State Expert Appraisal Committee (SEAC)

Minutes of 390th meeting of the State Expert Appraisal Committee (SEAC) held on 07.07.2023 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No: 390 - 01

(File No: 10010/2023)

Proposed Rough Stone & Gravel lease over an extent of 3.35.0 Ha at Survey No. 274/1A, 274/1B, 275/4, 276/3, 281/1 & 281/18, Pazhayaseevaram-A Village, Walajabad Taluk Kancheepuram District, Tamil Nadu by Thiru. M/s. Seyon Minerals, - For Environment Clearance (SIA/TN/MIN/428031/2023 dt 13.04.2023)

The proposal was placed in this 390th meeting of SEAC held on 07.07.2023. The Project Proponent made a detailed presentation on 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, M/s. Seyon Minerals has applied for Environment Clearance for the proposed Rough Stone & Gravel lease over an extent of 3.35.0Ha at Survey No. 274/1A, 274/1B, 275/4, 276/3, 281/1 & 281/18, Pazhayaseevaram-A Village, Walajabad Taluk Kancheepuram 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	10010		Category	B2
	SIA/TN/MIN/425656/2023 dt:13.04.2023.			1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	M/s. Seyon Minerals No 7/4, 8th Street, Nandanam Extension, Chennai-600 035	

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2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone & Gravel	
3.	S.F Nos. of the quarry site with area break-up	:	Survey No. 274/1A, 274/1B, 275/4, 276/3, 281/1 & 281/18,	
4.	Village in which situated	:	Pazhayaseevaram-A Village	
5.	Taluk in which situated	:	Walajabad Taluk	
6.	District in which situated	:	Kancheepuram District	
7.	Extent of quarry (in ha.)	:	3.35.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°48'02.9180"N to 12°48'11.0447"N 79°51'22.0988"E to 79°51'31.2402"E	
9.	Topo Sheet No.	:	57P/13	
10.	Type of mining	:	Opencast semi mechanized Mining method.	
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 – 12,95,260 m^3 Gravel- 69176 m^3	-
	Minable Resources m^3 (RoM)	:	Rough stone –	-

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			5,09,375 m^3 Gravel 55,160 m^3	
	Annual Peak Production in m^3	:	Rough stone – 75600 m^3 Gravel 23800 m^3	-
	Ultimate Depth in m	:	45m BGL	-
13.	Depth of water table	:	55-60m	
14.	Man Power requirement per day:	:	15 Nos.	
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	10.0 kLD 1.0 kLD 8.0 kLD 1.0 kLD	
16.	Power requirement		TNEB supply (for domestic activity) DG set (for industrial activity)	
17.	Precise area communication approved by the Assistant Geologist, Assistant Director(i/c), Dept. of Geology & Mining	:	Roc.No.321/Q3/2022, Dated:03.02.2023.	
18.	Mining Plan approved by Assistant Geologist, Assistant Director(i/c), Dept. of Geology & Mining	:	Roc.No.321/Q3/2022, Dated:28.02.2023.	
19.	Assistant Geologist, Assistant Director(i/c), Dept. of Geology & Mining 500m Cluster Letter		Roc.No.321/Q3/2022, Dated:28.02.2023.	

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20.	VAO Certificate Regarding Structures within 300m Radius		Letter Dated: Nil		
21.	Project Cost (excluding EMP cost)	:	Rs.316.00 lakh		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
		:	Max Total RoM in m^3	303575	55160
		:	Annual Max RoM in m^3	74600	23800
		:	Max Depth in m	43m	2m
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.24.25 Lakh Recurring cost/Annum – Rs. 21.66 Lakh +5% cost of inflation every year		
24.	CER cost (in Rs. Lakh).	:	Rs. 6.5 lakh as accepted by the PP		

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 74600 m^3 of Rough stone and 23800 m^3 of Gravel by maintaining the ultimate depth of mining of 45m 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 including production value as laid down in the mining plan

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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 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.

3) Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-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.

4) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

5) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical

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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.

6) 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.
7) As accepted by the Project Proponent the CER cost of Rs. 6.5 lakh and the amount shall be spent for the committed activities at Village Government School, village before obtaining CTO from TNPCB.

Agenda No: 390 - 02

(File No: 10017/2023)

Proposed Steel plant lease at S.F.No. 103/3, 111, 113/1B Chenneimalai Village, Perundurai Taluk, Erode District, Tamil Nadu by M/s. VMC Steel & Alloys Industry - For Term of Reference (SIA/TN/MIN/428081/2023 dt 05.05.2023)

The proposal was placed in this 390th meeting of SEAC held on 07.07.2023. 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, M/s. VMC Steel & Alloys Industry has applied seeking Terms of Reference for the expansion of existing Steel plant at S.F.No. S.F.No. 103/3, 111, 113/1B Chenneimalai Village, Perundurai Taluk, Erode District, Tamil Nadu.
2. The proposed project activity is covered under Category "B1" of Item 3(a) "Metallurgical Industries" of the Schedule to the EIA Notification, 2006, as amended.

Based on the presentation made by the proponent and the documents furnished, the SEAC decided to prescribe ToR for the preparation of detailed EIA report along with Public Hearing. The Detailed EIA shall include Standard ToR prescribed by MoEF&CC for Metallurgical Industries (Annexure II) along with the following additional ToR:

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1. The PP shall furnish the video graph of the entire plant operations.
2. DFO letter stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site and If the Vellode Bird Sanctuary is located within 10 km from the boundary of the proposed site, the PP shall include conservation measures for Vellode Bird Sanctuary in consultation with the DFO.
3. The PP shall furnish the details of arrangement made for permanent water supply from NTADC/TWAD Board.
4. Efficiency study/report of the existing furnace through reputed institution.
5. The PP shall discuss the best available technology available in this field and action plan for implementing the same.
6. The PP shall furnish action plan for harnessing 50% solar energy or shall purchase 75% renewable energy to meet the energy requirement.
7. The PP shall furnish the road map for achieving 100% green energy in 2030.
8. The PP shall furnish the action plan for 100% use of Electric Vehicles within next five years.
9. The PP shall furnish the action plan for the implementing the CER activities as committed.
10. The PP shall study in detail various operational measures to reduce the specific energy consumption in induction furnaces.
11. The proponent shall furnish details on the idling period provided.
12. The proponent shall furnish details on measures adopted for better and efficient operation of melting & charging.
13. The proponent shall furnish details on the control measures adopted during heat finishing and tapping.
14. The proponent shall study in detail about operational control measures to Minimize and control the refractory wall wearing.
15. The proponent shall explore the possibilities of utilizing state of the art technology with best global practice.
16. The proponent shall explore the possibilities of utilizing the treated wastewater instead of fresh water.

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

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permission obtained from the DTCP, if any.

29. The proponent shall conduct the EIA study and submit the EIA report for the entire campus along with layout and necessary documents such as "A" register and village map.

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

31. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.

32. The PP shall produce/display the EIA report, executive summary and other related information with respect to public hearing in Tamil.

33. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purposes involved in the project.

34. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

35. The project proponent shall explore the possibilities of treating and utilizing the trade effluent and sewage within the premises to achieve Zero liquid discharge.

36. The layout plan shall be furnished for the greenbelt area earmarked with GPS coordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should be not less than 15 % of the total land area of the project.

37. As the plant operation involves sensitive processing, the medical officer and the supporting staff involved in the health center activities shall be trained in occupational health surveillance (OHS) aspects through outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.

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

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39. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed EMP.

Agenda No: 390 - 03

(File No: 10024/2023)

Proposed Rough Stone and Gravel quarry lease over an extent of 0.94.10 Ha in S. F. No. 795/4 (P) & 806/1 of Ayankollankondan Village, Rajapalayam Taluk, Virudhunagar District, Tamil Nadu by Thiru A. Ajeesh - For Environmental Clearance

(SIA/TN/MIN/425656/2023 dt 13.04.2023)

The proposal was placed in this 390th meeting of SEAC held on 07.07.2023. The Committee noted that the project proponent has not turned up for the meeting. Therefore, **SEAC decided to defer the subject to a later date and directing the project proponent to furnish reasons for not attending the meeting.**

Agenda No: 390 - 04

(File No: 10031/2023)

Proposed Rough Stone & Gravel lease over an extent of 0.98.0 Ha at S.F No.131/1 (P) Puthur Village, Rajapalayam Taluk, Virudhunagar District, Tamil Nadu by Thiru. K.M. Muthukannan - For Environmental Clearance

(SIA/TN/MIN/425787/2023 dt 13.04.2023)

The proposal was placed in this 390th meeting of SEAC held on 07.07.2023 The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). **The SEAC noted the following:**

1. The Project Proponent, Thiru. K.M. Muthukannan, has applied for Environment Clearance for the Proposed Rough Stone & Gravel lease over an extent of 0.98.0 Ha at S.F No.131/1 (P) Puthur Village, Rajapalayam Taluk, Virudhunagar 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.

SEAC noted that the same proposal was dealt with in application No. SIA/TN/MIN/252090/2022, dated: 20/01/2022 and was appraised (File No. 8916/2022) in the 278th meeting of SEAC held on 27.05.2022 and as the SMTR (Srivilliputhur Megamalai Tiger Reserve) is located within 10 KM from the project site

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and as the ESZ for the Tiger Reserve is yet to be notified, the Committee decided not to recommend the proposal.

Subsequently, this subject was placed in the 521st meeting of Authority held on 17.06.2022. After detailed deliberation, the Authority decided to communicate the decision of the SEAC conveyed vide the minutes of 278th meeting SEAC meeting held on 27.05.2022 to the Project Proponent.

Now the PP has filed a new application vide online application No. SIA/TN/MIN/425787/2023, Dated: 13.04.2023 as below.

Description	Old File	New File
File No	8916	10031
Online Proposal No. for EC	SIA/TN/MIN/216202/2021, dated: 02/07/2021	SIA/TN/MIN/425787/2023 dt 13.04.2023

SEAC, therefore, decided that the proposal may be placed before the Authority as a decision has already been taken. SEIAA is also requested to examine tightening up procedures to prevent such previously decided proposals coming back in the guise of new proposals.

Agenda No: 390-05

(File No: 10011/2023)

Existing Standalone Steel rotting mill with production capacity of 3500 Tons/Month at S.F. No. 76/2, Annadanpatti Town Village, Salem South Taluk, Salem District, Tamil Nadu by M/s. Sri Venkateshwara Steel Industries - For Terms of Reference.

(SIA/TN/IND1/427513/2023, Dated: 03.05.2023)

The proposal was placed in 390th SEAC meeting held on 07.07.2023. 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. Sri Venkateshwara Steel Industries has applied for Terms of Reference for the Existing Standalone Steel rotting mill with production capacity of 3500 Tons/Month at S.F. No. 76/2, Annadanpatti Town Village, Salem South Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 3(a) "Steel Plant" of the Schedule to the EIA Notification, 2006.

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3. The proponent had obtained CTO from TNPCB vide consent order no. 1908221670315 under Air Act and Consent Order No. 1908121670315 under Water Act Dated: 10.09.2019 for the Manufacturing of M.S Rods and Bars, M.S. Squares, M.S. Rounds, M.S. Flats, M.S. Angles with production quantity of 3500 Tons/Month and with the point source emissions of Re-heating Furnace (Wet scrubber with stack of 23m height) and DG set of 82.5 KVA (3.5 m stack height) with validity up to 31.03.2029.
4. As per the MoEF&CC Notification S.O. 3250 (E) Dated: 20.07.2022,

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

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

Based on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) without Public Hearing, subject to the following TORs, in addition to the standard terms of reference for EIA study for Metallurgical Industries (Ferrous & Non-Ferrous) and details issued by the MOEF & CC (Annexure II) to be included in EIA/EMP Report:

1. The PP shall furnish Green Belt plan with minimum 33% Green cover along with EIA Report.
2. The proponent shall submit report of analysis with respect to air emission obtained from TNPCB along with EIA Report.
3. DFO letter stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
4. The PP shall furnish the details of arrangement made for permanent water supply from Salem Corporation/local panchayat.
5. Efficiency study/report of the existing furnace through reputed institution.

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6. The PP shall discuss the best available technology available in this field and action plan for implementing the same.
7. The PP shall furnish action plan for harnessing 50% solar energy or shall purchase 75% renewable energy to meet the energy requirement.
8. The PP shall furnish the road map for achieving 100% green energy.
9. The PP shall furnish the action plan for the implementing the CER activities as committed.
10. The PP shall study in detail various operational measures to reduce the specific energy consumption in re-heating furnaces.
11. The proponent shall furnish details on the idling period provided.
12. The proponent shall furnish details on measures adopted for better and efficient operation of melting & charging.
13. The proponent shall furnish details on the control measures adopted during heat finishing and tapping.
14. The proponent shall study in detail about operational control measures to Minimize and control the refractory wall wearing.
15. The proponent shall explore the possibilities of utilizing state of the art technology with best global practice.
16. The proponent shall explore the possibilities of utilizing the treated wastewater instead of fresh water.
17. The proponent must increase the Solar and Wind Energy sources and must explore the possibilities of achieving Net Zero energy consumption.
18. The proponent shall submit the copy of the consent to operate and the latest renewal consent order obtained from the TNPCB.
19. The proponent shall submit the compliance report from TNPCB for the conditions imposed in the consent order issued by the TNPCB.
20. The Environmental pollution control measures taken to deal with Air pollution, effluent generation and slag generation should be discussed in detail.
21. The project proponent has to strengthen the air pollution control measures of the existing system and furnish an adequacy report on the revamped system from a reputed institution like Anna University or IIT, Madras along with the EIA

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report. The revamping of the existing air pollution control measures should include the interlinking of the position of the hood system and furnace to ensure that the emission from the furnace shall be treated and routed through wet scrubber and stack.

