

**State Expert Appraisal Committee (SEAC)**

Minutes of 407<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 07.09.2023 (Thursday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Metallurgical Industries and Mining projects.

**Confirmation of Earlier Minutes**

The minutes of the 406<sup>th</sup> SEAC meeting held on 01.09.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

**Agenda No: 407-01**

**(File No: 10240/2023)**


**Proposed Rough Stone and Gravel Quarry over an extent of 2.53.5Ha at S.F.Nos.80/3 & 80/4 of Gopichettipalayam Village, Pappireddipatty Taluk, Dharmapuri District, Tamil Nadu by M/s. Shri Ponguru Blue Metals Mines-For Terms of Reference. (SIA/TN/MIN/434110/2023, Dated: 21.06.2023).**

The proposal was placed in the 407<sup>th</sup> Meeting of SEAC held on 07.09.2023. 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. Shri Ponguru Blue Metals Mines has applied for Terms of Reference for the Proposed Rough Stone and Gravel Quarry over an extent of 2.53.5Ha at S.F.Nos.80/3 & 80/4 of Gopichettipalayam Village, Pappireddipatty Taluk, Dharmapuri 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. As per the mining plan the lease period is 10 years. The mining plan is for the period of five years & production should not exceed 162625 m<sup>3</sup> of Rough Stone & 40664 m<sup>3</sup> of Gravel with ultimate depth of mining 47m (2m above ground level and 45m below ground level).

Based on the presentation made by the proponent, SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs.

  
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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 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.
2. The PP shall furnish latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
3. The Proponent shall develop greenbelt and garland drain around the boundary of the proposed quarry and the photographs indicating the same shall be shown during the EIA appraisal.
4. A detailed progressive mine closure plan for the life of the proposed quarry shall be included in EIA/EMP report based on the site-specific environmental settings and mining method.

**Agenda No: 407-02**

**(File No: 10247/2023)**

**Proposed Colour granite quarry over an extent of 1.98.0Ha at SF.No. 333(Part) of Shoolamalai village, Bargur taluk, Krishnagiri District, Tamil Nadu by Thiru.M.Kowshik Dhev-For Terms of Reference. (SIA/TN/MIN/436906/2023, Dated:16.07.2023).**

The proposal was placed in this 407<sup>th</sup> Meeting of SEAC held on 07.09.2023. 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, Thiru.M.Kowshik Dhev has applied for Terms of Reference for the Proposed colour granite quarry over an extent of 1.98.0Ha at SF.No. 333(Part) of Shoolamalai 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.
3. As per the mining plan the lease period is 20 years. The mining plan is for the period of five years & production should not exceed 43213 m<sup>3</sup> of ROM, 8643

  
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m<sup>3</sup> of Colour Granite Recovery @20% & 34570 m<sup>3</sup> of Granite Waste @80% with ultimate depth of mining 23m.

4. Precise area communication letter vide letter No.893/MME.2/2021-1, Dated 26.02.2021 under para 2

*"I am directed to declare you as successful bidder to grant quarry lease for quarrying of Colour Granite over an extent of 1.98.0 hectares of Government Poramboke land in S.F.No.333 (Part) in Shoolamalai Village of Bargur Taluk, Krishnagiri District for a period of 20 years under rule B-A of the Tamil Nadu Minor Mineral Concession Rules, 1959 subject to the outcome of W.P.No.18317 of 2020 and W.P.No.16060/2020 and W.M.P.No.19999 of 2020. The District Collector shall comply with the directions of the Hon'ble High Court of Madras in W.P.No.18317 of 2020 and W.P.No.16060/2020 and W.M.P.No.19999 of 2020 and undertake the activities mentioned in para 3 below strictly in compliance with the directions of the Hon'ble High Court of Madras."*

Based on the presentation made by the proponent, SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing, subject to the following 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 details of W.P.No.18317 of 2020 and W.P.No.16060/2020 and W.M.P.No.19999 of 2020 which is pending with Hon'ble Madras High Court.
2. 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.
3. SEAC has noted that the school situated at a distance of 310 m, hence the PP shall submit details of mining methodology and impact of dust/particulate emission and vibration on the surrounding environment in regard to peak production of the cluster area along with details of transport route of quarried minerals &

  
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mitigation measures adopted for fugitive emission due vehicular movement/transport route.

4. The PP shall furnish revised CER details.
5. The project proponent shall enumerate on the details of Trees existing in the proposed mining area, Age of trees & its yield details.

**Agenda No: 407-03**

**(File No: 10261/2023)**

**Proposed Multi Colour Granite Quarry over an extent of 2.97.0Ha at S.F.Nos. 299/1(P), 299/2A(P), 299/2B(P), 301(P), 302/2(P) and 302/3(P) of Kallai Village, Kulithalai Taluk, Karur District, Tamil Nadu by M/s. Apple Granites-For Terms of Reference. (SIA/TN/MIN/430899/2023, Dated:26.05.2023).**

The proposal was placed in the 407<sup>th</sup> Meeting of SEAC held on 07.09.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. Earlier, the PP has obtained Environmental Clearance from DEIAA vide Lr. No. DEIAA-DIA/TN/MIN/9629/2017-KRR/Ec.No.88/2017/Mines, Dt: 18.01.2018 for the proposed Multi Colour Granite Quarry over an extent of 2.97.0Ha at S.F.Nos. 299/1(P), 299/2A(P), 299/2B(P), 301(P), 302/2(P) and 302/3(P) of Kallai Village, Kulithalai Taluk, Karur District for the production of Multi Colour Granite - 19500 cu.m & depth up to 13m.
2. Lease granted for the period of 20 years. The lease deed was executed on 21.02.2018 and lease period is valid up to 20.02.2038.
3. This EC issued by the DEIAA has been filed before the SEIAA-TN for reappraisal in compliance to the order of the Hon'ble NGT in O.A142 of 2022 as per the Guidelines stipulated in MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.
4. Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC vide Lr. EP/12.1/2023-24/SEIAA/57/TN/913 Dt:28.07.2023.
5. Now, The Project Proponent, M/s. Apple Granites has applied for Terms of Reference for the Proposed Multi Colour Granite Quarry over an extent of

  
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2.97.0Ha at S.F.Nos. 299/1(P), 299/2A(P), 299/2B(P), 301(P), 302/2(P) and 302/3(P) of Kallai Village, Kulithalai Taluk, Karur District, Tamil Nadu.

6. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
7. As per the mining plan the lease period is 20 years (21.02.2018 to 20.02.2038). The first scheme of mining plan is for the period of five years (2023 to 2028) & production should not exceed 38,898 m<sup>3</sup> of ROM, 19,449 m<sup>3</sup> of Granite Recovery (@50%) & 19,449 m<sup>3</sup> of Granite Waste (@50%) with ultimate depth of mining 23m BGL.

Based on the presentation and details furnished by the project proponent, SEAC decided to grant Terms of Reference (TOR) with Public Hearing subject to the following 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 proponent shall give an Affidavit before the issuance of ToR from SEIAA-TN stating that the mining operations will remain suspended from the date of publication of MoEF & CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023 till they obtain the EC granted by the SEIAA after the reappraisal process for carrying out remedial actions subsequently.
2. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which shall stipulate the following information:
  - i. Original pit dimension of the existing quarry
  - ii. Quantity achieved Vs EC Approved Quantity
  - iii. Balance Quantity as per Mineable Reserve calculated.
  - iv. Mined out Depth as on date Vs EC Permitted depth
  - v. Details of illegal/illicit mining carried out, if any
  - vi. Non-compliance/Violation in the quarry during the past working.
  - vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
  - viii. Existing condition of Safety zone/benches

  
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- ix. Details of any penalties levied on the PP for any violation in the quarry operation
3. The PP shall furnish mitigation measures/remedial action plan for the non-compliance stated in the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC.
  4. The study on impact of the proposed quarrying operations on the surrounding environment which includes water bodies, etc.
  5. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.
  6. The Proponent shall furnish a comprehensive plan for green belt plantation and stacking the waste blockage of granite produced from the proposed quarrying operation to ensure sustainable environment.

**Agenda No: 407-04**


**(File No: 10192/2023)**


**Proposed Rough Stone Quarry over an extent of 5.00.0Ha at S.F.No. 679/2 (P) of Thorapalli Agraharam Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru. P. Balasubramanian-For Terms of Reference. (SIA/TN/MIN/435486/2023, Dated:03.07.2023).**

This proposal was earlier placed in the 395<sup>th</sup> Meeting of SEAC held on 27.07.2023. 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, Thiru. P. Balasubramanian has applied for Terms of Reference for the Proposed Rough Stone Quarry over an extent of 5.00.0Ha at S.F.No. 679/2 (P) of Thorapalli Agraharam Village, Hosur 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 8 years 10 Months 23 Days. The mining plan is for the period of first five years & production should not exceed 629886 m<sup>3</sup> of Rough Stone with ultimate depth of mining 53.1m (21.1m above ground level and 32m below ground level).
4. Earlier the proposal was placed in the 395<sup>th</sup> Meeting of SEAC held on 27.07.2023. Based on the presentation and details furnished by the project proponent, SEAC decided to call for the following additional details from the PP:
  - The PP shall furnish the copy of change in land use classification from Kadu Porampoke to Kallankuthu Porampoke in accordance with the existing law.

Hence, the proponent is advised to submit the additional documents/information as sought above within a period of 30 days failing which your proposal will automatically get delisted from the PARIVESH portal.

5. Subsequently, the proponent had filed a W.P.No. 22570 of 2023 with the prayer as follows

*"The writ petition filed under Article 226 of the Constitution of India, to issue a writ of Mandamus, directing the 4th respondent herein to process with the petitioner's online application dated 03.07.2023, acknowledged vide Letter No. SEIAA-TN/F.No.10192/2023, dated 08.07.2023, seeking for prior environment clearance for quarrying rough stone in an area of 5.00.0 Ha. situate at Thorapalli Agraharam Village, Hosur Taluk, Krishnagiri District, comprised in S.F.No.679/2 (Part-5), without insisting any 'No Objection Certificate' or prior approval/permission under the Forest Conservation Act, 1980 and further directing the 4th respondent to issue such environmental clearance."*

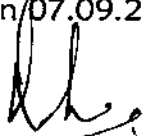
6. Subsequently, a common judgement had been issued vide order dated 03.08.2023 which inter alia states as follows

*"...6. Now, this Court approves the schedule provided by the 4th respondent for completing its assessment process."*

Now, the proposal was again placed in the 407<sup>th</sup> SEAC meeting held on 07.09.2023.

  
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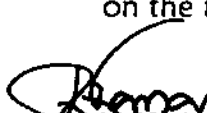
Based on the presentation and documents furnished by the proponent, committee noted the following

**I. Chronology of Events**

1. The Principal Secretary to the Government, Environment and Forest Department, Tamil Nadu had initially issued a draft notification dated 23.02.1987, vide G.O.Ms.No.165 under section 4 of Tamil Nadu Forest Act, 1882, by which issued a proposal to declare the below mentioned lands situated in Thorapalli Agraharam Village as reserved forest: -

S.No.	Survey No.	Extent in Hectares
1.	679/2	46.54.0
2.	680/2	82.96.5
3.	691	55.09.5
4.	722	48.25.5
5.	727	2.58.0
Total		235.43.5

2. Subsequently, The Principal Secretary to the Government, Environment and Forest Department, Tamil Nadu had issued gazette publication dated 22.07.1987, in the Dharmapuri District Gazette publishing the aforesaid draft notification dated 23.02.1987. In the above said notification, the proposed mining site area comprised in S. No. 697/2 was part of the issued Gazette notification dated 22.07.1987.
3. Subsequently, the Forest Settlement Officer, Krishnagiri, passed four separate orders all dated 17.01.1997 on the petition submitted by the individual land owners, excluding the total extent of 2.58.0 Hectare of the aforesaid land comprised in S.No.727.
4. On 05.10.2006, the villagers of Thorapalli Agraharam had submitted their representation to exclude the land comprised in S.Nos.679/2 & 680/2. Based on the representation of the villagers, the District Forest Officer had sent his

  
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letter dated 22.11.2006 to the District Collector, Krishnagiri, recommending the aforesaid land comprised in S.Nos.679/2 & 680/2 to change as gracing purpose as the same is not to be declared as reserved forest. On receipt of the aforesaid order of DFO, after completing site inspection and enquiry, the Forest Settlement Officer, Krishnagiri, had passed his order dated 29.12.2006, excluding the aforesaid lands comprised in S.Nos.679/2 & 680/2.

5. Thiru. P. Balasubramanian S/o. K. Palanivelu, had been granted a quarry lease for rough stone over an extent of 5.00.0 hectares in Government land S.F. No.679/2 (Part-5) of Thorapalli Agraharam village of Hosur Taluk, Krishnagiri District under Tender Cum Auction System vide in the District Collector Krishnagiri Proceedings Roc. No.79/2008/Mines-2 dated 29.03.2008 for period of 10 years.
6. The lease deed had been executed on 30.05.2008 and the lease period is 10 years from 30.05.2008 to 29.05.2018.
7. Subsequently, due to the objection of the forest department, after issuing show cause notice and after conducting personal hearing and taken into consideration of the statement and records with the provisions of the rules the quarry lease granted in favour Thiru. P. Balasubramanian S/o. K. Palanivelu, was cancelled and it is ordered that the various fees remitted by the lessee to Government for obtaining the lease shall be proportionately returned to the applicant after obtaining suitable orders from the Government vide District Collector, Krishnagiri Proceedings in Roc.NO.407/2009/Mines-2 dated 13.09.2010.
8. Aggrieved by the order, Thiru. P Balasubramanian has preferred first appeal before the Director of Geology and Mining, Chennai-32 and the same has been dismissed vide Proceedings Roc. No.10737/MM9/2010 dated 27.04.2012. He has again filed second appeal before the Government.
9. Subsequently, the classification of the lands in S.F.No.678/2 over an extent of 115 acre and 680/2 over an extent of 205 acres of Thorapalli Agraharam

  
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village of Hosur Taluk Krishnagiri district had been changed from "Kadu" poramboke to "Kallankuthu".

10. In the G.O.(D) No.223 Ind. (MMCI) Department dated: 28.12.2017 filed the appeal petition filed by M/s Thriveni Earth Movers Pvt. Ltd., Salem, had been due to the reclassification of the land and the District Collector Krishnagiri had been directed to restore the lease granted to the appellant for quarrying rough stone over an extent of 5.00.0 hecets. In Government land "Kadu" poramboke presently classified as "Kallankuthu" poramboke in S.F.No. 679/2 (Part-4) of Thorapalli Agraharam village of Hosur Taluk Krishnagiri District.
11. In view of the above precise area over an extent of 5.00.0 ha in Government land SF.No.679/2 (Part-5) of Thorapalli Agraharam Village of Hosur Taluk of Krishnagiri District is communicated to Thiru. P. Balasubramanian S/o. K. Palanivelu for the proposed permission for Rough Stone Quarrying for a period of **8 years 10 Months 23 Days** to compensate the loss of lease period due to forest objection and he is directed to submit the Approved Mining Plan, Approved by The Deputy Director of Geology and Mining, Krishnagiri. Environment Clearance and consent of the Tamil Nādu Pollution Control Board within the prescribed time limit.
12. A small portion of the area is worked in the southern portion of the lease (117m x 41 mx 11 m) for a total volume of 52767Cu.m which includes usable rock, weathered waste rock, top soil etc.,
13. The mining plan was approved by the Deputy Director of Geology and mining Krishnagiri vide ROC.No.407/2009/Mines-2 dated:02.05.2023 stating that  
*"...It is informed that by considering the above facts, the mining plan approved on 06.04.2018 by the Deputy Director of Geology and mining, Krishnagiri for a period of 05 years will come into effect from the date of execution of lease deed which will be carried out only after the issuance of Environmental Clearance".*

  
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II. Forest Conservation Act, 1980 under para 2

2. Restriction on the de-reservation of forests or use of forest land for non-forest purpose.

Notwithstanding anything contained in any other law for the time being in force in a State, no State Government or other authority shall make, except with the prior approval of the Central Government, any order directing –


- (i) that any reserved forest (within the meaning of the expression “reserved forest” in any law for the time being in force in that State) or any portion thereof, shall cease to be reserved;
- (ii) that any forest land or any portion thereof may be used for any non-forest purpose.
- (iii) that any forest land or any portion thereof may be assigned by way of lease or otherwise to any private person or to any authority, corporation, agency or any other organization not owned, managed or controlled by Government;
- (iv) that any forest land or any portion thereof may be cleared of trees which have grown naturally in that land or portion, for the purpose of using it for reforestation.

In the view of the above facts and documents furnished by the proponent, SEAC recommended grant of Terms of Reference (TOR) with Public Hearing as per Annexure I of this minute, subject to the following 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. With reference to the notes above, the CLA's proceedings submitted by the PP has not thrown the required light on the subject. It is seen from the proceedings that the Thorapalli Agraharam Village was a 'inam' village and, in the settlement, the SF. No. in question was classified as government Poramboke kaadu. Subsequently, Government, the Principal Commissioner, Land Survey in his Proceedings in Na. Ka. (I.1)/2989/2016, dated 08.06.2016 had reclassified the subject lands comprised in S.F.No.679/2 from Kadu Poramboke to Kallankuthu

  
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Poramboke. In this context according to the para 2 of Forest (Conservation) Act,1980, any land classified as forest in any of the government records cannot be reclassified and used for non-forest purposes without the prior approval of Government of India. The CLA's proceedings changing the classification from 'kadu' should have been changed only with the prior approval of Gol as per the Forest Act. The information on the same, however, is not available in the proceedings. So, in this case the PP shall submit clarification from the CLA that proper procedures were followed in changing the classification of the land in question.

2. The study shall include impact of the proposed mining on the Water falls and River Ponnaiyar flowing at a distance of 200m from the mine lease area and the proposed control/mitigation measures.
3. The Proponent shall justify the selection of the site for carrying out the stone quarrying with the total volume arrived for the excavation & production adequate details such as lithology of the deposit, reserve estimation, place for waste dump/mined mineral storage, end-use of mined materials, identified potential customers/end-users and travel path.
4. The proponent shall revise the mining plan indicating the bench height of 6 m with width of not less than bench height, as per Reg. 106 2(a) of Metalliferous Mines Regulations, 1961.

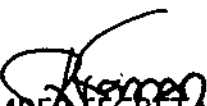
In the context of 1 above, SEIAA may also get a clarification from the Forest Department, whether the prescribed procedures were followed for changing the classification of the land in question.

Agenda No: 407 - 05

(File No: 10229/2023)

Proposed Rough Stone and Gravel Quarry over an extent of 4.20.0 Ha at S.F.Nos. 34/1A,1B,2,52/2,3 & 60/2 (patta land), of Viralipatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu by Thiru S.R. Muthupandi - For Terms of Reference. (SIA/TN/MIN/436845/2023, 17.07.2023)

The proposal was placed in this 407<sup>th</sup> meeting of SEAC held on 07.09.2023. The Project

  
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Proponent made a detailed presentation on the proposed project. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru S.R. Muthupandi has applied for Terms of Reference for EIA study for the proposed Rough Stone and Gravel Quarry over an extent of 4.20.0 Ha at S.F.Nos. 34/1A,1B,2,52/2,3 & 60/2 (patta land), of Viralipatti Village, Vadipatti Taluk, Madurai 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 as amended.

