Mining and Monitoring Division, Tiruchirappalli – For Environmental Clearance. (SIA/TN/MIN/414167/2023, dated 14.01.2023)

The proposal was placed in this 361st Meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are available on the website (www.parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, The Executive Engineer, Public Works Department, WRD, Mining and Monitoring Division, Tiruchirappalli has applied for Environmental Clearance for the proposed sand quarry in Vellaru river over an extent of 4.48.0Ha at S.F.No.241/1 (P) & 242/1 (P), Vasistapuram Village, Kunnam Taluk, Perambalur District, TamilNadu.


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2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Production as per mining plan 64812m³ of Sand for a period of 1 Year and up to depth of 1.0m.

Based on the documents furnished and the presentation made by the proponent, the SEAC, after detailed deliberations, decided to make an on-spot inspection to assess the present status of the site by the sub-committee constituted by the SEAC. Further, the PP shall furnish the following details during the site inspection.

1. The Project Proponent shall make a detailed study involving reputed Govt scientific institutions and furnish a report in detail on the "Replenishment Study" as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020.
2. Pillar stone shall be erected before the site inspection.
3. Details of existing mining activities carried out in 1 Km either upstream & downstream direction.
4. Previous history of mining operation in the same location.

On receipt of the Sub Committee report further deliberation will be done.

Agenda No: 361-26

(File No: 9825/2022)

Proposed Sand quarry lease over an extent of 3.90.0 Ha at S.F.No 134(P) in Chithathur Village, Gudiyatham Taluk, Vellore District, Tamil Nadu by The Executive Engineer, WRD/PWD, Chennai -For Environmental Clearance (SIA/TN/MIN/416871/2023, 03.02.2023).

The proposal was placed in this 361st meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, The Executive Engineer has applied for Environmental Clearance for the Proposed Sand quarry lease over an extent of 3.90.0 Ha at S.F.No 134(P), Chithathur Village, Gudiyatham Taluk, Vellore District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.


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3. As per the mining plan the lease period is 1 year. The mining plan is for the period of one year & production should not exceed 49,250 m³ (39,000 m³ of Sand + 10,250 m³ of Shoal). The ultimate depth is 1m below TBL.

Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub Committee constituted by SEAC to assess the present Environmental Condition. Further, the PP shall furnish the following details during the site inspection.

1. The Project Proponent shall make a detailed study involving reputed Govt scientific institutions and furnish a report in detail on the "Replenishment Study" as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020.
2. Pillar stone shall be erected before the site inspection.
3. Details of existing mining activities carried out in 1 Km either upstream & downstream direction.
4. Previous history of mining operation in the same location.

On receipt of the Sub Committee report further deliberation will be done.

Agenda No. 361-27

(File No. 9842/2023)

Proposed Colour Granite quarry over an extent of 6.94.5 Ha of Govt. Poramboke land at S.F.No. 383/1 in Chendarapalli Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Tvl.TAMIN Ltd - for Terms of Reference (SIA/TN/MIN/419423/2023, Dated: 22.02.2023).

The proposal is placed in this 361st meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, Tvl.TAMIN Ltd has applied for Terms of Reference for the Proposed Colour Granite quarry over an extent of 6.94.5 Ha of Poramboke land at S.F.No. 383/1 in Chendarapalli Village, Bargur Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.


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3. As per the mining plan, the lease period is for 20 years. The mining plan is for 4 years. The production for 4 years not to exceed 49,170 cu.m of RoM including 24,585 cu.m of recovery (@50%) and 24,585 cu.m of granite waste (@50%).

4. The proponent has proposed a bench height of 10m and bench width of 6m.

Based on the presentation made by the proponent, SEAC decided to recommend grant of Terms of Reference (TOR) with Public Hearing subject to the following additional TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. As per Metalliferous Mines Regulation 1961, under Chapter XI, 106 (2) (a) "..... the face shall be benched and the sides shall be sloped at an angle of not more than 60 degrees from the horizontal. The height of any bench shall not exceed six meters and the breadth thereof shall not be less than the height." Hence, the proponent shall revise the Mining Plan with bench height and width as per the Metalliferous Mines Regulation 1961 and a revised mining plan approved by the concerned Assistant Director of Dept. of Geology & Mining shall be submitted with a bench geometry of 6m x 6m. PP shall, therefore, furnish justification and approval from competent authority for the deviation in the benches proposed.
2. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
3. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
4. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry.