22. The proponent shall submit the video and photograph of the operational details with particular reference to points of pollution in the existing plant.
23. Material balance and Water balance shall be furnished in accordance with MoEF&CC guidelines.
24. A detailed report on Solid waste & hazardous waste management shall be furnished.
25. Report on AAQ survey and proposed air pollution prevention and control measures shall be furnished in the EIA report.
26. The project proponent shall do the stoichiometric analysis of all the involved reactions to assess the possible emission of air pollutants in addition to the criteria pollutants, from the proposed project.
27. Adequacy report for ETP &STP for the proposed project obtained from any reputed Government institution such as IIT, Anna University, NIT shall be furnished.
28. Land use classification shall be obtained from the DTCP for the Survey Numbers of this project. Further, the project proponent shall submit the planning permission obtained from the DTCP, if any.
29. The proponent shall conduct the EIA study and submit the EIA report for the entire campus along with layout and necessary documents such as "A" register and village map.
30. The PP shall produce/display the EIA report, executive summary and other related information in Tamil.
31. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purposes involved in the project.
32. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

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33. The project proponent shall explore the possibilities of treating and utilizing the trade effluent and sewage within the premises to achieve Zero liquid discharge.
34. The layout plan shall be furnished for the greenbelt area earmarked with GPS coordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should be not less than 15 % of the total land area of the project.
35. As the plant operation involves sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
36. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed EMP.

Agenda No: 390-06

(File No: 10018/2023)

Proposed Rough Stone and gravel quarry lease area over an extent of Extent 1.55.0 Ha at S.F. No. 159/2 (P) of Kumbikulam Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu by M/s. Blue Metals Company Private Limited - For Environmental Clearance. (SIA/TN/MIN/423590/2023, Dated: 29.03.2023)

The proposal was placed in 390th SEAC meeting held on 07.07.2023. 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. Blue Metals Company Private Limited has applied for Environmental Clearance for the Proposed Rough Stone and gravel quarry lease area over an extent of Extent 1.55.0 Ha at S.F. No. 159/2 (P) of Kumbikulam Village, Radhapuram Taluk, Tirunelveli 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.

Based on the presentation made and scrutinizing the documents furnished by the Project proponent, SEAC has observed that SEIAA had granted Environmental Clearance to

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Tmt. P. Selva Azhagi, for mining of Rough Stone and Gravel at over an Extent of 2.42.0 Ha of Patta lands in S.F.Nos.162/5 (P), 162/6 (P) & 162/7(P) of the same area located adjacent to the current proposal, i.e., within a radius of 500 m on homogeneous ground. Besides, there is an existing pit located in the proposed mine lease area. Therefore, the SEAC decided to call for additional details as follows.

1. The proponent shall furnish the revised 500m cluster certificate obtained from the concerned AD (Mines) by indicating the ground reality by enumerating the list of Existing, Abandoned and Proposed Quarries in the lease area.
2. A clarification regarding the existing pit from AD/Mines.

Upon the receipt of aforesaid details, further deliberation shall be done.

Agenda No: 390-07

(File No: 10025/2023)

Proposed Expansion of Steel Melting Plant & Inclusion of Steel Rolling Mill at S.F. No. 36 /3 & 4, Amani Kondalampatti Village, Salem south Taluk, Salem District, Tamil Nadu by M/s. Sree Rengaraaj Steel and Alloys Pvt Ltd - For Terms of Reference.

(SIA/TN/IND1/428215/2023, Dated: 05.05.2023)

The proposal was placed in 390th SEAC meeting held on 07.07.2023. 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. Sree Rengaraaj Steel and Alloys Pvt Ltd has applied for Terms of Reference for the Proposed Expansion of Steel Melting Plant & Inclusion of Steel Rolling Mill at S.F. No. 36 /3 & 4, Amani Kondalampatti Village, Salem south Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 3(a) "Steel Plant" of the Schedule to the EIA Notification, 2006.
3. The proponent had obtained CTO from TNPCB vide consent order no. 160825311610 under Air Act and Consent Order No. 160815311610 under Water Act Dated: 17.11.2016 for the Manufacturing of 1200 TPM of Casted Blocks with 2 No of Induction Furnaces having capacity of 4 Tons each with validity up to 31.03.2026.

Based on the presentation made by the proponent SEAC recommended grant of Terms

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of Reference (TOR) with Public Hearing, subject to the following TORs, in addition to the standard terms of reference for EIA study for Metallurgical Industries (Ferrous & Non-Ferrous) and details issued by the MOEF & CC (Annexure II) to be included in EIA/EMP Report:

1. The proponent shall disclose all the facts with respect to the CTO/CTE obtained from TNPCB till date along with EIA Report.
2. The proponent shall discuss in detail about the alternative site.
3. The proponent shall submit Disaster Management Plan along with EIA Report.
4. The PP shall furnish Green Belt plan with minimum 33% Green cover along with EIA Report.
5. The proponent shall submit report of analysis with respect to air emission obtained from TNPCB along with EIA Report.
6. DFO letter stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
7. The PP shall furnish the details of arrangement made for permanent water supply from Salem Corporation/local panchayat.
8. Efficiency study/report of the existing furnace through reputed institution.
9. The PP shall discuss the best available technology available in this field and action plan for implementing the same.
10. The PP shall furnish action plan for harnessing 50% solar energy or shall purchase 75% renewable energy to meet the energy requirement.
11. The PP shall furnish the road map for achieving 100% green energy in 2030.
12. The PP shall furnish the action plan for 100% use of Electric Vehicles within next five years.
13. The PP shall furnish the action plan for the implementing the CER activities as committed.
14. The PP shall study in detail various operational measures to reduce the specific energy consumption in re-heating furnaces.
15. The proponent shall furnish details on the idling period provided.
16. The proponent shall furnish details on measures adopted for better and efficient operation of melting & charging.

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

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30. The project proponent shall do the stoichiometric analysis of all the involved reactions to assess the possible emission of air pollutants in addition to the criteria pollutants, from the proposed project.
31. Adequacy report for ETP &STP for the proposed project obtained from any reputed Government institution such as IIT, Anna University, NIT shall be furnished.
32. Land use classification shall be obtained from the DTCP for the Survey Numbers of this project. Further, the project proponent shall submit the planning permission obtained from the DTCP, if any.
33. The proponent shall conduct the EIA study and submit the EIA report for the entire campus along with layout and necessary documents such as "A" register and village map.
34. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
35. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
36. The PP shall produce/display the EIA report, executive summary and other related information with respect to public hearing in Tamil.
37. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purposes involved in the project.
38. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
39. The project proponent shall explore the possibilities of treating and utilizing the trade effluent and sewage within the premises to achieve Zero liquid discharge.
40. The layout plan shall be furnished for the greenbelt area earmarked with GPS coordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be

at least 3m wide all along the boundaries of the project site. The green belt area should be not less than 15 % of the total land area of the project.

41. As the plant operation involves sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
42. The proposal for Roof Top solar panel covering all the roof except furnace shall be included in the EIA Report.
43. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed EMP.

Agenda No: 390-08

(File No: 10032/2023)

Proposed Rough Stone and gravel quarry lease area over an extent of Extent 3.07.5 Ha at S.F. No. 225/1, 2, 8B, 8C, 8D, 241/3H, 3I, 5, 6, 7, 8 & 242/9 (P) of Pazhayaseevaram-A Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu by Thiru. K. Kothandan - For Environmental Clearance. (SIA/TN/MIN/428339/2023, Dated: 06.05.2023)

The proposal was placed in 390th SEAC meeting held on 07.07.2023. 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. K. Kothandan has applied for Environmental Clearance for the Proposed Rough Stone and gravel quarry lease area over an extent of Extent 3.07.5 Ha at S.F. No. 225/1, 2, 8B, 8C, 8D, 241/3H, 3I, 5, 6, 7, 8 & 242/9 (P) of Pazhayaseevaram-A Village, Walajabad Taluk, Kancheepuram 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.

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

1. Based on the KML file uploaded by the proponent and Google imagery, it is

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ascertained that the proposed mine lease area is surrounded by water tanks and the Palar River is situated at 2km and Palayaseevaram Check Dam is also at a distance of 2km.

Therefore, the SEAC decided to call for additional details as follows

1. Since water bodies are situated within 500 m, the PP shall furnish the scientific studies carried out to assess the hydrogeological condition of the quarry comprehensively and impact of quarrying on the existing water tank, Check dam and River along with spelling out mitigation measures during the course of quarrying for ensuing safe operation, 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, University of Madras – Centre for Environmental Studies, Dept of Geology - Anna University Chennai, and Department of Geology - Periyar University, Salem.
2. The proponent shall submit data regarding the depth of Water table observed from the open well within 1km radius from the proposed mine lease area.

Upon the receipt of aforesaid details, further deliberation shall be done.

Agenda No: 390-09

(File No.6235/2018)

Existing Limestone Quarry lease over an extent of 1.01.0 Ha in S.F.No. 128/8A, 9, 10A, 12B & 13 at Pannaimoondradaippu Village, Tiruchuli Taluk, Virudhunagar District, Tamil Nadu by M/s. Kumaran Mines, – For Environmental clearance under 'violation category' (SIA/TN/MIN/428094/2023, dated:04.05.2023)

The proposal was placed in the 390th meeting of SEAC held on 07.07.2023. 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, M/s. Kumaran Mines, has applied for Environmental Clearance for the Existing Limestone Quarry lease over an extent of 1.01.0 Ha in S.F.No. 128/8A, 9, 10A, 12B & 13 at Pannaimoondradaippu Village, Tiruchuli Taluk, Virudhunagar District, Tamil Nadu.

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2. The project/activity is covered under Category "B" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification,2006.
3. ToR under violation was issued to the project proponent obtained vide Lr No. SEIAA-TN/F.No.6235/ToR-325/2018 Dated:11.05.2018.
4. The proponent has filed four applications in the PARIVESH Portal for the same proposal. The details are as follows:
   (i) Application seeking Environmental Clearance:
      a) Proposal No. SIA/TN/MIN/62056/2017 dated.26.01.2017
      b) Proposal No. SIA/TN/MIN/428094/2023 dated.04.05.2023
   (ii) Applications seeking ToR under violation category:
      a) Proposal No. SIA/TN/MIN/27566/2018 dated:13.05.2017
      b) Proposal No. SIA/TN/MIN/23090/2018 dated:04.04.2018

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

After the receipt of the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category.

In the meanwhile, the SEAC instructed the proponent to withdraw the following duplicate proposals in the PARIVESH Portal since they are being placed as redundant applications:

i) ToR application - Proposal No. SIA/TN/MIN/27566/2018 dated:13.05.2017
ii) EC Application - Proposal No. SIA/TN/MIN/62056/2017 dated.26.01.2017

Agenda No: 390-10

(File No.6676/2023)

Proposed Construction of Residential Building Complex at T.S. No. 9/20A, 9/20B, 10/5, 10/6, 10/7-1, 10/7-2, 10/7-3, 11/4, 11/5, 11/6, 11/7A, 11/7B, 11/8, 11/10, 11/11, 12/9, 12/11, 12/12, 12/14, 13/1, 13/2A, 13/3A, 13/4A1, 13/4B1, 13/4C1, 13/5A, 15/1B, 15/2A, 15/2B1, 15/4A, 15/4C, 15/5 and 16/1 of Block No.25 Ward C, Zamin Pallavaram and T.S.No..4/1,

4/3, 5/1, 5/2, 5/3, 5/4A1, 5/4A2, 5/4B, 5/5/2, 5/6, 5/7, 5/8, 5/9, 5/10/2, 6/1, 6/2, 6/3, 6/4/1, 6/11A1, & 6/12 of Block No. 19 Ward G, Nemilichery Village of Pallavaram Town, Pallavaram Taluk, Chengalpattu District, Tamilnadu by M/s. Prestige Pallavaram Ventures – For Environmental clearance.

(SIA/TN/MIN/427506/2023, dated:28.04.2023)

The proposal was placed in the 390th meeting of SEAC held on 07.07.2023. 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, **M/s. Prestige Pallavaram Ventures**, has applied for Environmental Clearance for the Proposed Construction of Residential Building Complex at T.S. No. 9/20A, 9/20B, 10/5, 10/6, 10/7-1, 10/7-2, 10/7-3, 11/4, 11/5, 11/6, 11/7A, 11/7B, 11/8, 11/10, 11/11, 12/9, 12/11, 12/12, 12/14, 13/1, 13/2A, 13/3A, 13/4A1, 13/4B1, 13/4C1, 13/5A, 15/1B, 15/2A, 15/2B1, 15/4A, 15/4C, 15/5 and 16/1 of Block No.25 Ward C, Zamin Pallavaram and T.S.No..4/1, 4/3, 5/1, 5/2, 5/3, 5/4A1, 5/4A2, 5/4B, 5/5/2, 5/6, 5/7, 5/8, 5/9, 5/10/2, 6/1, 6/2, 6/3, 6/4/1, 6/11A1, & 6/12 of Block No. 19 Ward G, Nemilichery Village of Pallavaram Town, Pallavaram Taluk, Chengalpattu District, Tamilnadu.
2. The project/activity is covered under Category "B1" of Item 8(b) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. ToR was issued to the project proponent vide Lr.No. SEIAA-TN/F.No.6676/SEAC/8(b)/ToR-1359/dated.16.02.2023.

