

State Expert Appraisal Committee (SEAC)

Minutes of 393rd meeting of the State Expert Appraisal Committee (SEAC) held on 20.07.2023 (Thursday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects.

Confirmation of Earlier Minutes

The minutes of the 392nd SEAC meeting held on 14.07.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 393 - 01

(File No: 10083/2023)

Proposed Rough stone Quarry over an extent of 3.70.0 Ha at SF. No. 457 (part-2) of Hosappuram Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Thiru. P. Venkata Reddy - For Terms of Reference. (SIA/TN/MIN/431072/2023, Dt. 27.05.2023)

The proposal was placed in the 393rd SEAC Meeting held on 20.07.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

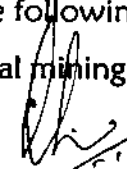
The SEAC noted the following:

1. The Project Proponent, Thiru. P. Venkata Reddy has applied for Terms of Reference for the Proposed Rough stone Quarry over an extent of 3.70.0Ha in SF.No. 457 (part-2) of Hosappuram Village, Denkanikottai 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. Prior EC issued by DEIAA vide Lr.No.21/DEIAA-KGI/ Ec.No.17/2018, Dated: 27.02.2018. 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.

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


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

1. The project proponent shall submit a Certified Compliance Report as per the MoEF&CC O.M dated.08.06.2022 for the previous EC dated.27.08.2018.
2. The PP shall furnish letter from AD, mines including the following details,
 - i. Existing pit dimension through precise mine surveying (DGPS)
 - 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 in the proposed quarry site
 - 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 as on date
3. The PP shall furnish a valid modified Mining Plan duly approved by the competent authority (AD –Mines) for an ultimate working depth of less than 50m BGL & Production / Development data for the remaining life of the project.
4. The PP shall furnish ownership details of all survey numbers in EIA report.
5. The PP shall submit the stability status of the existing quarry wall and slope stability action plan by carrying 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.

Agenda No: 393- 02

(File No: 10090/2023)

Proposed Rough stone quarry lease over an extent of 3.35.0Ha at SF.No. 588(Part) of Alur Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru. S. Prasanth Kumar - for Environmental Clearance. (SIA/TN/MIN/431139/2023, Dated: 27.05.2023)

The proposal was placed in 393rd meeting of SEAC held on 20.07.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:


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1. The Project Proponent, Thiru.S. Prasanth Kumar has applied for Environmental Clearance for the proposed Rough stone quarry lease over an extent of 3.35.0Ha at SF.No. 588(Part) of Alur Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Prior EC issued by DEIAA vide Lr.No.03/DEIAA-KGI/Ec.No.86/2018 Dated :27.08.2018.

Based on the presentation made by the proponent, SEAC noted that there are considerable number of poultry farm houses / structures and few habitations/dwellings within 300 m. Besides, the proposed quarrying site is also an elevated mound with agricultural activities all around. Hence, the Committee noted that the proposed rough stone quarrying operation in this area will also affect the waterflow direction & volume coming from such elevated places. Hence the Committee decided not to recommend the proposal.

Agenda No: 393-03

(File No: 10084/2023)

Proposed Fireclay quarry over an extent of 3.21.5 Ha at S. F. Nos. 336/4 (Part), 336/5, 336/8 & 336/9 (Part) of Therani Village, Alathur Taluk, Perambalur District, Tamil Nadu by Thiru. C. Senthil Kumar - For Terms of Reference. (SIA/TN/MIN/430996/2023 dt. 27.05.2023)

The proposal was placed for appraisal in this 393rd meeting of SEAC held on 20.07.2023. 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. C. Senthil Kumar has applied seeking Terms of Reference for the proposed Fireclay quarry over an extent of 3.21.5 Ha at S.F.Nos. 336/4 (Part), 336/5, 336/8 & 336/9 (Part) of Therani Village, Alathur Taluk, Perambalur 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 project proponent has obtained EC from DEIAA vide Lr.No.DEIAA-


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PBR/F.No.222/5(a)/EC.No.1/G&M/2018 dated. 23.07.18 with the validity of EC co-terminating with the mining lease period. Lease period is 10 years.

4. 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.

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, 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 till they obtain the EC granted by the SEIAA after the reappraisal process as per MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.
2. The project proponent shall submit a Certified Compliance Report as per the MoEF&CC O.M dated.08.06.2022 for the previous EC obtained from DEIAA, dated.23.07.2018.
3. The PP shall furnish letter from AD, mines including the following details,
 - i. Existing pit dimension through precise mine surveying (DGPS)
 - 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 in the proposed quarry site
 - 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 as on date
4. The PP shall furnish a valid modified Mining Plan duly approved by the competent authority (AD –Mines) for an ultimate working depth of less than 22.5 m BGL & Production / Development data for the remaining 5 years (from Sep 2023 to Sep 2028).

5. The PP shall furnish ownership details of all survey numbers in EIA report.

6. PP shall furnish the details of GAIL pipeline passing near the proposed site.

Agenda No: 393-04


(File No: 10098/2023)

Proposed Pebbles quarry lease area over an extent of 1.22.68 Ha at S.F.Nos. 16/1C3A, 16/1C3B, 16/3A2 & 16/3B of Sorapattu Village, Marakkanam Taluk, Viluppuram District, Tamil Nadu by Thiru. S. Panneerselvam - For Environmental Clearance. (SIA/TN/MIN/431453/2023, Dated: 30.05.2023)

The proposal was placed for appraisal in this 393rd meeting of SEAC held on 20.07.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

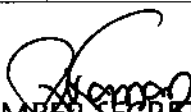
1. The project proponent, Thiru. S. Panneerselvam has applied for Environmental Clearance for the Proposed Pebbles quarry lease area over an extent of 1.22.68 Ha at S.F.Nos. 16/1C3A, 16/1C3B, 16/3A2 & 16/3B of Sorapattu Village, Marakkanam Taluk, Viluppuram District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. Earlier, the proponent has submitted an application in the PARIVESH Portal vide Proposal No. SIA/TN/MIN/416280/2023 dated.28.02.2023 for quarrying over an extent of 4.43.52 Ha. The proposal was submitted under 'B1' category since the total area of the cluster exceeded 5Ha (i.e., 7.89.52). But, hard copy of the application and fee details were not submitted at SEIAA-TN.
4. Now, due to economic constraints, the proponent has submitted a revised application vide SIA/TN/MIN/431453/2023 dated.30.05.2023 for quarrying in an extent of 1.22.68 Ha under 'B2' category.
5. The salient features of the project are as follows:

File No	10098 / 2023	Category	B2
Sl. No	Salient Features of the Proposal		


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1.	Name of the Owner/Firm	:	Thiru. S. Panneerselvam, S/o. Selvaraj, No.111, South Street, Kuzhanthaikuppam Village, Vanamadevi Post, Cuddalore District - 607 105.			
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Pebbles			
3.	S.F Nos. of the quarry site with area break-up	:	16/1C3A, 16/1C3B, 16/3A2 & 16/3B			
4.	Village in which situated	:	Sorapattu			
5.	Taluk in which situated	:	Marakkanam			
6.	District in which situated	:	Viluppuram			
7.	Extent of quarry (in ha.)	:	1.22.68 Ha			
8.	Latitude & Longitude of all corners of the quarry site	:	12°9'34.44"N to 12°9'39.08"N 79°49'30.77"E to 79°49'35.49"E			
9.	Topo Sheet No.	:	57-P/16			
10.	Type of mining	:	Opencast Semi Mechanized Mining			
11.	Life of Project	:	2 years			
	Lease Period	:	2 years			
	Mining Plan Period	:	2 years			
12.	Mining Plan Details	:	As per approved Mining Plan		As modified by SEAC	
	Geological Resources m ³ (RoM)	:	Pebbles	Earth	Pebbles	Earth
		:	19627 m ³	4907 m ³	19627 m ³	4907 m ³
	Minable Resources m ³ (RoM)	:	Pebbles	Earth	Pebbles	Earth
		:	14353 m ³	3589 m ³	12056 m ³	3015 m ³
Annual Peak Production in m ³	:	Pebbles	Earth	Pebbles	Earth	
:	:	8166 m ³	2042 m ³	6771 m ³	1693 m ³	
	Maximum Depth in meters	:	2m below ground level		2m below ground level	
13.	Depth of water table	:	20m-25m bgl			
14.	Man Power requirement per day:	:	6 Nos.			


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15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	2.0 KLD 0.5 KLD 0.5 KLD 0.5 KLD 0.5 KLD	
16.	Power requirement	:	3824 Liters of HSD	
17.	Precise area communication approved by Deputy Director, Department of G&M.	:	Na.Ka.No. B/G & M/61/2021, Dated:15.05.2023	
18.	Mining Plan approved by Deputy Director, Department of G&M.	:	Rc.No.B/G&M/61/2021, Dated: 24.05.2023	
19.	Department of G&M, Deputy Director 500m Cluster Letter	:	Rc.No.B/G&M/61/2021, Dated: 24.05.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 30.05.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 9,07,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m ³	Pebbles 12056 m ³ Earth 3015 m ³
		:	Annual Max RoM in m ³	6771 m ³ 1693 m ³
		:	Max Depth in mtrs	2m bgl
23.	EMP cost (in Rs. Lakh).	:	Capital Cost: Rs.2.79 Lakhs Recurring Cost: Rs.1.04 Lakhs	
24.	CER cost (in Rs. Lakh).	:	Rs. 2,00,000/-	

Based on the presentation and details furnished by the project proponent, SEAC decided to recommend the proposal for grant of Environmental Clearance for the annual peak production not exceeding 6771m³ of pebbles & 1693m³ of earth, subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


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1. The prior Environmental Clearance granted for this mining project shall be valid for the project life of two years from the date of lease execution.
2. Tree plantation & fencing around the mine lease area shall be completed before starting the production.
3. The proponent shall withdraw the pending ToR application SIA/TN/MIN/416280/2023 from PARIVESH Portal.
4. As accepted by the Project proponent, the CER cost is Rs.2 Lakhs and the amount shall be spent for the committed activities towards Panchayat Union Middle School, Sorapattu Village before obtaining CTO from TNPCB.

Agenda No: 393-05

(File No: 9549/2022)

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

The proposal was placed in the 393rd SEAC Meeting held on 20.07.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. Everking Granites has applied for Terms of Reference for the existing Grey Granite Quarry lease over an extent of 3.19.5 Ha at S.F.Nos. 347/1, 347/2, 347/4, 347/5, 348/4, 348/5, 348/6B1, 348/6C & 348/6D1 of Jagadevipalayam Village, Bargur Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was issued vide DEIAA Lr. No. 03/DEIAA-KGI/EC No.25/2018 Dt: 27.08.2018 for Grey Granite Quarry lease over an extent S.F.Nos. 347/1, 347/2, 347/4, 347/5, 348/4, 348/5, 348/6B1, 348/6C & 348/6D1 Jagadevipalayam Village, Bargur Taluk, Krishnagiri District, Tamil Nadu. The EC is valid upto 26.08.2023. The production as per the EC is 52,459m³ of Grey Granite upto the depth of 30m.
4. Validity of lease is upto 27.5.2038


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5. MoEF&CC Notification S.O. 221(E), Dt :18.01.2021.
6. MoEF&CC Notification S.O. 1807(E), Dt: 12.04.2022.
7. MoEF&CC O.M. Dt:13.12.2022.
8. MoEF&CC O.M dated.24.04.2023
9. The total production for the 5 years (2023-24 to 2027-28) is RoM: 1,00,413m³ which includes Grey Granite (30% recovery) - 30124 m³ & rejects (70%) upto the depth of 30m.
10. Earlier, the proposal was placed in 346th SEAC meeting held on 12.01.2023. During the meeting, the proponent stated that he had requested for an automatic extension as per the MoEF&CC notification dated 12.04.2022 and O.M dated 13.12.2022 and hence requested for the same.

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

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

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

11. Subsequently, it was placed in 591st Authority meeting held on 10.02.2023, and *the authority after detailed discussion decided that the automatic extension of validity of prior Environmental Clearance should be based on approval mining plan. Also, the project proponent has filed application seeking Terms of Reference (ToR) vide online proposal No.SIA/TN/MIN/404966/2022, dated: 04.11.2022 only and not for Extension validity of Environmental Clearance. In view of the above, SEIAA has decided to refer back the proposal to SEAC and SEAC is requested consider approved mining plan and to recommended approval of ToR.*


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12. It is again been placed in 361st SEAC meeting held on 10.03.2023. During the meeting the PP/EIA Co Ordinator stated that they would like to withdraw this proposal quoting with MOEF&CC O.M dated 13.12.2022. Hence, the SEAC has decided to defer the proposal and requested the SEIAA to take further action accordingly.
13. Subsequently, based on the MoEF&CC O.M dated.24.04.2023, the proponent vide letter dated.04.05.2023 requested to re-consider and process the ToR proposal.
14. In this regard, the proposal is again placed in this 393rd SEAC meeting held on 20.07.2023.

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, 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 till they obtain the EC granted by the SEIAA after the reappraisal process as per MoEF & CC OM F.No. IA3-22/11/2023-1A.III (E-208230), dated. 28.04.2023.
2. The project proponent shall submit a Certified Compliance Report as per the MoEF&CC O.M dated.08.06.2022 for the previous EC obtained from DEIAA.
3. The proponent shall furnish a letter obtained from AD/DD of Geology & Mining Department stating the following details:
 - 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 Mineral Rejects – Quantity & Place of location
 - vi. Any Violations observed in the quarry during the past working.
 - vii. Quantity of material mined out outside the mine lease area, if any
 - viii. Condition of Safety zone/benches as on date.


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Agenda No. 393 – 06.

File No. 10085/2023.

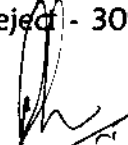
Existing Fire Clay Quarry lease over an extent of 4.13.5Ha S.F. Nos:434/1, 434/3(Part) & 435/1 Therani Village, Alathur Taluk, Perambalur District by Tvl. S.S. Minerals - For Terms of Reference. (SIA/TN/MIN/430948/2023, dt:27/05/2023)

The proposal was placed in the 393rd SEAC Meeting held on 20.07.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. Earlier, the PP has obtained Environmental Clearance from DEIAA vide Lr. No. DEIAA-PBR/F.No.222/5(b)/Ec.No./G&M/2018 Dt:23.07.2018 over an extent of 4.13.5Ha S.F. Nos:434/1, 434/3(Part) & 435/1 Therani Village, Alathur Taluk, Perambalur District, Tamil Nadu for the Fire Clay – 1,98,599 Tonnes & depth upto 13.5m.
2. Existing Pit Dimension letter from DD/AD (FAC) vide Rc.No. 203/G&M/2016 Dt:19.07.2023 reveals 3 nos. of Pits with depth upto 6m, 7.5m & 8.26m.
3. Transport permit letter from DD/AD (FAC) vide Rc.No. 203/G&M/2016 Dt:19.07.2023 & transport permit details from 08.0.10.2018 reveals that quantum of transport permit obtained for 1,03,500 Cu.m against the approved quantity of 1,02,060 Cu.m
4. MoEF&CC OM Dt:28.04.2023.
5. Now, the project proponent, Tvl. S. S. Minerals has applied for Terms of Reference for the existing Fire Clay Quarry lease over an extent of 4.13.5Ha S.F. No's:434/1, 434/3(Part) & 435/1 Therani Village, Alathur Taluk, Perambalur District, Tamil Nadu.
6. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
7. As per the precise area communication the lease period is for 10 Years (G.O. (2D) No.18. Dated:09.08.2018). The mining plan is for 5 years. The production for 5 years shall not to exceed 145800.5 Ts of RoM including 102060.315 Ts of Fire Clay (Recovery -70%) & 43740.135 Ts of Mineral Rejects (Reject - 30%). The


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mineable reserves of 145800.5 Ts of RoM including 102060.315 Ts of Fire Clay (Recovery 70%) & 43740.135 Ts of Mineral Rejects (Reject - 30%) and the ultimate depth of 18m.