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5. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
6. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.
7. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
8. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
9. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
10. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
 - a. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - b. Quantity of minerals mined out.
 - c. Highest production achieved in any one year
 - d. Detail of approved depth of mining.
 - e. Actual depth of the mining achieved earlier.
 - f. Name of the person already mined in that leases area.
 - g. If EC and CTO already obtained, the copy of the same shall be submitted.
 - h. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.

11. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
12. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
13. The PP shall furnish the revised manpower including the statutory & competent persons as required under the provisions of the MMR 1961 for the prosed quarry based on the volume of rock handled & area of excavation.
14. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
15. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
16. The Project Proponent shall conduct the 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) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells 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.
17. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
18. The Proponent shall carry out the Cumulative Impact study due to mining operations carried out in the quarry specifically with reference to the specific


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environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.

19. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
20. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
21. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
22. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
23. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
24. Impact on local transport infrastructure due to the Project should be indicated.
25. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
26. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
27. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final

EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.

28. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
29. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
30. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
31. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
32. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site-specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
33. A Disaster Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
34. A Risk Assessment and Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement


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- medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
38. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
39. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
40. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
41. The PP shall prepare the EMP for the entire life/lease of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
42. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda No: 361-28

(File No: 3296/2015)

Proposed Construction of additional residential and public buildings in Existing Township "Anuvijay Township" Kudankulam Nuclear Power Project at S.No.51/85,470/475,482,483,518/532 etc of Chettikulam Village, Radhapuram


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Taluk, Tirunelveli District, Tamil Nadu by M/s Nuclear Power Corporation of India Ltd (NPCIL) - For Amendment in Environmental Clearance. (SIA/TN/MIS/295756/2022, dated:26.12.2022)

The proposal was placed in 361st SEAC meeting held on 10.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s Nuclear Power Corporation of India Ltd (NPCIL) has applied for Amendment in Environmental Clearance for the Proposed Construction of additional residential and public buildings in Existing Township "Anuvijay Township" Kudankulam Nuclear Power Project at S.No.51/85,470/475,482,483,518/532 etc of Chettikulam Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of item 8(b) "Township and Area development project" of the Schedule to the EIA Notification, 2006.
3. EC issued Vide letter No.SEIAA/TN/F.3296/EC/8(b)/497/2016 dated:05.10.2016.

The SEAC noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

Agenda No. 361-29

File No. C.No. 6013/2023

Dalmia Bharat Sugar and Industries Ltd at Chettichavadi Jaghir Magnesite and Dunite Mines, to an extent of 449.364 Ha in Chettichavadi village, Salem Taluk and District, Tamilnadu. Salem District Survey Report for Dunite to be approved by SEIAA, Tamilnadu as per Minutes of Meeting of EAC, MOEF, New Delhi dated 17.01.2023-Reg

The proposal is placed in this 361st meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are available in the website


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(parivesh.nic.in).

The SEAC noted the following

- M/s Dalmia Bharat Sugar and Industries Ltd at Chettichavadi Jaghir Magnesite and Dunite Mines, to an extent of 449.364 Ha in Chettichavadi village, Salem Taluk and District, Tamilnadu has obtained ToR from MoEF&CC on 05.02.2021. Subsequently, the Public Hearing was conducted and final EIA/EMP report was submitted to MOEF on 29.11.2021.
- The MOEF in it's 9th EAC Meeting held on 17.01.2023 has instructed the PP to furnish on the points below, besides other details to be provided by the PP.
 1. The Project Proponent needs to submit the District Survey Report for Dunite to be approved by the SEIAA, Tamil Nadu.
- Based on that the PP has furnished the Color xerox of Salem District Survey Report approved and signed by Deputy Director, Department of Geology and Mining, Salem and the District Collector, Salem requested the SEIAA for necessary recommendation vide Lr Dt. 31.1.2023 received on 23.2.2023.