Based on the presentation and details furnished by the project proponent, SEAC decided to grant Terms of Reference (ToR) with Public Hearing for EIA study subject to the following ToRs, in addition to (i) the standard terms of reference for EIA study shown in Annexure-I and (ii) the Standard ToR 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 details on the flow pattern and its destination point of the two streams (tributary) existing near the Project site.
2. The Proponent shall provide the details on the registration process of the land.
3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m 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 with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
4. Since the waterbodies such as canals/water tanks are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the core zone of 1 km due to proposed quarrying operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of

  
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Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus.

5. 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.
6. The Proponent shall carry out Bio diversity study through Department of Ecology and Environmental Sciences, Pondicherry University and the same shall be included in EIA Report.
7. The PP shall prepare the EMP for the entire life of mine.

**Agenda No: 407 - 06**

**(File No: 10241 /2023)**

**Existing Naganur Multi Color Granite Quarry over an extent of 2.93.0 Ha S.F.No. 135/1A, 136/1A, and 136/2, of Naganur Village, Kullithalai Taluk, Karur District, Tamil Nadu by Thiru.M. Gandhi - For Terms of Reference under violation category. (SIA/TN/MIN/435461/2023, 30.06.2023)**

The proposal was placed in this 407<sup>th</sup> meeting of SEAC held on 07.09.2023. The Project Proponent made a detailed presentation on the proposed project. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru. M. Gandhi has applied seeking Terms of Reference under violation category for EIA study for the Existing Black Granite over an extent of 2.93.0 Ha S.F.No. 135/1A, 136/1A, and 136/2, of Naganur Village, Kullithalai Taluk, Karur 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 as amended.
3. MoEF&CC O.M. F.No.IA3-22/11/2023-IA.III(E-208230) dated 28.04.2023

The SEAC further noted that the quarry is still under operation without re-appraisal by

  
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SEAC contravening the MoEF&CC O.M dated 28.04.2023. Hence the SEAC decided to grant Terms of Reference (ToR) with Public Hearing under violation category subject to the following ToRs, in addition to (i) the standard terms of reference for EIA study shown in Annexure-I and (ii) the Standard ToR for non-coal mining projects and details issued by the MoEF&CC to be included in EIA/EMP Report. Further, this ToR granted will be legally subject to the outcome of the case W.P (MD).No. 11757 of 2021 of 2021 pending before Hon'ble Madurai Bench of the High Court of Madras.

1. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which shall stipulate the following information:
  - i. Original pit dimension of the existing quarry
  - ii. Quantity achieved Vs EC Approved Quantity
  - iii. Balance Quantity as per Mineable Reserve calculated.
  - iv. Mined out Depth as on date Vs EC Permitted depth
  - v. Details of illegal/illicit mining carried out, if any
  - vi. Non-compliance/Violation in the quarry during the past working.
  - vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
  - viii. Existing condition of Safety zone/benches
  - ix. Details of any penalties levied on the PP for any violation in the quarry operation by the Department of Geology and Mining.
2. The PP shall furnish mitigation measures/remedial action plan for the non-compliance stated in the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC.
3. The study on impact of the proposed quarrying operations on the surrounding environment which includes water bodies, etc.
4. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.

  
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5. The Proponent shall furnish a comprehensive plan for green belt plantation and stacking the waste blockage of granite produced from the proposed quarrying operation to ensure sustainable environment.

**Agenda No: 407 – 07**

**File No: 10248/2023**

**Proposed Rough Stone quarry over an extent of 4.00.0 Ha of Patta land in S.F.Nos. 78/1B(P), of Kothapetta Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by Tmt. K.M.Vijaya - For Terms of Reference. (SIA/TN/MIN/430521/2023, 24.06.2023)**

The proposal was placed in this 407<sup>th</sup> meeting of SEAC held on 07.09.2023. The Project Proponent made a detailed presentation on the proposed project. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Tmt. K.M.Vijaya has applied seeking Terms of Reference for EIA study for the Proposed Rough Stone quarry over an extent of 4.00.0 Ha of Patta land in S.F.Nos. 78/1B(P), of Kothapetta Village, Krishnagiri 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 as amended.

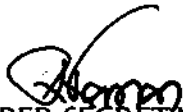
Based on the details furnished by the Project Proponent, the SEAC directed the PP to submit the details of last date of mining carried out at the project site validated by the concerned AD (Mines), Department of Geology & Mining. On receipt of the details sought the SEAC will deliberate further and decide on future course of action.

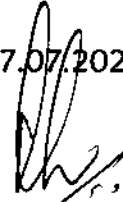
**Agenda No: 407 - 08**

**(File No: 10193/2023)**

**Proposed Rough Stone quarry over an extent of 5.00.0 Ha of Government land in S.F.Nos. 679/2 (Part-3), of Thorapalli Agraharam Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by M/s. Thirveni Earthmovers Private Limited - For Terms of Reference. (SIA/TN/MIN/435200/2023, 30.06.2023)**

The proposal was earlier placed in the 395<sup>th</sup> meeting of SEAC held on 27.07.2023. The

  
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Project Proponent made a detailed presentation on the proposed project. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Thirveni Earthmovers Pvt. Ltd., has applied for Terms of Reference for the proposed Rough Stone quarry over an extent of 5.00.0 Ha of Government land in S.F.Nos. 679/2 (Part-3) of Thorapalli Agraharam Village, Hosur 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 as amended.
3. Earlier the proposal was placed in the 395<sup>th</sup> Meeting of SEAC held on 27.07.2023. Based on the presentation and details furnished by the project proponent, SEAC decided to call for the following additional details from the PP:
  - The PP shall furnish the copy of change in land use classification from Kadu Porampoke to Kallankuthu Porampok in accordance with the existing law.

Hence, the proponent is advised to submit the additional documents/information as sought above within a period of 30 days failing which your proposal will automatically get delisted from the PARIVESH portal.

4. Subsequently, the proponent had filed a W.P.Nos. 22568 of 2023 with the prayer as follows

*"The writ petition filed under Article 226 of the Constitution of India, to issue a writ of Mandamus, directing the 4th respondent herein to process with the petitioner's online application dated 04.07.2023, acknowledged vide Letter No. SEIAA-TN/F.No.10193/2023, dated 08.07.2023, seeking for prior environment clearance for quarrying rough stone in an area of 5.00.0 Ha, situate at Thorapalli Agraharam Village, Hosur Taluk, Krishnagiri District, comprised in S.F.No.679/2 (Part-3), without insisting any 'No Objection Certificate' or prior approval/permission under the Forest Conservation Act,*

  
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1980 and further directing the 4th respondent to issue such environmental clearance.”

5. Subsequently, a common judgement had been issued vide order dated 03.08.2023 which inter alia states as follows

“...6. Now, this Court approves the schedule provided by the 4th respondent for completing its assessment process.”

Now, the proposal was again placed in the 407<sup>th</sup> SEAC meeting held on 07.09.2023. Based on the presentation and documents furnished by the proponent, committee noted the following

I. Chronology of Events

1. The Principal Secretary to the Government, Environment and Forest Department, Tamil Nadu had initially issued a draft notification dated 23.02.1987, vide G.O.Ms.No.165 under section 4 of Tamil Nadu Forest Act, 1882, by which issued a proposal to declare the below mentioned lands situated in Thorapalli Agraharam Village as reserved forest: -

S.No.	Survey No.	Extent in Hectares
1.	679/2	46.54.0
2.	680/2	82.96.5
3.	691	55.09.5
4.	722	48.25.5
5.	727	2.58.0
Total		235.43.5


2. Subsequently, The Principal Secretary to the Government, Environment and Forest Department, Tamil Nadu had issued gazette publication dated 22.07.1987, in the Dharmapuri District Gazette publishing the aforesaid draft notification dated 23.02.1987. In the above said notification, the

  
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proposed mining site area comprised in S. No. 697/2 was part of the issued Gazette notification dated 22.07.1987.

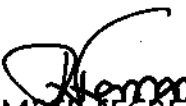
3. Subsequently, the Forest Settlement Officer, Krishnagiri, passed four separate orders all dated 17.01.1997 on the petition submitted by the individual land owners, excluding the total extent of 2.58.0 Hectare of the aforesaid land comprised in S.No.727.
4. On 05.10.2006, the villagers of Thorapalli Agraharam had submitted their representation to exclude the land comprised in S.Nos.679/2 & 680/2. Based on the representation of the villagers, the District Forest Officer had sent his letter dated 22.11.2006 to the District Collector, Krishnagiri, recommending the aforesaid land comprised in S.Nos.679/2 & 680/2 to change as gracing purpose as the same is not to be declared as reserved forest. On receipt of the aforesaid order of DFO, after completing site inspection and enquiry, the Forest Settlement Officer, Krishnagiri, had passed his order dated 29.12.2006, excluding the aforesaid lands comprised in S.Nos.679/2 & 680/2.
5. Subsequently, M/s. Thriveni Earth Movers Pvt. Ltd. had been granted a quarry lease for rough stone over an extent of 5.00.0 hectares in Government land SF.No.679/2 (Part 3) of Thorapalli Agraharam village of Hosur Taluk, Krishnagiri District under Tender Cum Auction System vide in the District Collector Krishnagiri Proceedings Roc. No.77/2008/Mines-2 dated 29.03.2008 for a period of 10 years.
6. The lease deed had been executed on 29.05.2008 and the lease period is 10 years from 29.06.2008 to 28.05.2018
7. Subsequently, due to the objection of the forest department, after issuing show cause notice and after conducting personal hearing and taken into consideration of the statement and records with the provisions of the rules the quarry lease granted in favour of M/s. Thriveni Earth Movers Pvt. Ltd. was cancelled and it is ordered that the various fees remitted by the lessee to Government for obtaining the lease shall be proportionately returned to the

  
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applicant after obtaining suitable orders from the Government vide District Collector, Krishnagiri Proceedings in Roc. NO.403/2009/Mines- 2 dated 13.09.2010.

8. Aggrieved by the order, the Company had preferred first appeal before the Director of Geology and Mining, Chennai-32 and the same had been dismissed vide Proceedings Roc No 10737/MM9/2011 dated 27.04.2012. The Company had again filed a second appeal before the Government.
9. Subsequently, the classification of the lands in S.F.No.679/2 over an extent of 115 acre and 680/2 over an extent of 205 acres of Thorapalli Agraharam village of Hosur Taluk Krishnagiri district had been changed from "Kadu" poramboke to "Kallankuthu.
10. In the G.O.(D) No 143 Ind. (MMCI) Department dated 28.07.2017, the second appeal petition filed by M/s. Thriveni Earth Movers Pvt. Ltd., had been allowed due to the reclassification of the land and the District Collector Krishnagiri had been directed to restore the lease granted to the appellant for quarrying Rough stone over an extent of 5.00.0 ha. in Government land "Kadu" poramboke presently classified as "Kallankuthu" poramboke in S.F.No.679/2 (Part-3) of Thorapalli Agraharam Village of Hosur Taluk Krishnagiri district.
11. In view of the above precise area over an extent of 5.00.0 hecst in Government land SF No.679/2 (Part-3) of Thorapalli Agraharam Village of Hosur Taluk of Krishnagiri District is communicated to M/s. Thriveni Earth Movers Pvt. Ltd., Salem, for the proposed permission for Rough Stone Quarrying for a period of 8 years 10 Months 22 Days to compensate the loss of lease period due to forest objection and they are directed to submit the Approved Mining Plan, Approved by The Deputy Director of Geology and Mining, Krishnagiri. Environment Clearance and consent of the Tamil Nadu Pollution Board within the prescribed time limit.
12. The mining plan was approved by the Deputy Director of Geology and mining Krishnagiri vide ROC.No.404/2009/Mines-1 dated:02.05.2023

  
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stating that

"...It is informed that by considering the above facts, the mining plan approved on 06.04.2018 by the Deputy Director of Geology and mining, Krishnagiri for a period of 05 years will come into effect from the date of execution of lease deed which will be carried out only after the issuance of Environmental Clearance".


**II. Forest Conservation Act, 1980 under para 2**

**2. Restriction on the de-reservation of forests or use of forest land for non-forest purpose.**

Notwithstanding anything contained in any other law for the time being in force in a State, no State Government or other authority shall make, except with the prior approval of the Central Government, any order directing –

- (i) that any reserved forest (within the meaning of the expression "reserved forest" in any law for the time being in force in that State) or any portion thereof, shall cease to be reserved:
- (ii) that any forest land or any portion thereof may be used for any non-forest purpose.
- (iii) that any forest land or any portion thereof may be assigned by way of lease or otherwise to any private person or to any authority, corporation, agency or any other organization not owned, managed or controlled by Government;
- (iv) that any forest land or any portion thereof may be cleared of trees which have grown naturally in that land or portion, for the purpose of using it for reafforestation.

In the view of the above facts and documents furnished by the proponent, SEAC recommended grant of Terms of Reference (TOR) with Public Hearing as per Annexure I of this minute, subject to the following 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:

  
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1. With reference to the notes above, the CLA's proceedings submitted by the PP has not thrown the required light on the subject. It is seen from the proceedings that the Thorapalli Agraharam Village was a 'inam' village and, in the settlement, the SF. No. in question was classified as government Poramboke kaadu. Subsequently, Government, the Principal Commissioner, Land Survey in his Proceedings in Na. Ka. (I.1)/2989/2016, dated 08.06.2016 had reclassified the subject lands comprised in S.F.No.679/2 from Kadu Poramboke to Kallankuthu Poramboke. In this context according to the para 2 of Forest (Conservation) Act,1980, any land classified as forest in any of the government records cannot be reclassified and used for non-forest purposes without the prior approval of Government of India. The CLA's proceedings changing the classification from 'kadu' should have been changed only with the prior approval of Gol as per the Forest Act. The information on the same, however, is not available in the proceedings. So, in this case the PP shall submit clarification from the CLA that proper procedures were followed in changing the classification of the land in question.
2. The study shall include impact of the proposed mining on the Water falls and River Ponnaiyar flowing at a distance of 200m from the mine lease area and the proposed control/mitigation measures.
3. The Proponent shall justify the selection of the site for carrying out the stone quarrying with the total volume arrived for the excavation & production adequate details such as lithology of the deposit, reserve estimation, place for waste dump/mined mineral storage, end-use of mined materials, identified potential customers/end-users and travel path.
4. The proponent shall revise the mining plan indicating the bench height of 6 m with width of not less than bench height, as per Reg. 106 2(a) of Metalliferous Mines Regulations, 1961.

In the context of 1 above, SEIAA may also get a clarification from the Forest Department, whether the prescribed procedures were followed for changing the classification of the land in question.

  
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Agenda No: 407 - 09

(File No: 10242/2023)

Proposed Multi Colour Granite quarry lease over an extent of 1.43.5 Ha at SF.Nos.571/1, 571/2 & 571/3 of Pilathu Village, Vedasandur Taluk, Dindigul District Tamil Nadu by M/s. RRP Groups and Exports - For Terms of Reference. (SIA/TN/MIN/431210/2023, Dated: 28.05.2023)


The proposal was placed for appraisal in this 407<sup>th</sup> SEAC meeting held on 07.09.2023. 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. RRP Groups and Exports has applied for Terms of Reference for the Proposed Multi Colour Granite quarry lease over an extent of 1.43.5 Ha at SF.Nos.571/1, 571/2 & 571/3 of Pilathu Village, Vedasandur Taluk, Dindigul District, Tamil Nadu.
2. The project/activity is covered under Schedule 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Kadavur Slender loris wildlife sanctuary is at 5Km (appx.) from the proposed site.

Now, the proposal was placed in the 407<sup>th</sup> SEAC meeting held on 07.09.2023. Based on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs as per the Annexure I of this minute, 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 proposed site attracts the provisions contained in para 5 of MoEF&CC OM vide FC-11/119/2020-FC Dated 17.05.2022 issued regarding Clarification on Requirement of Various Environmental and Forest Clearances for Project/Activity in Eco-Sensitive Zone and Other Such Areas outside Protected Area. Hence, the proponent shall obtain Clearance from National Board for Wildlife (NBWL) and submit the same along with EIA Report.
2. The proponent is requested to submit the valid registered lease document during

  
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the EIA appraisal after the previous lease granted for the mining operations is legally surrendered (or) lapsed with the consent of the competent authority.

3. The Project Proponent shall furnish the detailed compliance to the EC conditions as stipulated in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Integrated Regional Office, Chennai.
4. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m 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 with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.

Agenda No: 407 - 10

(File No: 10256/2023)


Proposed Rough Stone & quarry lease over an extent of 2.15.0 Ha at SF.Nos.44/4, 8, 9A, 9C, 3, 6A, 12, 6B, 7, 11 & 41/3 of Killukulavaipatti Village, Kulathur Taluk, Pudukottai District, Tamil Nadu by Thiru. N.Meda Ramesh - For Terms of Reference. (SIA/TN/MIN/436432/2023, Dated: 13.07.2023)

The proposal was placed for appraisal in this 407<sup>th</sup> SEAC meeting held on 07.09.2023. 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. N.Meda Ramesh has applied for Terms of Reference for the Proposed Rough Stone & quarry lease over an extent of 2.15.0 Ha at SF.Nos.44/4, 8, 9A, 9C, 3, 6A, 12, 6B, 7, 11 & 41/3 of Killukulavaipatti Village, Kulathur Taluk, Pudukottai District, Tamil Nadu.
2. The project/activity is covered under Schedule 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Now, the proposal was placed in the 407<sup>th</sup> SEAC meeting held on 07.09.2023. During the meeting the EIA coordinator informed that the project proponent was absent for

  
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the meeting. Hence the subject was not taken up for appraisal and committee decided that the project proponent shall furnish the reason for his absence.

**Agenda No: 407 - 11**

**(File No: 10263/2023)**

**Existing Limestone quarry lease over an extent of 240.61.0 Ha at SF. Nos. 6/1, 2, 7/1, 3 etc., of Kallankurichi, Khairulabad & Ameenabad Villages, Ariyalur Taluk, Ariyalur District, Tamil Nadu by M/s. Tamil Nadu Cements Corporation Limited - For Environmental clearance. (SIA/TN/MIN/416471/2023, Dated: 31.01.2023)**

The proposal was placed for appraisal in this 407<sup>th</sup> SEAC meeting held on 07.09.2023. 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. Tamil Nadu Cements Corporation Limited has applied for Environmental clearance for the Existing Limestone quarry lease over an extent of 240.61.0 Ha at SF. Nos. 6/1, 2, 7/1, 3 etc., of Kallankurichi, Khairulabad & Ameenabad Villages, Ariyalur Taluk, Ariyalur District, Tamil Nadu.
2. The project/activity is covered under Schedule 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Now, the proposal was placed in the 407<sup>th</sup> SEAC meeting held on 07.09.2023. Based on the presentation and documents furnished by the proponent, SEAC noted the following.

1. The proponent had earlier obtained Terms of Reference under violation category from MoEF&CC vide F.No.23-19/2019-IA.III(V) dated 14.05.2020.
2. Public Hearing was conducted on 05.05.2022.
3. Subsequently, the proponent had submitted the Final EIA report to MoEF&CC vide online proposal number IA/TN/MIN/407947/2022 dated: 25.11.2022.
4. Subsequently, the proponent had applied for fresh Terms of Reference in SEIAA Portal vide online number SIA/TN/MIN/416436/2023 Dated: 31.01.2023.
5. Further, the proponent had applied for Environmental Clearance for the earlier

  
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issued Terms of reference under violation category in SEIAA Portal vide online number SIA/TN/MIN/416471/2023 dated: 31.01.2023.

6. Further, there is one more duplicate proposal in Parivesh portal vide online number SIA/TN/MIN/27504/2018 dated: 19.06.2017.
7. The proponent had obtained letter from MoEF&CC vide F. No. 23-19/2019-IA.III dated: 06.09.2023 regarding the transfer of proposal from MoEF&CC to SEIAA.