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 till they obtain the EC granted by the SEIAA after the reappraisal process as per MoEF & CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.
2. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which include 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. 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
3. Details of any penalties levied on the PP for any violation in the quarry operation
4. The PP shall submit Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai and appropriate mitigating measures for the non-compliance items, if any.
5. The Project Proponent shall furnish the revised EMP for remaining life of the mine in the format prescribed by the SEAC.
6. The revised and corrected version of the Scheme of Mining duly approved by the competent authority, which includes the Production & Development Plan


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with showing the safety berm width of 2m is maintained for the bench height of 2m distinctly in the clay/gravel formation, shall be produced.

7. PP shall furnish the details of GAIL pipeline passing near the proposed site.

Agenda No. 393– 07.


File No. 10092/2023.

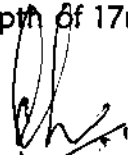
Existing Rough Stone Quarry lease over an extent of 2.19.5Ha S.F.No.1/22A, 1/23A, 1/24A, 1/25A & 1/26A, Ragimanapalli, SF.No.270/2A2B, 270/2C1A(P) & 270/2C1B, Kurubarapalli Village, Krishnagiri Taluk, Krishnagiri District by Thiru. S.K. Nawab - For Environmental Clearance. (SIA/TN/MIN/431146/2023, dt:27/05/2023)

The proposal was placed in the 393rd SEAC Meeting held on 20.07.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. Earlier, the PP has obtained Environmental Clearance from DEIAA vide Lr. No.3/DEIAA-KGI/EC.No.75/2018 Dt:27.08.2018 over an extent of 2.19.5Ha S.F.No.1/22A, 1/23A, 1/24A, 1/25A & 1/26A, Ragimanapalli, SF.No.270/2A2B, 270/2C1A(P) & 270/2C1B , Kurubarapalli Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu for the Rough Stone -72120 m³ & depth upto 17m depth (10m AGL & 7m BGL).
2. MoEF&CC OM Dt:28.04.2023.
3. The project proponent, Thiru. S. K. Nawab has applied for Environmental Clearance for the existing Rough Stone Quarry lease over an extent of 2.19.5Ha S.F.No.1/22A, 1/23A, 1/24A, 1/25A & 1/26A, Ragimanapalli, SF.No.270/2A2B, 270/2C1A(P) & 270/2C1B, Kurubarapalli Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu.
4. 500m Radius cluster from DD/Dept. of G&M Lr. 427.2017Mines Dt:26.05.2023.
5. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
6. As per the precise area communication the lease period is for 5 Years (16.03.2018). The mining plan (02.04.2018) is for 5 Years. The production for 5 years shall not to exceed 72120 m³ of Rough Stone and the depth of 17m (10m


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AGL & 7m BGL). The mineable reserves of 301380 m³ of Rough Stone and the ultimate depth of 42m (10m AGL & 32m BGL).

Based on the presentation and details furnished by the project proponent, SEAC decided to defer and call for additional particulars as follows

1. The proponent shall give an Affidavit before the issuance of ToR from SEIAA-TN stating that the mining operations will remain suspended till they obtain the EC granted by the SEIAA after the reappraisal process as per MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.
2. PP shall enumerate the details of structures within 100m, 200m and 300m from the proposed site.
2. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which include 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 submit Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai and appropriate mitigating measures for the non-compliance items, if any.
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 revised and corrected version of the Scheme of Mining duly approved by the competent authority, which includes the Production & Development Plan with showing the safety berm width of not less than 6m is maintained for the bench height of not less than 6m distinctly, shall be produced.
6. 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.

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.

Agenda No. 393 – 08.

File No. 10099/2023.

Existing Rough Stone & Gravel Quarry lease over an extent of 4.62.0Ha S.F.No.407/2A & 407/2B, Pachapalayam Village, Sular Taluk, Coimbatore District by N. Thangavelu - For Terms of Reference. (SIA/TN/MIN/429152/2023, dt:13/05/2023)

The proposal was placed in the 393rd SEAC Meeting held on 20.07.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. Earlier, the PP has obtained Environmental Clearance from SEIAA vide Lr. No. SEIAA-TN//F.No./5486/1(a)/ EC.No.3898/2016 Dt:05.06.2017 valid up to 04.06.2023 for the proposed Rough Stone & Gravel Quarry lease over an extent of 4.62.0Ha S.F.No.407/2A & 407/2B, Pachapalayam Village, Sular Taluk, Coimbatore District for the Rough Stone -53130 m³ & depth up to 17m.
2. Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC vide Lr. EP/12.1/2023-24/SEIAA/22/TN/731 Dt:15.06.2023.


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3. Existing pit details vide AD/Dept. of G&M Lr. 276/Mines/2022 Dt:07.07.2022 reveals that 3 Nos. of existing pits (Pit-1, Pit-2 & Pit-3) with pit depth of 8m,17m, & 2m respectively.
4. The project proponent, N. Thangavelu has applied for Terms of Reference for the Existing Rough Stone & Gravel Quarry lease over an extent of 4.62.0Ha S.F.No.407/2A & 407/2B, Pachapalayam Village, Suler Taluk, Coimbatore District, Tamil Nadu.
5. 500m Radius cluster from AD/Dept. of G&M Lr. 276/Mines/2022 Dt:07.07.2022 (Cluster Area (13.73 Ha).
6. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
7. As per the precise area communication the lease period is for 5 years. The mining plan is for 5years. The production for 5 years shall not to exceed 440285m³ of Rough Stone & 3372m³ of Gravel (existing dump) and the depth up to 40m 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 PP shall furnish mitigation measures for the non-compliance stated in the Certified Compliance Report (CCR) dt:15.06.2023.
2. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & upto 1km 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 habitations and school (1.27km) around the proposed mining area, 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 & mitigation measures adopted for fly rock and fugitive emission due vehicular movement/ transport route.


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4. The proponent shall furnish a revised EMP budget for entire life of proposed mining.

Agenda No. 393 – 09.

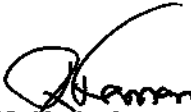
File No. 9550/2023.

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

Earlier, the proposal was placed in the 346th & 361st SEAC Meeting held on 12.01.2023 & 10.03.2023. Also, the proposal was placed in the 591st & 622nd SEIAA meeting held on 10.02.2023 & 26.05.2023 and refer backed to SEAC for the remarks stated therein. In this connection, the project proponent gave detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. Earlier, EC was issued vide DEIAA Lr. No. 03/DEIAA-KGI/EC No.104/2018 Dt: 27.08.2018 valid upto 26.08.2023 for Grey Granite Quarry lease over an extent 1.56.5 Ha at S.F.Nos. 353/2A1B, 2A7, 2B, 2C1 & 2E1A, Jagadevipalayam Village Bargur Taluk, Krishnagiri District, Tamil Nadu and production of 9374 Grey Granite & Ultimate depth upto 6m.
2. MoEF&CC OM vide F.No.IA3-22/11/2023-IA.III (E-208230) Dt: 28.04.2023.
3. The project proponent lr.dt 04.05.2023.
4. The project proponent, Thriu E. Jagadeesan has applied for Terms of Reference for the existing Grey Granite Quarry lease over an extent 1.56.5 Ha at S.F.Nos. 353/2A1B, 2A7, 2B, 2C1 & 2E1A, Jagadevipalayam Village Bargur Taluk, Krishnagiri District, Tamil Nadu.
5. 500m Radius cluster from AD/Dept. of G&M Lr. 276/Mines/2022 Dt:07.07.2022 (Cluster Area (13.73 Ha).
6. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
7. Hence, the total production for the first 5 years not to exceed RoM: 51764m³, Grey Granite (30% recovery) - 15529 m³, Granite Waste (70%) - 36235 m³,


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Topsoil - 1131m³ & Weathered Rock - 4484 m³ with the Ultimate depth shall not exceed 19m. The annual peak production shall not exceed 1040 m³(4th year).

The proposal was again placed in the 393rd SEAC Meeting held on 20.07.2023. 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 till they obtain the EC granted by the SEIAA after the reappraisal process as per MoEF & CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.
2. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which include 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.
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.


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4. The proponent shall furnish a revised EMP budget for entire life of proposed mining.

Agenda No: 393– 10.

(File No. 6672/2018)

Existing Limestone mine over an extent of 21.66.5 Ha at S.F. No. 631/9, Devannagoundanur Village, Sankari Taluk, Salem District, Tamil Nadu by M/s. Super Mines and Minerals -for Environmental Clearance. (Final EIA Report). (SIA/TN/MIN/37038/2018 Dt: 31.05.2019).

The project proponent gave detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, M/s. Super Mines and Minerals has applied for Environmental Clearance along with Final EIA Report for the existing Limestone mine over an extent of 21.66.5 Ha at S.F. No. 631/9, Devannagoundanur Village, Sankari Taluk, Salem 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. Earlier Environmental Clearance obtained Vide MoEF, Gol. Lr. No. J-11015/14/99-IA. II(M) Dt:19.05.2000 as per EIA notification, 1994 as amended for the production capacity of 15000 Tonnes/Annum of Lime Stone and total mine lease area is 21.12 ha.
4. Application for ToR vide online proposal No. SIA/TN/MIN/28302/2018 dated:1 8.07.2018 (Eligible for window period as per MoEF&CC notification Dt: 06.04.2018).
5. The ToR with public hearing for carrying out the EIA study issued vide SEIAA. Lr. No. SEIAA -TN/ F.No.6672/2018TOR-596/2019, Dt: 11.01.2019.
6. The project proponent has obtained Mining lease vide G.O.(3D). No.24, Industries (MMB-1) department Dated 23.03.1998 Mining lease was granted from 06.04.1998 to 05.04.2018 (for 20 years). The validity of the mining lease under the section 8A(6) of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 is valid upto 31.03.2018.


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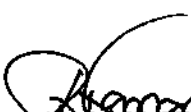
7. In the meanwhile, the project proponent has obtained the approved 'Review of Mining Plan' (including Progressive Mine closure plan) under Rule 16 of Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016, from Indian Bureau of Mines (IBM), (Ministry of Mines) vide Lr. TN/SLM/LST/ROMP/1495MDS Dt:24.05.2018 subject to extension of the validity of the mining lease by State Government as per MMDR Act, 2015 (Amended).
8. Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC vide Lr. EP/12.1/137/TN//16/Dt:07.02.2023.

Earlier, the proposal was again placed in 336th SEAC meeting held on 07.12.2022. Based on the presentation made and documents furnished by the project proponent, the SEAC decided to defer and to call for additional particulars as stated therein.

Subsequently, the proposal was placed in the 581st Authority meeting held on 22.12.2022. The authority after detailed discussion decided to call for the following additional particulars from the project proponent in addition to the said additional particulars sought by the SEAC as stated therein.

In this connection, the project proponent has furnished reply. The proposal was again placed for appraisal in 383rd meeting of SEAC held on 15.06.2023. During presentation the PP has requested to defer the proposal to submit the required details. Therefore, SEAC decided to defer the proposal.

Subsequently, the proposal was placed in the 633rd Authority meeting held on 26.06.2023 & 27.06.2023. The Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 15.06.2023. The proposal was again placed in the 393rd SEAC Meeting held on 20.07.2023. Based on the presentation and documents furnished by the PP, SEAC has noted that the PP has operated the quarry without obtaining EC (under EIA Notification, 2006) beyond the window period of 6 months, i.e. December 2018 (During period 2019 – 2022, the actual production is 7452 Tonnes/Annum) as per MoEF&CC notification Dt: 06.04.2018 till 2012 -2022 (RoC.No.199/2017/Mines-A Dated 20.06.2023).


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In view of the above, SEAC after detailed discussion concluded that this project falls under violation category as the PP had operated the mine after obtaining the ToR. Further, SEAC decided to defer and to call for additional details as follows.

- i) The PP & EIA coordinator shall submit Chapter 13 on assessment of ecological damage, remediation plan and natural and community resource augmentation plan.
- ii) Also, the PP & EIA coordinator shall furnish said chapter 13 as per CPCB guidelines.
- iii) Revised EMP cost for the life of the mine including cost evolved for said Chapter 13 (Assessment of ecological damage, Remediation plan and Natural and Community resource augmentation plan) along with progressive mine closure plan.

Based on the submission of the aforesaid details, the SEAC will decide the future course of action including the inspection by the Sub-Committee for assessing the ground realities.

Agenda No: 393-11


(File No: 10086/2023)

Expansion of Existing Billets manufacturing facility from 26,000 Tons per Annum to 2 Lakhs Tons per Annum at Plot No: B 13/N, B 13/S & B8/W2 of SIPCOT Industrial Complex & S.F. No. 336/13(Pt), 15(Pt), 12 (Pt), 14(Pt), 14B(Pt), 339/2A(Pt) and 347/1(Pt), 2(Pt) of Pappankuppam Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu by M/s. M Nellaiyah Rolling Mill Private Limited- For Terms of Reference. (SIA/TN/IND1/430030/2023, Dated: 29.05.2023)

The proposal was placed in 393rd SEAC meeting held on 20.07.2023. 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. M Nellaiyah Rolling Mill Private Limited has applied for Terms of Reference for the Expansion of Existing Billets manufacturing facility from 26,000 Tons per Annum to 2 Lakhs Tons per Annum at Plot No: B 13/N, B 13/S & B8/W2 of SIPCOT Industrial Complex & S.F. No. 336/13(Pt), 15(Pt), 12 (Pt), 14(Pt), 14B(Pt), 339/2A(Pt) and 347/1(Pt), 2(Pt) of Pappankuppam Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu. The Total Plot area is 23309.89 Sq.m.
2. The project/activity is covered under Category "B1" of Item 3(a) Metallurgical


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Industries (Ferrous & NonFerrous)” of the Schedule to the EIA Notification, 2006.

3. The proponent had obtained CTO for Expansion from TNPCB vide consent order no. 2207249601190 under Air Act and Consent Order No. 2207149601190 under Water Act Dated: 30.12.2022 for the saleable castings using Induction furnace (8T) with panel board capacities 4500 KVA with melting capacity of 27000 tons/annum to produce MS billets with production quantity of 26000 Tons/Annum validity up to 31.03.2028.
4. Pulicat Bird Sanctuary is located at 7.82km (N)

Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain following details from the PP.