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

1. **Proposed Construction of Residential Building Complex at T.S. No. 9/20A, 9/20B, 10/5, 10/6, 10/7-1, 10/7-2, 10/7-3, 11/4, 11/5, 11/6, 11/7A, 11/7B, 11/8, 11/10, 11/11, 12/9, 12/11, 12/12, 12/14, 13/1, 13/2A, 13/3A, 13/4A1, 13/4B1, 13/4C1, 13/5A, 15/1B, 15/2A, 15/2B1, 15/4A, 15/4C, 15/5 and 16/1 of Block No.25 Ward C, Zamin Pallavaram and T.S.No..4/1, 4/3, 5/1, 5/2, 5/3, 5/4A1, 5/4A2, 5/4B, 5/5/2, 5/6, 5/7, 5/8, 5/9, 5/10/2, 6/1, 6/2, 6/3, 6/4/1, 6/11A1, & 6/12 of Block No. 19 Ward G, Nemilichery Village of Pallavaram Town, Pallavaram Taluk, Chengalpattu District, Tamil Nadu M/s Prestige Pallavaram Ventures.**

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2. M/s Eco Services India Private Limited is the EIA Consultant for the project.
3. Total plot area of the project is 88,617.95 m^2 and built-up area is 4,26,178 m^2 respectively.
4. Maximum number of floors will be 2B+G+14 Floors and maximum height of the building will be 45.4 m.
5. Total Saleable DU's (dwelling units) is 2069.
6. The project proposal falls under Category–8(b) 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	88,618	SQMT
2	Proposed Built Up Area	4,26,178	SQMT
3	Total no of Saleable DU's/Villas	2,069	Nos.
4	Max Height - (Height of tallest block at terrace level)	45.4	M
5	No of Building Blocks (Residential + Community facilities)	14	Nos.
6	Max No. of Floors	2B+G+14	Nos.
7	Expected Population (Residential+ Floating)	10,862	No.
8	Total Cost of Project	795.35	CR
9	Project Activity:	Construction of Residential Building Complex with 13 Residential Blocks having 2B+G+14 Floors + Head room, Club house – 2B+G+5 Floors and other utilities (STP, OWC, DG Room, E-Waste Collection Room, Hazardous Waste	

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		Storage Shed, Security Room) with a total built up area of 4,26,178 Sq.m.	
AREAS			
10	Permissible Ground Coverage Area (40%)	35,447	SQMT
11	Proposed Ground Coverage Area (25.72%)	21,454.00	SQMT
12	Permissible FAR Area (3.25)	2,88,008.50	SQMT
13	Proposed FAR Area (3.20)	2,84,052.26	SQMT
14	Other Non-FAR Areas - including basement area etc.	1,42,125.74	SQMT
15	Proposed Total Built Up Area	4,26,178.00	SQMT
WATER			
16	Total Water Requirement	1468	KLD
17	Fresh water requirement	938	KLD
18	Treated Water Requirement	530	KLD
19	Wastewater Generation	1385	KLD
20	Proposed Capacity of STP	1580	KLD
21	Treated Water Available for Reuse	1385	KLD
22	Treated Water Recycled	530	KLD
23	Surplus treated water to be discharged in Corporation Sewer with Prior permission	855	KLD
RAINWATER HARVESTING			
24	Rainwater Harvesting - Recharge Pits	25	Nos.
PARKING			
25	Total Parking Required as per Building Bye Laws	2328 (cars:2,043; two wheelers: 285)	No.
26	Proposed Total Parking	3379 (cars: 3,009 & two wheelers:370)	No.
27	Parking in Basements	2673 (cars: 2673 & two wheelers:370)	No.

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	GREEN AREA		
28	Proposed Green Area (Minimum 15.0% of plot area)	12,554.65	SQMT
	Total Plot area	88,618	SQMT
	Existing trees on plot	-	-
	Number of trees to be planted	1045	Nos.
	Number of trees to be transplanted/cut	-	-
	SOLID WASTE MANAGEMENT		
29	Total Solid Waste Generation	6501	Kg/day
30	Organic waste	3817	Kg/day
31	Quantity of E-Waste Generation- T/annum	11.0	T/annum
32	Quantity of Non-Hazardous waste Generation	2545	Kg/day
33	Quantity of Sludge Generated from STP	139	Kg/day
34	Mode of treatment & disposal: i) Biodegradable waste ii) Non-biodegradable waste iii) STP Sludge iv) E-waste	Treated in OWC & Used as manure. Sent to authorized recyclers. Dewatered and used as manure. Handed over to dismantlers/authorized recyclers.	-
	POWER / GREEN POWER		
35	Total Power Requirement	20.5	MVA
36	DG set backup	7500	KVA
37	No of DG Sets	12 nos. of 625 KVA	No.
38	Solar Panels – Roof Coverage	50	%

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39	Hot Water Requirement Of which met by Solar Panels	Solar power from solar panels will be connected to grid	-

8. Population details:

POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION
Total Saleable Du's	2069	5 persons per unit	10345
Total			**10345**
Non-Residential			
CLUB (Employees etc.)	Area	2% of total residential population	207
Club	-	-	-
Commercial	-	-	-
Facility Management Staff & Vistors	-	-	-
Total			**207**
Visitors			
Residential		3 % of Total Residential population	310
Club/Community Hall		-	-
Commercial			
Total Visitors			**310**
Total Population			**10862**

9. EMP & CER:

EMP Cost	**Construction Phase:** i) Capital Cost – Rs.540 Lakhs ii) Annual Operational Expenses – Rs.143 Lakhs **Operation Phase** i) Capital Expenses – Rs.2863 Lakhs ii) Annual Operational Expenses – Rs.955 Lakhs

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CER Cost	S.No	Description	Budgetary Allocation
	1	To provide Infrastructure Development to following Schools: i) Pallavaram Corporation School, Subramaniya, Pallavaram. ii) Govt. Higher Secondary School, Pammal Main Road, Pallavaram. iii) Govt. High School Old Pallavaram, Sarah Nagar, Pallavaram. iv) Govt. High School, Gandhi Road, Old Pallavaram v) Primary School, Hasthinapuram, Nethaji Nagar Main Road, Chromepet vi) Municipal Higher Secondary School, Bathbanaba Nagar, Chromepet.	Rs. 140 Lakhs
	2	Reclamation of Kallukulam Tank, Pudukottai District.	Rs. 20 Lakhs
		Total	**Rs. 160 Lakhs**

RECOMMENDATIONS OF THE COMMITTEE

The Committee discussed the matter and recommended grant of environmental clearance for the project proposal as above along with standard environmental clearance conditions prescribed by MoEF&CC, GoI and the following additional conditions:

Additional Conditions:

1. PP shall furnish commitment letter from the ULB/Metro Water towards supply of water and disposal of sewage water before issue of EC.
2. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
3. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.

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4. 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.
5. 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.
6. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
7. 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.
8. 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.
9. Project proponent should invest the CSR/CER amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
10. Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF&CC/Director of Environment and other concerning authority regularly.
11. 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.

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12. 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.
13. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.

Standard Environmental Clearance Conditions prescribed by MoEF&CC:

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 drawl 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 system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 andPM25) 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, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
5. Sand, murram, loose soil, cement, stored on site shall 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 shall 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.

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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 six monthly Monitoring reports.
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.

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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 darea and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge 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.

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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 six monthly Monitoring reports.
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 made 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.

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2. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
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. 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.
4. 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.
5. 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.
6. 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:

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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 neighboring 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 off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
7. Use of environment 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 environment 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 so as 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:

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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.

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 for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to

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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:

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1. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for 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 six-monthly report.
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 MoEF&CC/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 has to 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 six-monthly reports 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 Regional Office as well as the Ministry, 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, commitment made during Public Hearing and also that during their presentation to the State Expert Appraisal Committee.
9. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA.
10. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11. SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. SEIAA 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 this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer

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(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.

Agenda No: 390-11

(File No.10019/2023)

Proposed Rough Stone and Gravel Quarry lease over an extent of 0.54.65 Ha (Patta land) in S.F.No. 264/1A2 at Kambiliampatty Village, Dindigul East Taluk, Dindigul District, Tamil Nadu by Thiru. R. Jayaraman, – For Environmental clearance (SIA/TN/MIN/428372/2023 dated:06.05.2023)

The proposal was placed in the 390th meeting of SEAC held on 07.07.2023. 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. R. Jayaraman** has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry lease over an extent of 0.54.65 Ha (Patta land) in S.F.No. 264/1A2 at Kambiliampatty Village, Dindigul East Taluk, Dindigul 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.

Based on the presentation and details furnished by the project proponent, the Committee decided to call for the following details from the project proponent to consider the proposal for appraisal:

i) The PP shall obtain **NBWL clearance** since the Kadavur Slender Loris Sanctuary is located within 10 Km, i.e., 2.9 Km from the proposed project site.

On receipt of the same, further deliberations will be done.

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Agenda No: 390-12

(File No.10026/2023)

Proposed Brick Earth Quarry lease over an extent of 4.05.0 Ha in S.F.No. 172/22A2 of Kirungakkottai Village, Manamadurai Taluk, Sivagangai District, Tamil Nadu by Thiru. R. Jayapal – For Environmental clearance

(SIA/TN/MIN/428449/2023 dated:08.05.2023)

The proposal was placed in the 390th meeting of SEAC held on 07.07.2023. 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. R. Jayapal**, has applied for Environmental Clearance for the Proposed Brick Earth Quarry lease over an extent of 4.05.0 Ha in S.F.No. 172/22A2 of Kirungakkottai Village, Manamadurai Taluk, Sivagangai 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 soil test report submitted by the proponent obtained from Anna University, Dindigul indicates the total % of sand in the soil mixture to be **36.11%.**
4. Further, from the KML file, it is noted that the **Vaigai river** is located within 300m and the **Upparu river** within 900m from the proposed project site. Further, it is ascertained that there is an Odai abutting the site.
5. Acting on the Judgment issued by the Hon'ble Madurai Bench of Madras High Court in W.P.(MD) Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019 dated 12.02.2021, the Director of Geology and mining, Govt of Tamil Nadu, in his letter No. 7240/MM6/2019 Dt. 30.7.2021, has inter alia, issued the following directions:
    i) No quarry lease shall be granted in areas where the test results indicate the presence of sand in the composition.
    ii) No quarry lease shall be granted in the patta lands adjoining to the rivers, streams, canals etc.,

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iii) No permission shall be granted for quarrying Gravel, Earth, etc., in patta land for a period less than one year.

iv) Lease deed shall be executed in the Form set out in Appendix IV or Appendix V to the Tamil Nadu Minor Mineral Concession Rules 1959.

In the present case, the Committee, therefore, decided not to recommend the proposal for grant of Environmental Clearance since the current proposal is located adjacent to the water bodies including the rivers apart from possessing the high sand content covered under points (i) & (ii) of letter No. 7240/MM6/2019 Dt. 30.7.2021 of Director of Geology and mining, Govt of Tamil Nadu, as mentioned above.

Agenda No: 390-13

(File No.513/2023)

Existing Educational Institutional building in S.F. No. 49 to 59, 60/1B, 60/1C, 62/1, 62/2, 62/4A, 63/1, 64/1A, 64/1B, 64/3A, 64/3B, 64/4, 65, 66, 67, 68 to 77, 79 to 82, 83/2, 84/1A, 84/1B, 84/2A, 84/2B, 85, 86/1, 86/2, 87/1, 87/2, 118/1A, 118/1B1, 118/2A, 118/2B, 119, 120, 121/1, 121/2, 121/3, 121/4A, 121/4B, 122/1A, 122/1B, 122/2, 123/1, 123/2, 128/1A1, 128/1A2, 128/2, 128/3, 129/2A, 129/2B, 130/1, 130/2, 131 to 151, 153 to 158, 159/1, 159/2A, 161/1, 161/2, 162, 169/2, 169/3A, 169/3B, 170/1, 197/1A, 198/2B1, 198/3, 198/4A & 198/4B of Kalavakkam Village and Survey Nos. 1034, 1035, 1036, 1037, 1038, 1039, 1040/1B, 1040/2B, 1041, 1046, 1047, 1048, 1226, 1227/2A, 1227/2B, 1228, 1234, 1236, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247/1C, 1247/2, 1248/1C, 1248/2, 1395C/1A1, 1395C/2A, 1395C/4B, 1415 of Thaiyur B Village, Tiruporur Taluk, Chengalpattu District, Tamil Nadu by M/s. SSN Trust – For Environmental clearance (SIA/TN/INFRA2/429590/2023, dated:18.05.2023)

The proposal was placed in the 390th meeting of SEAC held on 07.07.2023. 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, M/s. SSN Trust, has applied for Environmental Clearance for the Existing Educational Institutional building in S.F. No. 49 to 59, 60/1B, 60/1C, 62/1, 62/2, 62/4A, 63/1, 64/1A, 64/1B, 64/3A, 64/3B, 64/4, 65, 66, 67, 68 to 77, 79 to 82, 83/2, 84/1A, 84/1B, 84/2A, 84/2B, 85, 86/1, 86/2, 87/1, 87/2, 118/1A, 118/1B1, 118/2A, 118/2B, 119, 120, 121/1, 121/2, 121/3, 121/4A, 121/4B,

122/1A, 122/1B, 122/2, 123/1, 123/2, 128/1A1, 128/1A2, 128/2, 128/3, 129/2A, 129/2B, 130/1, 130/2, 131 to 151, 153 to 158, 159/1, 159/2A, 161/1, 161/2, 162, 169/2, 169/3A, 169/3B, 170/1, 197/1A, 198/2B1, 198/3, 198/4A & 198/4B of Kalavakkam Village and Survey Nos. 1034, 1035, 1036, 1037, 1038, 1039, 1040/1B, 1040/2B, 1041, 1046, 1047, 1048, 1226, 1227/2A, 1227/2B, 1228, 1234, 1236, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247/1C, 1247/2, 1248/1C, 1248/2, 1395C/1A1, 1395C/2A, 1395C/4B, 1415 of Thaiyur B Village, Tiruporur Taluk, Chengalpattu District, Tamil Nadu.

2. The project/activity is covered under Category "B" of item 8(b) "Townships and Area Developments Projects" of the Schedule to the EIA Notification, 2006.
3. **ToR under violation category** was accorded to the project proponent vide Lr.No. SEIAA-TN/F.No.513/Violation/ToR-1146/2022 dated.10.05.2022.