The Proposal was placed in 597th Authority meeting held on 27.2.2023 and Authority decided to refer the proposal to SEAC for necessary remarks on District Survey Report furnished by the PP.

The SEAC noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

**Agenda No. 361-30
(File No. 9739/2023)**

Proposed production enhancement from 3.MTPA to 6.97MTPA (ROM) in existing lime stone quarry (Go.No.76) over an extent of 166.005 Ha at S.F.No. SF Nos. 39/8, 40,41/1, 47/1,4 7/3, 47/11, 49, 50, 51, 52, etc. of Kallakudi Village, SF Nos. 54/1, 54/2, 55, 56, 57, 60, 75,81/1B, etc. of Kovandakurichi Village and SF No. 32 of Venkatachalapuram Village, Laigudi Taluk, Trichy District, Tamil Nadu by M/s Dalmia Cement (Bharat) Limited - for Terms of Reference (SIA/TN/MIN/414894/2023, Dated: 22.02.2023).


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The proposal is placed in this 361st meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, M/s Dalmia Cement (Bharat) Limited has applied for Terms of Reference for the Proposed production enhancement from 3.MTPA to 6.97MTPA in existing lime stone quarry (Go.No.76) over an extent of 166.005 Ha at S.F.No. SF Nos. 39/8, 40,41/1, 47/1,4 7/3, 47/11, 49, 50, 51, 52, etc. of Kallakudi Village, SF Nos. 54/1, 54/2, 55, 56, 57, 60, 75,81/1B, etc. of Kovandakurichi Village and SF No. 32 of Venkatachalapuram Village, Lalgudi Taluk, Trichy District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Modification in Modified Mining Plan along with Progressive Mine Closure (PMC) Plan for balance Period 2022-23 & 2023- 24 for 6.97 MTPA has been approved by the Regional Controller of Mines, IBM, Chennai vide TN/TCR/LST/MMP2088.MDS dated 19.08.2022.
4. The necessary permission has been granted by the competent authority in the above Modified Mining Plan to operate the leases simultaneously in contiguous manner.
5. The Mine lease is valid from 1.9.2004 to 31.8.2024 for a period of 20 years initially but however the 'Extension of lease tenure' is granted from 01.09.2024 to 31.03.2030 based on the MMDR Amendment Act, 2015 vide the letter obtained from the Industries Dept (G.O), dated. 26.07.2018.
6. The scheme of mining plan is approved for 2 years. The production for 2 years not to exceed 8.97 Million T (ROM) including 472529 Million T of OB, 1248441 Million T of sub grades & 1561861 Million T of Gniess.
7. The mining method involves the non-conventional method of deploying surface miners, rock breakers and rippers as the mine is in close proximity to


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habitation, worship places, etc and hence no drilling & blasting operations are carried out during the life of the project.

8. The PP has furnished the required documentations for the Certified Compliance Report obtained from the IRO, MoEF & CC, dated. 09.09.2022.
9. As the awarded EC for Expansion of 2.0 MTPA is covering all Pits and to be worked simultaneously for achieving the EC/consented production quantity of 2.0 MTPA, the PP has clarified its submission for the observed Non-Compliance.
10. Further, the PP had explained the reasons for expansion programme of the mine from 2 MTPA to 6.97 MTPA which is purely based on the detailed exploration programme in accordance with the UNFC Guidelines as indicated by the Ministry of Mines, Gov.
11. Consents to Operate Orders (CTOs) are being granted by Tamil Nadu Pollution Control Board (TNPCB) which are also periodically renewed. Existing CTOs are 1908121917156 (Water Act) and 1908221917156 (Air Act) dated 13.09.2019 for 2.00 MTPA Limestone are valid upto 31.03.2024.
12. The maximum Production achieved was 19,89,200 Tonnes (1.99 MTPA) during 2012-13 and Dispatched 19,92,752 Tonnes. All yearly productions from 2008-09 to 2021-22 were within the Consented Quantity.
13. Royalty amount of Rs.167.73 Crores was paid by the PP for the production from this ML-I during 14 years Period during 2008-09 to 2021-22.
14. Karalvetti Bird Sanctuary, Notified Eco Sensitive Area (ESA) vide S.O. 1909(E) dated 31.05.2019, is at a distance of 8.7 km in east direction.
15. Thachankurichi Reserved Forests (RF) is at a distance of 9.0 km in west from KVK Pit No. 4.