1. The Committee noted that the data furnished by the Proponent is not consistent. For example,

S.No	Particulars	Existing	Proposed
1.	Production Capacity(T/A)	Billets-26,000	Billets-1,74,000
2.	Power Requirement(kVA)	4990	4800
3.	Furnace Capacity & Quantity	6T Induction furnace with 2 No's of crucibles and Coal fired reheating furnace	8T Induction furnace with 2 No's of crucibles

2. PP/EIA coordinator shall check the correctness of data and revise the data accordingly.
3. As per MoEF&CC OM FC-11/119/2020-FC Dated: 17.05.2022, the proposed site attracts NBWL clearance as per the provision contained in para 5 of the above mentioned OM. Hence, the proponent shall submit the acknowledgment of the application submitted in Parivesh Portal for NBWL clearance.
4. In addition to that, the Proponent shall submit the details regarding the number of Induction furnace to be used for this expansion and its capacity/Production.
5. The PP shall submit Efficiency study/report of the existing and proposed Induction furnace through reputed institution.
6. The Proponent shall submit the details about source of Raw materials to be


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used. If it is imported, shall furnish the details of its screening mechanism to avoid toxic materials & storage.

7. The PP shall furnish action plan for harnessing 50% solar energy or shall purchase 50% renewable green energy to meet the energy requirement.
8. The PP shall obtain fresh water supply commitment letter from the Competent authority.

On receipt of the above details, the SEAC would further deliberate on this project and decide the further course of action.

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

Agenda No: 393-12

(File No: 10093/2023)

Proposed Construction of Data Centre with Supportive GIS Substation at Ward B, Block 37, T.S.No. 19/2, 20/2 (Old S.F.Nos.158(pt), 159(pt), 160(pt), 174/1(pt), 174/2(pt)) of Ambattur Village, Ambattur Taluk, Chennai District, Tamil Nadu by M/s. Minerva Veritas Data Centre Private Limited- For Environmental Clearance. (SIA/TN/INFRA2/431276/2023, Dated:29/05/2023)

The proposal was placed in this 393rd SEAC meeting held on 20.07.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, M/s. Minerva Veritas Data Centre Private Limited has applied for Environmental Clearance under for the Proposed Construction of Data Centre with Supportive GIS Substation at Ward B, Block 37, T.S.No. 19/2, 20/2 (Old S.F.Nos.158(pt), 159(pt), 160(pt), 174/1(pt), 174/2(pt)) of Ambattur Village, Ambattur Taluk, 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. The proposed project is construction of Data Centre of Ground + 7 floors with supportive GIS Substation of Basement + Ground + 1st floor, Guard


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room 1 & 2 of Ground floor and Pump room of Basement + Ground floor with a total built-up area of 57,355.71 Sq.m and total land area is 16,229.46 Sq.m.

Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -

1. The environmental clearance is sought for proposed construction of Data Centre with supportive GIS substation at T.S.No. 19/2, 20/2 (Old SF. Nos. 158 (pt), 159 (pt), 160 (pt), 174/1(pt), 174/2 (pt)) of Ambattur Village, Ambattur Taluk, Chennai District, Tamil Nadu by the PP M/s Minerva Veritas Data Centre Private Limited.
2. M/s Right source Industrial Solutions Private Limited is the EIA Consultant for the project.
3. Total plot area of the project is 16,229.46 m² and built-up area is 58,185.71 m² respectively.
4. Maximum number of floors will be G+7 floors and maximum height of the building will be 59.1m.
5. Total Saleable DU's (dwelling units) is Nil.
6. The project proposal falls under Category-8(a) of EIA Notification, 2006 (as amended).
7. Salient features of the project as submitted by the project proponent:

PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	16,229.46	SQMT
2	Proposed Built Up Area	58,185.71	SQMT
3	Total no of Saleable DU's/Villas	Nil	No.
4	Max Height - (Height of tallest block)	59.1	M


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5	No of Building Blocks (Residential + Community facilities)	Data Centre Building of Ground + 7 Floors with supportive GIS substation of Basement + Ground + 1st Floor, Guard Room 1 & 2 of Ground Floor and Pump Room of Basement + Ground Floor	
6	Max No of Floors	G+7	No.
7	Expected Population (125 Data Centre + 25 Floating)	150	No.
8	Total Cost of Project	1,132.5	CR
9	Project Activity:	The proposed project comprises of construct Data Centre Building of Ground + 7 Floors with supportive GIS substation of Basement + Ground + 1st Floor, Guard room 1 & 2 of Ground Floor and Pump room of Basement + Ground Floor with total built-up area of 58,185.71 Sq.m.	
AREAS			
10	Permissible Ground Coverage Area (50%)	8,114.73	SQMT
11	Proposed Ground Coverage Area (43.74%)	7,099.187	SQMT
12	Permissible FSI Area (3.25)	52,745.74	SQMT
13	Proposed FSI Area (3.16)	51,253.32	SQMT
14	Other Non FSI Areas - including basement area etc.	6,932.39	SQMT
15	Proposed Total Built Up Area	58,185.71	SQMT

WATER			
16	Total Water Requirement	21	KLD
17	Fresh water requirement	15	KLD
18	Treated Water Requirement	6	KLD
19	Wastewater Generation	6	KLD
20	Proposed Capacity of STP	10	KLD
21	Treated Water Available for Reuse	6	KLD
22	Treated Water Recycled	6	KLD
23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	Nil	KLD
RAINWATER HARVESTING			
24	Rainwater Harvesting - Recharge Pits	6	No.
25	Rainwater Harvesting Sump Capacity	180	M ³
PARKING			
26	Total Parking Required as / Building Bye Laws	TW - 45 FW - 16	ECS
27	Proposed Total Parking	TW - 50, FW - 19	ECS
28	Parking in Basements	Nil	ECS
GREEN AREA			

29	Proposed Green Area (Minimum 15.0% of plot area)	2,581.93 (15.91%)	SQMT
	Total area	16,229.46	SQMT
	Existing trees on plot	Nil	No.
	Number of trees to be planted	100	No.
	Number of trees to be transplanted/cut	Nil	No.
SOLID WASTE MANAGEMENT			
30	Total Solid Waste Generation	0.03	TPD
31	Organic waste	0.012	TPD
32	Mode of Treatment & Disposal	Biodegradable waste (0.012 TPD) - Organic Waste Converter Non-biodegradable waste (0.018 TPD) - Authorized Recyclers	TPD
33	Quantity of Sludge Generated from STP & Disposal	STP - 1 (Manure for Green belt development)	KG/DAY
34	Quantity of E-Waste Generation & Disposal	1 (Disposed to TNPCB/CPCB authorized re-processors)	TPA
35	Quantity of Hazardous waste Generation & Disposal	5 (Disposed to TNPCB/CPCB authorized recyclers)	TPA
POWER / GREEN POWER			
34	Total Power Requirement	60	MVA
35	DG set backup	2,500	KVA
36	No of DG Sets	42	No.

37	Solar Panels - Roof Coverage	50	%
38	Hot Water Requirement Of which met by Solar Panels	Nil	KWHR

Population details:

POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION
Total Saleable Du's	-	-	Nil
Total	-	-	Nil
Non-Residential	-	-	Nil
CLUB house (Employees etc.)	Area	-	Nil
Club	-	-	Nil
Commercial (Data Centre)	-	-	125 Nos.
Facility Management Staff	-	-	Nil
Total	-	-	125 Nos.
Visitors			
Residential	-	xx% of Residential Population	Nil
Club/Community Hall	-	xx% of Residential Population	Nil
Commercial	-	-	25 Nos.
Total Visitors	-	-	25 Nos.
Total Population	-	-	150 Nos.
EMP Cost			Rs. 235 Lakhs (Capital Cost) Rs. 27 Lakhs (Operational Cost per Annum)
CER Cost			Rs. 12 Crores

Details of CER Activities: As committed by the PP.

RECOMMENDATION OF THE COMMITTEE

The Committee discussed the matter and recommended a grant of environmental clearance for the project proposal as above and subject to the standard conditions as per the Annexure II of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

Additional Conditions:

1. The construction shall comply with Green Building norms and shall get minimum IGBC Platinum rating.
2. The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the local body /Metro Water/TWAD.
3. The Proponent shall furnish the detailed report on emission, noise and vibration due to the operations of DG sets as proposed and the same shall be furnished to TNPCB before obtaining CTO and copy submitted to SEIAA-TN.
4. The PP shall furnish action plan for harnessing 50% solar energy or shall purchase 50% renewable green energy from TNEB to meet the energy requirement.
5. The PP shall ensure that at least 50% of the HVAC system runs on air cooling mechanism.
6. The PP shall adopt IGBC Net Zero Water System.
7. The proponent shall provide the solar canopies on the parking area as per the requirements at ground level.
8. The company shall have a well laid down environmental policy duly approved by the Board of Directors before obtaining EC.
9. The PP shall furnish NOC of Airport authority for Height Clearance (59.1m)
10. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
11. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with

parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.

12. Project proponent is advised to explore the possibility and getting the cement in a closed container rather through the plastic bag to prevent dust emissions at the time of loading/unloading.
13. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
14. The proponent should provide the sufficient electric vehicle charging points as per the requirements at ground level and allocate the safe and suitable place in the premises for the same.
15. The project proponent should develop green belt in the township as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms.
16. Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
17. Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF Lko/Director of Environment and other concerning authority regularly.
18. Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned authority.
19. The project proponent shall provide a measuring device for monitoring the various sources of water supply namely fresh water, treated waste water and harvested rain water.
20. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.

Agenda No: 393-13

(File No: 10100/2023)

Proposed Rough Stone and Gravel Quarry over an extent of 0.61.50 Ha at S.F.No. 14/1 of Sirukalambur Village, Vellore Taluk, Vellore District, Tamil Nadu by Tvl. Sri Murugan Traders, (Partner Thiru. P. Prabakaran) -For Environmental Clearance. (SIA/TN/MIN/430552/2023, Dated:26/05/2023).

The proposal was placed in this 393rd Meeting of SEAC held on 20.07.2023. 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, Tvl. Sri Murugan Traders, (Partner Thiru. P. Prabakaran) has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry over an extent of 0.61.50 Ha at S.F.No. 14/1 of Sirukalambur Village, Vellore Taluk, Vellore District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of Five years & production should not exceed 19,435 m³ of Rough Stone & 6,540 m³ of Gravel with an ultimate depth of mining 12m BGL.

During the meeting the Committee noted that the project proponent is absent during the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

Agenda No: 393-14

(File No: 10080/2023)

Proposed Fireclay lease over an extent of 2.21.5 Ha at S.F.Nos. S.F. Nos: 361/2(Part) & 361/3 Therani Village, Alathur Taluk, Perambalur District, Tamil Nadu by Thiru. C. Senthil Kumar, - For Terms of Reference. (SIA/TN/MIN/431156/2023 dated 27.05.2023)

The proposal is placed for appraisal in this 393rd meeting of SEAC held on 20.07.2023. The Project Proponent made a detailed presentation on the proposed project. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:


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1. The Project Proponent, Thiru. C. Senthil Kumar has applied seeking Terms of Reference for EIA study for the proposed Fireclay lease over an extent of 2.21.5Ha at S.F.Nos. 361/2(Part) & 361/3 Therani Village, Alathur Taluk, Perambalur Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.

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


1. Proponent shall furnish the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
2. The Proponent shall carry out a study to assess the impact of the proposed mining activity on the Check dam located nearby.
3. Detailed study report on flora and fauna in and nearby the quarry site.
4. 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.
5. PP shall furnish the details of GAIL pipeline passing near the proposed site.
6. The project proponent shall submit the approved mining plan/scheme of mining for the next spell of mining along with the EIA/EMP report.

Agenda No: 393-15

(File No: 10087/2023)

Proposed Ordinary Earth Quarry lease over an extent of 3.33.3 Ha at S.F.Nos.1374/1 (Part) PWD Tank, Vayaloor 2 Village, Ponneri Taluk, Thiruvallur District, Tamil Nadu by Thiru. E. Karnal - For Environment Clearance. (SIA/TN/MIN/431184/2023 dt 27.05.2023)

The proposal was placed in this 393rd meeting of SEAC held on 20.07.2023. The Project Proponent made a detailed power point presentation on the proposed project. The details of the project furnished by the proponent are available in the website


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(parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, Thiru.E.Karnal has applied seeking Environment Clearance for the proposed Ordinary Earth Quarry lease over an extent of 3.33.3 Ha at S.F.Nos.1374/1 (Part) PWD Tank in Vayaloor 2 Village, Ponneri Taluk, Thiruvallur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification 2006, as amended.
3. Soil test report dated 17.07.2023

File No	10087		Category	B2
	SIA/TN/MIN/431184/2023 dt 27.05.2023.			1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru.E.Karnal, S/o.Ethiraj, No.167/64, K.H.Road, Annai Indhira Nagar, Ayanavaram, Chennai	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Ordinary Earth Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	S.F.Nos.1374/1 (Part)	
4.	Village in which situated	:	Vayaloor 2	
5.	Taluk in which situated	:	Ponneri	
6.	District in which situated	:	Thiruvallur	
7.	Extent of quarry (in ha.)	:	3.33.3 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	13°18'1.45"N to 13°18'11.92"N 80°17'32.43"E to 80°17'38.75"E	
9.	Topo Sheet No.	:	66-C/07	
10.	Type of mining	:	Opencast semi mechanized method of mining.	
11.	Life of Project	:	55 days	
	Lease Period	:	55 days	
	Mining Plan Period	:	55 days	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC


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	Geological Resources in m ³ (RoM)	:	Ordinary Earth – 33330 m ³	-
	Minable Resources in m ³ (RoM)	:	Ordinary Earth – 29997 m ³	-
	Annual Peak Production in m ³	:	Ordinary Earth – 29997 m ³	-
	Maximum Depth in meters	:	0.9m BGL	
13.	Depth of water table	:	15m-10m BGL	
14.	Man Power requirement per day:	:	10 Nos.	
15.	Water requirement: a. Drinking & Utilized water b. Dust suppression & Green Belt	:	1.3 kLD 0.1 kLD & 0.2 kLD 0.5 kLD & 0.5 kLD	
16.	Power requirement	:	TNEB 8000 litres of HSD will be utilized	
17.	Precise area communication approved by the Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining	:	Rc.No.61/2019/G&M-1, Dated:18.06.2020 &16.05.2023	
18.	Mining Plan approved by Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining	:	Rc.No.61/2019/G&M-1, Dated:28.08.2020	
19.	Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining 500m Cluster Letter	:	Rc.No.61/2019/G&M-1, Dated:28.08.2020	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated: 22.02.2021.	
21.	Project Cost (excluding EMP cost)	:	Rs. 3.55 Lakh	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.

			Ordinary Earth
		:	Max Total RoM in m ³
		:	29997
		:	Annual Max RoM in m ³
		:	29997
		:	Max Depth in m
		:	0.9 m
23.	EMP cost (in Rs. Lakh).	:	Rs.9.66 Lakh
24.	CER cost (in Rs. Lakh).	:	Rs. 50,000

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 29997 m³ of Ordinary Earth by maintaining the ultimate depth of mining of 0.9m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- The prior Environmental Clearance granted for this mining project shall be valid for the project life for a period of not exceeding one year from the date of lease execution.
- The proponent shall provide the particulars for carrying out the plantation of 1500 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.
- The PP shall strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site.
- As accepted by the Project Proponent the CER cost of Rs. 50,000 and the amount shall be spent for the committed activities at Village Government School before obtaining CTO from TNPCB.