Based on the above facts, SEAC decided to obtain the following additional particulars from the proponent:

1. The proponent shall withdraw the duplicate files as mentioned below and authority shall accept the withdrawal request and SEIAA may accordingly take necessary action in accordance with the procedures laid by the MoEF & CC
  - (i) online number SIA/TN/MIN/27504/2018 dated: 19.06.2017.
  - (ii) online number SIA/TN/MIN/416436/2023 Dated: 31.01.2023.
2. The proponent shall revise EMP incorporating the conservation measures for Peafowl.
3. To revise the ecological damage assessment as per CPCB Guidelines.


Meanwhile, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation.

After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category. SEAC also decided to direct SEIAA-TN to initiate action to be taken for violation cases in accordance with law.

**Agenda No: 407 - 12**

**(File No: 10188/2023)**

**Proposed Rough Stone quarry lease area over an extent of Extent 5.00.0 Ha at S.F. No. 679/2 (Part-4) of Thorapalli Agraharam Village, Hosur Taluk, Krishnagiri District, Tamil**

  
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Nadu by M/s. Thriveni Earth Movers Private Limited - For Environmental clearance.  
(SIA/TN/MIN/435645/2023, Dated: 05.07.2023)

The proposal was placed for appraisal in this 407<sup>th</sup> SEAC meeting held on 07.09.2023. 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. Thriveni Earth Movers Private Limited has applied for Terms of Reference for the Proposed Rough Stone quarry lease area over an extent of Extent 5.00.0 Ha at S.F. No. 679/2 (Part-4) of Thorapalli Agraharam Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Schedule 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 10 years. The mining plan is for 10 years & production should not exceed 9,63,404m<sup>3</sup> of Rough Stone. The annual peak production 2,03,771m<sup>3</sup> of Rough Stone. The ultimate depth of mining is 64.4m (34.4m AGL + 30m BGL).
4. Earlier the proposal was placed in the 395<sup>th</sup> Meeting of SEAC held on 27.07.2023. Based on the presentation and details furnished by the project proponent, SEAC decided to call for the following additional details from the PP:
  - The PP shall furnish the copy of change in land use classification from Kadu Porampoke to Kallankuthu Porampok in accordance with the existing law.

Hence, the proponent is advised to submit the additional documents/information as sought above within a period of 30 days failing which your proposal will automatically get delisted from the PARIVESH portal.

5. Subsequently, the proponent had filed a W.P.No. 22569 of 2023 with the prayer as follows

*"The writ petition filed under Article 226 of the Constitution of India, to issue a writ of Mandamus, directing the 4th respondent herein to process with the*

  
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*petitioner's online application dated 05.07.2023, acknowledged vide Letter No. SEIAA-TN/F.No.10188/2023, dated 08.07.2023, seeking for prior environment clearance for quarrying rough stone in an area of 5.00.0 Ha. situate at Thorapalli Agraharam Village, Hosur Taluk, Krishnagiri District, comprised in S.F.No.679/2 (Part-4), without insisting any 'No Objection Certificate' or prior approval/permission under the Forest Conservation Act, 1980 and further directing the 4th respondent to issue such environmental clearance."*

6. Subsequently, a common judgement had been issued vide order dated 03.08.2023 which inter alia states as follows

*"...6. Now, this Court approves the schedule provided by the 4th respondent for completing its assessment process."*

Now, the proposal was again placed in the 407<sup>th</sup> SEAC meeting held on 07.09.2023. Based on the presentation and documents furnished by the proponent, committee noted the following

**1. Chronology of Events**

1. The Principal Secretary to the Government, Environment and Forest Department, Tamil Nadu had initially issued a draft notification dated 23.02.1987, vide G.O.Ms.No.165 under section 4 of Tamil Nadu Forest Act, 1882, by which issued a proposal to declare the below mentioned lands situated in Thorapalli Agraharam Village as reserved forest: -

S.No.	Survey No.	Extent in Hectares
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3.	691	55.09.5
4.	722	48.25.5
5.	727	2.58.0
Total		235.43.5


2. Subsequently, The Principal Secretary to the Government, Environment and Forest Department, Tamil Nadu had issued gazette publication dated

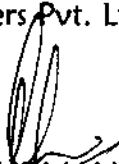
  
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22.07.1987, in the Dharmapuri District Gazette publishing the aforesaid draft notification dated 23.02.1987. In the above said notification, the proposed mining site area comprised in S. No. 697/2 was part of the issued Gazette notification dated 22.07.1987.

3. Subsequently, the Forest Settlement Officer, Krishnagiri, passed four separate orders all dated 17.01.1997 on the petition submitted by the individual land-owners, excluding the total extent of 2.58.0 Hectare of the aforesaid land comprised in S.No.727.
4. On 05.10.2006, the villagers of Thorapalli Agraharam had submitted their representation to exclude the land comprised in S.Nos.679/2 & 680/2. Based on the representation of the villagers, the District Forest Officer had sent his letter dated 22.11.2006 to the District Collector, Krishnagiri, recommending the aforesaid land comprised in S.Nos.679/2 & 680/2 to change as gracing purpose as the same is not to be declared as reserved forest. On receipt of the aforesaid order of DFO, after completing site inspection and enquiry, the Forest Settlement Officer, Krishnagiri, had passed his order dated 29.12.2006, excluding the aforesaid lands comprised in S.Nos.679/2 & 680/2.
5. Subsequently, M/s Thriveni Earth Movers Pvt. Ltd, had been granted a quarry lease for rough stone over an extent of 5.00.0 hectares in Government land S.F. No679/2 (Part-4) of Thorapalli Agraharam village of Hosur Taluk, Krishnagiri District under Tender Cum Auction System vide in the District Collector Krishnagiri Proceedings Roc. No.78/2008/Mines-2 dated 29.03.2008 for period of 10 years.
6. The lease deed had been executed on 29.05.2008 and the lease period is 10 years from 29.05.2008 to 28.05.2018.
7. Subsequently, due to the objection of the forest department, after issuing show cause notice and after conducting personal hearing and taken into consideration of the statement and records with the provisions of the rules the quarry lease granted in favour M/s Thriveni Earth Movers Pvt. Ltd, was

  
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cancelled and it is ordered that the various fees remitted by the lessee to Government for obtaining the lease shall be proportionately returned to the applicant after obtaining suitable orders from the Government vide District Collector. Krishnagiri Proceedings in Roc.NO.403/2009/Mines-2 dated 13.09.2010.

8. Aggrieved by the order, the company had preferred first appeal before the Director of Geology and Mining, Chennai and the same was dismissed vide Proceedings Roc. No.10737/MM9/2010 dated 27.04.2012. The company has again filed second appeal before the Government.
9. Subsequently, the classification of the lands in S.F.No.679/2 over an extent of 115 acre and 680/2 over an extent of 205 acres of Thorapalli Agraharam village of Hosur Taluk Krishnagiri district had been changed from "Kadu" poramboke to "Kallankuthu".
10. In the G.O.(D) No.223 Ind. (MMCI) Department dated: 28.12.2017 filed the appeal petition filed by M/s Thriveni Earth Movers Pvt. Ltd., Salem, had been due to the reclassification of the land and the District Collector Krishnagiri had been directed to restore the lease granted to the appellant for quarrying rough stone over an extent of 5.00.0 hecets. In Government land "Kadu" poramboke presently classified as "Kallankuthu" poramboke in S.F.No. 679/2 (Part-4) of Thorapalli Agraharam village of Hosur Taluk Krishnagiri District.
11. In view of the above precise area over an extent of 5.00.0 ha in Government land SF.No.679/2 (Part-4) of Thorapalli Agraharam Village of Hosur Taluk of Krishnagiri District is communicated to M/s Thriveni Earth Movers Pvt. Ltd for the proposed permission for Rough Stone Quarrying for a period of 8 years 10 Months 23 Days to compensate the loss of lease period due to forest objection and he is directed to submit the Approved Mining Plan. Approved by The Deputy Director of Geology and Mining, Krishnagiri. Environment Clearance and consent of the Tamil Nādu Pollution Control Board within the prescribed time limit.

  
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12. A small portion of the area is worked in the southern portion of the lease (110m x 77 m x 7 m) for a total volume of 59290Cu.m which includes usable rock, weathered waste rock, top soil etc.,
13. The mining plan was approved by the Deputy Director of Geology and mining Krishnagiri vide ROC.No.403/2009/Mines-1 dated:02.05.2023 stating that
- “...It is informed that by considering the above facts, the mining plan approved on 06.04.2018 by the Deputy Director of Geology and mining, Krishnagiri for a period of 05 years will come into effect from the date of execution of lease deed which will be carried out only after the issuance of Environmental Clearance”.

**II. Forest Conservation Act, 1980 under para 2**

**2. Restriction on the de-reservation of forests or use of forest land for non-forest purpose.**

Notwithstanding anything contained in any other law for the time being in force in a State, no State Government or other authority shall make, except with the prior approval of the Central Government, any order directing –

- (i) that any reserved forest (within the meaning of the expression “reserved forest” in any law for the time being in force in that State) or any portion thereof, shall cease to be reserved;
- (ii) that any forest land or any portion thereof may be used for any non-forest purpose.
- (iii) that any forest land or any portion thereof may be assigned by way of lease or otherwise to any private person or to any authority, corporation, agency or any other organization not owned, managed or controlled by Government;
- (iv) that any forest land or any portion thereof may be cleared of trees which have grown naturally in that land or portion, for the purpose of using it for reforestation.

In the view of the above facts and documents furnished by the proponent, SEAC


  
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recommended grant of Terms of Reference (TOR) with Public Hearing as per Annexure I of this minute, subject to the following 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. With reference to the notes above, the CLA's proceedings submitted by the PP has not thrown the required light on the subject. It is seen from the proceedings that the Thorapalli Agraharam Village was a 'inam' village and, in the settlement, the SF. No. in question was classified as government Poramboke kaadu. Subsequently, Government, the Principal Commissioner, Land Survey in his Proceedings in Na. Ka. (I.I)/2989/2016, dated 08.06.2016 had reclassified the subject lands comprised in S.F.No.679/2 from Kadu Poramboke to Kallankuthu Poramboke. In this context according to the para 2 of Forest (Conservation) Act,1980, any land classified as forest in any of the government records cannot be reclassified and used for non-forest purposes without the prior approval of Government of India. The CLA's proceedings changing the classification from 'kadu' should have been changed only with the prior approval of Gol as per the Forest Act. The information on the same, however, is not available in the proceedings. So, in this case the PP shall submit clarification from the CLA that proper procedures were followed in changing the classification of the land in question.
2. The study shall include impact of the proposed mining on the Water falls and River Ponnaiyar flowing at a distance of 200m from the mine lease area and the proposed control/mitigation measures.
3. The Proponent shall justify the selection of the site for carrying out the stone quarrying with the total volume arrived for the excavation & production adequate details such as lithology of the deposit, reserve estimation, place for waste dump/mined mineral storage, end-use of mined materials, identified potential customers/end-users and travel path.

  
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4. The proponent shall revise the mining plan indicating the bench height of 6 m with width of not less than bench height, as per Reg. 106 2(a) of Metalliferous Mines Regulations, 1961.

In the context of 1 above, SEIAA may also get a clarification from the Forest Department, whether the prescribed procedures were followed for changing the classification of the land in question.

**Agenda No: 407-13**

**(File No.10213/2023)**

**Existing Multi Colour Granite Quarry lease over an Extent of 2.86.5 Ha of S.F.Nos. 482 of Nadanthai Village, Paramathivelur Taluk, Namakkal District, Tamil Nadu by Thiru. V. Punitha – For Terms of Reference. (SIA/TN/MIN/430138/2023 dated.21.05.2023)**

The proposal was placed in the 407<sup>th</sup> meeting of SEAC held on 07.09.2023. 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. V. Punitha has applied for Terms of Reference for Existing Multi Colour Granite Quarry lease over an Extent of 2.86.5 Ha of S.F.Nos. 482 of Nadanthai Village, Paramathivelur Taluk, Namakkal 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 accorded to the project proponent by DEIAA vide Lr.No.DEIAA-NMK-TN/F.No.259/Mines/02/ EC No. 2/2017 dated. 24.11.2017 for a period of 5 years from the date of execution of mining lease. EC was accorded for the quantity of 30,025m<sup>3</sup> of multi-colour granite up to a depth of 18m.
4. The proponent has submitted a Certified Compliance Report obtained from IRO of MoEF&CC vide E.P./12.1/2022-23/SEIAA/155/TN/1200 dated.15.11.2022 for the EC obtained earlier.
5. Now, based on MoEF&CC O.M dated.24.04.2023, the proponent has submitted the application at SEIAA-TN for re-appraisal of EC granted by DEIAA.
6. Further, from the letter of Assistant Director, Department of Geology & Mining dated.31.08.2023, the details of the transport permit issued to the proponent are

  
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ascertained as follows:

Year	Quantity (cu.m)
2018-2019	1575.177
2019-2020	3195.196
2020-2021	2722.702
2021-2022	3592.921
2022-2023	2801.111
Total	13887.107

Based on the details furnished by the Project Proponent, the SEAC directed the PP to submit the details of last date of mining carried out at the project site validated by the concerned AD (Mines), Department of Geology & Mining. On receipt of the details sought the SEAC will deliberate further and decide on future course of action.

**Agenda No: 407-14**


**(File No.10219/2023)**

**Existing Rough Stone Quarry lease over an extent of 4.00.0 Ha (Government Poramboke land) at S.F.Nos.637 (Part-1) of Thuppuganapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. K.P. Anand – For Terms of Reference. (SIA/TN/MIN/430543/2023 dated.24.05.2023)**

The proposal was placed in the 407<sup>th</sup> meeting of SEAC held on 07.09.2023. 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. K.P. Anand has applied for Terms of Reference for the Existing Rough Stone Quarry lease over an extent of 4.00.0 Ha (Government Poramboke land) at S.F.Nos.637 (Part-1) of Thuppuganapalli Village, Shoolagiri 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 accorded to the project proponent by DEIAA vide Lr.No.03/DEIAA-KGI/EC No.55/2018 dated. 27.08.2018 for a period of 5 years from the

  
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date of execution of mining lease. EC was accorded for the quantity of 14,02,233m<sup>3</sup> of rough stone up to a depth of 57m.


4. Now, based on MoEF&CC O.M dated.24.04.2023, the proponent has submitted the application at SEIAA-TN for re-appraisal of EC granted by DEIAA.
5. Further, PP claims that he has not carried out any mining operations after obtaining EC from DEIAA, Krishnagiri.

Based on the presentation made by the proponent, SEAC decided to recommend the proposal for Terms of Reference (TOR) with Public Hearing subject to the following additional TORs & ToRs in Annexure of this minutes, 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 proponent shall give an Affidavit before the issuance of ToR from SEIAA-TN stating that the mining operations will remain suspended from the date of publication of MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023 till they obtain the EC granted by the SEIAA after the reappraisal process for carrying out remedial actions subsequently.
2. The proponent shall submit a letter obtained from DFO, Krishnagiri District stating the exact distance details of Cauvery North & Cauvery South Wildlife Sanctuary from the proposed project site.
3. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.
4. The PP shall submit a 'Conceptual Mining Plan' indicating the accessible ramp leading from the top of the hillock (above ground level) to the pit bottom (below ground level) maintaining the benches intact with the geometry of 5m bench height and width not less than height as indicated in the AMP.

Agenda No: 407-15

(File No.10236/2023)

  
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Existing Rough Stone Quarry lease over an extent of 1.51.5 Ha (Government Poromboke land) in S.F.Nos. 285/3, 288/1 & 449/3 of Nattarmangalam & Chettikulam Village, Alathur Taluk, Perambalur District, Tamil Nadu by Thiru. P.A. Paranthaman – For Terms of Reference. (SIA/TN/MIN/437286/2023 dt.19.07.2023)

The proposal was placed in the 407<sup>th</sup> meeting of SEAC held on 07.09.2023. 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. P.A. Paranthaman has applied for Terms of Reference for the Existing Rough Stone Quarry lease over an extent of 1.51.5 Ha (Government Poromboke land) in S.F.Nos. 285/3, 288/1 & 449/3 of Nattarmangalam & Chettikulam Village, Alathur Taluk, Perambalur 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 accorded to the project proponent by DEIAA vide Lr.No. DEIAA-PBLR/F.No.222/4(g)/EC No.7/2018 dated.28.03.2018 for a period of 5 years from the date of execution of mining lease. EC was accorded for the quantity of 2,62,390m<sup>3</sup> of rough stone up to a depth of 42m.
4. Now, based on MoEF&CC O.M dated.24.04.2023, the proponent has submitted the application at SEIAA-TN for re-appraisal of EC granted by DEIAA.

During the presentation, the proponent stated that he would like to withdraw the proposal. Hence, the SEAC decided that SEIAA may accordingly take necessary action in accordance with the procedures as laid in the law.

Agenda No: 407-16

(File No.10243/2023)

Proposed Black Granite Quarry lease over an Extent 1.02.0 Ha (Government Poramboke land) at S.F.Nos. 362/1 (Part) (Bit-1) of Guttur Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Thiru. M. Kowshik Dhev – For Terms of Reference. (SIA/TN/MIN/436909/2023 dt.16.07.2023)

The proposal was placed in the 407<sup>th</sup> meeting of SEAC held on 07.09.2023. The details

  
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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. M. Kowshik Dhev has applied for Terms of Reference for the Proposed Black Granite Quarry lease over an Extent 1.02.0 Ha (Government Poramboke land) at S.F.Nos. 362/1 (Part) (Bit-1) of Guttur 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. The lease period is 20 years. Total RoM for 5 years should not exceed 8250m<sup>3</sup> which includes 825m<sup>3</sup> of granite @ 10% recovery & 7425m<sup>3</sup> of granite waste. The mine plan for 5 years also includes weathered rock of 4588m<sup>3</sup> & top soil of 2432m<sup>3</sup>.

Based on the presentation made by the proponent, SEAC decided to recommend the proposal for Terms of Reference (TOR) with Public Hearing subject to the following additional TORs & ToRs in Annexure of this minutes, 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 proponent shall perform a detailed study on flora and fauna of the proposed project site from the Departments of Botany & Zoology, Government Arts college for Men, Krishnagiri District.
2. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.
3. The PP shall enumerate the vegetation and trees existing in the proposed quarry site and propose proper remedial action plan for conserving the same.

**Agenda No: 407 - 17**

**(File No: 10214/2023)**

  
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Proposed Colour Granite Quarry over an extent of 1.87.0Ha at SF.No.366 (Part) of Jagadevipalayam Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Tmt. M. Sadhana - For Terms of Reference. (SIA/TN/MIN/435951/2023, Dated: 08.07.2023)


The proposal was placed in the 407<sup>th</sup> SEAC Meeting held on 07.09.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).


The SEAC noted the following:

1. The Project Proponent, Tmt.M.Sadhana has applied for Terms of Reference for the Proposed Colour Granite Quarry over an extent of 1.87.0Ha at SF.No. 366 (Part) of Jagadevipalayam Village, Bargur Taluk, Krishnagiri District,Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is for 20 years. The mining plan is for the period of Five years & the production should not exceed 1,07,744m<sup>3</sup> of ROM, 14,031m<sup>3</sup> of Colour Granite @ 20% Recovery, 56,123m<sup>3</sup> of Granite Waste @ 80% , 1560m<sup>3</sup> of Topsoil & 36.030m<sup>3</sup> of Weathered Rock with an ultimate depth of mining is 30m (15m AGL + 15m BGL) The annual peak production is 34,840m<sup>3</sup> of ROM (2<sup>nd</sup> Year) , 3119m<sup>3</sup> Colour Granite @ 20% Recovery (1<sup>st</sup> Year) , 12,475m<sup>3</sup> of Granite Waste @ 80% (1<sup>st</sup> Year), 1560m<sup>3</sup> of Topsoil (2<sup>nd</sup> Year) & 19380m<sup>3</sup> of Weathered Rock (2<sup>nd</sup> year).