During the presentation, the Committee noted that another proposal belonging to the same proponent in the same location is scheduled for appraisal in the 391st SEAC meeting to be held on 13.07.2023. Hence, the Committee decided to defer the proposal and appraise both the proposal together during 391st SEAC meeting.

Agenda No: 390-14

(File No: 10013/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 3.55.5Ha at SF. No. 162/2, 162/3, 162/4, 162/5, 162/6 (P), 162/7A, 162/7B, 162/8(P) & 162/9(P) of Rakkathanpatti Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by Thiru. S. Anandhan- for Environmental Clearance.

(SIA/TN/MIN/427881/2023, Dated:03.05.2023)

The proposal was placed in 390th meeting of SEAC held on 07.07.2023. 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. S. Anandhan has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 3.55.5Ha at SF.No. 162/2, 162/3, 162/4, 162/5, 162/6 (P), 162/7A, 162/7B, 162/8 (P) & 162/9 (P) of Rakkathanpatti Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu.

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

File No	10013/2023 SIA/TN/MIN/427881/2023, Dated:03.05.2023		Category	B2
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru S. Anandhan S/o Sethuraman Palakudipatti Vallathirakkottai Post, Alangudi Taluk, Pudhukottai District-622303.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/ Limestone)	:	Rough stone & Gravel quarry	
3.	S.F Nos. of the quarry site with area break-up	:	162/2, 162/3, 162/4, 162/5, 162/6 (P),162/7A, 162/7B,162/8 (P) & 162/9 (P)	
4.	Village in which situated	:	Rakkathanpatti	
5.	Taluk in which situated	:	Kulathur	
6.	District in which situated	:	Pudukkottai	
7.	Extent of quarry (in ha.)	:	3.55.5Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	10°37'07.15"N to 10°37'15.93"N 78°54'30.59"E to 78°54'40.86"E	
9.	Topo Sheet No.	:	58 -J/14	
10.	Type of mining	:	Open Cast mechanized Mining	
11.	Life of Project	:	10 Years	
	Lease Period	:	10 Years	

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	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	Weathered Rock	Gravel
			12,44,250m^3	1,06,650m^3	71,100m^3
	Minable Resources m^3 (RoM)	:	Rough Stone		Gravel
			4,63,950m^3	73,194m^3	52,546m^3
	Annual Peak Production in m^3	:	Rough Stone		Gravel
			55,000 m^3	16,692m^3	29,944m^3
	Ultimate Depth in meters	:	40m BGL		
13.	Depth of water table	:	70m - 65m		
14.	Man Power requirement per day	:	30 Employees		
15.	Water requirement: 1. Drinking water & Utilized water 2. Dust suppression 3. Green belt	:	2.0 KLD 0.3 KLD 1.0 KLD 0.7 KLD		
16.	Power requirement	:	TNEB 1,96,860Liters of HSD will be utilized		

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17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Rc.No. 628/2022 (G&M) Dated: 02.02.2023			
18.	Mining Plan approved by Assistant Director, Department of G&M.	:	Rc.No. 628/2022 (G&M) Dated: 24.02.2023			
19.	500m Cluster Letter approved by the Assistant Director, Department of G&M.	:	Rc.No. 628/2022 (G&M) Dated: 24.02.2023			
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated :15.03.2023			
21.	Project Cost (excluding EMP cost)	:	Rs. 67,33,000/-			
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.		
				Rough Stone	Weathered Rock	Gravel
		:	Max Total RoM in m^3	4,63,950m^3	73,194m^3	52,546m^3
		:	Annual Max RoM in m^3	55,000m^3	16,692m^3	29,944m^3
		:	Max Depth in mtrs	40m BGL		
23.	EMP cost (in Rs. Lakh).	:	Rs.368.72Lakhs			

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24.	CER cost (in Rs. Lakh).	:	Rs.8 Lakhs

Based on the presentation made and the 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 55,000m³ of Rough stone, and 16,692m³ of Weathered Rock and 29,944m³ of Gravel by maintaining the ultimate pit depth of 40 m BGL as per the approved mining plan subject to the standard conditions & normal conditions stipulated by MoEF&CC and Annexure-I, 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 proponent shall furnish the photograph showing the plantation of 1750 Nos. of tall saplings of native species carried out within the proposed mining area and other prominent places such as schools, Govt offices and along the road as committed at the time of the CTO from TNPCB.
3) In order to provide the safety to the persons employed in the mine, the Project Proponent along with the PP of adjacent mine shall submit the Notice of Opening of the respective mines to the Director of Mines Safety, DGMS-Chennai Region under Regulation No.3 (1) of Metalliferrous Mines Regulations 1961 before the Lease Execution for obtaining necessary Permission under Regulation 111 (3) of MMR, 1961 to carry out the mining operations within 7.5 m of the common boundary of the both mines.
4) Since the habitations/structures are situated within a radial distance of 550 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to establish the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras,

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NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-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) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

6) As accepted by the Project Proponent the CER cost of Rs. 8 Lakhs, out of which Rs.4 Lakhs shall be spent for the committed activities in the Panchayat Union Primary School, Palakkudipatti, Vallathirakottai post, Thiruvarangulam Union, Pudukottai and another Rs.4 Lakhs shall be spent to kulamangalam south government higher school as committed before obtaining CTO from TNPCB.

Agenda No: 390-15

(File No: 10020/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 3.78.0Ha at SF.No. 110/3, 110/4, 110/5, 127/1 & 127/2 of Kodangipatti Village, Bodinaickanur Taluk, Theni District, Tamil Nadu by Thiru.R.Seenivasan - for Environmental Clearance.

(SIA/TN/MIN/428338/2023, Dated:06.05.2023)

The proposal was placed in 390th meeting of SEAC held on 07.07.2023. 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. R. Seenivasan has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 3.78.0Ha at SF. No. 110/3, 110/4, 110/5, 127/1 & 127/2 of Kodangipatti Village, Bodinaickanur Taluk, Theni District, Tamil Nadu.

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

Based on the presentation and document furnished by the project proponent, SEAC observed that the total area comes to 6.51 Ha > 5 Ha on viewing the 500m radius cluster certificate and decided to call for the following additional details.

1. The PP shall apply for obtaining the ToR, if the total area of cluster is more than 5 Ha.
2. PP shall furnish the following details obtained through the comprehensive scientific studies carried out by the Department of Plant Science and Department of Sociology of Manonmaniam Sundaranar University (MSU), Tirunelveli.
    (i) Analysis of soil profile, specifically on top soil and organic content of top soil.
    (ii) Complete Flora and Fauna study by engaging the experts of the MS University.
    (iii) Enumeration of Native Fodder grasses and other fodder plants.
    (iv) Medicinal plants harvested by the local people for their own use.
    (v) Ethnic groups like Kattunayaka living in the area.
    (vi) Their dependence on the flora for Livelihood and Life support.
    (vii) Occurrence of Any endemic species and endangered species.
    (viii) If there are any NTFP collected from the area for Liveliy and Life support.
    (ix) Folk healers of the area and their dependence on local Biodiversity.
3. The PP shall furnish the complete details on the Agricultural activities within 500m radius.

On receipt of the reply, the Committee will deliberate further and decide future course of action.

Agenda No: 390-16

(File No: 10027/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 4.00.0Ha at SF.No. 147/1A, 147/1B, 147/2A, 147/2B, 147/3F, 147/3G, 147/7, 147/8, 148/2, 148/3, 148/4, 148/5 & 148/6 of Pinnalvadi Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu by Tmt.S.Danalakshmi - for Environmental Clearance.

(SIA/TN/MIN/428349/2023, Dated:08.05.2023)

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The proposal was placed in 390th meeting of SEAC held on 07.07.2023. 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, Tmt. S.Danalakshmi has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 4.00.0Ha at SF.No. 147/1A, 147/1B, 147/2A, 147/2B, 147/3F, 147/3G, 147/7, 147/8, 148/2, 148/3, 148/4, 148/5 & 148/6 of Pinnalvadi Village, Ulundurpet Taluk, Kallakurichi 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.

File No	10027/2023 SIA/TN/MIN/428349/2023, Dated:08.05.2023		Category	B2
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Tmt. S. Danalakshmi, W/o. Subramanian, Thiruppayar Thakka Village, Ulundurpet Taluk, Kallakurichi District-606305	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone & Gravel quarry	
3.	S.F Nos. of the quarry site with area break-up	:	147/1A, 147/1B, 147/2A, 147/2B, 147/3F,147/3G, 147/7, 147/8, 148/2, 148/3, 148/4, 148/5 &148/6	
4.	Village in which situated	:	Pinnalvadi	
5.	Taluk in which situated	:	Ulundurpet	
6.	District in which situated	:	Kallakurichi	
7.	Extent of quarry (in ha.)	:	4.00.0Ha	

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8.	Latitude & Longitude of all corners of the quarry site	:	11°44'11.61"N to 11°44'21.11"N 79°9'29.71"E to 79°9'38.24"E	
9.	Topo Sheet No.	:	58-M/2	
10.	Type of mining	:	Open Cast Semi mechanized 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	Gravel
			15,18,290m^3	79,910m^3
	Minable Resources m^3 (RoM)	:	Rough Stone	Gravel
			3,89,648m^3	54,272m^3
	Annual Peak Production in m^3	:	Rough Stone	Gravel
			68,585m^3	18,254m^3
	Ultimate Depth in meters	:	40m BGL	
13.	Depth of water table	:	65m -60m	
14.	Man Power requirement per day:	:	18 Employees	
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	5.0 KLD 0.5KLD 1.5KLD 1.5KLD 1.5KLD	
16.	Power requirement	:	TNEB -	

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17.	Precise area communication approved by the Assistant Director(i/c), Department of G&M.	:	Rc.No.B/G&M/05/2023 Dated:26.04.2023		
18.	Mining Plan approved by Assistant Director(i/c), Department of G&M.	:	Rc.No.B/G&M/05/2023 Dated:03.05.2023		
19.	500m Cluster Letter approved by the Assistant Director(i/c), Department of G&M.	:	Rc.No.B/G&M/05/2023 Dated:03.05.2023		
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:03.05.2023		
21.	Project Cost (excluding EMP cost)	:	Rs. 96,09,000/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
		:	Max Total RoM in m^3	3,89,648m^3	54,272m^3
		:	Annual Max RoM in m^3	68,585m^3	18,254m^3
		:	Max Depth in mtrs	40m BGL	
23.	EMP cost (in Rs. Lakh).	:	Rs.331.46 Lakhs		
24.	CER cost (in Rs. Lakh).	:	Rs. 7,00,000/-		

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance

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for the Annual peak production of not exceeding 68,585m^3 of Rough stone and 18,254 m^3 of Gravel with maintaining the ultimate pit limit of 40 m BGL as per the approved mining plan subject to the standard conditions & normal conditions stipulated by MoEF&CC and Annexure-I, 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) Since few structures are situated within a radial distance of 350 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to establish the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-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.
3) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

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4) As accepted by the Project Proponent the CER cost of **Rs. 7 Lakhs** and the amount shall be spent for the committed activities in the Government High School, Pinnalvadi before obtaining CTO from TNPCB.

Agenda No: 390-17

(File No: 9606/2022)

Proposed Construction of Multistoried IT/ITES development at S.F.Nos. 24, 25/2 and 26/2 of Manapakkam Village, Alandur Taluk & S.F.Nos. 115/1, 115/2, 115/3, 115/4, 115/5, 115/6, 115/7, 115/8, 115/9, 115/10, 115/11, 115/12, 115/13, 115/14, 115/15, 116, 118/2, 119/2, 125/2 of Ramapuram Village, Maduravoyal Taluk, Chennai District, Tamil Nadu by M/s. L & T Innovation Campus (Chennai) – For Environmental Clearance.

(SIA/TN/INFRA2/427416/2023 Dt. 28.04.2023)

The proposal was placed in this 390th SEAC meeting held on 07.07.2023. The details of the project furnished by the proponent are available on the web portal (parivesh.nic.in). The project proponent gave a detailed presentation.

The SEAC noted the following:

1. The Project Proponent M/s. L & T Innovation Campus (Chennai) has applied for Environmental Clearance for Proposed Construction of Multistoried IT/ITES development at S.F.Nos. 24, 25/2 and 26/2 of Manapakkam Village, Alandur Taluk & S.F.Nos. 115/1, 115/2, 115/3, 115/4, 115/5, 115/6, 115/7, 115/8, 115/9, 115/10, 115/11, 115/12, 115/13, 115/14, 115/15, 116, 118/2, 119/2, 125/2 of Ramapuram Village, Maduravoyal Taluk, Chennai District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 8(b) "Township & Area Development Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. TOR issued by SEIAA-TN vide Lr No. SEIAA-TN/F.No. 9606/SEAC/8(b)/ToR-1336/2023 dated: 10.02.2023
4. EIA Report submitted on 28.04.2023

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 M/s. L & T Innovation Campus (Chennai) Limited for the proposed Construction of multistoried IT/ITES

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development at Survey Nos. 24, 25/2 and 26/2 of Manapakkam Village, Alandur Taluk, 115/1, 115/2, 115/3, 115/4, 115/5, 115/6, 115/7, 115/8, 115/9, 115/10, 115/11, 115/12, 115/13, 115/14, 115/15, 116, 118/2, 119/2, 125/2 of Ramapuram Village, Maduravoyal Taluk, Chennai, Tamil Nadu.