Based on the presentation made by the proponent, SEAC decided to recommend grant of Terms of Reference (TOR) with Public Hearing subject to the following additional TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The PP shall furnish the technical reasons for necessity of expanding the production capacity from 2 MTPA to 6.97 MTPA with detailed exploration

- programme as approved by the competent authority.
2. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
 3. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
 4. Since the existing depth of mine working is exceeded 40 m and proposed to work beyond 45m below ground level, the Project Proponent (PP) shall carry out the scientific studies to assess the slope stability of the existing benches and also the proposed quarry working benches for ensuring the safety of men & machinery deployed with suggested slope monitoring system as per the provisions given in the DGMS Tech Circular No.02, 09.01.2020, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, IIT-Kharagpur, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. during the time of appraisal for obtaining the EC.
 5. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry will not be carried out in the mine.
 6. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
 7. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines.
 - a. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - b. Quantity of minerals mined out.
 - c. Highest production achieved in any one year
 - d. Detail of approved depth of mining.
 - e. Actual depth of the mining achieved earlier.
 - f. Name of the person already mined in that leases area.


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- g. If EC and CTO already obtained, the copy of the same shall be submitted.
- h. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
8. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
9. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
10. The PP shall furnish the revised manpower including the statutory & competent persons as required under the provisions of the MMR 1961 for the proposed quarry based on the volume of rock handled & area of excavation.
11. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
12. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
13. The Project Proponent shall conduct the hydro-geological study to assess the quality & quantity of the ground water due to impacts of proposed quarrying operation and to prepare a ground water modelling, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Geology, Chennai etc 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) along with the collected water level data for both monsoon and

non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells 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.

14. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
15. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
16. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
17. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
18. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
19. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.


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21. Impact on local transport infrastructure due to the Project should be indicated and possibility of exploring the alternative transportation system such as electric vehicles shall be provided for environmental protection.
22. The PP shall obtain the NOC from the competent authority for working below the Ground Water Table and also stipulate the
23. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
24. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
25. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
26. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
27. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
28. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
29. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.


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30. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site-specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
31. A Disaster Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
32. A Risk Assessment and Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
33. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
34. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
35. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
36. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
37. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
38. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed


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compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.

39. The PP shall prepare the EMP for the entire life/lease of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.

40. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda No: 361-31

(File No: 9769/2022)

Proposed Black Granite quarry lease over an extent of 1.11.5Ha at S.F.Nos. 104/7, 104/8, 104/9A, 106/1B2, 106/1C & 106/4 of Chittali (W) Village, Kunnam Taluk, Perambalur District, Tamil Nadu by Thiru. K.Jaganathan -For Environmental Clearance (SIA/TN/MIN/415695/2023, 24.01.2023).