Agenda No: 393-16

(File No: 10094/2023)

Proposed Gravel & Pebbles lease over an extent of 1.69.0 Ha at S.F.No. 97/1 Nadiyapattu Village, Vridhachalam Taluk, Cuddalore District, Tamil Nadu by Thiru. C. Chinnathambi, - For Environment Clearance. (SIA/TN/MIN/431227/2023 dt 28.05.2023)


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The proposal was placed in this 393rd meeting of SEAC held on 20.07.2023. The Project Proponent made a detailed power point presentation about the proposed project. 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. C. Chinnathambi has applied seeking Environment Clearance for the proposed Gravel & Pebbles lease over an extent of 1.69.0 Ha at S.F.No. 97/1 Nadiyapattu Village, Vridhachalam Taluk, Cuddalore District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification 2006, as amended.

File No	10073		Category	B2
	SIA/TN/MIN/429657/2023 dt 18.05.2023			1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. C. Chinnathambi No.127, Murugan Kovil Street, Vanamadevi, Vilangalpattu Village, Cuddalore Taluk & District	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Gravel & Pebbles	
3.	S.F Nos. of the quarry site with area break-up	:	S.F.No. 97/1	
4.	Village in which situated	:	Nadiyapattu	
5.	Taluk in which situated	:	Vridhachalam	
6.	District in which situated	:	Cuddalore	
7.	Extent of quarry (in ha.)	:	1.69.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	11°39'50.21"N to 11°39'55.52"N 79°23'32.85"E to 79°23'39.34"E	
9.	Topo Sheet No.	:	58M/06	
10.	Type of mining	:	Opencast method of shallow mining.	
11.	Life of Project	:	2 years	

	Lease Period	:	2 years	
	Mining Plan Period	:	2 years	
	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
12.	Geological Resources in m ³ (RoM)	:	Gravel – 3925 m ³ Pebbles – 35323 m ³	-
	Mineable Resources in m ³ (RoM)	:	Gravel – 2497 m ³ Pebbles – 22473 m ³	-
	Annual Peak Production in m ³	:	Gravel – 1510 m ³ Pebbles – 13,593 m ³	-
	Maximum Depth in meters	:	3m (1m AGL+2m BGL)	-
13.	Depth of water table	:	47-42m BGL	
14.	Man Power requirement per day:	:	8 Nos.	
15.	Water requirement: 1. Drinking & Unutilized water (in kLD) 2. Dust suppression, Green Belt	:	1.0 kLD 0.2 kLD 0.5 kLD 0.3 kLD	
16.	Power requirement	:	TNEB 4160 litres of HSD will be utilized	
17.	Precise area communication issued by Assistant Director/Deputy Director Dept. of Geology & Mining	:	Rc.No.213/Mines/2022 Dated:31.03.2023.	
18.	Mining Plan approved by A Assistant Director/Deputy Director, Dept. of Geology & Mining	:	Rc.No.213/Mines/2022 Dated:24.04.2023.	
19.	500m Cluster Letter issued by Assistant Director/Deputy Director Dept. of Geology & Mining	:	Rc.No.213/Mines/2022 Dated:24.04.2023.	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated: 12.04.2023.	


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21.	Project Cost (excluding EMP cost)	:	Rs. 19.82,000/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Gravel	Pebbles
		:	Max Total RoM in m ³	2497	22473
		:	Annual Max RoM in m ³	1510	13593
		:	Max Depth in m	3m (1m AGL+ 2m BGL)	
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.9,84,800/- Recurring cost/Annum – Rs. 5,35,930 /- + 5% inflation cost		
24.	CER cost (in Rs. Lakh).	:	Rs. 2.0 Lakh		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak RoM production capacity not exceeding 1510 m³ of Gravel and 13593 m³ of Pebbles by maintaining the ultimate depth of mining of 3m (1m AGL+2m BGL) subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life of not exceeding two years from the date of lease execution.
- 2) The Project Proponent shall furnish an affidavit stating that the existing pits at the mine lease area are principally trial pits to assess the suitability of the soil for agricultural purpose.
- 3) The proponent shall provide the particulars for carrying out the plantation of 1000 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.
- 4) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of


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six months from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of 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. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 5) The PP shall strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site.
- 6) As accepted by the Project Proponent the CER cost of Rs. 2.0 lakh and the amount shall be spent for the committed activities at Village Government School before obtaining CTO from TNPCB.

Agenda No: 393 - 17

(File No: 10081/2023)

Proposed Rough Stone & Gravel quarry lease area over an extent of Extent 1.00.10 Ha at S.F.No. 1054/1A, 1059 (Part) & 1060/2 (Part) of Kodanthur North Village, Aravakurichi Taluk, Karur District, Tamil Nadu by Tvl. Sri Raam Blue Metals - For Environmental Clearance. (SIA/TN/MIN/431022/2023, Dated: 27.05.2023)

The proposal was placed in 393rd SEAC meeting held on 20.07.2023. 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, Tvl. Sri Raam Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease area over an extent of Extent 1.00.10 Ha at S.F.No. 1054/1A, 1059 (Part) & 1060/2 (Part) of Kodanthur North Village, Aravakurichi Taluk, Karur District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.

File No	10081/2023	Category	B2
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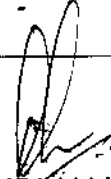

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		431022/2023			1(a)
Sl. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm	:	M/s. Sri Raam Blue Metals, No.1056/A, B, Kodanthur North, Aravakurichi Taluk, Karur District-639206		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone & Gravel		
3.	S.F Nos. of the quarry site with area break-up	:	1054/1A, 1059 (Part) & 1060/2 (Part)		
4.	Village in which situated	:	Kodanthur North		
5.	Taluk in which situated	:	Aravakurichi		
6.	District in which situated	:	Karur		
7.	Extent of quarry (in ha.)	:	1.00.10 Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	10°55'20.89"N to 10°55'24.49"N 77°48'26.27"E to 77°48'32.55"E		
9.	Topo Sheet No.	:	58 F/13		
10.	Type of mining	:	Opencast Manual Mining		
11.	Life of Project	:	10 years		
	Lease Period	:	10 years		
	Mining Plan Period	:	5 years		
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC	
	Geological Resources m ³ (RoM)	:	Rough Stone	Rough Stone	
		:	1,78,976m ³		


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		Gravel	Gravel
		31,584m ³	
	Minable Resources m ³ (RoM) :	Rough Stone	Rough Stone
		57,559m ³	-
		Gravel	Gravel
		20,481m ³	-
	Annual Peak Production in m ³ :	Rough Stone	Rough Stone
		12,185m ³	-
		Gravel	Gravel
		15,351m ³	-
	Maximum Depth in meters :	20 m BGL	
13.	Depth of water table :	55m in rainy season & 60m in summer season	
14.	Man Power requirement per day: :	14 Nos	
15.	Water requirement:	3.75 KLD	
	1. Drinking water	1.75 KLD	
	2. Dust suppression	1.0 KLD	
	3. Green belt	1.0 KLD	
16.	Power requirement :	TNEB 46,930 Ltrs of HSD	
17.	Precise area communication approved by the Assistant Director, Department of G&M. :	Na.Ka.No.621/Kanimam/2022, Dated: 05.05.2023	
18.	Mining Plan approved by Deputy Director, Department of G&M. :	Rc.No.621/Mines/2022, Dated 16.05.2023	

19.	Department of G&M, Deputy Director, 500m Cluster Letter	:	Rc.No.621/Mines/2022, Dated 22.05.2023		
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 25.05.2023		
21.	Project Cost (excluding EMP cost)	:	Rs. 25,45,000		
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
			Max Total RoM in m ³	54,409m ³	20,481m ³
			Annual Max RoM in m ³	12,185m ³	15,351m ³
		:	Max Depth in mtrs	20m BGL	
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 18.09 Lakhs Recurring Cost – Rs. 10.60 Lakhs		
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000		

Based on the presentation and details furnished by the project proponent, SEAC decided to recommend the proposal for grant of Environmental Clearance for the annual peak production not exceeding 12,185m³ of Rough Stone by maintaining an ultimate pit depth of not exceeding 20 m, subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. Tree plantation & fencing around the mine lease area shall be completed before starting the production.


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3. Since a village is located at 600m, within a period of six months from the date of lease execution, the PP shall carry out the scientific studies on 'Design of Controlled Blast Parameters and Techniques for reducing the impact of blast-induced ground & air vibrations and fly rock caused due to the blasting operations' using NONEL systems to evaluate its performance for the implementation, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining and Fuel Research / Nagpur, NIRM-Bangaluru, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
4. As accepted by the Project proponent, the CER cost is Rs.5 Lakhs and the amount shall be spent for the committed activities towards Government Higher Secondary School, Thennilai Village before obtaining CTO from TNPCB.

Agenda No: 393 - 18

(File No: 10088/2023)

Proposed Construction of residential Building by M/s. Casagrand Zingo Private Limited at T.S.No. 156/1 of Perambur Village, Perambur Taluk, Chennai District, Tamil Nadu - For Environmental Clearance. (SIA/TN/INFRA2/429382/2023, Dated: 16.05.2023)

The proposal was placed in 393rd SEAC meeting held on 20.07.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Casagrand Zingo Private Limited has applied for Environmental Clearance for the Proposed Construction of residential Building at T.S.No. 156/1 of Perambur Village, Perambur Taluk, 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 31,328.00 Sq.m & the built – up area is 1,36,328.63 Sq.m.

Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -


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1. The environmental clearance is sought for proposed Construction of residential Building by M/s. Casagrand Zingo Private Limited at T. S. No. 156/1 of Perambur Village, Perambur Taluk, Chennai District, Tamil Nadu by the PP M/s. Casagrand Zingo Private Limited.
2. M/s Ecotech Labs Private Limited is the EIA Consultant for the project.
3. Total plot area of the project is 31,328 m² and built-up area is 1,36,319.45m² respectively.
4. Maximum number of floors will be Extended Combined Double Basement Floor (Parking) for (Tower 1 & Tower 2) with Tower - 1: Ground Floor + 1st Floor + 2nd Floor to 35th Floors With 392 Dwelling Units and Tower - 2: Ground Floor + 1st Floor + 2nd Floor to 35th Floors with 253 Dwelling Units, totally 645 Dwelling Units. maximum height of the building will be 114.6 m.
5. Total Saleable DU's (dwelling units) is 645 Numbers.
6. The project proposal falls under Category-8(a) of EIA Notification, 2006 (as amended).
7. Salient features of the project as submitted by the project proponent:

PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	31,328	SQMT
2	Proposed Built Up Area	1,36,319.45	SQMT
3	Total no of Saleable DU's/Villas	645	No.
4	Max Height - (Height of tallest block)	114.6	M
5	No of Building Blocks (Residential + Community facilities)	2	
6	Max No of Floors	35	No.
7	Expected Population (XXX Residential + XXXX Floating)	4457 (4014 Residential + 443	No.

		Visitors and maintenance)	
8	Total Cost of Project	386.63	CR
9	Project Activity:	Construction of High-Rise Residential Building Development in T.S.No. 156/1 of Perambur Village, Perambur Taluk, Chennai District, Tamilnadu	
AREAS			
10	Permissible Ground Coverage Area (xx%)	50 %	SQMT
11	Proposed Ground Coverage Area (xx%)	3126.48 (11 %)	SQMT
12	Permissible FSI Area (xxx)	152724	SQMT
13	Proposed FSI Area	103814.74	SQMT
14	Other Non FSI Areas - including basement area etc.	32504.71	SQMT
15	Proposed Total Built Up Area	1,36,319.45	SQMT
WATER			
16	Total Water Requirement	593	KLD
17	Fresh water requirement	366	KLD
18	Treated Water Requirement	488	KLD
19	Wastewater Generation	514	KLD
20	Proposed Capacity of STP	550	KLD


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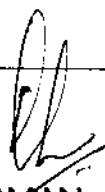
21	Treated Water Available for Reuse	227	KLD
22	Treated Water Recycled	-	KLD
23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	261	KLD
RAINWATER HARVESTING			
24	Rainwater Harvesting - Recharge Pits	86	No.
25	Rainwater Harvesting Sump Capacity	60	M ³
PARKING			
25	Total Parking Required as / Building Bye Laws	896	ECS
26	Proposed Total Parking	1101	ECS
27	Parking in Basements	1101	ECS
GREEN AREA			
28	Proposed Green Area (Minimum 15.0% of plot area)	6757.09 (25%)	SQMT
	Total area	31328	SQMT
	Existing trees on plot	0	nos
	Number of trees to be planted	400	nos
	Number of trees to be transplanted/cut	0	
SOLID WASTE MANAGEMENT			
29	Total Solid Waste Generation	2.498	TPD
30	Organic waste	0.999	TPD
31	Mode of Treatment & Disposal	Will be treated in Organic Waste Converter and	TPD

		used as manure for gardening.	
32	Quantity of Sludge Generated from STP & Disposal	50	KG/DAY
33	Quantity of E-Waste Generation & Disposal	0	KG/DAY
34	Quantity of Hazardous waste Generation & Disposal	0	LPD
POWER / GREEN POWER			
34	Total Power Requirement	6680.39 KVA	KW
35	DG set backup	2 No x 250 KVA, 4 Nos of 380 KVA	KVA
36	No of DG Sets	6	No.
37	Solar Panels – Roof Coverage	50	%
38	Hot Water Requirement	10	KLD

Population details:

POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION
Total Saleable Du's	645		4014
Total			
Non-Residential			
CLUB house (Employees etc.)			


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Club			
Commercial			
Facility Management Staff			
Total			
Visitors			
Residential	10% of total population	xx% of Residential Population	402
Club/Community Hall	-	xx% of Residential Population	
(Maintenance Staff)	-		41
Total Visitors	-		
Total Population	4457		4457
EMP Cost			Rs. 235 Lakhs (Capital Cost) Rs. 27 Lakhs (Operational Cost per Annum)
CER Cost			Rs. 12 Crores
Details of CER Activities			
	S. No	CER Activity	Action Plan

	1.	Govt. Boys Hr. Sec. School Kannigapuram – 0.42 km, NE- 50 Lakhs	
	a)	Improvement of school infrastructure, ✓ Sanitation facility, ✓ library, Drinking water treatment plant, ✓ Solar lighting & smart class (LED Projector with computer).	3rd month after obtaining EC
	b)	✓ Furniture, development of sports facilities, ✓ Greenbelt development with in school campus, Additional classrooms for schools and Maintenance of toilet for the schools mentioned up to construction phase of the Proposed Project.	6 th month after obtaining EC
	2.	Government ADW Girls Higher Secondary School – 0.47 km, NE- 50 Lakhs	
	a)	Improvement of school infrastructure, ✓ Sanitation facility, ✓ library, Drinking water treatment plant, ✓ Solar lighting & smart class (LED Projector with computer).	9 th month after obtaining EC
	b)	✓ Furniture, development of sports facilities, ✓ Greenbelt development with in school campus, Additional classrooms for schools and Maintenance of toilet for the schools mentioned up to construction phase of the Proposed Project.	12 th month after obtaining EC
Total Cost Allocation- 100 Lakhs			

RECOMMENDATION OF THE COMMITTEE

The Committee discussed the matter and recommended a grant of environmental clearance for the project proposal as above and subject to the standard conditions as



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per the Annexure II of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

Additional Conditions:

1. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
2. PP shall submit the commitment letter from the local body for supply of fresh water to SEIAA before issue of EC.
3. The PP shall frame Environmental policy and Environmental management team and the same shall submitted to SEIAA before issue of EC.
4. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
5. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
6. Project proponent is advised to explore the possibility and getting the cement in a closed container rather through the plastic bag to prevent dust emissions at the time of loading/unloading.
7. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
8. The proponent should provide the sufficient electric vehicle charging points as per the requirements at ground level and allocate the safe and suitable place in the premises for the same.