2. M/s. Eco Tech Labs Pvt Ltd is the EIA Consultant for the project.
3. Total plot area of the project is 42330 Sqm and built-up area is 314625.39 Sqm respectively.
4. Maximum number of floors will be comprised of 3 Towers (Tower 1,2,3) comprising of 4 Combined Basement floors + Ground floor + 12 Floors and maximum height of the building will be 55 m.
5. The project proposal falls under Category–8(b) of EIA Notification, 2006 (as amended).
6. Salient features of the project as submitted by the project proponent:

PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	42330	SQMT
2	Proposed Built Up Area	314625.39	SQMT
3	Total no of Saleable DU's/Villas	-	No.
4	Max Height - (Height of tallest block)	55	M
5	No of Building Blocks (Residential + Community facilities)	The proposed project comprised of 3 Towers (Tower 1,2,3) comprising of 4 Combined Basement floors + Ground floor + 12 Floors.	
6	Max No of Floors	12	No.

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7	Expected Population (24125 Office + 1669 Floating)	25794	No.
8	Total Cost of Project	Rs. 1257.19	CR
9	Project Activity:	Proposed Construction of IT/ITES Development	
	AREAS		
10	Permissible Ground Coverage Area (50%)	4289.65	SQMT
11	Proposed Ground Coverage Area (38%)	15989	SQMT
12	Permissible FSI Area (xxx)	206358.75	SQMT
13	Proposed FSI Area	203165.45	SQMT
14	Other Non FSI Areas - including basement area etc.	111459.94	SQMT
15	Proposed Total Built Up Area	314625.39	SQMT
	WATER		
16	Total Water Requirement	1568	KLD
17	Fresh water requirement	621	KLD
18	Treated Water Requirement	947	KLD
19	Wastewater Generation	997	KLD
20	Proposed Capacity of STP	1050 (3 Nos 350 KLD)	KLD
21	Treated Water Available for Reuse	947	KLD
22	Treated Water Recycled	947	KLD

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23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	0	KLD
	RAINWATER HARVESTING		
24	Rainwater Harvesting - Recharge Pits	29	No.
25	Rainwater Harvesting Sump Capacity	690	M^3
	PARKING		
25	Total Parking Required as / Building Bye Laws	2955	ECS
26	Proposed Total Parking	3109	ECS
27	Parking in Basements	2960	ECS
	GREEN AREA		
28	Proposed Green Area (Minimum 15.0% of plot area)	7047.27	SQMT
	Total area	7047.27	sqmt
	Existing trees on plot	36	
	Number of trees to be planted	590 Nos	
	Number of trees to be transplanted/cut	1 Transplanted / 3 cut down	
	SOLID WASTE MANAGEMENT		
29	Total Solid Waste Generation	3936	KG/DAY
30	Organic waste	1574	KG/DAY

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31	Mode of Treatment & Disposal	Will be treated in Bio methanation plant & The Gas produced from Bio methanation plant will be utilized for common area lightings: Biogas based DG set (30 kVA) will be installed to cater the common area lightings	TPD
32	Quantity of Sludge Generated from STP & Disposal	105 kg/day and will be used as manure for greenbelt development	KG/DAY
33	Quantity of E-Waste Generation & Disposal	0.5 T/Year will be disposed through authorized recyclers	T/Year
34	Quantity of Hazardous waste Generation & Disposal	Used Oil from DG sets will be sold to authorized recyclers	LPD
	POWER / GREEN POWER		
34	Total Power Requirement	14625.7	KVA
35	DG set backup	9 Nos of 2250 KVA (Working) & 3 Nos of 2250 KVA (Standby)	KVA
36	No of DG Sets	9 Working & 3 Standby	No.
37	Solar Panels – Roof Coverage	50	%
38	Hot Water Requirement		
	Of which met by Solar Panels	-	KLD
Population details:			
39	Break up of Population details	TOTAL POPULATION	
	Residential	-	
	Visitors	-	

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	Commercial	24125	
	Total Visitors	1699	
	Total Population	25794	
40	EMP Cost	Construction Phase - Rs. 19.25Lakhs Capital Cost - Rs. 1008.39 Lakhs (Operational Cost) - Rs. 40.73 Lakhs	
41	CER Cost	Rs. 300 Lakhs	
42	Details of CER Activities	1. Chennai Primary School, Eswaran Koil Street, Ramapuram for the committed activities - Rs.100 Lakhs. 2. Govt. Higher Secondary School, Sridevi Nagar, 10th Street, Alapakkam, Porur, Chennai for the committed activities - Rs.150 Lakhs.	

RECOMMENDATION OF THE COMMITTEE

The Committee discussed the matter and recommended grant of environmental clearance for the project proposal as above along with standard environmental clearance conditions prescribed by MoEF&CC, GoI and following additional conditions:

Additional Conditions:

1. The proponent shall transplant existing banyan tree to the proposed OSR area and shall maintain the same as committed.
2. The construction shall comply with Green Building norms and shall get minimum IGBC Platinum rating.
3. The PP shall carryout compensatory plantation for trees cut down within the project premises as committed.
4. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.

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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.
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.

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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.

Standard Environmental Clearance Conditions prescribed by MoEF&CC:

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 nonforest 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 drawl of ground water / surface water required for the project from the competent authority.
7. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department and Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.

9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
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 system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 andPM25) 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, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
5. Sand, murram, loose soil, cement, stored on site shall 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 shall 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.

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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 six monthly Monitoring reports.
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.

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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 darea and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge 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.

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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 six monthly Monitoring reports.
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 made 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.

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2. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
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. 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.
4. 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.
5. 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.
6. 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 off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
7. Use of environment 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 environment 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 so as 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:

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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.

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d. Parking norms as per local regulation.

2. Vehicles hired for bringing 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.

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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.
2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for 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 six-monthly report.
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 MoEF&CC/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

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addition to the relevant offices of the Government who in turn has to 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 six-monthly reports 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 Regional Office as well as the Ministry, 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, commitment made during Public Hearing and also that during their presentation to the State Expert Appraisal Committee.
9. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
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. SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

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12. SEIAA 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 this 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.

Agenda No: 390-18

(File No: 10021/2023)

Existing Rough stone quarry over an extent of 2.02.5 Ha at S.F. No. 389 (Part) (Government Poramboke Land) of Kalapanahalli Village, Karimangalam Taluk, Dharmapuri District, Tamil Nadu by Thiru. A. Sasimohan - For Terms of Reference (SIA/TN/MIN/428504/2023 dt 09.05.2023)

The proposal was placed in this 390th meeting of SEAC held on 07.07.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. Earlier, the PP has obtained EC in DEIAA vide Lr.No.08/DEIAA-DPI/EC.No.08/2017 dated 31.10.2017 for the production quantity of 153815 m^3 up to depth of 17m (12m AGL + 5m BGL).
2. Earlier the PP has applied for Extension of EC vide File No. 9896/2023. The proposal was placed in the 378th SEAC Meeting held on 11.05.2023. The PP requested to withdraw the project based on OM dated 28.04.2023, since PP has obtained EC in DEIAA vide Letter No.08/DEIAA-DPI/TN-EC.No.08/2017 dated 31.10.2017 valid for 5 years. Hence the Committee decided to recommend to

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SEIAA to accept the withdrawal request of the PP.

The proposal was placed in the 625th SEIAA meeting held on 01.06.2023. After detailed discussions, the authority decided to accept the request of SEAC and the authority accepted the withdrawal request of PP.

3. CCR obtained from IRO(SZ), MOEF&CC Dt:23.12.2022.
4. Now, the Project Proponent, Thiru. A. Sasimohan has applied seeking Terms of Reference for the existing Rough stone quarry over an extent of 2.02.5 Ha at S.F. No. 389 (Part) of Kalapanahalli Village, Karimangalam Taluk, Dharmapuri District, Tamil Nadu.
5. 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.
6. The precise area communication was issued for the period of 10 Years. The mining plan is for 5 Years. The production for Five Years period shall not to exceed 174305 m^3 of Rough and the ultimate depth of 37m (12m AGL & 25m BGL).

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

1. The PP shall submit photographs of fencing, greenbelt and garland drain.
2. The PP shall submit the Modified Mining Plan duly approved by the concerned AD (Mines), Dept. of Geology & Mining in regard to the provision of the bench height of 5m / 6 m each instead of 7m shown as proposed bench height in the AMP submitted.
3. The PP shall submit the letter obtained from the concerned AD (Mines) showing details on the date of lease executed, date of last working day, Mining Plan approved quantity, EC Approved Quantity and Achieved quantity (year wise).
4. The study on impact of the dust & other environmental impacts due to proposed quarrying operations on the Rose flowers being cultivated through greenhouse nearby.

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5. The revised and corrected version of the Production & Development Plan shall be produced with showing the safety berm width of 2m is maintained for the bench height of not exceeding 1.5 m distinctly in the gravel formation and it shall be duly signed by the concerned QP & approved by the concerned AD (Geology & Mining), Dept. of Geology & Mining.
6. Since the quarry is existing with a depth of excavation varies from 6 m to 19 m without benches of appropriate dimension (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall carry out a 'Slope Stability Assessment Studies' for the existing conditions of the quarry wall by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM - Bengaluru, IIT-Madras, NIT Surathkal – Dept of Mining Engg. and Anna University Chennai –Dept of Mining Engg. The above studies shall spell out 'a 'Slope Stability Action Plan' for the proposed quarry covering the existing condition of the quarry wall including the overall pit slope angle and it shall cover the aspects of stability of quarry walls including the access ramp keeping the benches intact.
7. 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.

Agenda No: 390-19

(File No: 10028/2023)

Existing Rough stone quarry over an extent of 3.70.0 Ha at S.F. No. 401 (Part) (Government Poramboke Land) of Kalappanahalli Village, Karimangalam Taluk, Dharmapuri District, Tamil Nadu by Tmt. M. Mallika - For Terms of Reference (SIA/TN/MIN/428374/2023 dt 08.05.2023)

The proposal was placed in this 390th meeting of SEAC held on 07.07.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. Earlier, the PP has obtained EC in DEIAA vide Lr.No.10/DEIAA-DPI/EC.No.10/2017 dated 31.10.2017 for the production quantity of 482238 m3 up to depth of 32m (12m AGL + 20m BGL).

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2. Earlier the PP has applied for Extension of EC vide File No. 9802/2023. The proposal was placed in the 374th SEAC Meeting held on 03.05.2023. During the meeting the PP has stated that he would like to withdraw the proposal, and SEAC, therefore, decided to defer the proposal. The proposal was placed in the 621st SEIAA meeting held on 23.05.2023. The Authority decided to request Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent.
3. CCR obtained from IRO(SZ), MOEF&CC Dt:23.12.2022.
4. The Project Proponent, Tmt. M. Malliga has applied seeking Terms of Reference for the existing Rough stone quarry over an extent of 3.70.0 Ha (Government Poramboke Land) at S.F. No. 401 (Part) of Kalappanahalli Village, Karimangalam Taluk, Dharmapuri District, Tamil Nadu.
5. 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.
7. The precise area communication was issued for the period of 10 Years. The mining plan is for 5 Years. The production for Five Years period shall not to exceed 755480 m^3 of Rough and the ultimate depth of 54m (4m AGL & 50m 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 (i) the standard terms of reference for EIA study shown in Annexure-I and (ii) the Standard ToR for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The PP shall submit photographs of fencing, greenbelt and garland drain.
2. The PP shall submit the Modified Mining Plan duly approved by the concerned AD (Mines), Dept. of Geology & Mining in regard to the provision of the bench height of 5m / 6 m each instead of 7m shown as proposed bench height in the AMP submitted.
3. The PP shall submit the letter obtained from the concerned AD (Mines) showing details on the date of lease executed, date of last working day, Mining Plan approved quantity, EC Approved Quantity and Achieved quantity (year wise).

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4. The study on impact of the dust & other environmental impacts due to proposed quarrying operations on the Rose flowers being cultivated through greenhouse nearby.
5. The revised and corrected version of the Production & Development Plan shall be produced with showing the safety berm width of 2m is maintained for the bench height of not exceeding 1.5 m distinctly in the gravel formation and it shall be duly signed by the concerned QP & approved by the concerned AD (Geology & Mining), Dept. of Geology & Mining.
6. Since the quarry is existing with a depth of excavation varies from 6 m to 19 m without benches of appropriate dimension (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall carry out a 'Slope Stability Assessment Studies' for the existing conditions of the quarry wall by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM - Bengaluru, IIT-Madras, NIT Surathkal – Dept of Mining Engg. and Anna University Chennai –Dept of Mining Engg. The above studies shall spell out 'a 'Slope Stability Action Plan' for the proposed quarry covering the existing condition of the quarry wall including the overall pit slope angle and it shall cover the aspects of stability of quarry walls including the access ramp keeping the benches intact.
7. 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.

Agenda No: 390 - 20
(File No: 10015/2023)
Proposed Rough Stone & Gravel Quarry over an extent of 1.42.0Ha SF.No.434/3 & 434/4 of Pagalavadi Village, Thuraiyur Taluk, Tiruchirappalli District by Thiru. M. Raja - For Environmental Clearance. (SIA/TN/MIN/427866/2023 dt:03.05.2023)

The proposal was placed in this 390th Meeting of SEAC held on 07.07.2023. The details of the project furnished by the proponent are available on the website (www.parivesh.nic.in). **The SEAC noted the following:**

1. The project proponent, Thiru. M. Raja has applied for Environmental Clearance

for the proposed Rough Stone & Gravel Quarry over an extent of 1.42.0Ha SF.No.434/3 & 434/4 of Pagalavadi Village, Thuraiyur Taluk, Tiruchirappalli 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 precise area communication was issued for the period of 10 Years. The approved mining plan is for the period of 1st five years & production should not exceed 122600m^{3}of Rough Stone & 18750m^{3}of Gravel. The annual peak production is 25900m^3 of Rough Stone (5th Year) & 9966m^3 of Gravel (2nd Year) . The depth of mining is 32.0m BGL.

Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.M.Raja, S/o.Muthukaruppan, No.223B, East Street, Pagalavadi, Thuraiyur Taluk, Tiruchirappalli District - 621014
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone & Gravel
3.	S.F Nos. of the quarry site with area break-up	:	434/3 & 434/4
4.	Village in which situated	:	Pagalavadi
5.	Taluk in which situated	:	Thuraiyur
6.	District in which situated	:	Tiruchirappalli
7.	Extent of quarry (in ha.)	:	1.42.0Ha
8.	Latitude & Longitude of all corners of the quarry site	:	11°04'36.02"N to11°04'41.34"N 78°36'52.38"E to 78°36'58.80"E
9.	Topo Sheet No.	:	58-I/12

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10.	Type of mining	:	Opencast Semi-Mechanized of Mining	
11.	Life of Project	:	10 Years	
	Lease Period		5 Years	
	Mining Plan Period	:	5 Years	
12.	Mining Plan Details	:	As per approved Mining Plan	
	Geological Resources m^3 (RoM)	:	Rough Stone in m^3	Gravel in m^3
			433980m^3	28932m^3
	Mineable Resources m^3 (RoM)	:	Rough Stone	Gravel
			122600m^3	18750m^3
	Annual Peak Production in m3	:	Rough Stone	Gravel
	Ultimate Depth in meters	:	32m as per Approved Mining Plan. However, it is reduced to 27 m BGL for safety reasons by the SEAC.	
13.	Depth of water table	:	55m to 60m BGL	
14.	Man Power requirement per day:	:	14 Nos	
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	1.63 KLD 0.630 KLD 0.5 KLD 0.5 KLD	
16.	Power requirement		TNEB	
17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Na.Ka.No.22/2022/Kanimam, dt: 09.03.2023	

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18.	Mining Plan approved by Assistant Director,Department of G&M.	:	Rc.No.22/2022/Mines, dt: 06.04.2023		
19.	500m Cluster Letter by Assistant Director,Department of G&M.		Rc.No.22/2022/Mines, dt: 06.04.2023		
20.	VAO Certificate Regarding Structures within 300m Radius		Letter Furnished.		
21.	Project Cost (excluding EMP cost)	:	Rs. 33.50 Lakhs		
22.	EC Recommendation	:	1st Five Years as per approved mining plan restricted up to27m Depth.		
				Rough Stone	Gravel
		:	Max Total RoM in m^3	113875 m^3	18750m ^{3}
		:	Annual Max RoM in m^3	24,400	9966
		:	Max Depth in mtrs	27 m	
23.	EMP cost (in Rs. Lakh).	:	Rs.62 Lakhs/10 Years including capital cost of Rs. 9.61 Lakhs and Recurring cost with 5% inflation.		
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs		

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 shall not exceed 24,400m^3 of Rough Stone & 9966 m^3 of Gravel by restricting the ultimate depth of mining up to 27m BGL and for the period five Years subject to the standard conditions as per the Annexure I of this

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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 proponent shall carryout plantation of 1200 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.
3) The proponent shall carryout fencing around the within the proposed mining area as committed before obtaining CTO from TNPCB.
4) The PP shall carry out the special mitigation measures as enlisted in the Annexure-I to safe guard the Reserve Forest existing within 1 km from the lease.
5) Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to establish the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-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.
6) Since the college is located at a distance of 1.32 km, the PP shall furnish the SoP for carrying out the controlled blasting operations in the proposed quarry at the time of lease execution to the concerned AD (Mines).
7) As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the Panchayat Union Primary School, Pagalavadi, Thurayur Union before obtaining CTO from TNPCB.

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Agenda No: 390 - 21
(File No: 10022/2023)
Proposed Ordinary Earth Quarry over an extent of 0.96.0Ha SF.No.78/1 and 78/2 of Thevaram Village, Uthamapalayam Taluk, Theni District by Thiru. D. Sivanesan - For Environmental Clearance. (SIA/TN/MIN/428874/2023 dt:10.05.2023)

The proposal was placed in this 390th Meeting of SEAC held on 07.07.2023. The details of the project furnished by the proponent are available on the website (www.parivesh.nic.in). **The SEAC noted the following:**

1. The project proponent, Thiru. D. Sivanesan has applied for Environmental Clearance for the proposed Ordinary Earth Quarry over an extent of 0.96.0Ha SF.No.78/1 and 78/2 of Thevaram Village, Uthamapalayam 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 precise area communication was issued for the period of 3 years. The approved mining plan is for the period of 3 years & production should not exceed m^3 of 4463m3 of Ordinary Earth. The depth of mining is 2m BGL.

Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. D. Sivanesan, S/o.Durai, No. W-3-D-31, P.V.K. Street, Kullapakavundanpatti, Keelagudalur, Uthamapalayam Taluk, Theni District.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Ordinary Earth
3.	S.F Nos. of the quarry site with area break-up	:	78/1 and 78/2
4.	Village in which situated	:	Thevaram
5.	Taluk in which situated	:	Uthamapalayam
6.	District in which situated	:	Theni

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7.	Extent of quarry (in ha.)	:	0.96.0Ha
8.	Latitude & Longitude of all corners of the quarry site	:	09°55'21.78"N to 09°55'26.44"N 77°17'25.32"E to 77°17'28.37"E
9.	Topo Sheet No.	:	58-G/05
10.	Type of mining	:	Opencast Mechanized of Mining without drilling and blasting
11.	Life of Project	:	3 Years
	Lease Period		3 Years
	Mining Plan Period	:	3 Years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m^3 (RoM)	:	Ordinary Earth in m^3 19200m^3
	Mineable Resources m^3 (RoM)	:	Ordinary Earth in m^3 13390m^3
	Annual Peak Production in m3	:	Ordinary Earth in m^3 4464m^3
	Maximum Depth in meters	:	2m
13.	Depth of water table	:	35m BGL
14.	Man Power requirement per day:	:	7 Nos
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	1.0 KLD 0.3 KLD 0.4 KLD 0.3 KLD
16.	Power requirement		TNEB
17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Na.Ka.No.57/Kanimam/2022, dt: 27.12.2022

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18.	Mining Plan approved by Assistant Director, Department of G&M.	:	Rc.No.57/2022/Mines, dt: 06.02.2023	
19.	500m Cluster Letter by Assistant Director, Department of G&M.		Rc.No.57/2022/Mines, dt: 06.02.2023	
20.	VAO Certificate Regarding Structures within 300m Radius		Letter Dt:02.06.2022	
21.	Project Cost (excluding EMP cost)	:	Rs.8.25 Lakhs	
22.	EC Recommendation	:	For 3 Years period as per approved mining plan	
				Ordinary Earth in m^3
		:	Max Total RoM in m^3	13390 m^3
		:	Annual Max RoM in m^3	4464 m^3
		:	Max Depth in mtrs	2 m
23.	EMP cost (in Rs. Lakh).	:	Rs.11.82 Lakhs/ 3Years including capital cost of Rs. 5.58 Lakhs and Recurring cost with 5% inflation.	
24.	CER cost (in Rs. Lakh).	:	Rs. 1.5 Lakhs	

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 quantity of 13390 $m^3$of Ordinary Earth and the annual peak production shall not exceed 4464 m^3 of Ordinary Earth by restricting the ultimate depth of mining up to 2m BGL and for the period 3 Years subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in

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addition to the following specific conditions, in addition to the standard conditions & normal conditions stipulated by MOEF &CC:

1. The PP shall not carry out the drilling and blasting activities in the quarry.
2. The proponent shall carryout plantation of 500 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.
3. The PP shall install a Bio-toilet for the persons employed in the quarry before obtaining the CTO from the TNPCB.
4. As accepted by the Project proponent the CER cost is Rs.1.5 Lakhs and the amount shall be spent for the **Govt. Middle School, Shokkalingapuram** as committed, before obtaining CTO from TNPCB.

Agenda No.390 - 22.

File No.6651/2021

Amendment of Environmental Clearance for the proposed construction of 1200 slum tenements at Kargil Nagar at T.S.No.1/1 & 3/1 (Old S.F. No:618/G) of Kargil Nagar, Thiruvottiyur Village, Thiruvottiyur Taluk, Thiruvallur District, Tamil Nadu by M/s. Tamil Nadu Slum Clearance Board – Amendment of for Environmental Clearance. (SIA/TN/MIS/225144/2021) dated: 18.08.2021.

Earlier, this proposal was placed in the 325st SEAC Meeting held on 03.11.2022. The details of the minutes are available in the website (Parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, M/s. Tamil Nadu Slum Clearance Board has obtained Environmental Clearance vide Letter No. SEIAA-TN/F.No.6651/EC/8(a)/671/2019 dated: 31.10.2019 for the proposed construction of 1200 slum tenements at Kargil Nagar at T.S.No.1/1 & 3/1 (Old S.F. No:618/G) of Kargil Nagar, Thiruvottiyur Village, Thiruvottiyur Taluk, Thiruvallur District, Tamil Nadu.
2. The project/activity is covered under category "B" of Item 8 (a) "Building and Construction" of the schedule to the EIA Notification 2006.
3. Now, the PP M/s. Tamil Nadu Slum Clearance Board has applied for Amendment of Environmental Clearance vide Online proposal No. (SIA/TN/MIS/225144/2021) dated: 18.08.2021 for the said proposed amendment

of Environmental Clearance for the reasons stated therein vide Covering lr. Dt:16.08.2021.

4. The PP letter Dt: 16.08.2021 has requested for issue of amendment for said Environmental Clearance for the following and has assured that there is no change in the total land area, survey numbers and no of tenements from the existing EC (Letter No. SEIAA – TN/F.6651/EC/8(a)/671/2019 dated 31.10.2019) for the project.

S.no	Plant/ Equipment/ Facility	Existing Configuration As per Environmental Clearance Vide (Letter No. SEIAA-TN/F.6651/EC/8(a)/671/2019 dated 31.10.2019)	Proposed Configuration for amendment
1	No. of Blocks	10	4
2	Dwelling units	1200	1200
3	No. of Floors	10	15
4	Built up Area	50226.2	49,181.2
5	Name of the District	Tiruvallur	Chennai

Based on the presentation made and documents furnished by the project proponent, SEAC noted that the PP has admitted before SEAC that they have completed the construction of 4 Nos. of Blocks (S+15 Floors) each without obtaining amendment for Environmental Clearance issued vide Letter No. SEIAA-TN/F.6651/EC/8(a)/671/2019 dated 31.10.2019. In view of the above, SEAC decided that this proposal seeking EC amendment shall be treated as violation case as it attracts the paragraph No.5 of the MoEF&CC (IA Division) O.M F. No. IA3-22/10/2022 -IA.III Dt: 05.05.2022.

In this regard, SEAC has decided that the project proponent is directed to submit the following additional Particulars

i) EIA report by the accredited consultants for this project including independent chapter on assessment of ecological damage, remediation plan and natural and community resource augmentation plan. The collection and

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analysis of data for assessment of ecological damage, preparation of remediation plan and natural and community resource augmentation plan shall be done by an environmental laboratory duly notified under Environment (Protection) Act, 1986, or a environmental laboratory accredited by National Accreditation Board for Testing and Calibration Laboratories, or a laboratory of a Council of Scientific and Industrial Research institution working in the field of environment.

ii) Revised comparison table with break up details of total plot area and total built up area block wise for existing and the proposed amendment.

iii) Revised layout plan including children play area in the greenbelt area and temple tank type pond in the proposed OSR.

Subsequently, the proposal was placed in the 570th Authority meeting held on 12.11.2022 and the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 03.11.2022.

The proposal was again placed in 378th SEAC meeting held on 11.05.2023 and the PP and EIA Coordinator has made presentation in regard to additional particulars raised vide 325st SEAC Meeting held on 03.11.2022.

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

1. The PP shall furnish damage assessment calculation based on CPCB guidelines.

In connection to the reply furnished by project proponent, the proposal was again placed in 390th SEAC meeting held on 07.07.2023 and the PP and EIA Coordinator has made presentation in regard to Remediation Plan & Natural and Community Resource Augmentation Plan (Budgetary Allocation) and the Environmental Compensation calculation based on CPCB guidelines.

In this connection, the sub-committee constituted by the SEAC to assess the existing status of the project site & environmental settings and also to examine the EIA report submitted by the PP including independent chapter on assessment of ecological damage, preparation of remediation plan and natural & community resource augmentation plan inspected the project site on 30.11.2022 and submitted its inspection report before the

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Inspection/field visit report of Sub-Committee constituted by SEACas follows;

The project proponent had applied for amendment in EC vide proposal no: SIA/TN/MIS/225144/2021 dated 18-08-2022. The project proposal was placed in the 325th SEAC Meeting held on 03-11-2022, the committee after detailed deliberations, decided to inspect the site by the sub-committee to be constituted by the SEAC to assess the present status of the proposed project and environmental settings.

Background Information

- M/s. Tamil Nadu Urban Habitat Development Board (TNUHDB) formally known as M/s. Tamil Nadu Slum Clearance Board (TNSCB) for the construction of storied tenements with adequate basic amenities for slum areas.
- The Environmental Clearance for the construction of residential building at T.S. No. 1/1 and 3/1 of block 8, Kargil Nagar, Thiruvottiyur village, Thiruvottiyur taluk, Chennai district was obtained vide Letter No. SEIAA-TN/F.6651/EC/8(a)/671/2019 dated 31.10.2019.
- The proposal involves construction of 10 blocks (S+10 floors). The built-up area is 50,226.2 sq.m. and the land area is 59,376 sq.m.
- There is a reduction in the number of blocks (10 blocks to 4 blocks) and increasing the number of floors from 10 floors (S+10) to 15 floors (S+15). The revised built-up area is 49,181.2 sq.m. with no change in total No. of tenements.
- The district of the project area is ALSO changing from Tiruvallur district to Chennai district. Hence, we are seeking Amendment in Environmental Clearance.
- The proposal was appraised earlier in the 325th SEAC meeting held on 03-11-2022, during which the committee decided to conduct a sub-committee site visit considering the violation nature of the project.
- The SEAC has also directed the Project Proponent to submit the EIA Report prepared by the NABT accredited Consultant or a laboratory of CSIR working in the field of environment summarizing the assessment of ecological damage, preparation of remediation plan and natural & community resource augmentation plan.