Based on the presentation made by the proponent, SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing, subject to the following 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 ownership details of all survey numbers in EIA report.
2. The PP shall submit the 'Action Plan' on the issues raised during the Public Hearing with budgetary provisions for the same.
3. The PP shall submit the action plan for the controlled blasting measures so as to reduce the impacts due to the blasting operation in the proposed quarries within 1 km of the proposed quarry.
4. The PP shall submit a 'Conceptual Mining Plan' indicating the accessible ramp

  
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from the surface to the pit bottom keeping the benches intact for the dimension as stipulated in the Approved Mining Plan.

5. The PP shall enumerate the structures located within 500 m radius of the proposed quarry with classifying the nature of buildings/structures & its age, number of occupants and their profession, distance of its existing location to the proposed quarry.

**Agenda No: 407 – 18**

**(File No: 10220/2023)**


**Proposed Rough stone Quarry over an extent of 4.50.0Ha at SF. No. 637(Part-II) of Thuppuganapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru K. P. Anand- For Terms of Reference. (SIA/TN/MIN/430604/2023, Dated:24.05.2023)**

The proposal was placed in the 407<sup>th</sup> SEAC Meeting held on 07.09.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru.K.P.Anand has applied for Terms of Reference for the Proposed Rough stone Quarry over an extent of 4.50.0Ha at SF.No. 637(Part-II) of Thuppuganapalli Village, Shoolagiri Taluk, Krishnagiri District,Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is for 5 years. The mining plan is for the period of Five years & the production should not exceed 6,03,365m<sup>3</sup> of rough stone & 22,440m<sup>3</sup> of Topsoil with an ultimate depth of mining is 49m BGL. The annual peak production is 1,22,820m<sup>3</sup> of rough stone (1<sup>st</sup> Year) & 22,440m<sup>3</sup> of Topsoil (1<sup>st</sup> Year).
4. Earlier, the PP has obtained Environmental Clearance from DEIAA vide Lr. No. 3/DEIAA-KGI/Ec.No.56/2018/Mines, Dt:27.08.2018.


Based on the presentation and details furnished by the project proponent, SEAC decided to grant Terms of Reference (TOR) with Public Hearing subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects

  
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and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The proponent shall give an Affidavit before the issuance of ToR from SEIAA-TN stating that the mining operations will remain suspended from the date of publication of MoEF & CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023 till they obtain the EC granted by the SEIAA after the reappraisal process for carrying out remedial actions subsequently.
2. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which shall stipulate the following information:
  - i. Original pit dimension of the existing quarry
  - ii. Quantity achieved Vs EC Approved Quantity
  - iii. Balance Quantity as per Mineable Reserve calculated.
  - iv. Mined out Depth as on date Vs EC Permitted depth
  - v. Details of illegal/illicit mining carried out, if any
  - vi. Non-compliance/Violation in the quarry during the past working.
  - vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
  - viii. Existing condition of Safety zone/benches
  - ix. Details of any penalties levied on the PP for any violation in the quarry operation
3. The PP shall furnish the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and the PP shall also furnish mitigation measures/action plan for the non-compliance stated in the Certified Compliance Report (CCR).
4. The project proponent shall furnish documentary evidence from the concerned District Forest Officer showing the distance between the nearest R.F and the proposed quarry site.
5. The PP shall provide the cost estimate for carrying out the mitigation measures after consulting the concerned DFO.
6. The PP shall furnish ownership details of all survey numbers in EIA report.
7. The PP shall submit the 'Action Plan' on the issues raised during the Public Hearing with budgetary provisions for the same.

  
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8. The PP shall submit the controlled blasting measures for reducing the impacts due to the blasting operation in the proposed quarries within 1 km of the proposed quarry.
9. The PP shall submit a 'Conceptual Mining Plan' indicating the accessible ramp from the surface to the pit bottom keeping the benches intact for the dimension as stipulated in the Approved Mining Plan.
10. The PP shall submit the nature of buildings/structures, occupants and their profession, etc located within 500 m radius of the proposed quarry.

Agenda No: 407 - 19

(File No: 10244/2023)

Proposed Rough stone Quarry over an extent of 4.00.0Ha at SF.No. 78/1A (P) & 78/1B (P) of Kothapetta Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. Sri Devaraajaa M Sand - For Terms of Reference. (SIA/TN/MIN/430407/2023, Dated:23.05.2023)

The proposal was placed in the 407<sup>th</sup> SEAC Meeting held on 07.09.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Sri Devaraajaa M Sand has applied for Terms of Reference for the Proposed Rough stone Quarry over an extent of 4.00.0Ha at SF.No. 78/1A (P) & 78/1B (P) of Kothapetta Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is for 5 years. The mining plan is for the period of five years & the production should not exceed 4.87,698m<sup>3</sup> of rough stone & 799m<sup>3</sup> of Gravel with an ultimate depth of mining is 41m (1m Gravel + 40m Rough stone). The annual peak production is 1,19,857m<sup>3</sup> of rough stone (1<sup>st</sup> Year) & 799m<sup>3</sup> of Gravel (1<sup>st</sup> Year).
4. Earlier, the PP has obtained Environmental Clearance from DEIAA vide Lr. No. 35/DEIAA-KGI/Ec.No.27/2018/Mines, Dt:27.02.2018.

  
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Based on the details furnished by the Project Proponent, the SEAC directed the PP to submit the details of last date of mining carried out at the project site validated by the concerned AD (Mines), Department of Geology & Mining. On receipt of the details sought the SEAC will deliberate further and decide on future course of action.

Agenda No: 407 - 20

(File No: 10190/2023)


Proposed Rough stone Quarry over an extent of 5.00Ha at SF.No. 679/2(P) of Thorapalli Agraharam Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by M/s. Navaladiyan Engineers - For Terms of Reference. (SIA/TN/MIN/435824/2023, Dated:06.07.2023)

Earlier the proposal was placed in the 395<sup>th</sup> SEAC Meeting held on 27.07.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Navaladiyan Engineers has applied for Terms of Reference for the Proposed Rough stone Quarry over an extent of 5.00Ha at SF.No. 679/2(P) of Thorapalli Agraharam Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is for 8 years. The mining plan is for the period of Five years & the production should not exceed 6.33.094m<sup>3</sup> of rough stone & 18.358m<sup>3</sup> of Topsoil with an ultimate depth of mining is 50m (32m AGL + 18m BGL). The annual peak production is 1.48.804m<sup>3</sup> of Rough stone (5<sup>th</sup> Year) & 10.058m<sup>3</sup> of Topsoil (3<sup>rd</sup> Year).
4. Earlier the proposal was placed in the 395<sup>th</sup> Meeting of SEAC held on 27.07.2023. Based on the presentation and details furnished by the project proponent, SEAC decided to call for the following additional details from the PP:

- The PP shall furnish the copy of change in land use classification from

  
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Kadu Porampoke to Kallankuthu Porampok in accordance with the existing law.

Hence, the proponent is advised to submit the additional documents/information as sought above within a period of 30 days failing which your proposal will automatically get delisted from the PARIVESH portal.

5. Subsequently, the proponent had filed a W.P.Nos. 22567 of 2023 with the prayer as follows

*"The writ petition filed under Article 226 of the Constitution of India, to issue a writ of Mandamus, directing the 4th respondent herein to process with the petitioner's online application dated 06.07.2023, acknowledged vide Letter No. SEIAA-TN/F.No.10190/2023, dated 08.07.2023, seeking for prior environment clearance for quarrying rough stone in an area of 5.00.0 Ha. situate at Thorapalli Agraharam Village, Hosur Taluk, Krishnagiri District, comprised in S.F.No.679/2 (Part-2), without insisting any 'No Objection Certificate' or prior approval/permission under the Forest Conservation Act, 1980 and further directing the 4th respondent to issue such environmental clearance."*

6. Subsequently, a common judgement had been issued vide order dated 03.08.2023 which inter alia states as follows

*"...6. Now, this Court approves the schedule provided by the 4th respondent for completing its assessment process."*

Now, the proposal was again placed in the 407<sup>th</sup> SEAC meeting held on 07.09.2023. Based on the presentation and documents furnished by the proponent, committee noted the following

**1. Chronology of Events**

1. The Principal Secretary to the Government, Environment and Forest Department, Tamil Nadu had initially issued a draft notification dated 23.02.1987, vide G.O.Ms.No.165 under section 4 of Tamil Nadu Forest Act, 1882, by which issued a proposal to declare the below mentioned lands situated in Thorapalli Agraharam Village as reserved forest: -

  
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S.No.	Survey No.	Extent in Hectares
6.	679/2	46.54.0
7.	680/2	82.96.5
8.	691	55.09.5
9.	722	48.25.5
10.	727	2.58.0
<b>Total</b>		<b>235.43.5</b>

2. Subsequently, The Principal Secretary to the Government, Environment and Forest Department, Tamil Nadu had issued gazette publication dated 22.07.1987, in the Dharmapuri District Gazette publishing the aforesaid draft notification dated 23.02.1987. In the above said notification, the proposed mining site area comprised in S. No. 697/2 was part of the issued Gazette notification dated 22.07.1987.
3. Subsequently, the Forest Settlement Officer, Krishnagiri, passed four separate orders all dated 17.01.1997 on the petition submitted by the individual land owners, excluding the total extent of 2.58.0 Hectare of the aforesaid land comprised in S.No.727.
4. On 05.10.2006, the villagers of Thorapalli Agraharam had submitted their representation to exclude the land comprised in S.Nos.679/2 & 680/2. Based on the representation of the villagers, the District Forest Officer had sent his letter dated 22.11.2006 to the District Collector, Krishnagiri, recommending the aforesaid land comprised in S.Nos.679/2 & 680/2 to change as grazing purpose as the same is not to be declared as reserved forest. On receipt of the aforesaid order of DFO, after completing site inspection and enquiry, the Forest Settlement Officer, Krishnagiri, had passed his order dated 29.12.2006, excluding the aforesaid lands comprised in S.Nos.679/2 & 680/2.

  
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5. Subsequently, M/s. Navaladiyan Engineers, Salem, had been granted a quarry lease for rough stone over an extent of 5.00.0 ha in Government land S.F.No.679/2 (Part 2) of Thorapalli Agraharam village of Hosur Taluk, Krishnagiri District under Tender Cum Auction System vide in the District Collector Krishnagiri Proceedings Roc.No.76/2008/Mines-2 dated 26.03.2008 for a period of 10 years.
6. The lease deed had been executed on 29.05.2008 and the lease period is 10 years from 29.05.2008 to 28.05.2018.
7. Subsequently, due to the objection of the forest department, after issuing show cause notice and after conducting personal hearing and taken into consideration of the statement and records with the provisions of the rules the quarry lease granted in favour of M/s. Navaladiyan Engineers, Salem, was cancelled and it is ordered that the various fees remitted by the lessee to Government for obtaining the lease shall be proportionately returned to the applicant after obtaining suitable orders from the Government vide District Collector, Krishnagiri.
8. Aggrieved by the order, the Company had preferred first appeal before the Director of Geology and Mining, Chennai-32 and the same had been dismissed vide Proceedings Roc.No.10735/MM9/2010 dated 27.04.2012. The Company had again filed a second appeal before the Government.
9. Subsequently, the classification of the lands in S.F.No.679/2 over an extent of 115 acre and 680/2 over an extent of 205 acres of Thorapalli Agraharam village of Hosur Taluk Krishnagiri district had been changed from "Kadu" poramboke to "Kallankuthu.
10. In the G.O.(D) No.232 Ind. (MMCI) Department dated 28.12.2017, the second appeal petition filed by M/s. Navaladiyan Engineers, Salem, had been allowed due to the reclassification of the land and the District Collector Krishnagiri had been directed to restore the lease granted to the appellant for quarrying Rough stone over an extent of 5.00.0 hect. in Government land "Kadu" poramboke presently classified as "Kallankuthu" poramboke in

  
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S.F.No.679/2 (Part-2) of Thorapalli Agraharam Village of Hosur Taluk Krishnagiri district.

11. In view of the above circumstances, precise area over an extent of 5.00.0 ha in Government land SF.No.679/2 (Part-2) of Thorapalli Agraharam Village of Hosur Taluk of Krishnagiri District was communicated to M/s. Navaladiyan Engineers, Salem for the proposed permission for Rough Stone Quarrying for a period of 8 years 10 Months 22 Days to compensate the loss of lease period due to forest objection and they were directed to submit the Approved Mining Plan, approved by The Deputy Director of Geology and Mining, Krishnagiri. Environment Clearance and consent of the Tamil Nadu Pollution Board within the prescribed time limit.

12. The mining plan was approved by the Deputy Director of Geology and mining Krishnagiri vide ROC.No.405/2009/Mines-1 dated:02.05.2023 stating that

“...It is informed that by considering the above facts, the mining plan approved on 06.04.2018 by the Deputy Director of Geology and mining, Krishnagiri for a period of 05 years will come into effect from the date of execution of lease deed which will be carried out only after the issuance of Environmental Clearance”.

II. Forest Conservation Act, 1980 under para 2

2. Restriction on the de-reservation of forests or use of forest land for non-forest purpose.

Notwithstanding anything contained in any other law for the time being in force in a State, no State Government or other authority shall make, except with the prior approval of the Central Government, any order directing –

(i) that any reserved forest (within the meaning of the expression “reserved forest” in any law for the time being in force in that State) or any portion thereof, shall cease to be reserved:

(ii) that any forest land or any portion thereof may be used for any non-forest purpose.

  
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- (iii) that any forest land or any portion thereof may be assigned by way of lease or otherwise to any private person or to any authority, corporation, agency or any other organization not owned, managed or controlled by Government;
- (iv) that any forest land or any portion thereof may be cleared of trees which have grown naturally in that land or portion, for the purpose of using it for reforestation.

In the view of the above facts and documents furnished by the proponent, SEAC recommended grant of Terms of Reference (TOR) with Public Hearing as per Annexure I of this minute, subject to the following 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. With reference to the notes above, the CLA's proceedings submitted by the PP has not thrown the required light on the subject. It is seen from the proceedings that the Thorapalli Agraharam Village was a 'inam' village and, in the settlement, the SF. No. in question was classified as government Poramboke kaadu. Subsequently, Government, the Principal Commissioner, Land Survey in his Proceedings in Na. Ka. (I.1)/2989/2016, dated 08.06.2016 had reclassified the subject lands comprised in S.F.No.679/2 from Kadu Poramboke to Kallankuthu Poramboke. In this context according to the para 2 of Forest (Conservation) Act,1980, any land classified as forest in any of the government records cannot be reclassified and used for non-forest purposes without the prior approval of Government of India. The CLA's proceedings changing the classification from 'kadu' should have been changed only with the prior approval of Gol as per the Forest Act. The information on the same, however, is not available in the proceedings. So, in this case the PP shall submit clarification from the CLA that proper procedures were followed in changing the classification of the land in question.

  
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2. The study shall include impact of the proposed mining on the Water falls and River Ponnaiyar flowing at a distance of 200m from the mine lease area and the proposed control/mitigation measures.
3. The Proponent shall justify the selection of the site for carrying out the stone quarrying with the total volume arrived for the excavation & production adequate details such as lithology of the deposit, reserve estimation, place for waste dump/mined mineral storage, end-use of mined materials, identified potential customers/end-users and travel path.
4. The proponent shall revise the mining plan indicating the bench height of 6 m with width of not less than bench height, as per Reg. 106 2(a) of Metalliferous Mines Regulations, 1961.

In the context of 1 above, SEIAA may also get a clarification from the Forest Department, whether the prescribed procedures were followed for changing the classification of the land in question.

Agenda No: 407-21

(File No: 10238/2023)

Proposed Rough stone quarry over an extent of 3.20.5 Ha at S.F. No. 629 (Part) (Government Poramboke Land) of Nagamangalam Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Tvl. Square Enterprises - For Terms of Reference. (SIA/TN/MIN/433058/2023 dt 12.06.2023)

The proposal was placed in this 407<sup>th</sup> meeting of SEAC held on 07.09.2023. 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. Square Enterprises has applied seeking Terms of Reference for the proposed Rough stone quarry over an extent of 3.20.5 Ha at S.F. No. 629 (Part) (Government Poramboke Land) of Nagamangalam Village, Denkanikottai 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, as amended.
3. The precise area communication was issued for the period of 10 Years. The mining

  
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plan is for 10 Years. The annual peak production for First Five Years period shall not exceed 100240 m<sup>3</sup> of Rough stone for the ultimate depth of 70m (45m AGL + 25m BGL).

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

1. The proponent is requested to carry out a survey and enumerate on the structures located within 50m, 100m, 150m, 200m, 250m, 300m and 500m from the boundary of the mine lease area.
2. As the Cauvery North WLS is within 10 km of the proposed site, PP shall consult the DFO concerned for contributing towards conservation measures in the WLS and include the same in the EMP.

Agenda No: 407-22

(File No: 10245/2023)

Proposed Black Granite quarry over an extent of 1.42.0 Ha at S.F. No. 362/1 (Part) (Bit-2) (Government Poramboke Land) of Guttur Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Tvl. Magma Stone Exports - For Terms of Reference. (SIA/TN/MIN/436898/2023 dt 16.07.2023)

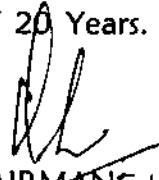
The proposal was placed in this 407<sup>th</sup> meeting of SEAC held on 07.09.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Tvl. Magma Stone Exports has applied seeking Terms of Reference for the proposed Black Granite quarry over an extent of 1.42.0 Ha at S.F. No. 362/1 (Part) (Bit-2) (Government Poramboke Land) of Guttur 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, as amended.
3. The precise area communication was issued for the period of 20 Years. The

  
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mining plan is for 20 Years. The annual peak production for First Five Years period shall not exceed 615 m<sup>3</sup> of Black Granite recovery for the ultimate depth of 23m.

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

1. The proponent is requested to carry out a survey and enumerate on the structures located within 50m, 100m, 150m, 200m, 250m, 300m and 500m from the boundary of the mine lease area.
2. Detailed study report on flora and fauna in and nearby the quarry site through Department of Botany, Government Arts College, Krishnagiri.

Agenda No: 407 - 23

(File No: 10239 /2023)

Proposed Rough stone & Gravel quarry lease over an extent of 3.34.5Ha in S.F. No:147/3, 147/4 & 148 (P), Thenkaraikottai Village, Pappireddypatti Taluk, Dharnapuri District, Tamil Nadu by M/s. Shri Ponguru Blue Metal Mines – For Terms of Reference. (SIA/TN/MIN/434227/2023 Dt.22.06.2023)

The proposal was placed in the 407<sup>th</sup> SEAC Meeting held on 07.09.2023. The details of the proposed project are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. Shri Ponguru Blue Metal Mines has applied for Terms of Reference for the proposed Rough stone & gravel quarry lease over an extent of 3.34.5Ha in S.F. No:147/3, 147/4 & 148 (P), Thenkaraikottai Village, Pappireddypatti Taluk, Dharnapuri District, Tamil Nadu.
2. The 500m radius cluster Ir. Dt: 03.02.2023 issued by AD, G&M, Dharmapuri District reveals cluster area - 10.32.0 Ha.
3. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.