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9. The project proponent should develop green belt in the township as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms.
10. Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
11. Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF Lko/Director of Environment and other concerning authority regularly.
12. Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned authority.
13. The project proponent shall provide a measuring device for monitoring the various sources of water supply namely fresh water, treated waste water and harvested rain water.
14. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.

Agenda No: 393 - 19

(File No: 10095/2023)


Proposed Rough Stone quarry lease area over an extent of Extent 1.00.0 Ha at S.F.No. 105/1 (PART-3) of Periyakolapadi Village, Chengam Taluk, Tirtivannamalai District, Tamil Nadu by Thiru. R. Kalidasan - For Environmental Clearance.

(SIA/TN/MIN/431484/2023, Dated: 01.06.2023)

The proposal was placed in 393rd SEAC meeting held on 20.07.2023. 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. R. Kalidasan has applied for Environmental Clearance for the Proposed Rough Stone quarry lease area over an extent of Extent 1.00.0 Ha at S.F.No. 105/1 (PART-3) of Periyakolapadi Village, Chengam Taluk, Tirtivannamalai District, Tamil Nadu.


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

File No	10095/2023		Category	B2	
	431484/2023			1(a)	
Sl. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm	:	Thiru.R.Kalidasan, S/o.Rayar, Pachal Village, Chengam Taluk, Tiruvannamalai District.		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone & Gravel		
3.	S.F Nos. of the quarry site with area break-up	:	105/1 (PART-3)		
4.	Village in which situated	:	Periyakolapadi		
5.	Taluk in which situated	:	Chengam		
6.	District in which situated	:	Tiruvannamalai		
7.	Extent of quarry (in ha.)	:	1.00.0 Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	12°15'05.40"N to 12°15'09.89"N 78°58'56.97"E to 78°59'02.39"E		
9.	Topo Sheet No.	:	57 L/16		
10.	Type of mining	:	Opencast Semi-Mechanized Mining		
11.	Life of Project	:	5 years		
	Lease Period	:	5 years		
	Mining Plan Period	:	5 years		
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC	

	Geological Resources m ³ (RoM)	:	Rough Stone	Rough Stone
			1,99,300m ³	-
	Minable Resources m ³ (RoM)	:	Rough Stone	Rough Stone
			58,040m ³	-
	Annual Peak Production in m ³	:	Rough Stone	Rough Stone
			12,190m ³	-
	Ultimate Depth in meters	:	20.5 m BGL	
13.	Depth of water table	:	43m in rainy season & 46m in summer season	
14.	Man Power requirement per day:	:	22 Nos	
15.	Water requirement:		2.5 KLD	
	1. Drinking water	:	1.0 KLD	
	2. Dust suppression	:	1.0 KLD	
	3. Green belt	:	0.5 KLD	
16.	Power requirement	:	TNEB 46,930 Ltrs of HSD	
17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Na.Ka.No.03/Kanimam/2023, Dated: 25.01.2023	
18.	Mining Plan approved by Deputy Director, Department of G&M.	:	Rc.No.03/ Kanimam /2023, Dated 20.02.2023	
19.	Department of G&M, Deputy Director, 500m Cluster Letter	:	Rc.No.03/ Kanimam /2023, Dated 06.03.2023	
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 08.03.2023	


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21.	Project Cost (excluding EMP cost)	:	Rs. 2,99,00,000
22.	EC Recommendation	:	Validity
			30 years subject to the following upper limits.
			Rough Stone
		:	Max Total RoM in m ³
			58,040m ³
		:	Annual Max RoM in m ³
			12,190m ³
		:	Max Depth in mtrs
			20.5m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 15.03 Lakhs Recurring Cost – Rs. 12.35 Lakhs
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000

Based on the presentation and details furnished by the project proponent, SEAC decided to recommend the proposal for grant of Environmental Clearance for the annual peak production not exceeding 12,190m³ of Rough Stone by maintaining an ultimate pit depth of 20.5 m BGL, subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. Tree plantation & fencing around the mine lease area shall be completed before starting the production.
3. The proponent shall erect tall sheet fencing along the boundary coordinate 1 to coordinate 2 and coordinate 2 to coordinate 3 as per the Plate No-II submitted by the proponent in mining plan before obtaining CTO from

TNPCB.


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4. Within a period of one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Controlled Blast Parameters for reducing the cumulative impact of blast-induced ground & air vibrations and flyrock caused due to the blasting operations' using NONEL to evaluate its performance for the implementation, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining and Fuel Research / Nagpur, NIRM-Bangaluru, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
5. As accepted by the Project proponent, the CER cost is Rs.6.25 Lakhs and the amount shall be spent for the committed activities towards Panchayat Union Primary Government Higher Secondary School, Periyakolapadi Village before obtaining CTO from TNPCB.

Agenda No: 393-20

(File No.10082/2023)

Proposed Rough Stone Quarry lease over an extent of 1.00.0 Ha (Govt. Poramboke Land) in S.F.No. 399/1 (Part-B) of Kallukkurukki Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. V. Rajesh, – For Terms of Reference.


(SIA/TN/MIN/431128/2023, dated:27.05.2023)

The proposal was placed in the 393rd meeting of SEAC held on 20.07.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The Proponent, Thiru. V. Rajesh, has applied for Terms of Reference for the Proposed Rough Stone Quarry lease over an extent of 1.00.0 Ha (Govt. Poramboke Land) in S.F.No. 399/1 (Part-B) of Kallukkurukki Village, Krishnagiri 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, the project proponent has obtained EC from DEIAA vide


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Lr.No.03/DEIAA-KGI/EC No.30/2018 dated.27.08.2018 for a period of 5 years from the date of execution of lease deed. The EC was accorded for a quantity of 4,92,310m³ of rough stone upto the depth of 85m.

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, the proponent stated that no mining operations were carried out even 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, 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 till they obtain the EC granted by the SEIAA after the reappraisal process as per MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.
2. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which include 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


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3. The PP shall submit Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai and appropriate mitigating measures for the non-compliance items, if any.
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.
5. 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.
6. 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.
7. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
8. 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.

Agenda No: 393-21

(File No.10089/2023)

Proposed Rough Stone Quarry lease over an extent of 3.00.0 Ha (Government Poramboke Land) in S.F.No. 271 (Part) of B.R.G. Madhepalli Village, Bangur Taluk, Krishnagiri District, Tamil Nadu by Tmt. K. Valliyammal – For Terms of Reference.


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(SIA/TN/MIN/431020/2023, dated:26.05.2023)

The proposal was placed in the 393rd meeting of SEAC held on 20.07.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Tmt. K. Valliyammal, has applied for Terms of Reference for the Proposed Rough Stone Quarry lease over an extent of 3.00.0 Ha (Government Poramboke Land) in S.F.No. 271 (Part) of B.R.G. Madhepalli Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Tmt. K. Valliyammal.
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, Thiru. S. L. Krishnan, Husband of Tmt. K. Valliyammal has obtained EC from DEIAA vide Lr.No.03/DEIAA-KGI/EC No.73/2018 dated.27.08.2018 for a period of 5 years from the date of execution of lease deed. The EC was accorded for a quantity of 11,59,620m³ of rough stone upto the depth of 71m. After the death of Thiru. S. L. Krishnan on 22.05.2019, the lease was transferred in the name of Tmt. K. Valliyammal vide Proceedings dated.14.12.2020.
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.

Based on the presentation and documents furnished by the proponent, SEAC noted that:

- i. Poultry farms are located within 100m from the proposed project site.
- ii. The proponent has not maintained any safety zone/barrier and benches during the mining operations carried out in the earlier EC period.
- iii. The PP had carried out the mining operation without obtaining necessary permission from the Director of Mines Safety, Chennai for maintaining the bench height of 7 m under the provisions of MMR 1961.
- iv. The PP had carried out the mining operation in an unsystematic and unscientific manner during the previous EC period.
- v. Varatanapalli Reserve Forest is located within 250m from the proposed lease area.
- vi. Some structures/habitations are located within 300m from the proposed


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project site.

In view of the above facts, the SEAC decided not to recommend the proposal.

Agenda No:393-22

(File No.10096/2023)

Proposed Rough Stone and Gravel Quarry lease over an extent of 2.49.0 Ha in S.F.No. 1542/1, 1543/2, and 1544/1A of Shanmugasundrapuram Village, Andipatti Taluk, Theni District, Tamil Nadu by Thiru. B. Shellapandi – For Environmental clearance.

(SIA/TN/MIN/429107/2023, dated:02.06.2023)

The proposal was placed in the 393rd meeting of SEAC held on 20.07.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Thiru. B. Shellapandi has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry lease over an extent of 2.49.0 Ha in S.F.No. 1542/1, 1543/2, and 1544/1A of Shanmugasundrapuram Village, Andipatti Taluk, Theni District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the proposal are as follows:

File No	10096	Category	I(a)
	SIA/TN/MIN/429107/2023		B2
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. B. Shellapandi, S/o. Balu, Odaistreet, Muthanampatti, Andipatti Taluk, Theni District - 625 562.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel Quarry
3.	S.F Nos. of the quarry site with area break-up	:	1542/1, 1543/2 and 1544/1A


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4.	Village in which situated	:	Shanmugasundrapuram	
5.	Taluk in which situated	:	Andipatti	
6.	District in which situated	:	Theni	
7.	Extent of quarry (in ha.)	:	2.49.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	09°58'39.70"N to 09°58'44.14"N 77°32'55.61"E to 77°33'04.02"E	
9.	Topo Sheet No.	:	58-G/09	
10.	Type of mining	:	Open Cast/Mechanized Mining	
11.	Life of Project	:	5 years	
	Lease Period	:	10 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Rough Stone-6,00,450m ³	Rough Stone-6,00,450m ³
		:	Gravel-48,036m ³	Gravel-48,036m ³
	Minalable Resources m ³ (RoM)	:	Rough Stone-90,775m ³	Rough Stone-90,775m ³
		:	Gravel-20,646m ³	Gravel-20,646m ³
	Annual Peak Production in m ³	:	Rough Stone - 18,330m ³	Rough Stone - 18,330m ³
		:	Gravel-9,250m ³	Gravel-9,250m ³
	Ultimate Depth in meters	:	27m below ground level	27m below ground level
13.	Depth of water table	:	50m below ground level	
14.	Man Power requirement per day:	:	21 Nos.	

15.	Water requirement: i) Drinking Water & Domestic Purpose ii) Dust suppression iii) Green belt	:	5.0 KLD 1.5 KLD 1.5 KLD 2.0 KLD		
16.	Power requirement	:	76 KL for the entire Project life		
17.	Precise area communication approved by the Assistant Director, Dept.of Geology and Mining with date	:	Rc.No.1403/Mines/2022, Dated 19.01.2023.		
18.	Mining Plan approved by the Assistant Director, Dept.of Geology and Mining with date	:	Rc.No.1403/2022/Mines, Dated 25.01.2023.		
19.	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	:	Rc.No.1403/Mines/2022, Dated 25.01.2023.		
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated: 06.04.2023.		
21.	Project Cost (excluding EMP cost)	:	Rs. 59,44,000/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
			Max Total RoM in m ³	90,775	20,646
			Annual Max RoM in m ³	18,330	9250
	Max Depth in mtrs		27m below ground level		
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 32.02 Lakhs		
			Recurring Cost – Rs. 21.28 Lakhs		
24.	CER cost (in Rs. Lakh).	:	Rs. 7,00,000/-		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 18,330m³ of rough stone & 9250m³ of gravel by maintaining the ultimate depth of 27m below ground level and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall carry out the small dia blasting with maximum of 40 to 60 holes per round obtaining the prior permission obtained from the Director of Mines Safety, DGMS-Chennai Region.
- 3) The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations to the concerned AD (Mines) at the time of execution of lease.
- 4) Since the wind mill is located at a distance of 430m from the lease boundary of the proposed quarry, the PP shall adopt the following practices:
 - i. Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.
 - ii. Maximum Charge per Delay (MCD) and total charge should be fixed such that it should not exceed 1.3 kg and 26.50 kg respectively during the initial blasts until it is optimised after getting the permission from the DMS, Chennai.
 - iii. Fresh scientific study on designing the controlled blast parameters shall be conducted within a period six months after the commencement of mining operations by the PP after obtaining prior permission from the Director of Mines Safety, Chennai Region.
 - iv. Continuous monitoring of blast-induced ground vibration using

seismograph shall be done by the PP near the sensitive wind mill and other structures located within 500 m.

- v. Engagement of blasting in-charge having Diploma/Degree in mining engineering (or) the person possessing a valid blaster certificate of competency issued by the DGMS with not less than 5 years of blasting in the mines/quarries for carrying out the day-to-day blasting.
 - vi. Training of the blasting crew on controlled blasting practices.
 - vii. 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.
 - viii. 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.
 - ix. 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.
 - x. Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.
 - xi. Max. number of holes permitted in a round: 40 – 60 till the optimisation of the blast design with prior permission from DGMS.
- 5) As accepted by the project proponent, Rs. 2 Lakhs shall be spent for the conservation measures towards SMTR (Srivilliputhur- Megamalai Tiger Reserve) in consultation with the DFO.
- 6) As accepted by the Project Proponent the CER cost of Rs. 7 Lakhs and the amount shall be spent for the activities as committed towards Government High School, Shanmugasundrapuram Village before obtaining CTO from TNPCB.

Agenda No: 393-23
(File No: 9935/2023)

Proposed Rough Stone quarry lease over an extent of 1.20.0 Ha at S.F.No. 113/1 (Part-1) of Kondepalli Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. M. R. Venkatesan – For Environmental Clearance. (SIA/TN/MIN/422870/2023 dated


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21.03.2023)

The proposal was placed in the 387th meeting of SEAC held on 28.06.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. M. R. Venkatesan has applied for Environmental Clearance for the Proposed Rough Stone quarry lease over an extent of 1.20.0 Ha at S.F.No. 113/1 (Part-1) of Kondepalli Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was issued to the project proponent vide Lr. No. SEIAA-TN/F.No.5368/1(a)/ EC.No.3430/2016, dated. 29.07.2016.
4. Now, the proponent has submitted an application seeking EC for the scheme of mining for the period 2021 – 2026.
5. From the documents submitted by the project proponent, it is ascertained that The District Collector has imposed a penalty of Rs.1,83,43,300/- vide Proceedings dated.18.08.2022 for the illicit quarrying carried out including in the safety zone. Accordingly, the lessee has paid the first instalment on 15.09.2022.
6. From the KML file uploaded in the PARIVESH Portal and other documents submitted, it is further ascertained that the proponent has carried out mining operations in the safety zones and also outside the lease area during the earlier EC period.
7. As per MoEF & CC Notification S.O. 804 (E) dated 14.03.2017,
"In case the project or activities requiring prior Environmental Clearance under EIA Notification 2006 from the concerned Regulatory Authority are brought for Environmental Clearance after starting the construction work, or have undertaken expansion, modernization and change in product-mix without prior EC, these projects shall be treated as cases of violations and in such cases, even Category B projects which are granted Environmental Clearance by the SEIAA constituted under sub-section(3) section 3 of the Environment (Protection) Act 1986 shall be


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appraised for grant of Environmental Clearance only by the concerned Expert Appraisal Committee and Environmental Clearance will be granted accordingly".