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OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION ON 30-11-2022 (WEDNESDAY)

During the site visit the sub-committee noted the following

1. Project proponent was awarded with Environmental Clearance for the construction of 1200 Tenements vide letter No. SEIAA-TN/F.6651/EC/8(a)/671/2019 dated 31.10.2019 and had sought for EC amendment for change in number of blocks, built-up area & district.

As per Environmental Clearance (Letter No. SEIAA – TN/F.6651/EC/8 (a)/671/2019 dated 31.10.2019)	Amendment sought for
M/s. Tamil Nadu Slum Clearance Board	M/s. Tamil Nadu Urban Habitat Development Board
Built up area – 50,226.2 sq. m.	Built up area – 49,181.2 sq. m.
10 Blocks (S+10 Floors)	4 Blocks (S+15 Floors)
District - Tiruvallur	District – Chennai

2. All 4 blocks had been constructed with S+15 Floors containing 1200 residential tenements and final finishing works are being carried out. During the visit model house was also inspected.
3. Sewage Treatment Plant, EB Sub-station, laying of internal roads, Rain Water Harvesting pits, DG Set, Compound wall and Green Belt Development works are yet to be initiated upon levelling the ground area to MSL.
4. An extent of 2557.73 Sq.m area of land is gifted to CMDA for development of link road within the scheme.
5. The PP has informed that total water requirement of 819 KLD will be met from CMWSSB.
6. For Waste Generation an STP Plant of 750 KLD is proposed to be developed by CMWSSB (Design, Erection and O&M for 5 Years) and treated water will be reused for flushing & Green belt activities.
7. A sewage collection chamber from each block has been constructed which directs the entire sewage collection to STP Plant which is proposed to developed as per the location earmarked in the layout.

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8. The total power requirement of 2,568 KVA will be sourced from Tamil Nadu Generation and Distribution Corporation Limited (TANGEDCO) by EB substation within the scheme earmarked in the layout.
9. Backup D.G. set of 11 Nos having capacity 62.5 kVA will be used as standby as per the PP statement.
10. The PP has informed that municipal solid waste generation within the scheme will be treated through proposed OWC.
11. PP stated that post completion of construction activities, forest department representative will be visiting the site to analyzing the soil characteristics based on which suitable species will be suggested for plantation.
12. UG sump for storing the rainwater has been constructed. Excess storm water will be allowed to drain into Buckingham Canal through.

As per the minutes of 325th SEAC meeting, the PP has accepted to develop and maintain the water body (As Temple Tank Model) in the project site reserved for OSR which is gifted to CMDA.

The proponent submitted the revised check list with enclosures on 14.05.2018. From the perusal of the original proposal of the proponent, initial checklist submitted by the proponent, site inspection of the construction site' the Sub-Committee team makes the following observation:

1. The Sub-Committee Team learnt that the "violation" attributed to the project is that the construction activity was started before getting the Environmental Clearance.
2. The Sub-Committee Team made certain recommendations to improve the ecological and Environmental compliance and these recommendations have been accepted by the proponent.

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

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

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- Procedural Violation (Started the Construction at the site after obtaining EC, but violation of EC granted)
- Infrastructural Violation such as Deviation from CMDA/Local Body approval initially.
- Not operational (yet to be occupied)

Current Status of the Project:

S. No	DESCRIPTION	CURRENT STATUS	
		COMPLETED	YET TO BE COMPLETED
1	Residential Units	4 No of Blocks with 15 floors each	---
2	Dwelling Units	1200 (300 Units per block)	
3	Occupancy	-	Not Occupied
4	DG Sets		62.5 kVA capacity of 11 Nos
5	STP	--	750 KLD of capacity
6	Rainwater Harvesting		RW Percolation Pits – 23 Nos RW Storage Tank – 540 m3
7	Green Belt Development		743 Nos of Trees
8	Parking	Parking Area-3074.84 Sq. m. Two-Wheeler Parking –1393 Nos	---

1. As per presentation made by EIA Coordinator:

Summary of Remediation Plan & Natural and Community Resource Augmentation Plan (Budgetary Allocation):

S. No	Aspects	Amount (Rs. In Lakhs)	
1	Estimated cost on remediation plan	44.325	
2	Cost estimate for Natural Resources Augmentation Plan	19.80	Total
	Community Resources Augmentation Plan	24.525	44.325
Grand Total		88.65	

CER Breakup

AIR Primary School

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Description	Abstract Estimate
RO Plant	20,000
Fans	25,000
Compound Wall	60,000
Total	1,05,000

AIR Middle School

Description	Abstract Estimate
Toilets	2,30,000
Smart Classroom	7,35,000
Play Area	1,75,000
Napkin Dispenser & Incinerator	2,25,000
RO Plant	20,000
Plumbing Works	25,000
Upgardation of Library	4,00,000
Total	18,10,000

ICDS

Description	Abstract Estimate
Flooring & Compound Wall	1,30,000

II. Application of SEAC Methodology:

The Committee observes that the project organization in construction of 1200 slum tenements at Kargil Nagar at T.S.No.1/1 & 3/1 (Old S.F. No:618/G) of Kargil Nagar, Thiruvottiyur Taluk, Thiruvallur District, Tamil Nadu by M/s. Tamil Nadu Slum Clearance Board, comes under the "Medium level Ecological damage category" as it satisfies the following conditions:

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a. Procedural violations (started the construction at site without obtaining EC)

b. Infrastructural violation such as deviation from CMDA/local body approval.

c. Non operation of the project (not occupied).

Considering the above organization is involved in constructing the 1200 slum tenaments for the welfare of the poor people and it is not occupied so far, the SEAC Sub-Committee recommends the following funds allocation to be made by the proponent:

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)
Medium level Ecological Damage	0.35	0.15	0.25	0.5	1.25

Project Cost:

With reference to the letter furnished by the Tamil Nadu Urban Habitat Development Board vide Lr. No. 05/HD/DN-I/2022, dated. 07.06.2023, the project cost indicating the estimate cost for construction of additional 5 floors in 4 blocks worked out as Rs. 19,81,23,447/- including 1% of LWF, Supervision charges @ 12.5% and GST at 12%. Hence the project cost is 1981.23447 lakhs.

Low 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)

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SEAC Scale	0.35	0.15	0.25	0.5	1.25
Actual Amount	1981.24×0.35	1981.24×0.15	1981.24×0.25	1981.24 ×0.50	1981.24×1.25
Rupees in lakhs	**6.93**	**2.97**	**4.95**	**9.91**	**24.76**

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	4,95,000
2	Natural Resource Augmentation Plan	6,93,000
3	Community Resource Augmentation Plan	2,97,000
Grand Total		**14,86,000**

III. Environmental Compensation as per CPCB Guidelines:

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.

As per CPCB guidelines the applicable values of PI-50 (Orange Category Industry), N-430 days (of violation period as the construction of (violation) additional floors in the building have been carried out from 30.08.2021 to 18.05.2022 (a copy of letter obtained from the competent authority) but however it was observed as violation by the SEAC on 03.11.2022), R-Rs.250 (based on nature of violation: Max. Rs.250-), S-1.0

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(cumulatively Medium Scale Unit), LF-2.0 (Population is 10 million and above), the Environmental Compensation computed is as follows:

EC : 50 x 430 x 250 x 1.0 x 2.0 = **Rs.1,07,50,000/-** (Maximum)

However, as per CPCB Guidelines, the minimum Environmental Compensation shall be Rs.5,000/- per day.

Accordingly, the minimum Environmental Compensation for 430 days of Violation will be Rs.**21,50,000**/- (Minimum).

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	53,75,000
2	Natural Resource Augmentation Plan	21,50,000
3	Community Resource Augmentation Plan	32,25,000
Grand Total		1,07,50,000

The Project Cost is **Rs.1981.34 Lakhs.** CER Budget is arrived as 2% of the Project Cost i.e., Rs.39.63 lakhs/-- **Rs. 40 lakhs.**

Recommendation of Sub-Committee:

As the Proposal falls in **Medium Level Ecological Damage** and EMP measures were in place during the Violation Period, the Sub-Committee is of the opinion that the higher Environmental Compensation value has been arrived **based on the CPCB Violation Norms** is **Rs. 1,07,50,000/- which is higher than** Environmental Compensation values of **Rs. 88,65,000/- based on the EIA model prepared by the EIA coordinator and Rs. 24,76,000/- arrived on SEAC-TN model and** hence it must be compensated for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan as follows:

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	53,75,000
2	Natural Resource Augmentation Plan	21,50,000
3	Community Resource Augmentation Plan	32,25,000
Grand Total		1,07,50,000

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The Project Cost is Rs. Rs.1981.34 Lakhs. CER Budget is estimated as 2% of the Project Cost i.e., Rs. 40 lakhs/-. 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. 53.75 lakhs), natural resource augmentation (Rs. 21.50 lakhs) & community resource augmentation (Rs. 32.25 lakhs), totaling Rs. 1,07,50,000/= shall be remitted in the form of bank guarantee to Tamil Nadu Pollution Control board, before obtaining Environmental Clearance and submit the acknowledgement of the same to SEIAA-TN. The funds should be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated 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 one year. If not the bank guarantee will be forfeited to TNPCB without further notice.
3. The amount specified as CER (Rs. 40 Lakhs) shall be spent for the benefits of the beneficiary before issue of EC for the activities suggested by the SEAC during the appraisal. 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.
6. 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.

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7. The proponent is directed to provide the acoustic enclosure for the blowers in the existing STP before obtaining EC.
8. The proponent shall obtain the necessary permission for disposal of excess storm water to the tank situated nearby from the competent authority.
9. The proponent should furnish the following certificates before CTO:
    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.

SEAC carefully considered the report of the Sub-Committee. SEAC observed that the total cost of Ecological remediation, Natural Resource Augmentation and Community Resource Augmentation cost /Environmental compensation arrived by different guidelines are as follows;

As assessed by EIA Coordinator - Rs. 88,65,000/-

As assessed by the Sub-Committee per SEAC-TN Guidelines - Rs.24,76,000/-

Environmental compensation as per CPCB guidelines arrived at by the Sub-Committee - Rs. 1,07,50,000/-

In view of the above, the SEAC decided to adopt total cost of Ecological remediation, Natural Resource Augmentation and Community Resource Augmentation cost / Environmental Compensation as per CPCB Guidelines.

In view of the above, the SEAC decided to recommend the proposal to SEIAA for grant of EC under violation category subject to the following conditions in addition to all the conditions stipulated in the EC issued vide Letter No. SEIAA-TN/F.6651/EC/8(a)/671/2019 dated 31.10.2019.

1) The SEIAA shall initiate the credible action under the provisions of Section 19 of the Environment (Protection) Act, 1986 as per MOEF&CC Notifications Dt: 14.03.2017 & 08.03.2018.
2) As per the MoEF& CC Notification, S.O.1030 (E) dated:08.03.2018, "The project proponent shall submit a bank guarantee equivalent to the amount of

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remediation plan and Natural and Community Resource Augmentation Plan with the State Pollution Control Board and the quantification will be recommended by the Expert Appraisal Committee for category A projects or by the State or Union territory level Expert Appraisal Committee for category B projects, as the case may be, and finalized by the concerned Regulatory Authority, and the bank guarantee shall be deposited.

a) The amount prescribed for Ecological remediation (Rs. 53.75 lakhs), natural resource augmentation (Rs. 21.50 lakhs) & community resource augmentation (Rs. 32.25 lakhs), totaling Rs. 1,07,50,000/= shall be remitted in the form of bank guarantee to Tamil Nadu Pollution Control board, before obtaining Environmental Clearance and submit the acknowledgement of the same to SEIAA-TN. The funds should be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.

b) The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not the bank guarantee will be forfeited to TNPCB without further notice.

c) The amount committed by the PP on CER is Rs. 40 Lakhs, which shall be spent on committed activities.

3) 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.

4) Adequate number of trees shall be planted as green belt & compensatory afforestation before obtaining CTO from TNPCB.

5) 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.

6) The proponent is directed to provide the acoustic enclosure for the blowers in the existing STP before obtaining EC.

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7) The proponent shall obtain the necessary permission for disposal of excess storm water to the tank situated nearby from the competent authority.

8) The proponent should furnish the following certificates before CTO:

   a) Certificate for structural safety from Anna University-Dept of Civil Engineering, CEG Campus, Chennai (or) IIT Madras (or) NIT Trichy.

   b) Adequacy report of STP from any of these institutions - Anna University-Centre for Environmental Studies, CEG Campus, Chennai / IIT Madras / NIT Trichy.

Agenda No. 390-23

(File No.6330/2023)

Existing Limestone Quarry Lease over an extent of 4.56.0Ha located at S.F.Nos. 380/1, 385/1, 386/1, 386/2 & 386/3 of K. Pitchampatti Village, Karur Taluk, Karur District, Tamil Nadu by Thiru. E. Srinivasan – For Environmental Clearance under Violation. (SIA/TN/MIN/428201/2023 dated: 05.05.2023).