  
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4. As per the precise area communication the lease period is for 10 years. The mining plan is approved for 10 Years. The production for 1<sup>st</sup> 5 Years shall not to exceed 422500m<sup>3</sup> of Rough Stone & 85320m<sup>3</sup> of Weathered Rock & 56880m<sup>3</sup> of Gravel and the production for 2<sup>nd</sup> 5 Years shall not to exceed 436800m<sup>3</sup> of Rough Stone. The depth of proposed mining up to 70m ( 10m AGL + 60m BGL).

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

1. The Proponent shall furnish details of photographs of adequate barbed, fencing, greenbelt and garland drain around the boundary of the proposed quarry site.
2. The Proponent shall furnish the controlled blasting techniques for carrying out the safe blasting operations adopting the Nonel initiation system.
3. The Proponent shall furnish latest status of court cases filed by and against the proponent in regard to the proposed mining area.
4. The Proponent shall furnish study on impact of proposed mining activity on the hydrogeology around the vicinity of the proposed mining area considering open wells, surface water bodies and surrounding agriculture lands & its activity.
5. AD mines letter for the existing pit with details of earlier lease period and pit dimension.

**Agenda No: 407 - 24**

**(File No: 10260 /2023)**

**Existing Multi Colour Granite Quarry over an extent of 1.50.5Ha S.F.Nos. 348 (Part) & 349/2 (Part) of Sithampoondi Village, Paramathivelur Taluk, Namakkal District, Tamil Nady by Thiru. S.K.P.Murugaen - For Terms of Reference. (SIA/TN/MIN/436999/2023, dt:17.07.2023)**

The proposal was placed in the 407<sup>th</sup> SEAC Meeting held on 07.09.2023. The details of the minutes are available in the website (parivesh.nic.in).

The SEAC noted the following:


  
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1. Earlier, the mining lease was issued for the period of 20 years vide G.O.(3D). no. 12 (MMB.2) Dt:19.03.2018 upto 18.03.2038.
2. Earlier, the PP has obtained EC from DEIAA vide Lr. No. DEIAA-NMK-TN/F.No.259/Mines/03/EC.no.06/2108 Dt:23.02.2018 existing Multi Colour Granite Quarry over an extent of .50.5 Ha S.F.Nos.348 (Part) & 349/2 (Part) of Sithampoondi Village, Paramathivelur Taluk, Namakkal District, Tamil Nadu for production of 17500 cu.m of ROM including 10500 cu.m of Multi Colour Granite (recovery 60%) & 7000 cu.m of Granite waste (reject 40%) and upto depth of 10m under B2 category (<25 Ha)..
3. MoEF&CC OM Dt: 28.04.2023.
4. Now, the project proponent, Thiru. S.K.P.Murugaen has applied for Terms of Reference for the existing Multi Colour Granite Quarry belongs to S.K.P.Murugaen Extent of 1.50.5Ha S.F.Nos.348 (Part) & 349/2 (Part) of Sithampoondi Village, Paramathivelur Taluk, Namakkal District, Tamil Nadu for production of 17437 cu.m of ROM including 10462 cu.m of Multi Colour Granite (recovery 60%) & 6975 cu.m of Granite waste (reject 40%)and upto 25m depth of mining under B1 category (cluster area >5 Ha).
5. AD. Dept. of G&M permitted quantity Ir. Rc.no. 1399/Mines/2022 Dt:05.07.2023 stating DEIAA EC approved quantity 17500 cu.m. of Multi Colour Granite and permitted quantity – 3390.685 cu.m,
6. 500m radius Cluster by AD, Dept. of G&M vide Ir. Rc.no. 1399/Mines/2022 Dt: 20.06.2023 (Cluster Area - 23.58.87 ha ~ B1 category).
7. The Mining Lease was issued for the period of 20 Years. The approved current scheme mining plan for the period of 5 Years (2023 – 24 to 2027 -28) vide Ir. Rc.no. 3084/MM4/2020 Dt:05.05.2023 & production should not exceed 17437 cu.m of ROM including 10462 cu.m of Multi Colour Granite (recovery 60%) & 6975 cu.m of Granite waste (reject 40%). The depth of mining is 25m BGL.


Based on the presentation and details furnished by the project proponent, SEAC decided to grant Terms of Reference (TOR) with Public Hearing subject to the following TORs. in addition to the standard terms of reference for EIA study for non-coal mining projects

  
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and details issued by the MOEF & CC and Annexure I, to be included in EIA/EMP Report:

1. The proponent shall give an Affidavit before the issuance of ToR from SEIAA-TN stating that the mining operations will remain suspended from the date of publication of MoEF & CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023 till they obtain the EC granted by the SEIAA after the reappraisal process for carrying out remedial actions subsequently.
2. The PP shall furnish Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and with mitigation measures for the non-compliance Stated therein.
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 Proponent shall furnish details of photographs of adequate barbered fencing, & greenbelt development around the boundary of the proposed quarry.
5. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which shall stipulate the following information:
  - i. Original pit dimension of the existing quarry
  - ii. Quantity achieved Vs EC Approved Quantity
  - iii. Balance Quantity as per Mineable Reserve calculated.
  - iv. Mined out Depth as on date Vs EC Permitted depth
  - v. Details of illegal/illicit mining carried out, if any
  - vi. Non-compliance/Violation in the quarry during the past working.
  - vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
  - viii. Existing condition of Safety zone/benches
  - ix. Details of any penalties levied on the PP for any violation in the quarry operation by the Department of Geology and Mining.

  
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6. The PP shall furnish mitigation measures/remedial action plan for the non-compliance stated in the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC.
7. The PP shall submit detail of transport route of quarried minerals with details of mitigation measures adopted for fugitive emission due vehicular movement/transport route on the surrounding environment.
8. Detail of penalty remitted and along copy penalty demand issued AD/DD, Dept. Geology & Mining. if any.
9. The PP shall discuss the plan for the management of the composite quantity of Top soil & Gravel to be excavated during the earlier part of the quarrying.
10. The Proponent shall provide a Controlled Blast design & Vibration Prediction for the structures located within 500 m from the lease boundary and any other sensitive structures.

**Agenda No: 407 - 25**

**(File No: 10223/2023)**

**Proposed expansion of existing Steel plant at S.F.Nos. 352, 353/1,2, 379/1pt, 379/2pt, 380pt, 382/1pt, 382/3 pt, Nallur Village & S. F. No. 50/1pt of Kunnamalai Village, Paramathi Velur Taluk, Namakkal District, Tamil Nadu by M/s. Sri Vela Smelters Private Limited - For Term of Reference. (SIA/TN/IND1/436733/2023 dt 15.07.2023)**

The proposal was placed in this 407<sup>th</sup> meeting of SEAC held on 07.09.2023. The project proponent made 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:**

1. The Project Proponent, M/s. Sri Vela Smelters Private Limited has applied seeking Terms of Reference for the proposed expansion of existing Steel plant at S.F.Nos. 352, 353/1,2, 379/1pt, 379/2pt, 380pt, 382/1pt, 382/3 pt, Nallur Village & S. F. No. 50/1pt of Kunnamalai Village, Paramathi Velur Taluk, Namakkal District, Tamil Nadu.
2. The proposed project activity is covered under Category "B1" of Item 3(a) "Metallurgical Industries" of the Schedule to the EIA Notification, 2006, as

  
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amended.

3. The unit had obtained 2 different consents for steel melting plant and rolling mill. The steel melting plant existing since 2003 has obtained CTO to manufacture 2000 TPM of MS Ingots and is valid up to 31.03.2027. The steel rolling mill existing since 2007 has obtained CTO to manufacture 6000 TPM of MS Rolled Products: TMT Bars, Twisted Bars, Angles, Flats and Squares and is valid up to 31.03.2026. Since both the units are adjacent and the product of steel melting plant is used as raw material for rolling mill in hot condition, the PP has decided to combine both the units and obtain a single EC. Further the PP has proposed to increase production capacity of "MS Billets/Ingots" from 24,000 to 1,20,000 TPA and "TMT Rods & Structural Components" from 72,000 to 1,50,000 TPA.
4. Earlier the proposal was placed in 406<sup>th</sup> SEAC meeting held on 01.09.2023. The Committee decided to defer the proposal and take up for discussion in the ensuing meeting.

During the meeting, the Committee noted the following provisions from MoEF&CC's Notifications & O. Ms:

**I. Notification issued by MoEF&CC from time to time**

1. As per EIA Notification 2006 S.O. 1533 (E) Dated: 14.09.2006, under 3(a) in the schedule,

(1)	(2)	(3)	(4)	(5)
"3(a)	Metallurgical industries (ferrous & non ferrous)	a) Primary metallurgical industry All projects b) Sponge iron manufacturing ≥ 200TPD c) Secondary metallurgical processing industry	Sponge iron manufacturing < 200 TPD Secondary metallurgical processing industry i.) All toxic and heavy metal producing units	General condition shall apply for Sponge iron manufacturing.

  
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		All toxic and heavy metal producing units $\geq$ 20,000 tonnes /annum	< 20,000 tonnes/annum ii.) All other non-toxic secondary metallurgical processing industries >5000 tonnes/annum	
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2. As per Notification S.O. 3067 (E) Dated: 01.12.2009, under sub para (iv) of Para V

(iv) against item 3(a), in column (5), for the entries, the following entries shall be substituted, namely: \_

"General condition shall apply.

Note:

- (i) The recycling industries units registered under the HSM Rules, are exempted.
- (ii) In case of secondary. metallurgical processing industrial units, those projects involving operation of furnaces only, such as induction and electric arc furnace, submerged arc-furnace, and cupola with capacity more than 30,000 tonnes per annum (TPA) would require environmental clearance.
- (iii) Plant / units other than power plants (given against entry no. 1(d) or the schedule), based on municipal solid waste (non- hazardous) are exempted.

3. As per the MoEF&CC Notification S.O. 3250 (E) Dated: 20.07.2022,

*"All the standalone re-rolling units or cold rolling units, which are in existence and in operation as on the date of this notification, with valid Consent to Establish (CTE) and Consent to Operate (CTO) from the concerned state pollution control board or the union territory pollution control committee, as the case may be, shall apply online for grant of Terms of Reference as per item 3(a) of the said notification and shall be exempted from the requirement of*

  
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*public consultation:*

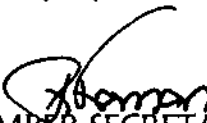
*Provided that the application for the grant of ToR shall be made within a period of one year from the date of this notification.”*

## **II. Observations of SEAC**

- As per EIA Notification 2006 S.O. 1533 (E) Dated: 14.09.2006, All other non – toxic secondary metallurgical processing industries >5000 tonnes/annum would require environmental clearance.
- As per Notification S.O. 3067 (E) Dated: 01.12.2009, Metallurgical processing industrial units, those projects involving operation of **furnaces only**, such as induction and electric arc furnace, submerged arc-furnace, and cupola with capacity more than 30,000 tonnes per annum (TPA) would require environmental clearance.
- The unit was established in the year 2003 & the details of capacity & CTO are as follows:

UNIT	Date of Establishment	Capacity	Date of CTO	Expansion
Melting Unit	17.12.2003	Ingots – 24000 TPA	03.08.2004	Nil
Addition of Rolling Unit	29.09.2006	60000 TPA	31.12.2007	18.10.2010 – 72000 TPA

- The unit was in operation with the valid consent orders obtained from the TNPCB for the Manufacturing of M.S. Rolled Products: TMT bars, Twisted Bars, Angles, Flats and Squares of production quantity of 72,000 Tons/Annum with M. S. Billets as an intermediate product.
- The proposed activity involves manufacturing of MS billets/ingots which is captive to the rolling unit and produces steel products viz TMT bars, Twisted Bars, Angles, Flats and Squares which requires EC as per EIA Notification, 2006.
- MoEF&CC Notification S.O. 3250 (E) Dated: 20.07.2022 provides time relaxation only to existing standalone steel re-rolling units. But the current proposal involves manufacturing of billets/ingots which is captive to the rolling

  
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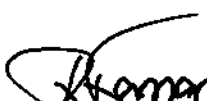
unit and produces steel products viz TMT bars, Twisted Bars, Angles, Flats and Squares.

As per EIA Notification 2006 S.O. 1533 (E) Dated: 14.09.2006, All other non – toxic secondary metallurgical processing industries >5000 tonnes/annum would require environmental clearance since 2006.

Hence the SEAC is of the opinion that the project activity falls under violation category as the PP had failed to apply and obtain prior EC as per EIA Notification 2006 for operating the industry which houses both steel melting plant and steel rolling plant within the same premises.


Therefore, based on the above facts, SEAC decided to grant **Terms of Reference under violation category along with Public Hearing** to the proposal, subject to the following TORs, in addition to the standard terms of reference for EIA study and details issued by the MOEF & CC (Annexure III) to be included in 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. Terms of Reference issued are subject to the outcome of the final orders of the Hon'ble High Court of Madras in the matter of W.P.(MD) No. 11757 of 2021.

1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 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 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.

  
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2. As a part of procedural formalities as per the MoEF & CC Violation Notification & O.Ms, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
3. The PP shall furnish the video graph of the entire plant operations.
4. DFO letter stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site and If the Vellode Bird Sanctuary is located within 10 km from the boundary of the proposed site, the PP shall include conservation measures for Vellode Bird Sanctuary in consultation with the DFO.
5. The PP shall furnish the details of arrangement made for permanent water supply from NTADC/TWAD Board.
6. PP shall conduct an energy efficiency study of the existent factory through accredited BEE consultant and submit the same along with an action plan to implement the suggestions.
7. The PP shall discuss the best available technology available in this field and action plan for implementing the same.
8. The PP shall furnish action plan for harnessing 50% solar energy or shall purchase 75% renewable energy to meet the energy requirement.
9. The PP shall furnish the road map for achieving 100% green energy in 2030.
10. The PP shall furnish the action plan for 100% use of Electric Vehicles within next five years.
11. The PP shall furnish the action plan for the implementing the CER activities as committed.
12. The PP shall study in detail various operational measures to reduce the specific energy consumption in induction furnaces.
13. The proponent shall furnish details on the idling period provided.
14. The proponent shall furnish details on measures adopted for better and efficient operation of melting & charging.
15. The proponent shall furnish details on the control measures adopted during

  
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- heat finishing and tapping.
16. The proponent shall study in detail about operational control measures to Minimize and control the refractory wall wearing.
  17. The proponent shall explore the possibilities of utilizing state of the art technology with best global practice.
  18. The proponent shall explore the possibilities of utilizing the treated wastewater instead of fresh water.
  19. The proponent must increase the Solar and Wind Energy sources and must explore the possibilities of achieving Net Zero energy consumption.
  20. The proponent shall submit the copy of the consent to operate and the latest renewal consent order obtained from the TNPCB.
  21. The proponent shall submit the compliance report from TNPCB for the conditions imposed in the consent order issued by the TNPCB.
  22. The Environmental pollution control measures taken to deal with Air pollution, effluent generation and slag generation should be discussed in detail.
  23. The project proponent has to strengthen the air pollution control measures of the existing system and furnish an adequacy report on the revamped system from a reputed institution like Anna University or IIT, Madras along with the EIA report. The revamping of the existing air pollution control measures should include the interlinking of the position of the hood system and furnace to ensure that the emission from the furnace shall be treated and routed through wet scrubber and stack.
  24. The proponent shall submit the video and photograph of the operational details with particular reference to points of pollution in the existing plant.
  25. Material balance and Water balance shall be furnished in accordance with MoEF&CC guidelines.
  26. A detailed report on Solid waste & hazardous waste management shall be furnished.
  27. Report on AAQ survey and proposed air pollution prevention and control measures shall be furnished in the EIA report.

  
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28. 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.
29. Adequacy report for ETP & STP for the proposed project obtained from any reputed Government institution such as IIT, Anna University, NIT shall be furnished.
30. 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.
31. 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.
32. 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.
33. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
34. The PP shall produce/display the EIA report, executive summary and other related information with respect to public hearing in Tamil.
35. 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 purposes involved in the project.
36. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
37. The project proponent shall explore the possibilities of treating and utilizing the trade effluent and sewage within the premises to achieve Zero liquid discharge.
38. 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

  
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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.

39. As the plant operation involves sensitive processing, the medical officer and the supporting staff involved in the health center activities shall be trained in occupational health surveillance (OHS) aspects through outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
40. The proposal for Roof Top solar panel shall be included in the EIA Report.
41. 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: 407 - 26**

**(File No: 10206/2023)**

**Proposed Expansion of Steel Melting Shop & Rolling Mill located at S.No. 329/2, 3, 4, 5, 7 of Vellalagundam Village, Vazhappadi Taluk, Salem District by M/s. Sree Jayamurugan Alloys Private Limited - For Terms of Reference. (SIA/TN/MIN/435680/2023, Dated: 10.07.2023)**

The proposal was placed for appraisal in this 406<sup>th</sup> SEAC meeting held on 01.09.2023. 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. Sree Jayamurugan Alloys Private Limited has applied for Terms of Reference for the Proposed Expansion of Steel Melting Shop & Rolling Mill located at S.No. 329/2, 3, 4, 5, 7 of Vellalagundam Village, Vazhappadi Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Schedule 3(a), Metallurgical Industries (Ferrous & Non-Ferrous) of the Schedule to the EIA Notification, 2006.
3. The proponent had obtained CTO from TNPCB vide consent order no. 2204244865565 under Air Act and Consent Order No. 2204144865565 under Water Act Dated: 12.07.2022 for the Manufacturing of 28080 TPA of MS

  
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Billets/MS Products as Sections, Squares, Angles, Rounds, TMT Rods with an induction furnace with panel board capacity 4450 KW and melting capacity of 28800 TPA with validity up to 31.03.2023.

4. Earlier the proposal was placed in 406<sup>th</sup> SEAC meeting held on 01.09.2023. The Committee decided to defer the proposal and take up for discussion in the ensuing meeting.

During the meeting, the Committee noted the following provisions from MoEF&CC's Notifications & O. Ms:

I. Notification issued by MoEF&CC from time to time

1. As per EIA Notification 2006 S.O. 1533 (E) Dated: 14.09.2006, under 3(a) in the schedule,

(1)	(2)	(3)	(4)	(5)
"3(a)	Metallurgical industries (ferrous & non ferrous)	a) Primary metallurgical industry All projects b) Sponge iron manufacturing $\geq$ 200TPD c) Secondary metallurgical processing industry All toxic and heavy metal producing units $\geq$ 20,000 tonnes /annum	Sponge iron manufacturing < 200 TPD Secondary metallurgical processing industry i.) All toxic and heavy metal producing units < 20,000 tonnes/annum ii.) All other non-toxic secondary metallurgical processing industries	General condition shall apply for Sponge iron manufacturing.

  
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			>5000 tonnes/annum	
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2. As per Notification S.O. 3067 (E) Dated: 01.12.2009, under sub para (iv) of Para V

(iv) against item 3(a), in column (5), for the entries, the following entries shall be substituted, namely: \_

"General condition shall apply.

Note:

(i) The recycling industries units registered under the HSM Rules, are exempted.

(ii) In case of secondary. metallurgical processing industrial units, those projects involving operation of furnaces only, such as induction and electric arc furnace, submerged arc-furnace, and cupola with capacity more than 30,000 tonnes per annum (TPA) would require environmental clearance.

(iii) Plant / units other than power plants (given against entry no. 1(d) or the schedule), based on municipal solid waste (non- hazardous) are exempted.