In the present case, the proponent has carried out mining operations beyond the lease area specified in the earlier EC and hence the proposal has to be treated as 'violation'. Therefore, in view of the above & based on the presentation and documents furnished by the project proponent, SEAC decided to grant of Terms of Reference (TOR) under Violation category without Public Hearing, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants. Terms of Reference issued are subject to 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 prepared by the accredited consultants comprising of assessment of ecological damage for the project activities carried out earlier without obtaining prior Environmental Clearance, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.
2. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
4. Copy of total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.


AGENDA ITEM No: 393-24

(File No: 6807/2021)

Expansion of Existing construction of IT buildings at MEPZ (Madras Export Processing Zone) campus at Plot No. A-15, 16, 17(Part), B20, C-1 & C-10 and D-2 in Kadaperi Village, Tambaram Taluk, Kancheepuram District, Tamil Nadu by M/s. Congnizant


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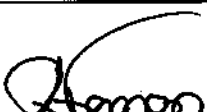
Technology Solutions India Private Limited - For Environmental Clearance Under Violation Category. (SIA/TN/MIS/22790/2018, dated 15.07.2022)

The proposal was earlier placed in the 310th meeting of SEAC held on 14.09.2022. The Project Proponent gave a detailed presentation. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The project proponent gave a detailed presentation. **The SEAC noted the following:**

1. The Proponent, M/s. Cognizant Technology Solutions India Private Limited has applied seeking Environmental Clearance for the Existing Construction of IT building of MEPZ (Madras Export Processing Zone) campus at Plot No. A-15, 16, 17(Part), B20, C-1 & C-10 and D-2 in Kadaperi Village, Tambaram Taluk, Kancheepuram District, Tamil Nadu under Violation category.
2. The project/activity is covered under Schedule B Category 8(b) "Building and Construction projects" of the Schedule to the EIA Notification, 2006.
3. MoEF&CC vide letter No.21-126/2007-IA III dated February 29th, 2008 has approved built-up area of 1,62,516 m². Project Proponent has built-up 188,413.54 m² of area against the approved area of 1,87,890 m² from Chennai Metropolitan Development Authority (CMDA) vide letter No. C3/24329/07 dated 30th December 2008. Additional built-up area of 25,898.54 m² includes area within SDB-4 Building, Canteen building, substation building, security cabin, gas bank area and proposed STP area.
4. ToR under Violation Category issued vide T.O Letter No.SEIAA-TN/F.No. 6807/Violation/ToR - 699/2020 dated: 18.05.2020 for total Land area - 58482 sq. m (5.8482 Hectare) and Total Built-up Area -188413.54 sq. m and Additional Built-up Area 25,898.54 m².
5. EIA report submitted on 18.07.2022

Based on the presentation made and documents furnished by the project proponent, the SEAC decided to make site inspection by the sub-committee to be constituted by the SEAC to assess the present status of the project and environmental settings as the proposal falls under violation category. The sub-committee inspected the site and furnished the following report:

SITE INSPECTION REPORT OF SEAC SUBCOMITTEE


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Reference:

Lr. No. SEAC-TN/6807 Site inspection/2022 dated 16 September 2022 SEAC AGENDA No: 310-6 (File No: 6807/2021) Expansion of existing construction of IT building at MEPZ (Madras Export Processing Zone) Campus at Plot No. A15, 16, 17(Part), B20, C-1 & C-10 and D-2 in Kadaperi Village, Tambaram Taluk, Kancheepuram District, Tamil Nadu by M/s. Cognizant Technology Solutions India Private Limited - For Environmental Clearance Under Violation Category (SIA\TN\MIS/22790/2018, dated 15.07.2022)

1.0 BACK GROUND

The Project Proponent (PP), M/s. Cognizant Technology Solution India Private Limited has applied for Environmental Clearance for the Existing Construction of IT building of MEPZ (Madras Export Processing Zone) campus at Plot No. A -15. 16. 17(Part). B20, C-1 & C-10 and D-2 in Kadaperi Village, Tambaram Taluk, Kanchipuram District, Tamil Nadu under violation category.

M/s Cognizant Technology Solutions India Pvt Ltd, was granted Environmental Clearance (EC) for an IT Building with a built-up area of 1,62,516 m² vide MoEF&CC Letter No.21-126/2007-IA III dated 28 February, 2008. The project/activity is covered under Schedule B Category 8(b) "Building and Construction project" of the Schedule of the EIA Notification, 2006. However, the Project Proponent has constructed and operated a built-up of 188,413.54 m² as against the approved area of 1,87, 890 m² from Chennai Metropolitan Development Authority (CMDA) vide letter No. C3/24329/07 dated 30 th December 2008. This has resulted in built-up area of 25,898.54 m² additionally which includes area within SDB-4 Building, Canteen Building, Sub Station building, Security Cabin, Gas Bank Area and Proposed area for the Sewage Treatment Plant (STP).

Now, the Project Proponent, has applied for Environmental Clearance for the Existing Construction of the IT building of MEPZ (Madras Export Processing Zone) campus under violation category. Terms of Reference (ToR) for EIA under Violation Category was issued vide T. O Letter No. SEIAA-TN/F.No. 6807/Violation/ToR - 699/2020 dated: 18.05.2020 for total Land area - 58482 sq. m (5.8482 Hectare) and Total Built-up Area -188413.54 sq. m and Additional Built_up Area 25,898.54 m². EIA report was submitted


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on 18.07.2022. Based on the presentation made and document, furnished by the project proponent, the SEAC decided to make site inspection by the Sub-committee consisting of the following members of the SEAC constituted vide.: Lr. No. SEAC-TN/6807 Site inspection/2022 dated 16 September 2022

Dr. Kurian Joseph, Member SEAC

Dr. G. Anne Josephine Selvam, Member SEAC and

Dr. P. Balamadeswaran, Member SEAC.

The members of the Sub Committee inspected the site on 17 September 2022 and assessed the present status of the Project and Environmental settings as the proposal was under violation category. Besides interacting with the project proponent, the sub-committee examined all the relevant documents and visited various environment management facilities at the project site. Further the sub-committee assessed the ecological damage and checked the Remedial plan & Community Augmentation Plan submitted by the Project Proponent as presented in the following sections of this Report.

2.0 OBSERVATIONS OF THE SUB COMMITTEE

The Project Proponent, M/s Cognizant Technology Solutions India Pvt Ltd, has constructed and operated a built-up of 188,413.54 m² as against the granted Environmental Clearance to construct and operate an approved built-up area of 1,62,516 m² resulting in violation of constructing and operating an additional Built-up Area 25,898.54 m², which is about 13.7% of the total constructed and operated area. The breakup details of the violated built-up area are summarised in Table 1. The total built-up area approved under the existing Environmental Clearance was 162516 m² and the breakup as per the internal information available with variation in actual built-up area presented in Table 2 indicate that slightly less built-up area constructed under SDB-1, SDB-2 and SDB-3 was adjusted against the additional built-up area constructed under Canteen building and Substation building. This confirms to be within the approved built-up area of 162516 with maximum violation (25637 Sq.m) being attributable to SDB -4 building.


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Table1 Details of Approved and Actual Built-up Area of Different Buildings

Sl No	Name of the building	Built-up area in m2 (as per previous EC) (m ²)	As per the CMDA approved Master plan and as built (m ²)	Actual Built-up area (m ²)	Difference (m ²)
1	SDB -1 (stilt+9 floors + terrace)		39299.73	39299.73	
2	SDB-2 (stilt +9 floors +terrace)		39082.00	39082.00	
3	SDB-3 (stilt+9 floors + terrace)		38813.20	38813.20	
4	SDB-4 cum MLCP (B1+B2+G+11Floors+Terrace)		49871.13	49871.13	
5	Canteen building (LG+G+stilt+3 floors +terrace)		18568.18	18568.18	
6	Substation (substation + HVAC pump room)		2088.4	2088.4	
7	Security cabin		168	168	
8	Gas bank		0	73.20	
	Total built-up area	162516.00	187890.64	188413.54	25898.54

Table 2 Building wise Built-up area Breakup details and the Deviation

Sl No	Name of the building	Built-up area in m2 (as per previous EC) (m ²)	As per the CMDA approved Master plan and as built (m ²)	Difference (m ²)
1	SDB -1 (stilt+9 floors + terrace)	39526.00	39299.73	-226.73
2	SDB-2 (stilt +9 floors +terrace)	39526.00	39082.00	-444
3	SDB-3 (stilt+9 floors + terrace)	39526.00	38813.20	-712.8
4	SDB-4 cum MLCP (B1+B2+G+11Floors+Terrace)	24234.00	49871.13	25637.13
5	Canteen building (LG+G+stilt+3 floors +terrace)	18378.00	18568.18	191.18
6	Substation (substation + HVAC pump room)	1248.00	2088.4	840.4
7	Security cabin	78.00	168	90
8	Gas bank	0	0	72.53
	Total built-up area	162516.00	187890.64	25447.54

The starting date of the violation is 03.11.2010 as evident from the Building Completion Certificate. The monthly average head count details (Annexure I) of the Cognizant MEPZ campus during January 2014 to September 2022 obtained from the records of M/s Cognizant indicated peak occupancy of 18065 head count in March 2014. This meant an average daily water consumption and associated wastewater generation of about 800 m³/day (@45 L/person/day). Though the daily average wastewater generation data provided by M/s Cognizant was not correlating well with the corresponding average head count, maximum daily wastewater generation of 868 m³/day reported for July 2015 is in agreement with an average wastewater generation rate of 800 m³/day (@45 L/person/day) during the violation period.


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Head count is reported to be reduced under 12000 from August 2017 and water conservation measure initiated from December 2016 resulted in reducing the wastewater generated from the campus to below 500 m³/day. The average occupancy has been drastically reduced since April 2020 as a result of Covid 19 associated lockdown and "Work from Home" option given to the employees, which is prevalent even during the time of the site visit with an average occupancy of about 500 persons and associated wastewater generation of about 30 m³/day.

3.0 ECOLOGICAL DAMAGE ASSESSMENT AND NATURAL RESOURCE AUGMENTATION

The objective of the Ecological damage Assessment is to study the impacts due to the additional construction activity undertaken over and above the approved built-up area. It is seen that five additional floors (7-11 Floors) were built on the SDB-4 Building along with security cabin and gas bank.

The impacts of these additional constructions activities during the construction phase were in terms of additional use of construction materials, emissions associated with its transportation, impacts due to temporary accommodation of construction labour, operation of construction equipment including DG set etc. As the additional area is built in terms of additional floors of SDB-4, additional impacts due to foundation works is not considered.

Operational Phase of the additional area constructed include fuel consumption and emissions during the transport of the additional staff (head count) accommodated in this area, usage of water and generation of wastewater and solid waste generation. Implementation of the mitigation plans as per the environmental management plan and periodic monitoring of the ambient air quality indicated no significant deterioration of air quality.

Wastewater generated from 2010 to 2014 was reported to be treated through the 0.5 MLD STP of MEPZ as per the Environmental Clearance and continued to be treated through the STP till date, the treated water is used in flushing and gardening. As the STP capacity was only 500 m³/day (500KLD) as indicated on the Board displaying the Process Flow Diagram of the STP, it was inferred that the STP would have been


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overloaded during the violation period of November 2010 to February 2016, with wastewater flow exceeding 500 m³/day.

As about 800 m³/day of sewage was generated during the peak operation time with additional area under violation in operation (Annexure I), clarification was sought regarding management of the excess quantity of sewage over the capacity of the Sewage Treatment Plant. The following clarifications were given by the PP as given below:

- i. There are 2 STPs (1 MLD and 535 KLD) set up and owned by MEPZ. Both were being operated and maintained by MEPZ. Operation of the 535 KLD plant was handed over to M/s Cognizant from the year 2019. Environment clearance issued to Cognizant in 2008 says, the wastewater generated is proposed to treat in 1.5 MLD (Combined capacity 1MLD+ 0.5 MLD). M/s Cognizant has not maintained any data regarding the operation of the STP till the year 2019.
- ii. Sewage from the Cognizant solutions was treated in the 1 MLD Sewage Treatment Plant within the MEPZ in addition to 535 KLD STP plant. Copy of the MEPZ 1 MLD STP plant valid up to 31 March 2023 is submitted as evidence. However, there is no evidence regarding treatment of Cognizant sewage in the 1 MLD STP of MEPZ.
- iii. As CTO has been issued in 2016 to amend the Environment clearance on the additional built-up area, M/s Cognizant reduced the employees and also taken other water conservation measures such as low flow plumbing fixtures (Aerators, Pressmatic Taps etc.) to keep the sewage generation within the capacity of 0.5 MLD STP.
- iv. Expected head count would be around 18240 nos. and domestic wastewater generation would be about 821 m³/day after the proposed expansion. The 0.5 MLD STP plant, owned MEPZ and currently operated by M/s Cognizant will be hand over to MEPZ upon successful completion of the proposed 1MLD STP Plant within Cognizant MEPZ Campus.

Photographs of the 0.5 MLD and the Solid waste management system at M/s Cognizant is presented in Figure 1. Google image showing 0.5 MLD STP and 1 MLD STP snapshot is presented in Figure 2.