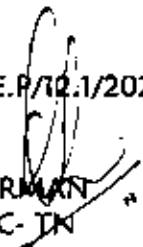
The proposal was placed in this 361st meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
2. The quarry lease was granted vide G.O.3(D) No. 47, Industries (MMB.1) Department Dated 07.10.2010 for a period of Twenty years. The quarry lease deed was executed on 15.10.2010 and the lease period is valid upto 14.10.2030.
3. The mining plan was prepared in respect of Black Granite quarry and the same was approved by the State Geology and Mining Department, Guindy, Chennai vide letter No. 8952/MM2/2010 dated 13.09.2010. The first scheme of quarrying was prepared and submitted for the period of 2015-16 to 2019-20.
4. Subsequently, the PP has obtained Environmental Clearance from the SEIAA, Tamil Nadu vide Letter No. SEIAA-TN/F.No.4890/EC/1(a)/3569/2016, dated: 19.08.2016 for the approved quantity of 753 cu.m of Black Granite and depth upto 25m BGL.
5. The PP has obtained Certified Compliance Report vide Lr.No. E.P/12.1/2022-


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23/SEIAA/233/TN/128 dated: 30.01.2023.

6. The existing pit depth- 19m BGL.
7. Now, the Second Scheme of quarrying along with Progressive Quarry Closure Plan is prepared and got approved from State Geology and Mining Department, Guindy, Chennai to obtain approval for the period of five years from 2020-21 to 2024-25.
8. The salient features of the proposed project as follows

Sl. No	Details of the Proposal	
1.	Name of the Owner/Firm	Thiru.K.Jaganathan, No.64, Karuvampalayam, Extension post, Tiruppur Taluk, Tiruppur District-641604.
2.	Type of quarrying	Black Granite
3.	S.F No. Of the quarry site with area break-up	104/7, 104/8, 104/9A, 106/1B2, 106/1C & 106/4
4.	Village in which situated	Chittali (W)
5.	Taluk in which situated	Kunnam
6.	District in which situated	Perambalur
7.	Extent of quarry (in ha.)	1.11.5Ha
8.	Lease period of the quarry	20 years (15.10.2010 to 14.10.2030)
9.	Estimated life of the mine	Upto lease period 14.10.2030
10.	Period of quarrying proposed	5 Years 2 nd Scheme of mining (2020-21 to 2024-25)
11.	Type of mining	Opencast Mechanized of Mining
12.	Production (Quantity in m ³)	As per mining plan, the lease period is 20 years. As per the Production & Development Plan is for the period of 5 Years 2 nd Scheme of mining (2020-21 to 2024-25), the total excavation should not exceed 8382m ³ of ROM and 2515m ³ of Black Granite @ 30% recovery and 5867m ³ of Granite waste @70% with ultimate depth of mining 25m Below


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		ground level. The annual peak production 1955 m ³ of ROM and 598 m ³ of Black Granite @ 30% recovery and 1394m ³ of Granite waste @70%.
13.	Proposed depth for this scheme	15m BGL (1m Topsoil+4 m Weathered Formation+10m Black Granite)
14.	Existing Pit dimension	101m (L) X 39m (W) X 19m (D)
15.	Ultimate Depth of quarrying	25m BGL
16.	Depth of water table	57m in Summer Season -52m in Rainy Season BGL
17.	Latitude & Longitude of all corners of the quarry site	11°16'15.94"N to 11°16'20.01"N 78°58'07.47"E to 78°58'12.41"E
18.	Top Sheet No.	58-1/15
19.	Man Power requirement per day:	26 Nos.
20.	Precise area communication approved by the Principal Secretary to the Government, Industries Department with date	G.O. (3D) No.47 Industries Department dated 07.10.2010.
21.	Second scheme of Mining Plan approved by Commissioner, Commissionerate of Geology and Mining with date	Rc.No.2708/MM4/2021, dated:08.05.2021.
22.	Assistant Director, mines 500m cluster letter	Rc.No.69/G&M/2019, dated 30.06.2021.
23.	VAO certificate regarding 300m radius cluster	Letter dated: 09.06.2021
24.	Water requirement: 1. Drinking & Domestic Water (In KLD) 2. Dust suppression(in KLD) 3. Greenbelt (in KLD)	2.0 KLD 0.6 KLD 1.0 KLD 0.4 KLD
25.	Power requirement a. Domestic Purpose	TNEB 13408Liters of HSD
26.	Project Cost	Rs.13724600/-

27.	EMP cost	Capital cost: Rs.2664050/- Recurring cost: Rs.1107291/- Annum
28.	CER cost	Rs.5.00,000/- as accepted by the PP

9. Earlier, this subject was placed in the 249th SEAC meeting held on 25.02.2022. Based on the presentation and documents furnished by the project proponent, SEAC noted that in G.O(MS) No. 295 dated 03.11.2021 the Government in Industries Department has notified the following Rules specifying certain conditions for permitting mining activities near ecologically sensitive areas.