3. As per the MoEF&CC Notification S.O. 3250 (E) Dated: 20.07.2022,

*"All the standalone re-rolling units or cold rolling units, which are in existence and in operation as on the date of this notification, with valid Consent to Establish (CTE) and Consent to Operate (CTO) from the concerned state pollution control board or the union territory pollution control committee, as the case may be, shall apply online for grant of Terms of Reference as per item 3(a) of the said notification and shall be exempted from the requirement of public consultation:*

*Provided that the application for the grant of ToR shall be made within a period of one year from the date of this notification."*

## II. Observations of SEAC

- As per EIA Notification 2006 S.O. 1533 (E) Dated: 14.09.2006, All other non – toxic secondary metallurgical processing industries >5000 tonnes/annum would require environmental clearance.

  
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- As per Notification S.O. 3067 (E) Dated: 01.12.2009, Metallurgical processing industrial units, those projects involving operation of furnaces only, such as induction and electric arc furnace, submerged arc-furnace, and cupola with capacity more than 30,000 tonnes per annum (TPA) would require environmental clearance.
- The unit was established in the year 2010 & the details of capacity & CTO are as follows:

UNIT	Date of Establishment	Capacity	Date of CTO	Expansion
Melting Unit	19.11.2010	Ingots - 21600 TPA	27.08.2012	Nil
Addition of Rolling Unit	03.01.2019	Ingots – 28080 TPA Rods – 28080 TPA	12.07.2022	Nil

- The unit was in operation with the valid consent orders obtained from the TNPCB for the Manufacturing of MS Billets/MS Products as Sections, Squares, Angles, Rounds, TMT Rods of production quantity of 28080 Tons/Annum with M. S. Billets as an intermediate product.
- The proposed activity involves manufacturing of MS billets/ingots which is captive to the rolling unit and produces steel products viz Sections, Squares, Angles, Rounds, TMT Rods which requires EC as per EIA Notification, 2006.
- MoEF&CC Notification S.O. 3250 (E) Dated: 20.07.2022 provides time relaxation only to existing standalone steel re-rolling units. But the current proposal involves manufacturing of billets/ingots which is captive to the rolling unit and produces steel products viz Sections, Squares, Angles, Rounds, TMT Rods.

As per EIA Notification 2006 S.O. 1533 (E) Dated: 14.09.2006, All other non – toxic secondary metallurgical processing industries >5000 tonnes/annum would require environmental clearance since 2006.


  
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Hence the SEAC is of the opinion that the project activity falls under violation category as the PP had failed to apply and obtain prior EC as per EIA Notification 2006 for operating the industry which houses both steel melting plant and steel rolling plant within the same premises.

Therefore, based on the above facts, SEAC decided to grant Terms of Reference under violation category along with Public Hearing to the proposal, subject to the following TORs, in addition to the standard terms of reference for EIA study and details issued by the MOEF & CC (Annexure III) to be included in 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. Terms of Reference issued are subject to the outcome of the final orders of the Hon'ble High Court of Madras in the matter of W.P.(MD) No. 11757 of 2021.

1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 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 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.
2. As a part of procedural formalities as per the MoEF & CC Violation Notification & O.Ms, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
3. The proponent shall furnish the production details submitted to the Commercial Tax department for the last 5 years.
4. The project proponent shall furnish details on the health care provided to the workers.

  
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5. The proponent shall furnish videos showing the entire premises including entire process.
6. PP shall conduct an energy efficiency study of the existent factory through accredited BEE consultant and submit the same along with an action plan to implement the suggestions.
7. The proponent shall furnish details on the idling period provided.
8. The proponent shall furnish details on measures adopted for better and efficient operation of melting & charging.
9. The proponent shall furnish details on the control measures adopted during heat finishing and tapping.
10. The proponent shall study in detail about operational control measures to Minimize and control the refractory wall wearing.
11. The proponent shall explore the possibilities of utilizing state of the art technology with best global practice.
12. The proponent shall explore the possibilities of utilizing the treated wastewater instead of fresh water.
13. The proponent must increase the Solar and Wind Energy sources and must explore the possibilities of achieving Net Zero energy consumption.
14. The proponent shall submit the copy of the consent to operate and the latest renewal consent order obtained from the TNPCB.
15. The proponent shall submit the compliance report from TNPCB for the conditions imposed in the consent order issued by the TNPCB.
16. The Environmental pollution control measures taken to deal with Air pollution, effluent generation and slag generation should be discussed in detail.
17. The project proponent has to strengthen the air pollution control measures of the existing system and furnish an adequacy report on the revamped system from a reputed institution like Anna University or IIT, Madras along with the EIA report. The revamping of the existing air pollution control measures should include the interlinking of the position of the hood system and furnace to ensure that the emission from the furnace shall be treated and routed through wet

- scrubber and stack.
18. The proponent shall submit the video and photograph of the operational details with particular reference to points of pollution in the existing plant.
  19. Material balance and Water balance shall be furnished in accordance with MoEF&CC guidelines.
  20. A detailed report on Solid waste & hazardous waste management shall be furnished.
  21. Report on AAQ survey and proposed air pollution prevention and control measures shall be furnished in the EIA report.
  22. 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.
  23. Adequacy report for ETP &STP for the proposed project obtained from any reputed Government institution such as IIT, Anna University, NIT shall be furnished.
  24. 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.
  25. 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.
  26. 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.
  27. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
  28. The PP shall produce/display the EIA report, executive summary and other related information with respect to public hearing in Tamil.

  
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29. 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 purposes involved in the project.
30. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
31. The project proponent shall explore the possibilities of treating and utilizing the trade effluent and sewage within the premises to achieve Zero liquid discharge.
32. 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.
33. As the plant operation involves sensitive processing, the medical officer and the supporting staff involved in the health center activities shall be trained in occupational health surveillance (OHS) aspects through outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
34. The proposal for Roof Top solar panel shall be included in the EIA Report.
35. 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: 407-27**

**(File No.10250/2023)**

**Proposed Expansion of Steel Melting plant & Steel Rolling Mill at S.F.Nos.304/1, 304/2, 305/1 & 306 of Chennimalai Village, Perundurai Taluk, Erode District, Tamil Nadu by M/s. Sree Palani Andavar Alloys and Steels Private Limited – Terms of Reference. (SIA/TN/IND1/436633/2023 dated.15.07.2023.)**

The proposal was placed in the 407<sup>th</sup> meeting of SEAC held on 07.09.2023. The details of the project furnished by the proponent are given in the website ([parivesh.nic.in](http://parivesh.nic.in)).

The SEAC noted the following:

  
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1. The project proponent, M/s. Sree Palani Andavar Alloys and Steels Private Limited has applied for Terms of Reference for the Proposed Expansion of Steel Melting plant & Rolling Mill at S.F.Nos.304/1, 304/2, 305/1 & 306 of Chennimalai Village, Perundurai Taluk, Erode District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 3(a) "Metallurgical Industries (Ferrous & Non-Ferrous)" of the Schedule to the EIA Notification, 2006.
3. The proponent had obtained Renewal of consent from TNPCB vide consent order No.2208243569054 under Air Act and Consent Order No. 2208143569054 under Water Act Dated: 19.03.2022 for the Manufacturing of TMT Rods & M.S. Round of production quantity of 1750 Tons/Month with M.S. Ingots & M.S. Billet as Intermediate Products with capacity 1750 Tons/Month. The Point emission sources are Induction Furnace of 2.8 T (2 Nos.) with wet scrubber & bag filter (stack height – 30m) as APC measure, Re-heating furnace of 5.0 T (1 No.) with bag filter and scrubber (stack height – 35m) as APC measure & DG Set of 125KVA with stack of 4m height. The Consent orders were valid up to 31.03.2024.
4. Now, the proponent proposes for an expansion in the existing unit. The details of production capacity after expansion are as follows:

Product	Existing	After Expansion
MS Billets & Ingots	21,000 TPA	1,25,000 TPA
TMT Rods and Structural Components	21,000 TPA	1,20,000 TPA

During the meeting, the Committee noted the following provisions from MoEF & CC's Notifications & O. Ms:

**I. Notification issued by MoEF&CC from time to time**

1. As per EIA Notification 2006 S.O. 1533 (E) Dated: 14.09.2006, under 3(a) in the schedule,

(1)	(2)	(3)	(4)	(5)
"3(a)	Metallurgical industries (ferrous & non ferrous)	a) Primary metallurgical industry All projects	Sponge iron manufacturing < 200 TPD	General condition shall apply for Sponge iron

  
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		b) Sponge iron manufacturing $\geq$ 200TPD c) Secondary metallurgical processing industry All toxic and heavy metal producing units $\geq$ 20,000 tonnes /annum	Secondary metallurgical processing industry i.) All toxic and heavy metal producing units < 20,000 tonnes/annum ii.) All other non-toxic secondary metallurgical processing industries >5000 tonnes/annum	manufacturing.
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2. As per Notification S.O. 3067 (E) Dated: 01.12.2009, under sub para (iv) of Para V

(iv) against item 3(a), in column (5), for the entries, the following entries shall be substituted, namely: \_

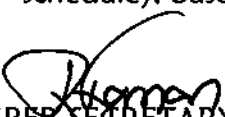
"General condition shall apply.


Note:

(i) The recycling industries units registered under the HSM Rules, are exempted.

(ii) In case of secondary. metallurgical processing industrial units, those projects involving operation of furnaces only, such as induction and electric arc furnace, submerged arc-furnace, and cupola with capacity more than 30,000 tonnes per annum (TPA) would require environmental clearance.

(iii) Plant / units other than power plants (given against entry no. 1(d) or the schedule), based on municipal solid waste (non- hazardous) are exempted.

  
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3. As per the MoEF&CC Notification S.O. 3250 (E) Dated: 20.07.2022,  
*“All the standalone re-rolling units or cold rolling units, which are in existence and in operation as on the date of this notification, with valid Consent to Establish (CTE) and Consent to Operate (CTO) from the concerned state pollution control board or the union territory pollution control committee, as the case may be, shall apply online for grant of Terms of Reference as per item 3(a) of the said notification and shall be exempted from the requirement of public consultation:*

*Provided that the application for the grant of ToR shall be made within a period of one year from the date of this notification.”*

## II. Observations of SEAC

- As per EIA Notification 2006 S.O. 1533 (E) Dated: 14.09.2006, All other non – toxic secondary metallurgical processing industries >5000 tonnes/annum would require environmental clearance.
- As per Notification S.O. 3067 (E) Dated: 01.12.2009, Metallurgical processing industrial units, those projects involving operation of furnaces only, such as induction and electric arc furnace, submerged arc-furnace, and cupola with capacity more than 30,000 tonnes per annum (TPA) would require environmental clearance.
- The unit was established in the year 2007 & the details of capacity & CTO are as follows:

UNIT	Date of Establishment	Capacity	Date of CTO	Expansion
Melting Unit	2007	21000 TPA	08.07.2009	Nil
Addition of Rolling Unit	23.01.2016	Ingots – 21000 TPA Rods – 21000 TPA	10.10.2018	Nil

- The unit was in operation with the valid consent orders obtained from the TNPCB for the Manufacturing of TMT Rods & M.S. Round of production

  
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quantity of 21,000 Tons/Annum with M.S. Ingots & M.S. Billets as Intermediate Product.

- The proposed activity involves manufacturing of billets & ingots which is captive to the rolling unit and produces steel products viz TMT Rods & M.S. Round which requires EC as per EIA Notification, 2006.
- MoEF&CC Notification S.O. 3250 (E) Dated: 20.07.2022 provides time relaxation only to existing standalone steel re-rolling units. But the current proposal involves manufacturing of billets & ingots which is captive to the rolling unit and produces steel products viz TMT Rods & M.S. Round.

As per EIA Notification 2006 S.O. 1533 (E) Dated: 14.09.2006, All other non – toxic secondary metallurgical processing industries >5000 tonnes/annum would require environmental clearance since 2006.

Hence the SEAC is of the opinion that the project activity falls under violation category as the PP had failed to apply and obtain prior EC as per EIA Notification 2006 for operating the industry which houses both steel melting plant and steel rolling plant within the same premises.

Therefore, based on the above facts, SEAC decided to grant **Terms of Reference under violation category along with Public hearing** to the proposal, subject to the following TORs, in addition to the standard terms of reference for EIA study and details issued by the MOEF & CC (Annexure III) to be included in 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. **Terms of Reference issued are subject to the outcome of the final orders of the Hon'ble High Court of Madras in the matter of W.P.(MD) No. 11757 of 2021.**

1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 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

  
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with collection and analysis of data for 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.

2. As a part of procedural formalities as per the MoEF & CC Violation Notification & O. Ms, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
3. The proponent shall furnish the production details submitted to the Commercial Tax department for the last 5 years.
4. The project proponent shall furnish details on the health care provided to the workers.
5. The proponent shall furnish videos showing the entire premises including entire process.
6. PP shall conduct an energy efficiency study of the existent factory through accredited BEE consultant and submit the same along with an action plan to implement the suggestions.
7. The proponent shall furnish details on the idling period provided.
8. The proponent shall furnish details on measures adopted for better and efficient operation of melting & charging.
9. The proponent shall furnish details on the control measures adopted during heat finishing and tapping.
10. The proponent shall study in detail about operational control measures to Minimize and control the refractory wall wearing.
11. The proponent shall explore the possibilities of utilizing state of the art technology with best global practice.
12. The proponent shall explore the possibilities of utilizing the treated wastewater instead of fresh water.

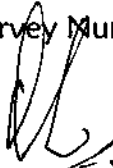
  
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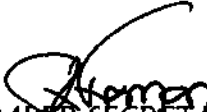
  
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13. The proponent must increase the Solar and Wind Energy sources and must explore the possibilities of achieving Net Zero energy consumption.
14. The proponent shall submit the copy of the consent to operate and the latest renewal consent order obtained from the TNPCB.
15. The proponent shall submit the compliance report from TNPCB for the conditions imposed in the consent order issued by the TNPCB.
16. The Environmental pollution control measures taken to deal with Air pollution, effluent generation and slag generation should be discussed in detail.
17. The project proponent has to strengthen the air pollution control measures of the existing system and furnish an adequacy report on the revamped system from a reputed institution like Anna University or IIT, Madras along with the EIA report. The revamping of the existing air pollution control measures should include the interlinking of the position of the hood system and furnace to ensure that the emission from the furnace shall be treated and routed through wet scrubber and stack.
18. The proponent shall submit the video and photograph of the operational details with particular reference to points of pollution in the existing plant.
19. Material balance and Water balance shall be furnished in accordance with MoEF&CC guidelines.
20. A detailed report on Solid waste & hazardous waste management shall be furnished.
21. Report on AAQ survey and proposed air pollution prevention and control measures shall be furnished in the EIA report.
22. 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.
23. Adequacy report for ETP &STP for the proposed project obtained from any reputed Government institution such as IIT, Anna University, NIT shall be furnished.
24. Land use classification shall be obtained from the DTCP for the Survey Numbers

  
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- of this project. Further, the project proponent shall submit the planning permission obtained from the DTCP, if any.
25. 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.
  26. 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.
  27. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
  28. The PP shall produce/display the EIA report, executive summary and other related information with respect to public hearing in Tamil.
  29. 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 purposes involved in the project.
  30. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
  31. The project proponent shall explore the possibilities of treating and utilizing the trade effluent and sewage within the premises to achieve Zero liquid discharge.
  32. 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.
  33. As the plant operation involves 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 outsourced training from the experts available in the field of OHS for ensuring the health standard

  
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of persons employed.

34. The proposal for Roof Top solar panel shall be included in the EIA Report.

35. 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: 407-TA-01**

**(File No: 9540/2023)**

**Existing IT Tower Building by M/s. Electronics Corporation of Tamil Nadu Limited (ELCOT) at S.F.Nos. 602/3A of Sholinganallur Village, Sholinganallur, Chennai District, Tamil Nadu - For Environmental Clearance under violation category. (SIA/TN/INFRA2/402960/2022, Dated: 14.10.2022)**

The proposal was placed in 407<sup>th</sup> SEAC meeting held on 07.09.2023. 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. Electronics Corporation of Tamil Nadu Limited (ELCOT) has applied for Environmental Clearance for the existing IT Tower Building at S.F. Nos. 602/3A of Sholinganallur Village, Sholinganallur, Chennai 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. Total plot area is 32,376 Sq.m & the built – up area is 23,675.03 Sq.m.
4. The proposal comes under violation category.
5. ToR under violation category issued vide Letter No. SEIAA-TN/F.No.9540/Violation/ToR- 1384/2023, dated: 27.02.2023.
6. Earlier the proposal was placed in 385<sup>th</sup> SEAC meeting held on 22.06.2023. The proposal was placed in 385<sup>th</sup> SEAC meeting held on 22.06.2023. Based on the presentation made by the proponent, SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation. After the receipt of the evaluation report by the Sub-committee, the SEAC will deliberate

  
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on the issue of Environmental Clearance under violation category.

Based on the above, The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Lr. No. SEAC-TN/9540/Site-Inspection/2023, dated 22.06.2023; based on Minutes of the 385<sup>th</sup> SEAC Meeting, held on 22.06.2023, to inspect and study the field condition for the proposal seeking EC for existing IT Tower Building at S.F. Nos. 602/3A of Sholinganallur Village, Sholinganallur, Chennai District, Tamil Nadu. The Committee comprised of Mr. K. Kumar, Dr. P. Balamadeswaran, Dr. G. Anne Josephine, Member SEAC – TN to assess the present status of the proposed project and environmental settings due to the violation nature of the project.

Site visit was conducted on 29-06-2023 (Thursday) by SEAC Sub-committee constituting of Mr. K Kumar, Dr. P. Balamadeswaran and Dr. G. Anne Josephine Selvam.

During the site visit, the following members were present.

No.	Name	Designation
1.	Mr. K. Kumar	SEAC Committee Member
2.	Dr. P. Balamadeswaran	SEAC Committee Member
3.	Dr. G. Anne Josephine Selvam	SEAC Committee Member
4.	Ms. S.P Shirijeyanthi	Administrative officer - ELCOT
5.	Mr. Thanga Arasu	AW - ELCOT
6.	Mr. Jeya praksh	EE (electrical) -ELCOT
7.	Mr. Dharmarajan	SE- ELCOT
8.	Selvendran	Electrical Engineer - ELCOT
9.	Karunanidhi	Project Engineer – CRN Consultants
10	Suresh. D	MEP Engineer – CRN Consultants
11.	Ramesh	Project Manager – PSK Engineering & Construction
12	M.S. Saravana	Environmental Engineer – ABC Techno Labs
13	K. Maniraj	Environmental Engineer - ABC Techno Labs

  
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The salient features of the project and the project layout are as follows

Description	Details
Total Area of Extent	32,376 Sq.m
Total Built-Up Area	23,675.03 sq.m
Plot Coverage	2,673.60 sq.m
FSI	0.73
Green Belt Area	4,856.4 Sq.m (15%)
Source of Water Supply	Metro Water Supply, Chennai.
Parking Area	6,436.75 Sq.m
Water Requirement	Total Water Requirement – 80 KLD Fresh Water Requirement – 51 KLD
Quantity of Wastewater Generation	Waste Water Generation – 74 KLD
Treatment System For Wastewater	Sewage Treatment Plant – 130 KLD (MBBR)
Power Requirement & Source	3000 kVA - Tamil Nadu Generation & Distribution Corporation Limited (TANGEDCO)
Solid Waste Generation, Treatment And Management.	Total Solid Waste Generation – 343 Kg/Day segregated and handed over to Municipal Corporation

During the site visit the sub-committee noted the following:


1. The committee noted that the IT Tower is under construction and not yet operational. The PP had started construction at site during February 2019.
2. IT Park had been constructed with G+10 Floors (height of 51m) with a plot area of 32,376 m<sup>2</sup> and a built-up area of 23,675.03 m<sup>2</sup> whose final finishing works are being carried out with 94% of construction being completed. The expected date of completion of ELCOT IT Park will be 31<sup>st</sup> July, 2023.
3. Sewage Treatment Plant, laying of internal roads, DG Set and Compound wall works have been completed whereas Green Belt Development works and Rain

  
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Water Harvesting pits are being carried out. The installation of solar panels is completed initially for the stretch of 300m.