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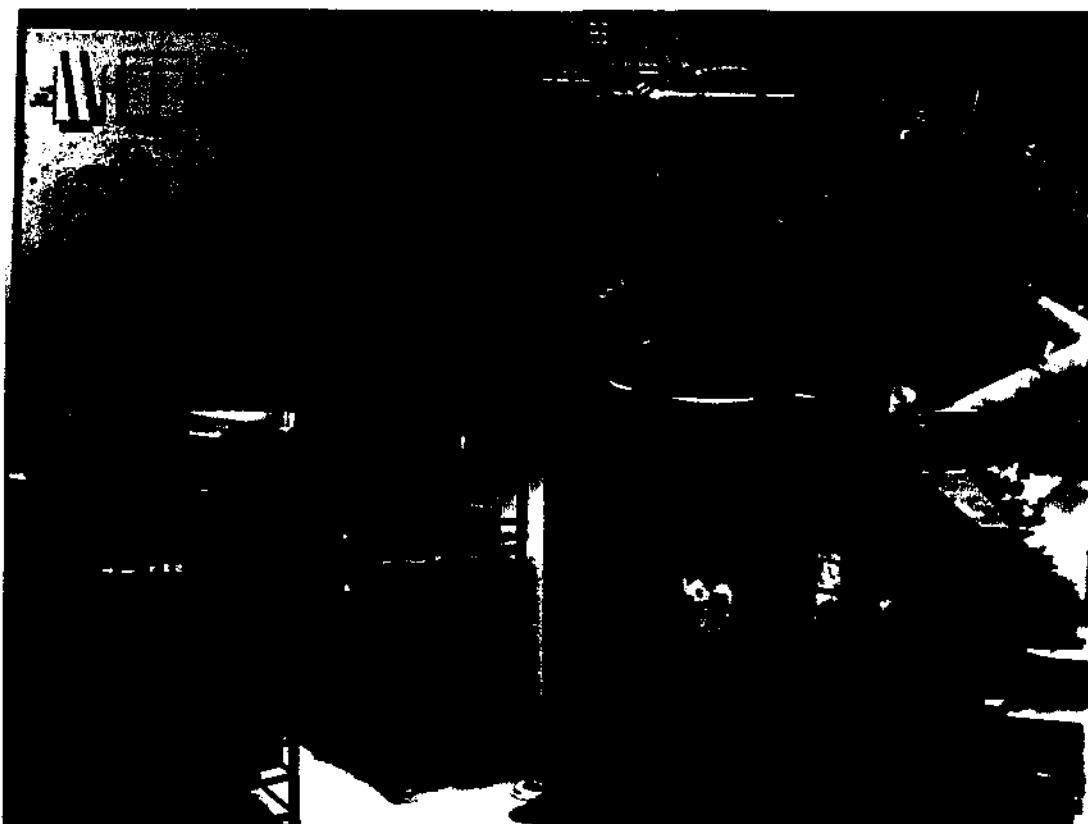

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The EC granted by MoEF vide letter dated 29 February 2008, has indicated that the built-up area of 1,62,516 Sq.m will have 12000 workers and the sewage generated will be treated in the common STP of 1.5 MLD capacity developed by MEPZ. However, no evidence was available / provided to confirm that the additional quantity of wastewater generated due to the additional area constructed and the additional head count was treated in the 1 MLD STP of MEPZ. The EIA Report dealing with Damage to Water Environment (Page 196) is also silent on this aspect. Further, the certified EC Compliance report dated 27 October 2021 is also referring to treatment of sewage in 535 KLD STP of MEPZ. Thus, Environmental Damage to the Water Environment is assessed to have occurred during the period of Violation (from 03.11.2010 (Evidence: Building completion certificate) to February 2016 (based on Head Count). This may be treated as significant and the remediation cost charged according to the prevailing norms.

Impact on the land use is considered to be insignificant as the land cover change was only about 73 m² for the gas bunk and security cabin. Since the land footprint is not significantly altered, the additional construction has not resulted in any reduction of green belt and biological environment. It is observed that the space proposed for the new STP is in the area currently located as an access gate. However, M/s Cognizant is already having additional access gates and the STP construction may not have significant impact on land use.


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Figure 1 Photographs of the Sewage Treatment Plant (0.5 MLD) and Solid waste management Systems at M/s Cognizant Technology Solutions

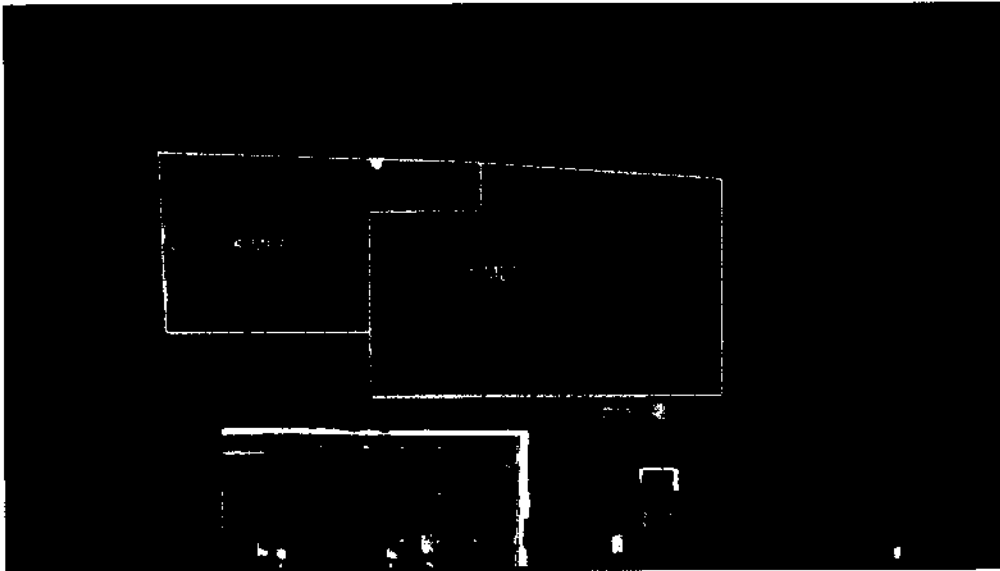


Figure 2 Photographs of the Sewage treatment Plant and Solid waste management Systems at M/s Cognizant Technology Solutions

The greenbelt development at the project site is in line with the EC. The Solid waste management (Organic Waste Converter) facilities at the project site were functioning during the violation period as per the details furnished by the proponent. The expansion of the activity has not resulted in any land acquisition or resettlement and is assessed to have no impact to socio economic environment.

From the perusal of the original proposal of the proponent, initial checklist submitted by the proponent, the technical team makes the following observation:

1. The proponent has made a procedural violation in the sense that the proponent has started construction of the project before getting the Environmental Clearance from the competent authority.
2. When the technical team assessed whether the proponent has actually followed in the past, the normal condition stipulated in the EC for all conditions, pre-construction & construction stages, the team is of the opinion that the proponent has not violated any conditions that are verifiable now. But there are certain conditions such as possible air pollution, noise pollution and soil pollution that

could have been caused at the time of construction which cannot be verified now.

3. The technical team have pointed out that this proposal is not a "regular" project seeking EC but a special project to be covered under "violation category".

The EIA Report was placed before the SEAC meeting.


I. ECOLOGICAL DAMAGE ASSESSMENT BY EIA MODEL

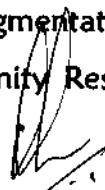
The SEAC as Per the MoEF & CC notification assessed the project based on Ecological damage, remediation plan and natural & community resource augmentation plan furnished as an independent chapter in the Environment impact assessment report by the proponent. The extract from the report is as follows:

- a. Ecological remediation plan and cost as proposed by the proponent: Air Environment, water Environment, Land Environment, Noise Environment' Biology. Amount allotted, Rs 60 lakhs (Details in the EIA report).
- b. Natural resource augmentation plan and cost as proposed by the proponent: Improvement of nearby water bodies and repairing of roads and tree plantation. Amount allotted, Rs 40 lakhs (Details in the EIA report).
- c. Community resource augmentation plan and cost as proposed by the proponent: infrastructure development for schools located around the firm. Amount allotted Rs 25 lakhs (Details in the EIA report).

As per S.O. 804(E) guidelines for dealing with violation cases, in addition to the implementation of EMP in a time-bound manner, the project proponent (in the cases where the project activity is permissible) will be required to submit a bank guarantee equivalent to the amount of Remediation Plan and Natural and Community Resource Augmentation Plan. The details on the Ecological Damage Assessment, Remediation Plan, Natural Resources Augmentation and Community Resource Augmentation Plan prepared & submitted along with EIA report by the NABET consultant on behalf of the proponent as per the guidelines mentioned in the MoEF & CC Notifications dated:14.03.2017 and 08.03.2018.

The project proponent, based on the impact assessment carried out by the NABET accredited consultant, has proposed to undertake Natural Resources Augmentation at a cost of Rs.53,30,000 (Table 12-7 of the EIA Report) and Community Resource


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Augmentation at a cost of Rs.68,15,000 (Table 12-8 of the EIA Report).

Based on the cost of INR 51,72,64,384 for construction of 18860 Sq.m (Based on construction contract), the estimated project cost of construction of Violation area of 25898.54 sq.mt calculated on Pro rate basis is - INR 71,03,07,123. The Annual turnover of M/s Cognizant Ltd. for the years 2010-11 to 2021 -22 varied from 1422.29 Crore to 2433.45 Crore as indicated in Table 3.

Table 3 Annual Turnover Details of M/s Cognizant Technology Solutions

Financial Year	Amt of Revenue for IN219 (MSEZ) in INR	Amt in Crores
FY 2021-22	24,434,522,805	2,443.45
FY 2020-21	23,293,273,700	2,329.33
FY 2019-20	23,828,135,993	2,382.81
FY 2018-19	21,486,792,107	2,148.68
FY 2017-18	20,376,361,112	2,037.64
FY 2016-17	23,199,893,315	2,319.99
FY 2015-16	25,213,905,414	2,521.39
FY 2014-15	23,516,590,866	2,351.66
FY 2013-14	24,536,172,427	2,453.62
FY 2012-13	21,242,961,990	2,124.30
FY 2011-12	19,540,813,282	1,954.08
FY 2010-11	14,222,902,396	1,422.29

II. ECOLOGICAL DAMAGE ASSESSMENT BY SEAC METHODOLOGY:

Based on the inspection report and the violation notification, the SEAC classified the level of damages by the following criteria:

1. Low level Ecological damage:


- Only procedural violations (started the construction at site without obtaining EC)

2. Medium level Ecological damage:

- Procedural violations (started the construction at site without obtaining EC)
- Infrastructural violation such as deviation from CMDA/local body approval.
- Non operation of the project (not occupied).

3. High level Ecological damage:

- Procedural violations (started the construction at site without obtaining EC)
Infrastructural violation such as deviation from CMDA/local body approval.
- Under Operation (occupied).


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As per the OM of MoEF & CC dated: 01.05.2018, the Sub-Committee deliberated the fund allocation for Corporate Environment Responsibility which shall be to a maximum of 2% of the Project cost.

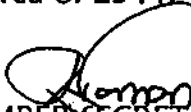
In view of the above and based on the inspection report & the Ecological damage, remediation plan and natural & community resource augmentation plan furnished by the proponent, the SEAC decided the fund allocation for Ecological remediation, natural resource augmentation & community resource augmentation and penalty by following the below mentioned criteria.

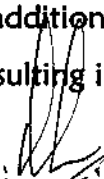
Based on the inspection, the ecological damage, remediation plan and natural & community resource augmentation plan furnished by the PP, the SEAC decided the fund allocation for Ecological remediation, natural resource augmentation & community resource augmentation and penalty by following the below mentioned criteria given in Table:

Table 2: Damage Assessment Classification of Building Construction Projects

Level of damages	Ecological remediation cost (% of project cost)	Natural resource augmentation cost (% of project cost)	Community resource augmentation cost (% of project cost)	CER (% of project cost)	Total (% of project cost)
Low level Ecological Damage	0.25	0.10	0.15	0.25	0.75
Medium level Ecological Damage	0.35	0.15	0.25	0.5	1.25
High level Ecological Damage	0.50	0.20	0.30	1.00	2.00

The committee observes that the project of existing construction of IT building at MEPZ (Madras Export Processing Zone) Campus at Plot No.A15, 16, 17(Part), B20, C-1 & C-10 and D-2 in Kadaperi Village, Tambaram Taluk, Kancheepuram District, Tamil Nadu by M/s. Cognizant Technology Solutions India Private Limited comes under the "High level Ecological damage category" as the Project Proponent constructed an additional built-up area of 25447 Sq. m and occupied it with additional head count resulting in about


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300 m³/day of sewage and no evidence was available to establish that the additional sewage was treated and recycled during the period of Violation (03.11.2010 as evident from the Building completion certificate) to February 2016 (based on TNPCB CTO letter & Head count). This may be treated as significant and the SEAC may assess that it is a violation with High level Ecological damage.

Level of damages	Ecological remediation cost	Natural resource augmentation cost	Community resource augmentation cost	CER	Total
	(% of Project Cost)	(% of Project Cost)	(% of Project Cost)	(% of Project Cost)	(% of Project Cost)
High level Ecological damage	0.50	0.20	0.30	1.00	2.00

Project Cost:

From the EIA report, it was stated that the cost of the commissioned building is 34,406.19 Lakhs. With reference to the letter furnished by the PP vide Letter No. CTS/CHN/TBM/MoEF&CC/873, dated. 24.04.2023 that the project value of the violation area (i.e., 25,448.54 m²) as Rs. 69.79 Crores. Hence the project cost is 6900 lakhs.

Application of SEAC Methodology

High level Ecological damage	Ecological remediation cost	Natural resource augmentation cost	Community resource augmentation cost	CER	Total
	(% of Project Cost)	(% of Project Cost)	(% of Project Cost)	(% of Project Cost)	(% of Project Cost)
SEAC Scale	0.50	0.20	0.30	1.00	2.00
Actual Amount	6900×0.50	6900×0.20	6900×0.30	6900×1.00	6900×2.00
Rupees in lakhs	34.50	13.80	20.70	69.00	138.00

Sl. No.	Activity Proposed	Total, Rs.
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1	Cost of Ecological Damage Remediation Plan	34,50,000
2	Natural Resource Augmentation Plan	13,80,000
3	Community Resource Augmentation Plan	20,70,000
Grand Total		69,00,000

Here, from the SEAC Methodology, the CER Budget is arrived as 1% of the Project Cost i.e., Rs.69,00,000/-.

III. ECOLOGICAL DAMAGE ASSESSMENT - Application of CPCB Guidelines:

CPCB has suggested in a report methodology for assessment of environmental compensation which may be levied or imposed upon industrial establishments who are guilty of violation of environmental laws and have caused damage/degradation/loss to environment. It does not encompass individuals, statutory institutions and Government etc. Report is titled as "Report of the CPCB In-house Committee on Methodology for Assessing Environmental compensation and Action Plan to Utilize the Fund" which was finalized in the meeting held on 27.03.2019. It shortlisted the incidents requiring an occasion for determining environmental compensation. Six such incidents, shortlisted, are: "Cases considered for levying Environmental Compensation (EC): a) Discharges in violation of consent conditions, mainly prescribed standards/consent limits. b) Not complying with the directions issued, such as direction for closure due to non-installation of OCEMS, non-adherence to the action plans submitted etc. c) Intentional avoidance of data submission or data manipulation by tampering the Online Continuous Emission / Effluent Monitoring systems. d) Accidental discharges lasting for short durations resulting into damage to the environment. e) Intentional discharges to the environment -- land, water and air resulting into acute injury or damage to the environment. f) Injection of treated/partially treated/ untreated effluents to ground water."

For the instances at item (a), (b) and (c), report says that 'Pollution Index' (hereinafter referred to as 'PI') would be used as a basis to levy environmental compensation. CPCB had already published Guidelines categorizing industries into Red, Orange, Green and White, based on the concept of PI. The PI is arrived after considering quantity and quality of emissions/effluents generated, types of hazardous waste generated and


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consumption of resources. PI of an industrial sector is a numerical number in the range of 0 to 100 and is represented as follows:

PI = f (Water Pollution Score, Air Pollution Score and HW Generation Score).

During the Violation Period, impacts on the Environmental Components viz. Air, Water, Land, Biological and Socio-economics Environment are assessed based on the Norms specified by the Central Pollution Control Board (CPCB) to implement "Polluter Pays" Principle and to levy Environmental Compensation for Restoration of Environmental Damages. The Environmental Compensation shall be based on the following formula:

$$EC = PI \times N \times R \times S \times LF$$

Where,

EC is Environmental Compensation in Rupees

PI = Pollution Index of Industrial Sector

N = Number of days of violation took place

R = A factor in Rupees for EC

S = Factor for Scale of Operation

LF = Location Factor.