" ... No quarrying or mining or crushing activities shall be carried out within one kilometer radial distance or the protective distance as notified by the Ministry of Environment, Forest and Climate Change, Government of India from time to time, whichever is more, from the boundaries of ecologically sensitive areas, environmentally and ecologically sensitive protected areas such as the National parks, Wild life Sanctuaries, Tiger Reserves, Elephant corridors and Reserve Forests".

The Committee noted that the Chittali Reserve Forest is located within a distance of 1 km from this project site and the proposal is, therefore, hit by the above G.O. The Committee, therefore, decided not to recommend the proposal.

Subsequently, the above rule has been amended vide GO No. 243 Industries, Investment Promotion and Commerce (MMC.1) Department, dated 14.12.2022, as below.

"In the said rules, in rule 36, in Sub-rule (1-A), in Clause(e) for the expression "the National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors and Reserve Forests", the expression "National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors" shall be substituted".

Based on the above said G.O. The Proponent has resubmitted the same proposal on 24.01.2023 with all necessary supporting documents in order to obtain Environmental Clearance.

Now the proposal was placed in the 361st Meeting of SEAC held on 10.03.2023. The SEAC noted the following.

Description	Old File	New File
File No	8720	9769


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Online Proposal No for EC	SIA/TN/MIN/221186/2020 22.07.2021	Dt.	SIA/TN/MIN/415695/2023 Dated 24.01.2023
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Based on the presentation made by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the total excavation should not exceed 8382m³ of ROM and 2515m³ of Black Granite @ 30% recovery and 5867m³ of Granite waste @70% with ultimate depth of mining 25m Below ground level. The annual peak production 1955 m³ of ROM and 598 m³ of Black Granite @ 30% recovery and 1394m³ of Granite waste @70%, subject to the normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. 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 adhere the EMP of Lakhs as committed.
3. As accepted by the Project Proponent the revised CER cost is Rs.5.0 lakhs and the amount shall be spent to the activities as committed for Government Higher Secondary School, Peelvadi Village, Perambalur Taluk, Perambalur before obtaining CTO from TNPCB.
4. The proponent shall mandatorily appoint the statutory Mines Manager and the Mining Engineer in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Granite Conservation & Development Rules, 1999 respectively.
5. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
6. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and

mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de silted and maintained properly.

7. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
8. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
9. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
10. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
11. The PP shall carry out the scientific studies to assess the slope stability of the existing benches and quarry wall within one year from the commencement of mining operations, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
12. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of Granite, waste, over burden, side burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, dump management, dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of


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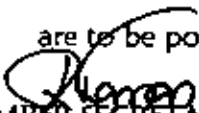

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approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.

13. The Proponent shall ensure that the overburden, waste rock and non-saleable granite generated during prospecting or mining operations of the granite quarry shall be stored separately in properly formed dumps on grounds earmarked. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps. Such dumps shall be properly secured to prevent the escape of material in harmful quantities which may cause degradation of the surrounding land or silting of water courses.
14. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
15. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
16. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
17. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
18. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The

proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.

19. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
20. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarry as assured in the Environmental Management Plan & the approved Mine Closure Plan.
21. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
22. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
23. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
24. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
25. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.


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26. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted.
27. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
28. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
29. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the Granite Conservation and Development Rules 1999, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
30. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
31. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
32. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.