4. The PP has informed that total water requirement of 80 KLD which will be met from CMWSSB through pipeline from existing line about 800m away.
5. Sewage collection chambers from each floor has been constructed which directs the entire sewage collected to STP Plant which is developed as per the location earmarked in the layout.
6. STP Plant of 130 KLD is developed at site and planned to be handed over for 5 years O&M. The treated water will be reused for flushing & Green belt activities.
7. The total power requirement of 3000 kVA will be sourced from Tamil Nadu Generation and Distribution Corporation Limited (TANGEDCO) by EB substation within the scheme earmarked in the layout. Backup DG set of 2 Nos. having capacity 1010 kVA have been installed at site with stack height of 53m from ground level.
8. The energy savings of 58% is planned with 50% of roof coverage amounting to 694 solar panels on terrace and balance on the 2.3km long footpath canopy.
9. The PP has informed that municipal solid waste generation within the tower will be segregated and handed over to Municipal Corporation.
10. A greenbelt of 15.1% amounting to 4,856.4 m<sup>2</sup> is planned with about 500 trees in which 200 saplings are planted at site and the balance are yet to be planted.
11. PP stated on completion of construction activities, forest department representative will be visiting the site to analyzing the soil characteristics based on which suitable species will be suggested for further plantation in ELCO-SEZ area.
12. Rainwater recharge pits have been planned at the plot and the excess storm water will be drain into a common pond opposite to the IT Tower which is being developed by ELCOT.
13. ELCOT-SEZ area comprises OSR area of about 142758 m<sup>2</sup> (Park 1 to 5) already allotted along the SEZ Master plan. It is not included in the present activity of

  
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ELCOT area also is not taken in the greenbelt account shown for the project. PP informed that about 55% of OSR work have been completed.

14. The Damage assessment for the violation is calculated based on SEAC minutes, CPCB Air Quality Index for National Capital Region (NCR) and CPCB Environmental compensation formula which amounts to 49.55 Lakhs, 10 Lakhs and 99.61 Lakhs respectively in addition to Corporate Environmental Responsibility (CER) of 1% of the project cost amounting to 98 Lakhs.
15. During the site visit, the PP informed that CMDA approval for the project is under process and acknowledgement letter & fees details are submitted as proof.
16. The Airport Authority of India NOC was obtained by ELCOT Sholinganallur from the authorities.
17. The construction waste is utilized within site for levelling purposes and top soil is used for greenbelt development.
18. The construction workers are provided with Personal protective equipment (PPE), mobile toilets and necessary first aid facilities.

During the site visit the following questions were raised by the sub-committee and the clarifications provided by the project proponent and consultant are enumerated below

S.No	Queries	Clarifications												
1	ELCOT-SEZ area comprises OSR area of about 1,42,758 m <sup>2</sup> (Park 1 to 5) already allotted along the SEZ Master plan	PP informed that about 55% of OSR work have been completed. Overall master plan layout is enclosed in Annexure – I of site inspection report.												
		<table border="1"> <thead> <tr> <th>S.NO</th> <th>Description</th> <th>Area (Sq.m)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OSR AREA – I</td> <td>75,634.00</td> </tr> <tr> <td>2</td> <td>OSR AREA - II</td> <td>20,512</td> </tr> <tr> <td>3</td> <td>OSR AREA – III</td> <td>30,588</td> </tr> </tbody> </table>	S.NO	Description	Area (Sq.m)	1	OSR AREA – I	75,634.00	2	OSR AREA - II	20,512	3	OSR AREA – III	30,588
S.NO	Description	Area (Sq.m)												
1	OSR AREA – I	75,634.00												
2	OSR AREA - II	20,512												
3	OSR AREA – III	30,588												

		4	OSR AREA – IV	11,957
		5	OSR AREA – V	4,067
		Total Area		1,42,758
2	NOC from Airport Authority of India	Copy of Airport Authority of India NOC is enclosed as Annexure – II of site inspection report.		
3	CMDA payment Letter	Copy of CMDA payment letter is enclosed as Annexure – III of site inspection report.		
4	ELCO-SEZ Sholinganallur Building height	Building Height of the ELCO- SEZ is 51m		
5	Percentage completion details of IT Park	In the ELCO-SEZ IT Tower 94 % of the work was completed.		
6	Tentative timeline for the overall IT park completion	Tentative completion date for ELCO-SEZ IT Tower is 31.07.2023		
7	During construction phase no of employees details per day	During construction phase no of employee's not excited 100 number the details is attached in Annexure – IV of site inspection report.		
8	Evidence for the Construction starting date	Construction initiated in 14-02-2019. Site handed over letter attached in Annexure – V of site inspection report.		
9	Details Construction debris	Construction Debris used for Leveling within the ELCOSEZ –IT area.		

  
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10	Total population Shollinganallur Taluk	According to 2011 census of India, Total Shollinganallur population is 5, 63,342 people are living in this Taluk.
11	A greenbelt of 15.1% amounting to 4,856.4 m <sup>2</sup> is planned with about 500 trees	200 saplings are planted at site and the balance are yet to be planted.
12	Nearby school details	Government Higher Secondary School, Rajiv Gandhi salai, Shollinganallur (1.5 km).
13	During Construction phase safety and sanitation facilities provided	During construction phase Mobile toilet, Helmet, first aid kit and Hearing protection are provided.

#### Nature of Violation

As per the MoEF&CC notification, the sub-committee has assessed the project based on Ecological damage, remediation plan and natural & community resource augmentation plan furnished as an independent chapter in the Environmental Impact Assessment Report. The extract from the report is as follows:

The project falls under the **Low-Level Ecological Damage Category**

- Procedural Violation (Started the Construction at the site without obtaining EC).
- No Infrastructural Violation such as Deviation from CMDA/Local Body approval.
- Not occupied.

1	Main building	G+10 floors	---
2	Occupancy		Not occupied
3	DG Sets	1010 KVA (2 Nos)	---
4	Sewage Treatment Plant	130KLD	---

  
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5	Rain water harvesting system	Rainwater 30 nos recharge Pits around the building	----
6	Green belt Development	Area of 4,856.4 sq.m. (15.1%) is planted with 200 saplings	300 trees
7	Parking	Car – 318 Nos Two-Wheeler – 1050 Nos	----

### CONCLUSIONS:


As the Proposal falls in Low Level Ecological Damage and EMP measures were in place during the Violation Period, the Sub-Committee is of the opinion that the higher Environmental Compensation value has been arrived based on the CPCB Violation Norms is Rs. 1,60,00,000/- which is higher than Environmental Compensation values of Rs. 49,11,000/- based on the EIA model prepared by the EIA coordinator and hence it must be compensated for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan as follows:

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	40,00,000
2	Natural Resource Augmentation Plan	40,00,000
3	Community Resource Augmentation Plan	80,00,000
<b>Grand Total</b>		<b>1,60,00,000</b>

Accordingly, the amount prescribed for Ecological remediation augmentation, community resource augmentation, may be calculated and applied as per SEAC norms.

### RECOMMENDATIONS:

Based on the report submitted by the Sub-Committee and after deliberations, the SEAC have decided to recommend the proposal for grant of Environmental Clearance under Violation category subject to outcome of the Interim Order stayed the SoP which 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, dated 15<sup>th</sup> July 2021, and however it shall adhere to the following conditions in addition to the normal conditions:

  
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1. As the SoP, issued by the MOEF&CC, for considering violation cases is under stay by the Hon'ble Madurai Bench of Madras High Court, SEIAA may obtain an affidavit from the PP that the decision is without prejudice to the outcome of the W.P.(MD) No. 11757 of 2021 and the PP shall abide by the judgement in the writ petition and face the consequences if any. Further, as an abundant precaution, SEIAA may get the consent of the Hon'ble High Court by filing a clarification petition.
2. The amount prescribed for Ecological remediation (Rs. 40 lakhs), natural resource augmentation (Rs. 40 lakhs) & community resource augmentation (Rs. 80 lakhs), totaling Rs. 1,60,00,000/= shall be remitted in the form of bank guarantee to Tamil Nadu Pollution Control board, before obtaining Environmental Clearance and submit the acknowledgement of the same to SEIAA-TN. The funds should be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated below:

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	40,00,000
2	Natural Resource Augmentation Plan	40,00,000
3	Community Resource Augmentation Plan	80,00,000
<b>Grand Total</b>		<b>1,60,00,000</b>

**Remediation Plan for Environmental Attributes**

Environment Component	Remediation measures for environmental damage	Total (in Rs.) Amount to be spent within one year from the date of issue of EC.
Air Environment	Installation of solar lights for the street lights in Perumbakkam village	20,00,000

  
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	Rain water harvesting pit in Perumbakkam & Sholinganallur villages	10,00,000
Soil Environment	Provide organic fertilizer to Gram Panchayat to increase the soil fertility (Perumbakkam)	10,00,000
<b>Grand Total</b>		<b>40,00,000</b>

**Natural Resource Augmentation plan along with action plan**

Environmental components	Natural Resource Augmentation	Total (in Rs.) Amount to be spent within one year from the date of issue of EC.
Water Environment	Rejuvenation of Water Body and Pond conversion opposite to the project site	30,00,000
Land Environment	Collection of Biodegradable waste and provision organic waste converter (Perumbakkam)	10,00,000
<b>Grand Total</b>		<b>40,00,000</b>

**Community resources development plan**


Environmental Component	Community Resource Development	Total (in Rs.) Amount to be spent within one year from the date of issue of EC.
To construct a Blue Green	Main structure	45,00,000
		80,00,000

  
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Centre at Guindy Children's Park, Chennai in creating a knowledge Centre for the community.	Restroom (4 units)	6,50,000	
	Water treatment system	4,50,000	
	Fencing	3,80,000	
	Landscaping	8,00,000	
	Coordinator (1 year)	7,00,000	
	Maintenance (1 year)	3,60,000	
<b>Grand Total</b>			<b>80,00,000</b>

3. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year from the date of issue of EC. If not the bank guarantee will be forfeited to TNPCB without further notice.
4. The proponent shall obtain the consent letter as on date from the person who has given the power of attorney for the land to execute the project before obtaining EC.
5. The PP shall plant 500 number of trees shall be planted as green belt & compensatory afforestation before obtaining CTO from TNPCB.
6. The proponent is directed to provide the acoustic enclosure for the blowers in the existing STP before obtaining EC.
7. The proponent should furnish the following certificates before obtaining the CTO from the TNPCB:
  8. Certificate for structural safety from Anna University-Dept of Civil Engineering, CEG Campus, Chennai (or) IIT Madras (or) NIT Trichy.
  9. Adequacy report of STP from any of these institutions - Anna University-Centre for Environmental Studies, CEG Campus, Chennai / IIT Madras / NIT Trichy.
10. The proponent shall obtain fresh water supply commitment letter and disposal of


  
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excess treated sewage from local body before obtaining CTO.

11. The proponent shall provide solar panels covering 40% of terrace area as committed.
12. The project proponent shall provide sewage treatment plant 130 KLD and treated water shall be utilized for flushing and green belt proposed. The excess treated water shall be utilized for Avenue plantation after obtain necessary permission from local body.
13. The proponent shall provide adequate organic waste disposal facility such as organic waste convertor waste within project site as committed and non-Biodegradable waste to authorized recyclers as committed.
14. The height of the stacks of DG sets shall be provided as per the CPCB norms.
15. The project proponent shall submit structural stability certificate from any of these reputed institutions - IIT Madras, NIT/Trichy, Anna University Chennai-CEG Campus to TNPCB before obtaining CTO.
16. 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 be let out of the premise.
17. 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.
18. The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.
19. 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. 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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20. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted in proper espacement 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
21. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
22. 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.
23. 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.
24. No waste of any type to be disposed off in any other way other than the approved one.
25. 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.
26. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.
27. 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.
28. 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.
29. Solar energy should be at least 10% of total energy utilization. Application of solar

  
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energy should be utilized maximum for illumination of common areas, street lighting etc.

30. 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.
31. 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 include demolishing plan & its mitigation measures in the EMP and adhere the same as committed.
32. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of section 19 of the Environment (Protection) Ac. 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
33. The proponent shall furnish the detail about the built-up area for all the buildings with floor wise to TNPCB every year along with the compliance report for the Environmental Clearance.
34. Any violations and subsequent suitable action may be decided by SEIAA, as deemed appropriate, if arises.

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## ANNEXURE-I

1. Since the R.F is located very close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in two to three rows) along the boundary of the mine lease area before obtaining the CTO from the TNPCB.
2. The proponent shall construct and maintain proper fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forest before the commencement of the operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
3. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate dumps positioned in opposite direction to the location of the reserved forest.
4. The PP shall ensure that such waste/reject dumps shall be properly secured to prevent escape of material there from in harmful quantities which may cause degradation of environment and to prevent causation of floods.
5. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
6. The PP shall take necessary steps that wherever possible, the waste rock, overburden etc. shall be back-filled into the mine excavations with a view to restoring the land to its original use as far as possible.
7. Wherever back-filling of waste rock in the area excavated during mining operations is not feasible, the PP shall take adequate steps in discussion with the concerned DFO to suitably terrace the waste dumps ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
8. The PP shall carry out the scientific investigations in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.
9. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive

  
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materials/chemicals. Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.

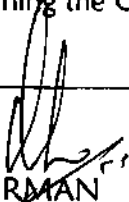
10. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying operations within 'Permissible Limits' specified under the environmental laws.
11. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.
12. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry out the quarrying on steep hill slopes with a gradient of 20° or more or areas with a high degree of erosion on forestland.
13. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco- sensitive Zone of 60 m without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.
14. The PP shall not use plastic carry bags within the quarry area.
15. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free from blockage for runoff disposals. This run off from the road side drainage shall relate to the natural drainage system in the area.
16. The PP shall adhere to the provisions of the MoEF had issued Notification No. S.O. 1545 dated 25th June 2009 regulating certain activities in the eco-sensitive zone to conserve and protect the reserved forest area from ecological and environmental point of view.

**CRANFIELD EARTH & PEPPER QUARRY - GENERAL CONDITIONS**

1. The proponent shall mandatorily appoint the statutory competent persons and commence the quarry operations within the purview of Mines Act 1952.
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.

  
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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. No change in basic mining proposal shall 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. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. **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.

11. 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.
12. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
13. 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.
14. 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.
15. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
16. The project proponent shall ensure that the provisions of the MMDR Act, 1957, 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.
17. 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) by the proponent without fail.
18. 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

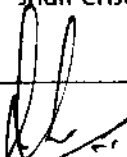
Project Proponent liable for legal action in accordance with Environment and Mining Laws.

19. 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.
20. 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.
21. 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.
22. 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.
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 EMP furnished.

- 1) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 2) 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.
- 3) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 4) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry including all the contractual

  
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employees/truck drivers shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy / Salem / Hosur.

- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) The proponent shall install 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 showing the same before obtaining the CTO from TNPCB.
- 8) The Proponent shall submit a conceptual 'Slope Stability Action Plan' incorporating the benches & accessible haul road approved by the concerned AD (Mines) for the proposed quarry to the DEE/TNPCB at the time of obtaining the CTO.
- 9) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are undergoing the initial/periodical medical examination in the DGMS approved OHS Clinics/Hospitals as per the DGMS Circular No. 01 of 2011 before they are engaged in mining activities.
- 10) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are provided with adequate PPEs before engaged in mining operations.
- 11) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.



- 12) 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 should be adopted by considering the wind direction.
- 13) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 14) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 15) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 16) Perennial sprinkling arrangements 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.
- 17) 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 are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 18) 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.
- 19) 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. 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.
- 20) 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.

- 21) **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. (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 22) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 23) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 24) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 25) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 26) The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 27) 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 as per the Environmental Management Plan & the approved Mine Closure Plan.

- 28) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 29) 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.
- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) 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.
- 32) 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.
- 33) 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.
- 34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & 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.
- 35) 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.

- 36) 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.
- 37) 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.
- 38) 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.
- 39) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 40) 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.
- 41) 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 to the EMP as committed.

**SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED IN CLOSE PROXIMITY TO THE WINDMILLS**

<b>S.</b>	<b>Existing (or) Virgin Quarry</b>	
<b>No</b>	<b>Wind Mills located at a distance of 150 m to 300 m</b>	<b>Wind Mills located beyond 300 m Up to 500 m</b>

  
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1.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.
2.	Special precautions are to be taken during blasting within danger zone such as posting guards, etc.	Blast design parameters should be mentioned in mining plan/scheme. and may be reviewed by a competent mining engineer.
3.	Blast design parameters should be mentioned in mining plan/scheme.	MCPD and total charge should be fixed such that it should not exceed 1.3 kg and 26.50 kg respectively.
4.	The recommendations of scientific organisation need to be incorporated in the mining plan/scheme before its approval.	Fresh scientific study may be conducted if mine management wants to increase the MCPD and total explosive charge above the quantity of 1.30 kg and 26.50 kg respectively. Continuous monitoring using seismograph should also be done in such cases by the mine management.
5.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.
6.	Training of the blasting crew on controlled blasting practices before engaged in operation.	Training of the blasting crew on controlled blasting practices before engaged in operation.
7.	Submission of monthly report on blast design pattern and detailed explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, PESO or SPCB.	Submission of monthly report on blast design pattern and detailed explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, SPCB. Report of recorded ground vibration need to be added in monthly report.
8.	Report of recorded ground vibration need to be added in monthly report which shall be sent to all the statutory body viz. DGMS, DMG, SPCB.	Report of recorded ground vibration need to be added in monthly report which shall be sent to all the statutory body viz. DGMS, DMG, SPCB.

9.	Small diameter emulsion cartridge of 25 mm diameter (125 gm weight per cartridge) shall be used. However, ANFO explosives may also be used as main explosive charge.	Small diameter emulsion cartridge of 25 mm diameter (125 gm weight per cartridge) shall be used. However, ANFO explosives may also be used as main explosive charge.
10.	Electronic (or) Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.	Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.
11.	Max. number of holes in a round: 30.	Max. number of holes in a round: 40 to 60.


  
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### TERMS OF REFERENCE (ToR) FOR GRANITE / ROUGH STONE QUARRY

1. In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following:
  - (i) Original pit dimension
  - (ii) Quantity achieved Vs EC Approved Quantity
  - (iii) Balance Quantity as per Mineable Reserve calculated.
  - (iv) Mined out Depth as on date Vs EC Permitted depth
  - (v) Details of illegal/illicit mining
  - (vi) Violation in the quarry during the past working.
  - (vii) Quantity of material mined out outside the mine lease area
  - (viii) Condition of Safety zone/benches
  - (ix) Revised/Modified Mining Plan showing the benches of not exceeding 6 m height and ultimate depth of not exceeding 50m.
2. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m 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 with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, 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.
5. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
6. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.


7. 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 the PP shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC.
8. However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
9. 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.
10. 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.
11. 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.
12. 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.
13. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
14. Quantity of minerals mined out.
  - Highest production achieved in any one year

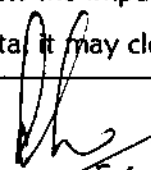
  
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- Detail of approved depth of mining.
  - Actual depth of the mining achieved earlier.
  - Name of the person already mined in that leases area.
  - If EC and CTO already obtained, the copy of the same shall be submitted.
  - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
15. 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).
  16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc..
  17. 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.
  18. 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.
  19. 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 the 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.
  20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of groundwater 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


  
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be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.