"Note:

- a) The industrial sectors have been categorized into Red, Orange and Green, based on their Pollution Index in the range of 60 to 100, 41 to 59 and 21 to 40, respectively. It was suggested that the average pollution index of 80, 50 and 30 may be taken for calculating the Environmental Compensation for Red, Orange and Green categories of industries, respectively.
- b) N, number of days for which violation took place is the period between the day of violation observed/due date of direction's compliance and the day of compliance verified by CPCB/SPCB/PCC.
- c) R is a factor in Rupees, which may be a minimum of 100 and maximum of 500. It is suggested to consider R as 250, as the Environmental Compensation in cases of violation.
- d) S could be based on small/medium/large industry categorization, which may be 0.5 for micro or small, 1.0 for medium and 1.5 for large units.


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- e) LF. could be based on population of the city/town and location of the industrial unit. For the industrial unit located within municipal boundary or up to 10 km distance from the municipal boundary of the city/town, following factors (LF) may be used:


Table No. 1.1: Location Factor Values

S. No	Population* (million)	Location Factor* (LF)
1	1 to <5	1.25
2	5 to <10	1.5
3	10 and above	2.0

*Population of the city/town as per the latest Census of India #LF will be 1.0 in case unit is located >10km from municipal boundary LF is presumed as 1 for city/town having population less than one million.

- f) For notified Ecologically Sensitive areas, for beginning, LF may be assumed as 2.0. However, for critically Polluted Areas, LF may be explored in future.
- g) In any case, minimum Environmental Compensation shall be ₹ 5000/day.
- h) In order to include deterrent effect for repeated violations, EC may be increased on exponential basis, i.e., by 2 times on 1st repetition, 4 times on 2nd repetition and 8 times on further repetitions.
- i) If the operations of the industry are inevitable and violator continues its operations beyond 3 months then for deterrent compensation, EC may be increased by 2, 4 and 8 times for 2nd, 3rd and 4th quarter, respectively. Even if the operations are inevitable beyond 12 months, violator will not be allowed to operate.
- j) Besides EC, industry may be prosecuted or closure directions may be issued, whenever required. It can be noticed that for all instances, EC for Red, Orange, and Green category of industries varies from 3,750 to 60,000 ₹/day.

Table No. 1.2: A sample calculation for Environmental Compensation


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Industrial Category	Red	Orange	Green
Pollution Index (PI)	60-100	41-59	21-40
Average PI	80	50	30
R-Factor	250		
S-Factor	0.5-1.5		
L-Factor	1.00-2.00		
Environmental Compensation (₹/day)	10,000-60,000	6,250-37,500	5,000-22,500

Considering the violation period of 1917 days from 03.11.2010 to 02.02.2016 (as it was notified as violation by TNPCB during the time of obtaining CTO), with applicable values of PI-50 (Orange Category Industry), N-1917 days (of violation period), R-Rs.250 (based on nature of violation; Max. Rs.250-), S-1.0 (cumulatively Medium Scale Unit), LF-2.0 (Population is 10 million and above), the Environmental Compensation computed is as follows:


$$EC = 50 \times 1917 \times 250 \times 1.0 \times 2.0 = \text{Rs.}4,79,25,000/- \text{ (Maximum)}$$

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	2,25,00,000
2	Natural Resource Augmentation Plan	1,20,00,000
3	Community Resource Augmentation Plan	1,34,25,000
Grand Total		4,79,25,000

The Project Cost is Rs.69.79 crores. CER Budget for the violation period is arrived as 2% of the Project Cost i.e., 1.40 crores/-.

CONCLUSIONS:

As the Proposal falls in High 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. 4,79,25,000/- which is higher than Environmental Compensation values of Rs. 1,21,45,000 based on the EIA model prepared by the EIA coordinator and Rs. 69,00,000 arrived on SEAC-TN model and hence it must be compensated for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan as follows:


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Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	2,25,00,000
2	Natural Resource Augmentation Plan	1,20,00,000
3	Community Resource Augmentation Plan	1,34,25,000
Grand Total		4,79,25,000

The Project Cost is Rs. 69.79 crores. CER Budget for the violation period is estimated as 2% of the Project Cost i.e., Rs. 1.40 crores /-. However, the SEAC may decide the following budget towards the Corporate Environmental Responsibility (CER) during the SEAC appraisal.

Accordingly, the amount prescribed for Ecological remediation augmentation, community resource augmentation, may be calculated and applied as per SEAC norms. The Sub-Committee decided to recommend the proposal for grant of post construction EC subject to the following conditions in addition to the normal conditions:

1. The amount prescribed for Ecological remediation (Rs. 225 lakhs), natural resource augmentation (Rs. 120 lakhs) & community resource augmentation (Rs. 134.25 lakhs), totaling Rs. 479.25 lakhs 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 in the EIA/EMP report.
2. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of six months. If not the bank guarantee will be forfeited to TNPCB without further notice.
3. The amount specified as CER (Rs. 70 Lakhs) shall be remitted in the form of DD to the beneficiary before issue of EC for the activities as committed by the PP and accepted by the SEAC. A copy of receipt from the beneficiary shall be submitted before issue of EC.
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. Adequate number of trees shall be planted as green belt & compensatory afforestation before obtaining CTO from TNPCB.
5. The permission letter from the competent authority for the disposal of excess treated sewage of 453 KLD before obtaining CTE from TNPCB.
 6. The proponent shall install OWC with adequate capacity before obtaining CTO from TNPCB.
 7. The proponent shall install the DG set away from the boundary ie. Compound wall and Stack of adequate height as per CPCB norm should be installed.
 8. The proponent is directed to provide the acoustic enclosure for the blowers in the existing STP before obtaining EC.
 9. The proponent shall provide 2 more 300 KLD capacity STP as proposed before obtaining CTO from TNPCB.
 10. The proponent should provide 31 more rainwater harvesting recharge pits as per approved dimensions. Also, the proponent should provide the rainwater collection sump before obtaining CTO from TNPCB.
 11. The proponent shall obtain the necessary permission for disposal of excess storm water to the tank situated nearby from the competent authority.
 12. The proponent should furnish the following certificates before obtaining the CTO from the TNPCB:
 - i. Certificate for structural safety from Anna University-Dept of Civil Engineering, CEG Campus, Chennai (or) IIT Madras (or) NIT Trichy.
 - ii. Adequacy report of STP from any of these institutions - Anna University- Centre for Environmental Studies, CEG Campus, Chennai / IIT Madras / NIT Trichy.

The inspection report submitted to the committee for further action.

RECOMMENDATION OF THE COMMITTEE

The Committee discussed the matter in this 393rd meeting of SEAC held on 20.07.2023 and accepted the recommendations of the Sub-Committee confirming the CER as 1% of Project cost (Rs. 70 Lakh) and decided to recommend for the grant of Environmental clearance under violation category for the project proposal along with standard


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environmental clearance conditions prescribed by MoEF&CC, Gol, the aforesaid conditions and following additional conditions:

Additional Conditions:

1. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
2. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
3. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
4. Project proponent is advised to explore the possibility and getting the cement in a closed container rather through the plastic bag to prevent dust emissions at the time of loading/unloading.
5. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
6. The proponent should provide the sufficient electric vehicle charging points as per the requirements at ground level and allocate the safe and suitable place in the premises for the same.
7. The project proponent should develop green belt in the township as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms.
8. Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.


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9. Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF Lko/Director of Environment and other concerning authority regularly.
10. Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned authority.
11. The project proponent shall provide a measuring device for monitoring the various sources of water supply namely fresh water, treated waste water and harvested rain water.
12. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.


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ANNEXURE

Annexure I : Monthly head count and wastewater generated from the Cognizant MEPZ campus since January 2014.

Month	Head count	Total wastewater generated Day
Jan'14	16407	534.58
Feb'14	15988	502.89
Mar'14	18065	593.26
Apr'14	17544	601.00
May '14	14441	646.35
June '14	17865	604.00
July '14	16278	630.19
August '14	16291	565.61
September '14	16097	507.60
October '14	16061	461.29
November '14	16380	463.70
December '14	16286	581.29
January'15	16079	510.55
February'15	16471	607.54
March'15	16646	570.32
April'15	16746	614.40
May'15	16783	558.29
June'15	16734	755.37
July'15	16365	867.71
Aug'15	16698	682.52
Sep'15	16637	584.40
Oct'15	16612	544.65
Nov'15	16750	406.37
Dec'15	16709	486.57
Jan'16	16665	541.84
Feb'16	16051	606.50
Mar'16	16638	614.97
April'16	16536	582.43
May'16	16434	563.00
June'16	16632	570.50
July16	16612	531.68
Aug16	16744	588.82
Sep16	16793	562.50
Oct16	16544	550.50
Nov16	16320	558.46
Dec16	16068	449.94
Jan17	14905	407.42
Feb17	13474	205.14


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Mar17	13184	387.14
Apr17	12680	336.61
May17	12125	323.88
Jun17	12306	315.59
Jul17	12073	303.30
Aug17	11046	289.48
Sep17	11269	268.98
Oct17	10926	233.43
Nov17	11006	248.13
Dec17	11038	261.10
Jan18	8199	265.52
Feb18	8789	299.57
Mar18	8930	300.23
Apr18	8798	308.76
May18	8942	301.31
Jun18	8865	287.44
Jul18	9204	303.54
Aug18	9022	282.37
Sep18	8478	251.29
Oct18	8795	268.03
Nov18	8864	239.11
Dec18	8391	282.61
Jan19	8738	283.45
Feb19	9314	281.86
Mar19	9258	252.34
Apr19	9125	271.68
May19	9244	184.71
Jun19	8662	215.32
Jul19	9834	254.20
Aug19	9186	235.82
Sep19	8824	227.53
Oct19	8719	232.07
Nov19	9368	262.80
Dec19	8740	253.98
Jan-2020	8876	250.01
Feb-2020	9236	282.76
Mar-2020	6482	227.57
Apr-2020	246	39.21
May-2020	420	48.52
Jun-2020	332	48.60
Jul-2020	437	46.96
Aug-2020	545	56.79
Sep-2020	661	62.03
Oct-2020	593	40.62
Nov-2020	543	19.53
Dec-2020	599	15.99
Jan-2021	533	10.66
Feb-2021	561	34.39
Mar-2021	546	31.92
Apr-2021	490	34.09
May-2021	295	26.76


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Jun-2021	311	24.73
Jul-2021	446	20.74
Aug-2021	486	35.02
Sep-2021	516	28.92
Oct-2021	508	15.68
Nov-2021	510	27.53
Dec-2021	623	28.99
Jan-2022	499	29.86
Feb-2022	505	31.98
Mar-2022	500	23.06
Apr-2022	483	31.35
May-2022	450	34.61
Jun-2022	472	29.16
Jul-2022	473	30.84
Aug-2022	467	29.18
Sep-2022	473	28.22

- a. Records of Head count and Wastewater generated provided in the above Table from 2014. Data is not readily available between 2010 to 2014. However, it was much less than 2014, as being the early period of occupancy.
- b. Head count has been reduced under 12000 from August 2017 and Water conservation measure initiated from December 2016. As a result, the wastewater generated from the campus has been below 535 KL.
- c. Wastewater generated from 2010 to 2014 is being treated through the 1.5 MLD STP of MEPZ as per the Environmental Clearance and continue to be treated through the STP till date, the treated water is used in flushing and gardening.


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ANNEXURE-I

SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED WITHIN 1 KM FROM THE RESERVE FORESTS


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.


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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 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.


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GRAVEL / RED EARTH & PEBBLES 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.
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 (TNPCB) 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.


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ROUGH STONE/JELLY/BLUE METAL QUARRY

- 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 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 (TNPCCB) 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.


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

Sl. No	Existing (or) Virgin Quarry	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m Up to 500 m
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.	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.	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.	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.	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.	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.	Training of the blasting crew on controlled blasting practices before engaged in operation.


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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
 - 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 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.


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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/EEMP 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 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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Annexure II

Standard Environmental Clearance Conditions prescribed by MoEF&CC for Construction Projects.

1. Statutory Compliance:

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.


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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.

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

2. Air quality monitoring and preservation:

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.
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.

3. Water Quality Monitoring and Preservation:

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.
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).
 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.
- 4. Noise Monitoring and Prevention:**
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.

5. Energy Conservation Measures:

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.

6. Waste Management:

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 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.

7. Green Cover:

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.

8. Transport:

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.

9. Human Health Issues:

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.

10. Corporate Environment Responsibility:


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).

11. Miscellaneous:


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 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).


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


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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>Adenaanthera pavonina</i>	Manjadi	மஞ்சளடி, ஆனைக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாடை
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>	Murukkamarum	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Punnai	புனை
13	<i>Cassia fistula</i>	Serakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	பூசாமரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Marjallavu	கோங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூலி
18	<i>Creteva adansoni</i>	Mavalingum	மாவலிங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சீறு உவா
21	<i>Diospyro sebenum</i>	Karungali	கருங்காளி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகை
23	<i>Ficus amplissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆத்ரூப்புவாசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயில் மரம், ஆயிலி
27	<i>Lannea 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	வில்லா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழாமரம்
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	எச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Murnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunmai	நறு முன்னை
42	<i>Premna tomentosa</i>	Malaipoovarasu	மலை பூவரசு
43	<i>Prosopis cinerea</i>	Vanni maram	வள்ளி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேள்வாங்கை
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கரிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிபுழைகள் சோபுகாய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxtomia</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாங் கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாந்திரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேள் மருது
57	<i>Toona ciliate</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Purvarasu	பூவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்பூளி


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Appendix –III

Display Board

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

காரங்கம்

காங்கம் கமிட்டி சபைப்புகளுக்கான கற்றுத்தரல் அலுவலக கிழக்கை திட்டமிடல்களுக்கு உட்பட்ட வரம்புள்ள பின்புலம், தேடுகிற பின்புலம், கற்றுத்தரல் அலுவலக தேதி வரை செலுத்தக்கூடிய உள்வாங்கு.

பகலில் பகுதி வார்ப்பு கொண்டிருக்கின்ற அமைதி திட்டம்	கொழிவின் எல்லையை அறிவிக்க வேண்டும் அமைதிப்படைகளின் ஆயுள் தாமதப்படுத்தி மீட்டி மிகவும் இடம் கொடுக்க வேண்டும்
நடவடிக்கை புறநகரில் கோட்டை மண்டலம் அமைதிப்படை:	கொழிவின் மிக அற்புதமான அமைதிப்படைகளை வெற்றிகரமாக கொடுக்க வேண்டும். வாணிகசேவை செல்லும் பாதையில் மிக அற்புதமான அமைதிப்படைகளை தாமதப்படுத்தி கொடுக்க வேண்டும். கொழிவின் அமைதிப்படை மீட்டி மிகவும் இடம் கொடுக்க வேண்டும்.
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முழுமையான திட்டமிடல்களை அறிவிக்க வேண்டும் (http://parishad.in) மீட்டி இலாபகரமான திட்டமிடல்களை வெற்றிகரமாக கொடுக்க வேண்டும். அமைதிப்படைகளை வெற்றிகரமாக கொடுக்க வேண்டும். அமைதிப்படைகளை வெற்றிகரமாக கொடுக்க வேண்டும்.	


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