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33. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
34. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. The Project Proponent shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines (IBM) from time to time.
35. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
36. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

Agenda No: 361-TA1

(File No: 8261/2021)

Existing sand quarry in Cauvery River poramboke land at S.F.No.1(P), over an extent of 4.90.0 Hectares in Kallapalli Village, Krishnarayapuram Taluk, Karur District, Tamil Nadu by The Executive Engineer, PWD/WRD, Mining & Monitoring Division, Tiruchirappalli - for amendment for Environmental Clearance. (SIA/TN/MIN/261141/2022 Dt:11.03.2022)

The proposal was placed in this 361st Meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are available on the website (www.parivesh.nic.in).

The SEAC noted the following:

1. Earlier, EC was issued vide Lr. No. SEIAA-TN/F.No. 8261/EC/1(a)/ 4595/2021, dated: 27.03.2021 for the existing sand quarry in in Cauvery River S.F.No.1(P), over an extent of 4.90.0 Hectares in Kallapalli Village, Krishnarayapuram Taluk.


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Karur District, Tamil Nadu by The Executive Engineer, PWD/WRD, Mining & Monitoring Division, Tiruchirappalli for the quarrying of 23709cu.m of Shoals & 49000cu.m of Sand for the period of 2 Years and upto 1m below bed level as per mining plan vide Rc. No. 833/Mines /2020 Dt:07.12.2020.

2. Now the PP has sought amendment for Environmental Clearance for the existing sand quarry in Cauvery River poramboke land at S.F.No.1(P), over an extent of 4.90.0Hectres in Kallapalli Village, Krishnarayapuram Taluk, Karur District, Tamil Nadu by The Executive Engineer, PWD/WRD, Mining & Monitoring Division, Tiruchirappalli for the following

S.No.	Previous EC Conditions vide Lr. No.SEIAA-TN/F.No. 8261/EC/1(a)/ 4595/2021, dated: 27.03.2021	Amendment Sought for
1.	Open cast Manual Mining	Open cast Mechanized Mining
2.	Manual Loading	Loading by Hydraulic Excavator
3.	Bullock Cart Transportation	General transportation using Tipper, Tractor & Bullock cart.

3. Modified Mining Plan vide Rc.No. 833/Mines /2018 Dt:10.02.2023.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of amendment for Environmental Clearance in regard to the following amendment sought shall be amended and substituted in the earlier EC issued vide Lr. No.SEIAA-TN/F.No. 8261/EC/1(a)/ 4595/2021, dated: 27.03.2021 as follows subject to all other conditions stipulated vide EC Lr. No.SEIAA-TN/F.No. 8261/EC/1(a)/ 4595/2021, dated: 27.03.2021 remains unaltered.

S.No.	Previous EC Conditions vide Lr. No.SEIAA-TN/F.No. 8261/EC/1(a)/ 4595/2021, dated: 27.03.2021	Amendment Sought for	Amendment granted


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1.	Open cast Manual Mining	Open cast Mechanized Mining	Open cast Mechanized Mining
2.	Manual Loading	Loading by Hydraulic Excavator	Loading by Hydraulic Excavator
3.	Bullock Cart Transportation	General transportation using Tipper, Tractor & Bullock cart.	General transportation using Tipper, Tractor & Bullock cart (from stock yard only).

Subject to the following other conditions:

1. 10% of the total excavated quantity shall be utilized for local beneficiaries.
2. The PP shall plant at least 1000 no of tree plants along the banks of the River in the vicinity of the site, as a part of EMP.


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ANNEXURE-I

1. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
4. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
5. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
6. The proponent shall ensure that the slope of dumps is suitably vegetated in scientific manner with the native species to maintain the slope stability, prevent erosion and surface run off. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps.

7. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
8. The Project Proponent shall carry out slope stability study by a reputed academic/research institution such as NIRM, IIT, Anna University for evaluating the safe slope angle if the proposed dump height is more than 30 meters. The slope stability report shall be submitted to concerned Regional office of MoEF&CC, Govt. of India, Chennai as well as SEIAA, Tamilnadu.
9. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
10. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
11. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
12. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted in proper escapements as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.