21. 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.
22. 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.
23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
24. 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.
25. 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.
26. 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.
27. 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.
28. Impact on local transport infrastructure due to the Project should be indicated.


29. 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.
30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
31. 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.
32. 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. 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.
33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly 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
34. 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.
35. 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.
36. 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

  
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incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

37. 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.
38. 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.
39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
40. 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.
41. 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.
42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
43. 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.

  
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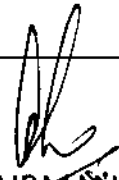
  
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## Annexure II

1. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc as per National Building Code including protection measures from lightning etc.
3. 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.
4. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
5. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
6. The project proponent shall obtain the necessary permission for drawing of ground water / surface water required for the project from the competent authority.
7. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department and Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.

  
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10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
3. The project proponent shall install a system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM25) covering upwind and downwind directions during the construction period.
4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
5. Sand, murrum, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.
6. Wet jet shall be provided for grinding and stone cutting.
7. Unpaved surfaces and loose soil should be adequately sprinkled with water to suppress dust.
8. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
9. The diesel generator sets to be used during construction phase shall be low Sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.


  
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10. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
11. For indoor air quality the ventilation provisions as per National Building Code of India.

1. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.
2. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
3. Total freshwater use shall not exceed the proposed requirement as provided in the project details.
4. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).
5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
6. At least 20% of the open spaces as required by the local building byelaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.

  
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7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation car washing, thermal cooling, conditioning etc. shall be done.
8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
9. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
11. The local bye-law provisions on rainwater harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rainwater harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
12. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total freshwater requirement shall be provided. In areas where ground water recharging is not feasible, the rainwater should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
13. All recharges should be limited to shallow aquifer.
14. No ground water shall be used during construction phase of the project.
15. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
16. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).


  
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17. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, not related water shall be disposed into municipal drain.
18. No sewage or untreated effluent water would be discharged through storm water drains.
19. Onsite sewage treatment of capacity of treating 100% wastewater to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated wastewater shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be taken to mitigate the odor problem from STP.
21. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Centre Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

1. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
2. Noise level survey shall be carried out as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of Half Yearly Compliance Report (HYCR).
3. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

  
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1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
2. Outdoor and common area lighting shall be LED.
3. The proponent shall provide solar panels covering a minimum of 50% of terrace area as committed.
4. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
5. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
6. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building byelaws requirement, whichever is higher.
7. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building byelaws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
2. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions

  
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for general safety and health aspects of people, only in approved sites with the approval of competent authority.

3. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
6. Any hazardous waste generated during construction phase shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
7. Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.
8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September 1999 and amended from time to time. Ready mixed concrete must be used in building construction.
9. Any wastes from construction and demolition activities related thereto shall be managed to strictly conform to the Construction and Demolition Rules, 2016.
10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

1. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
2. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should

include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.

3. Where the trees need to be cut with prior permission from the concerned local authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
4. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
5. A wide range of indigenous plant species should be planted as given in the Appendix-I, in consultation with the Government Forest/Horticulture Departments and State Agriculture University.

1. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
  - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
  - b. Traffic calming measures.
  - c. Proper design of entry and exit points.
  - d. Parking norms as per local regulation.
2. Vehicles hired to bring construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
3. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the

project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.


1. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
2. For indoor air quality the ventilation provisions as per National Building Code of India.
3. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
4. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
5. Occupational health surveillance of the workers shall be done on a regular basis.
6. A First Aid Room shall be provided in the project both during construction and operations of the project.

1. The PP shall complete the CER activities, as committed, before obtaining CTE.
2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife

norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of Half Yearly Compliance Report (HYCR).

3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Half Yearly Compliance Report (HYCR).

1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in Tamil language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.
3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4. The project proponent shall submit Half Yearly Compliance Reports (HYCR) on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as

  
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prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

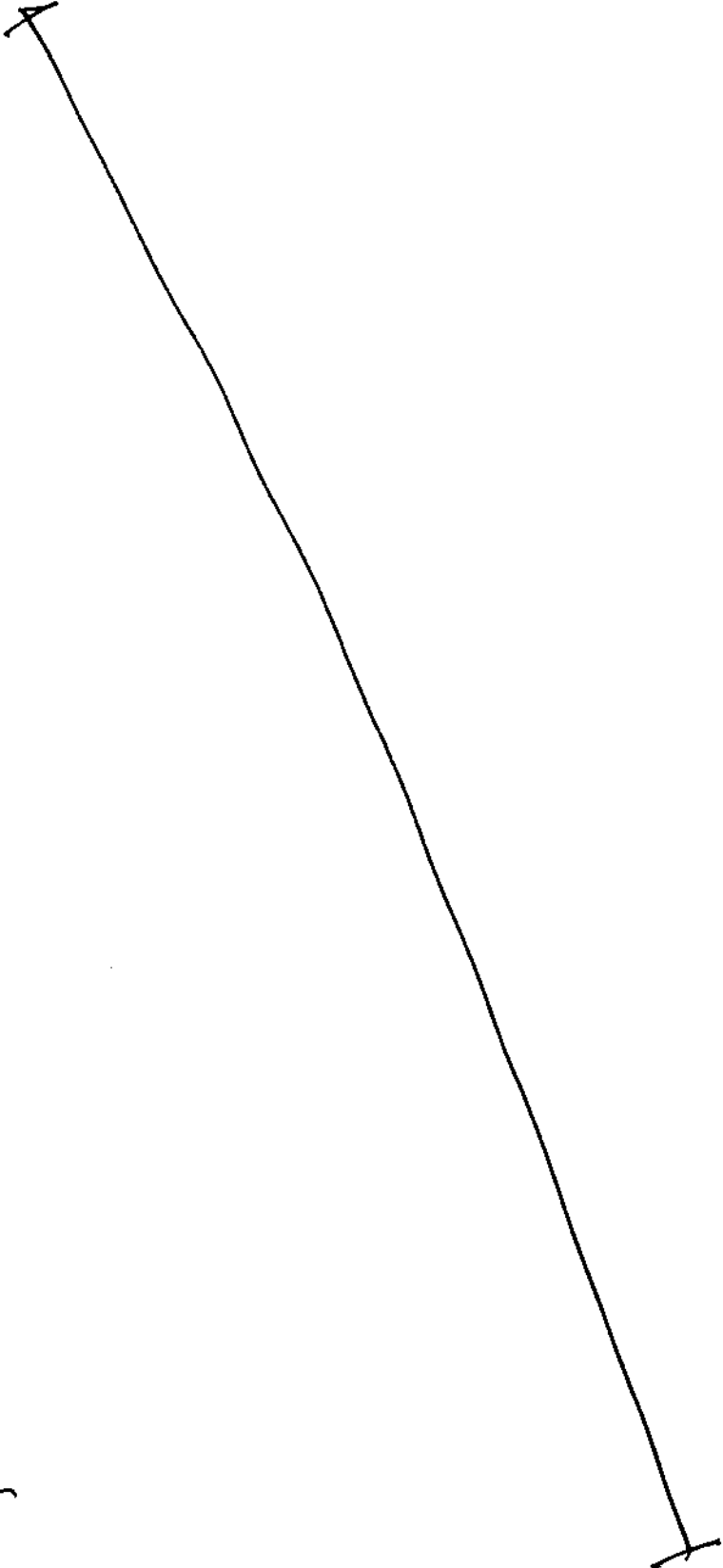
6. The project proponent shall inform the Authority (SEIAA) of the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
7. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
8. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also during their presentation to the State Expert Appraisal Committee.
9. No further expansion or modifications to the plant shall be carried out without prior approval of the Authority (SEIAA).
10. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11. The Authority (SEIAA) may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. The Authority reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.
13. The Regional Office of the MoEF&CC Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
14. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme

  
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Court of India / High Courts and any other Court of Law relating to the subject matter.



  
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## ANNEXURE III

**Standard Terms of Reference (ToR) for EA/EMP report for projects/activities requiring environment clearance 3(a): Standard Terms of Reference for conducting Environment Impact Assessment study for Metallurgical Industries (ferrous & non-ferrous) projects and information to be included in EA/EMP report**

### A. STANDARD TERMS OF REFERENCE (TOR)

- 1) Executive Summary
- 2) Introduction
  - i. Details of the EIA Consultant including NABET accreditation
  - ii. Information about the project proponent
  - iii. Importance and benefits of the project
- 3) Project Description
  - i. Cost of project and time of completion.
  - ii. Products with capacities for the proposed project.
  - iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
  - iv. List of raw materials required and their source along with mode of transportation.
  - v. Other chemicals and materials required with quantities and storage capacities
  - vi. Details of Emission, effluents, hazardous waste generation and their management.
  - vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
  - viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided
  - ix. Hazard identification and details of proposed safety systems.
  - x. Expansion/modernization proposals:
    - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of

the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing existing operation of the project from SPCB shall be attached with the EIA-EMP report.

- b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

#### 4) Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State.  
Justification for selecting the site, whether other sites were considered.
- ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale  
on an A3/A2 sheet. (Including all eco-sensitive areas and environmentally sensitive places)
- iii. Details with respect to option analysis for selection of site
- iv. GPS Co-ordinates of all four corners of the site.
- v. Google map-Earth downloaded of the project site.
- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Land use break-up of total land of the project site (identified and acquired), government/ private - agricultural, forest, wasteland, water bodies, settlements,

etc shall be included. (not required for industrial area)

ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area

x. Geological features and Geo-hydrological status of the study area shall be included.

xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)

xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.

xiii. R&R details in respect of land in line with state Government policy

5) Forest and wildlife related issues (if applicable):

i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)

ii. Land use map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha)

iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.

iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon

v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area

vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife

6) Environmental Status

i. Determination of atmospheric inversion level at the project site and site-

specific micrometeorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.

- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

#### 7) Impact and Environment Management Plan

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of

the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.

- ii. Water Quality modelling - in case of discharge in water body
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyorcum- rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
- v. Details of stack emission and action plan for control of emissions to meet standards.
- vi. Measures for fugitive emission control
- vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains

to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.

- xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.
- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

#### 8) Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre-placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above-mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved.
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

#### 9) Corporate Environment Policy

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- ii. Does the Environment Policy prescribe for standard operating process/ procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms /conditions? If so, it may be detailed in

the EIA.

- iii. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
- iv. Does the company have system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11. Enterprise Social Commitment (ESC)

- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

12. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

13. A tabular chart with index for points wise compliance of above TOR.

**B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR METALLURGICAL INDUSTRIES (FERROUS & NON-FERROUS)**

1. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs & outputs (material and energy balance).
2. Details on blast furnace/ open hearth furnace/ basic oxygen furnace/ladle refining, casting and rolling plants etc.
3. Details on installation/activation of opacity meters with recording with proper calibration system
4. Details on toxic metals including mercury, arsenic and fluoride emissions
5. Details on stack height requirement for integrated steel

6. Details on ash disposal and management -Non-ferrous metal
7. Complete process flow diagram describing production of lead/zinc/copper/ aluminium, etc.
8. Raw materials substitution or elimination
9. Details on smelting, thermal refining, melting, slag fuming, and Waelz kiln operation
10. Details on Holding and de-gassing of molten metal from primary and secondary aluminium, materials pre-treatment, and from melting and smelting of secondary aluminium
11. Details on solvent recycling
12. Details on precious metals recovery
13. Details on composition, generation and utilization of waste/fuel gases from coke oven plant and their utilization.
14. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
15. Trace metals Mercury, arsenic and fluoride emissions in the raw material.
16. Trace metals in waste material especially slag.
17. Plan for trace metal recovery
18. Trace metals in water


**C. ADDITIONAL TOR FOR INTEGRATED STEEL PLANT**

1. Iron ore/coal linkage documents along with the status of environmental clearance of iron ore and coal mines
2. Quantum of production of coal and iron ore from coal & iron ore mines and the projects they cater to. Mode of transportation to the plant and its impact
3. For Large ISPs, a 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
4. Recent land-use map based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quick bird, Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.
5. Respirable Suspended particulate matter (RSPM) present in the ambient air



must be analysed for source analysis - natural dust/RSPM generated from plant operations (trace elements). The RSPM shall also be analysed for presence of poly-aromatic hydrocarbons (PAH), i.e. Benzene soluble fraction, where applicable. Chemical characterization of RSPM and incorporating of RSPM data.

6. All stock piles will have to be on top of a stable liner to avoid leaching of materials to ground water.
7. Plan for the implementation of the recommendations made for the steel plants in the CREP guidelines.
8. Plan for slag utilization
9. Plan for utilization of energy in off gases (coke oven, blast furnace)
10. System of coke quenching adopted with justification.

  
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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	விவம்
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சளர், ஆனைக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாளை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murakkamaram	முருக்கமரம்
11	<i>Bobax esiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புனை
13	<i>Cassia fistula</i>	Sarakondrai	சரகண்டரை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கண்டரை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரசம் மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கோங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூலி
18	<i>Cretova adansoni</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சீறு உவா
21	<i>Diospyro sebenum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகளை
23	<i>Ficus amplissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றிப்பூக்க
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயில் மரம், ஆயிலி
27	<i>Lanea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் நெட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விளா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பின்பட்டை, பிச்சிப்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பழை
34	<i>Mimusops elengi</i>	Magizhamaram	மாழிமரம்
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	ஏச்சம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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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	விவம்பம்
2	<i>Adenanthera pavonina</i>	Manjadi	மஞ்சளம், ஆலாக்கொன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாளை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentos</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murakkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Pumai	புனை
13	<i>Cassia fistula</i>	Serakondrai	சரக்கொண்டை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொண்டை
15	<i>Chloroxylon swietenia</i>	Purasamaram	பூச மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கோங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூலி
18	<i>Creteoa adansoni</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சீரு உவா
21	<i>Diospyro sebenum</i>	Karungali	கரும்பாசி
22	<i>Diospyro schloroxylon</i>	Vagarai	வாகரை
23	<i>Ficus amplissima</i>	Kallitchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பூசக
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayih	ஆயிச மரம், ஆயிசி
27	<i>Lanea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விளா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பின்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழமரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனை
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனை
38	<i>Phoenix sylvestre</i>	Eachai	நச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Murnai	முள்ளை
41	<i>Premna serratifolia</i>	Narumurnai	50 முள்ளை
42	<i>Premna tomentosa</i>	Malaiipoovarasu	மலை பூங்க
43	<i>Prosopis cinerea</i>	Vanni maram	வள்ளி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேள்வாங்க
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கரிபலா
48	<i>Saurodora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிபுங்கன் சோபுகைய
50	<i>Saraca asoca</i>	Asoca	அசிசா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாள் கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்டி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேள் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தா வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூங்க
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கோடுக்காபுளி

  
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Appendix -III

Display Board

(Size 6' x5' with Blue Background and White Letters)

-----சுரங்கம்

சுரங்கங்களில் குவாரி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளன. SEIAW, தேதி: 15.11.15, சுற்றுச்சூழல் அனுமதி தேதி வரை செயலாக்கத்தாக உள்ளது.

பகலம் பகுதி வளர்ச்சி செயல்பாடுகளை அங்கீகரிக்கும் திட்டம்	குவாரியின் எல்லைமைச் சுற்றி வேலி அமைக்க வேண்டும்
	சுரங்கப்பகுதிகள் ஆழம் தளமாட்டத்திலிருந்து பீட்டர்சு மிஸாமல் இருக்க வேண்டும்
	சுரங்கம் பாதுகாப்பு எங்கள் பாதிக்களை வெட்டுவதற்கான வேண்டும்.
நட்டம் பராமரிக்கப்பட வேண்டிய அங்கம் எண்ணிக்கை:	வாகனங்கள் செல்லும் பாதையில் பாதுகாப்பு அளவிற்கு தளமீட்டல் முறையாக தளமீட்டல் வாரியலின் முயற்சி அங்கீகரிக்க வேண்டும்.
	இடைக்கால அளவையும் தூசி மாசுபாட்டையும் குறைப்பதற்காக குவாரியின் எல்லைமைச் சுற்றி அடர்த்தியான பகலம் பகுதியை ஏற்படுத்த வேண்டும்.
	சுரங்கத்தில் வெளியூடில் பால்களும் சிறு நீர்வாய்க்காலும் ஏற்படுத்த வேண்டும் மற்றும் அதன் பற்காலகாலும் பாதுகாப்பு நடவடிக்கைகள் உள்ளிட்ட செயல்படுத்தப்பட வேண்டும்.
சுரங்கத்தில் இருந்து ஏற்படும் இடைக்கால அளவு ES கே.சி.பி.எஸ் (SEA) அளவிற்கு மேல் ஏற்படுத்த வேண்டிய தகுந்த கட்டுப்பாடுகளை மேல் செய்ய வேண்டும்.	
சுரங்க வட்டி கீழ்க் கீழ்க் சுரங்கத்தில் உள்ள பாதிப்புகளுக்கு தகுந்த பாதுகாப்பு எடுக்க வளங்குவதற்கான காலகாலம் கட்டுப்பாடு வாரியலின் செயல்பாடு தர வேண்டும்.	
சுரங்கம் அல்லது பகுதியை வளங்க வளங்க செயல்பாடுகளால் வேலி பகுதி நடு பராமரிக்க வேண்டும்	
சுரங்கப்பகுதியில் அளவிற்கு உள்ள விவசாய பாதிக்க மற்றும் நீர்நிலைகள் பாதிக்கப்படக் கூடாது.	
நீர்நிலைகள் பாதிக்கப்படாமல் இருப்பது உறுதி செய்ய வேண்டிய நிலத்தை தீர்மானம் மேல் தீர்மானம் செய்ய வேண்டும்.	
சுரங்கத்திலிருந்து கிடைக்கும் செலவுகளை எடுத்துச் செல்லும் சிறிய மக்களுக்கு சந்தை சிறப்பிப்பதற்கு ஏற்படுத்த வேண்டிய பாதுகாப்பு மற்றும் சுற்றுச்சூழல் பாதிக்காத வளங்க வளங்களை இயங்க வேண்டும்.	
சுரங்கப்பகுதியின் முக்கிய இடங்கள் அங்கம் முட்டில் திட்டத்தில் உள்ளது அங்கத்திலே குடி வேண்டும்.	
சுரங்க நடவடிக்கைகளை முடிவின் கீழ் அங்கம் பகுதி மற்றும் அங்கம் நடவடிக்கைகளால் இடைக்கால ஏற்பட்ட கூடிய வேலி சந்தை பகுதியையும் மற்றும் மூலம் இயங்க செயல்பாடுகளால் கிடைக்காத ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வளங்கிய பாதிப்புகளை உருவாக்க வேண்டும்.	
முழுமையான நிபந்தனைகளை அறிய பாதிக்க ( <a href="http://parvesh.nic.in">http://parvesh.nic.in</a> ) என்ற இணையதளத்தைப் பார்க்கவும். மேலும் சுற்றுச்சூழல் சுற்றுச்சூழல் பகலம் செயல்பாட்டு செயல்பாட்டு மற்றும் வள அமைச்சரவரின் கருப்பினத்தை வட்டிய அலுவலகம்: 04 - 2822325 (அல்லது) குவிந்தோர் மாண. கட்டுப்பாடு வாரியலின் மாண. சுற்றுச்சூழல் செயல்பாடுகளை அனுப்பவும்.	

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