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13. **Noise and Vibration Related:** (i) The Proponent shall carry out only the Controlled Blasting operation using NONEL shock tube initiation system during daytime. Usage of other initiation systems such as detonating cord/fuse, safety fuse, ordinary detonators, cord relays, should be avoided in the blasting operation. The mitigation measures for control of ground vibrations and to arrest fly rocks should be implemented meticulously under the supervision of statutory competent persons possessing the I / II Class Mines Manager / Foreman / Blaster certificate issued by the DGMS under MMR 1961, appointed in the quarry. No secondary blasting of boulders shall be carried out in any occasions and only the Rock Breakers (or) other suitable non-explosive techniques shall be adopted if such secondary breakage is required. The Project Proponent shall provide required number of the security sentries for guarding the danger zone of 500 m radius from the site of blasting to ensure that no human/animal is present within this danger zone and also no person is allowed to enter into (or) stay in the danger zone during the blasting. (ii) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
14. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
15. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
16. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.

17. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
18. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
19. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.
20. The Project proponent shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flora, fauna etc.
21. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
22. The project proponent shall ensure that the provisions of the MMRD, 1956, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
23. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
24. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the


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Project Proponent liable for legal action in accordance with Environment and Mining Laws.

25. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
26. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
27. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
28. The Project proponent shall install a Display Board at the entrance of the mining lease area/abutting the public Road, about the project information as shown in the Appendix -II of this minute.


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Appendix -I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விழம்ப
2	<i>Adenanthera pavonina</i>	Manjadi	மஞ்சாடி, மஞ்சாடிமரம்
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurna</i>	Mantharai	மந்தரை
6	<i>Bauhinia racemosa</i>	Aathi	அத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathu	இருவத்தி
8	<i>Buchanania axillaris</i>	Kattuma	கட்டும்மா
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Punnai	புனை
13	<i>Cassia fistula</i>	Sarakondrai	சரகண்டிரை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கண்டிரை
15	<i>Chloroxylon swietenia</i>	Purasamaram	புரசாமரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கொங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvili	நரவில்
18	<i>Creteva adansonii</i>	Mavalingum	மாவலிங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சீருவா, சித்ருஷா
21	<i>Diospyro ebenum</i>	Karungali	கரங்கலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வகனா
23	<i>Ficus amphissima</i>	Kallitchi	கல் இத்தி
24	<i>Hibiscus tiliaceou</i>	Astrupoovarasu	அஸ்திரபூவரசு
25	<i>Hardwickia binata</i>	Aacha	அச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	அயில் மரம், அயில்
27	<i>Lanssa coromandelica</i>	Odhiam	ஒடியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மரடூ
29	<i>Lepisanthus tetraphylla</i>	Neikottamaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	வில் மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பழை
34	<i>Mimusops denigi</i>	Magizhamaram	மகிழமரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனா
38	<i>Phoenix sylvestre</i>	Eachai	ஏச்சை
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Munnai	முண்டை
41	<i>Premna serratifolia</i>	Narazamunai	நாரமுண்டை
42	<i>Premna tomentosa</i>	Mahipoovarasa	மாஹிபூவரசா
43	<i>Prosopis cinerea</i>	Vanni maram	வாணி மாம்ப
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேனிமங்க
46	<i>Pterospermum xylocarpum</i>	Polavu	புலாவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கரிபலா
48	<i>Salvadora persica</i>	Uga Maram	உகா மாம்ப
49	<i>Sapindus amarginatus</i>	Manipangan, Soapukai	மாணிபுங்கா சோபுகை
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Strobilus asper</i>	Piray maram	பிராய் மாம்ப
52	<i>Strychnos macrodonic</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therhang Kottai	தேதாங்க கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandi	தாண்டி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேனி மருது
57	<i>Toona ciliate</i>	Sandhana vembu	சாந்தா வேம்பு
58	<i>Thespesia populnea</i>	Puvamsu	புவம்சு
59	<i>Walsuratrifoliata</i>	valsura	வால்சூரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecolobium dulce</i>	Kodukkapuli	கொடுக்காபுளி


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