The proposal was placed in 390th Meeting of SEAC held on 07.07.2023. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in). **The SEAC noted the following:**

1. The Proponent, Thiru. E. Srinivasan, has applied for Environmental Clearance under violation for the Existing Limestone Quarry Lease over an extent of 4.56.0Ha located at S.F.Nos. 380/1, 385/1, 386/1, 386/2 & 386/3 of K. Pitchampatti Village, Karur Taluk, Karur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The PP had applied for ToR to carry out the EIA study under violation vide Proposal No. SIA/TN/MIN/23077/2018 dated: 03.04.2018.
4. The ToR for carrying out EIA study under violation issued vide Lr. No. SEIAA-TN/F.No.6330/ToR-338/2018, dated: 11.05.2018.
5. ToR Amendment issued vide Letter No. SEIAA-TN/F.No.6330/SEAC-CXVIII/TOR-338(A)/2018 Dated: 30.07.2018 to mandate Public Hearing.
6. ToR Extension issued vide Lr. No. SEIAA-TN/F.No.6330/ToR-338/A/2018, dated: 30.10.2021.

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7. Further, the ToR Extension issued vide Lr. No. SEIAA-TN/F.No.6330/ToR-338/Ext/2018, dated: 26.09.2022 valid up to 10.05.2023.
8. Now, the PP had applied for Environmental Clearance under violation vide Proposal No. SIA/TN/MIN/428201/2023 dated: 05.05.2023.
9. EIA Report Submitted on 11.05.2023.

The proposal was placed in this 390th Meeting of SEAC held on 07.07.2023. The SEAC noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

Agenda No: 390-24

(File No: 10009/2023)

Proposed Expansion of Premium Residential Complex "Jains Advait" at S.F.Nos. 168/3pt & 4pt, 169/1pt, 2A, 2B & 2Cpt, 170/1, 2A & 2B, 172/20pt, 21pt, 29, 42pt, 43pt, 44pt, 48pt, 49pt, 50pt & 51pt, 52pt and 171/2 & 171/3 of Pammal Village, Tambaram Taluk, Kancheepuram District, Tamil Nadu by M/s. Jain Housing & Constructions Ltd.- For Environmental Clearance (SIA/TN/INFRA2/426456/2023, dated:18/04/2023).

The proposal was placed in this 390th SEAC meeting held on 07.07.2023. 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. Jain Housing & Constructions Ltd has applied for Environmental Clearance for the Proposed Expansion proposal of Premium residential complex "Jains Advait" at S.F.No. 168/3pt & 4pt, 169/1pt, 2A, 2B & 2Cpt, 170/1, 2A & 2B, 172/20pt, 21pt, 29, 42pt, 43pt, 44pt, 48pt, 49pt, 50pt & 51pt, 52pt and 171/2 & 171/3 of Pammal Village, Tambaram Taluk, Kancheepuram 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. Earlier, Environmental Clearance was issued to the proponent vide SEIAA Lr.No. SEIAA-TN/F.No.13/EC/8(a)/179/2007 dated: 20.06.2013 for the proposed Residential Building "Jain Housing" at S.F.Nos. 168/3pt & 4pt, 169/1pt, 2A, 2B & 2Cpt, 170/1, 2A & 2B, 172/20pt, 21pt, 28pt, 29, 42pt, 43pt, 44pt, 48pt, 49pt,

50pt & 51pt, 52pt of Pammal Village , Tambaram Taluk, Kancheepuram District, Tamil Nadu for the Construction of Block (1-14) -S+4 floors, Block (15&16) G+1 floors with total Plot area is 28084.97 Sq.m and the Built up area is 66281.44 Sq.m.

4. CCR obtained from MoEF&CC vide F. No. EP/12.1/2020-21/SEIAA/15/TN/107 dated:10.02.2021.
5. Now, the PP had applied for the Proposed Expansion proposal of Premium residential complex "Jains Advait" at S.F.No. 168/3pt & 4pt, 169/1pt, 2A, 2B & 2Cpt, 170/1, 2A & 2B, 172/20pt, 21pt, 29, 42pt, 43pt, 44pt, 48pt, 49pt, 50pt & 51pt, 52pt and 171/2 & 171/3 of Pammal Village, Tambaram Taluk, Kancheepuram District, Tamil Nadu with total Plot area is 35,284.97 Sq.m and the Built up area is 1,39,993.60 Sq.m. Total Number of Dwelling Units decreased from 492 units to 1288 units.

The proposal was placed in this 390th Meeting of SEAC held on 07.07.2023. During the meeting the PP has requested for additional time to produce documents as sought by the Committee. Hence, the SEAC decided to take up this proposal in any one of the forthcoming SEAC meeting.

Agenda No: 390-25

(File No: 10016/2023)

Proposed Rough Stone and Gravel Quarry over an extent of 1.80.50Ha at S.F. No. 77 & 78 of Rengappanaickenpatti Village, Nilakottai Taluk, Dindigul District, Tamil Nadu by Tmt. S. Murugabharathi-For Environmental Clearance.

(SIA/TN/MIN/428334/2023, DATED:06/05/2023).

The proposal was placed in this 390th Meeting of SEAC held on 07.07.2023. 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, Tmt. S. Murugabharathi has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry over an extent of 1.80.50Ha at S.F. No. 77 & 78 of Rengappanaickenpatti Village, Nilakottai Taluk, Dindigul District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a)

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"Mining Projects" of the Schedule to the EIA Notification, 2006.

3. As per the mining plan the lease period is 10 years. The mining plan is for the period of Five years & production should not exceed 106426 m^3 of Rough Stone & 13024 m^3 of Gravel with ultimate depth of mining 17.0m (2m Gravel + 15m Rough Stone) BGL.
4. The salient features of the proposed project as follows

File No	10016	Category	"B2" 1(a)
	SIA/TN/MIN/428334/2023, 06/05/2023		EC

Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Tmt. S. Murugabharathi, W/o. N. Sundar, No.3-126, Vadakku Theru, Poosaripatti, Mallanampatti, Nilakottai Taluk, Dindigul District-624202.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limeston e)	:	Rough Stone and Gravel
3.	S.F Nos. of the quarry site with area break-up	:	77 & 78
4.	Village in which situated	:	Rengappanaickenpatti
5.	Taluk in which situated	:	Nilakottai
6.	District in which situated	:	Dindigul
7.	Extent of quarry (in ha.)	:	1.80.50Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10°04'29.63"N to 10°04'33.75"N 77°42'31.22"E to 77°42'36.82"E
9.	Topo Sheet No.	:	58 F/12

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10.	Type of mining	:	Opencast Semi mechanized method with drilling and blasting	
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 – 6,37,032 m^3	Rough Stone – 6,37,032 m^3
			Gravel – 21,996 m^3	Gravel – 21,996 m^3
	Minable Resources m^3 (RoM)	:	Rough Stone – 1,55,366 m^3	Rough Stone – 1,55,366 m^3
			Gravel – 13,024 m^3	Gravel – 13,024 m^3
	Annual Peak Production in m3	:	Rough Stone – 21536 m^3	Rough Stone – 21536 m^3
			Gravel – 8732 m^3	Gravel – 8732 m^3
	Ultimate Depth in meters	:	37 m BGL	
13.	Depth of water table	:	55m to 60m BGL	
14.	Man Power requirement per day:	:	16 Nos.	

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15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	2.5 KLD 0.5 KLD 1.0 KLD 0.5 KLD		
16.	Power requirement		TNEB 87.306 Liters of HSD		
17.	Precise area communication approved by the Assistant Director, Dept. of Geology & Mining.	:	Rc.No.305/Mines/2022, dated: 24.03.2023		
18.	Mining Plan approved by Assistant Director, Dept. of Geology & Mining.	:	Rc.No.305/Mines/2022, dated: 03.04.2023		
19.	Assistant Director, Dept. of Geology & Mining 500m Cluster Letter		Rc.No.305/Mines/2022, dated: 03.04.2023		
20.	VAO Certificate Regarding Structures within 300m Radius		Letter Dated: 31.03.2023		
21.	Project Cost (excluding EMP cost)	:	Rs. 59,06,250/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
		:	Max Total RoM in m^3	106426 m^3	13024 m^3
		:	Annual Max RoM in m^3	21536 m^3	8732 m^3

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		:	Max Depth in mtrs	37m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 18.13 Lakhs recurring cost – Rs. 14.29 Lakhs	
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000 /- as accepted by the PP	

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the Annual peak production quantity of not exceeding 21536m³ of Rough stone with an ultimate depth of 37m as per the approved mining plan 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, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2) Since few habitations and structures are situated within 550 m from the existing quarry, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to establish the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-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.
3) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 3rd year, 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. 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.

4) The PP shall not cause any disturbances the natural flow of water in the Vaigai river canal situated at a distance of 500 m from the lease.

5) However, Since the water tank / water bodies closely, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within 2 years from the commencement of mining operations, 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

6) As accepted by the Project Proponent the CER cost of Rs. 5.0lakhs and the amount shall be spent for the Government Primary School, Kunnuthupatti village before obtaining CTO from TNPCB.

CER Activity	Cost allocated CER Activity (Rs. In Lakh)
Providing Following Facilities in the Government primary School, Kunnuthupatti Village • Plantation in and around school (50 Nos) • Repairing Toilet & its maintenance during the lease period, • Renovation of school building • Providing chair, table, bero & Black board • Rack for library with books for students	5.0
Total Cost Allocation	**5.0**

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Agenda No: 390-26

(File No: 10023/2023)

Proposed Rough Stone Quarry over an extent of 3.93.5Ha at S.F.Nos. 214/1 (Part-3 & Part-4) of Thellarampattu Village, Chetpet Taluk, Tiruvannamalai District, Tamil Nadu by Thiru. A. R. Govindan-For Terms of Reference.

(SIA/TN/MIN/428657/2023, 09/05/2023).

The proposal was placed in this 390th Meeting of SEAC held on 07.07.2023. 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. A. R. Govindan has applied for Terms of Reference for the Proposed Rough Stone Quarry over an extent of 3.93.5Ha at S.F.No. 214/1 (Part-3 & Part-4) of Thellarampattu Village, Chetpet Taluk, Tiruvannamalai District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 10 years. The mining plan is for the period of Five years & production should not exceed 4,06,225 m^3 of Rough Stone with ultimate depth of mining 20.5m 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** (i) the standard terms of reference for EIA study shown **in Annexure-I** and (ii) the Standard ToR for non-coal mining projects and details issued **by the MOEF & CC to be included in EIA/EMP Report:**

1. The Proponent shall justify the selection of the site for carrying out the stone quarrying with the total volume arrived for the excavation & production adequate details such as lithology of the deposit, reserve estimation, place for waste dump/mined mineral storage, end-use of mined materials, identified potential customers/end-users and travel path.
2. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m with details such as dwelling houses with number of occupants,

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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.

3. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc located within 1 km of the proposed quarry.
4. 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.
5. The Proponent shall carry out Bio diversity study through Department of Ecology and Environmental Sciences, Pondicherry University and the same shall be included in EIA Report.
6. 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.

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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 20^0 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 form 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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I. GRAVEL / ORDINARY EARTH 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.

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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.

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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 compiled 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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II. 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.

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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 compiled by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.

35)The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.

36)The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.

37)All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.

38)That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole

and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

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

40) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

41) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.

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SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED IN CLOSE PROXIMITY TO THE WIND MILLS		
Sl. No	Existing (or) Virgin Quarry	
	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m upto 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.
2.	Special precautions are to be taken during blasting within danger zone such as posting guards, etc.	Blast design parameters should be mentioned in mining plan/scheme. and may be reviewed by a competent mining engineer.
3.	Blast design parameters should be mentioned in mining plan/scheme.	MCPD and total charge should be fixed such that it should nott exceed 1.3 kg and 26.50 kg respectively.
4.	The recommendations of scientific organisation need to be incorporated in the mining plan/scheme before its approval.	Fresh scientific study may be conducted if mine management wants to increase the MCPD and total explosive charge above the quantity of 1.30 kg and 26.50 kg respectively. Continuous monitoring using seismograph should also be done in such cases by the mine management.
5.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.
6.	Training of the blasting crew on controlled blasting practices before engaged in operation.	Training of the blasting crew on controlled blasting practices before engaged in operation.

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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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ANNEXURE – I

ROUGH STONE QUARRY: Standard Terms Of Reference (ToR) For EIA Study –Additional Conditions

1. The PP shall furnish the letter obtained from the AD (Mines) indicating the existing pit dimensions and pit conditions showing the details on mine having worked during the earlier lease period.
2. The PP shall furnish 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.
3. The PP shall provide individual notice regarding the Public Hearing to the nearby house owners located in the vicinity of the project site.
4. The Proponent shall justify the selection of the site for carrying out the stone quarrying with the total volume arrived for the excavation & production adequate details such as lithology of the deposit, reserve estimation, place for waste dump/mined mineral storage, end-use of mined materials, identified potential customers/end-users and travel path.
5. The PP shall also justify the selection of mining methodology (conventional or non-conventional) adopting blasting techniques/non-explosive techniques with proper ground reality & laboratory testing.
6. The proponent shall submit the "Blast Design Parameters for controlling the vibration and fly rock from the quarry blasting" considering the existence of sensitive structures including habitations within 500 m from the lease boundary.
7. The PP shall justify the estimation of HEMM population for excavation and transportation in the proposed quarries with proper calculation methodology adopted.
8. The PP shall enumerate the environmental settings situated within a radial distance of 1 km such rivers/water bodies/reserve forests/ grazing land/existence of the hospitals and educational institutions/structures.
9. The PP shall provide the details of the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for

the same.

10. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
11. The PP shall submit a 'Slope Stability Action Plan' for the proposed quarry where the proposed depth exceeds 30 m and it shall cover the aspects of stability of quarry walls including the access ramp keeping the benches intact.
12. If the blasting operation is to be carried out, the PP shall present a conceptual design for carrying out the NONEL initiation based controlled blasting operation including the line drilling & muffle blasting techniques and a Simulation Model indicating the anticipated Blast-induced Ground Vibration levels in the proposed quarry as stipulated by the DGMS Circular No.7 of 1997, during the EIA Proposal.
13. 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.
14. The PP shall give an affidavit stating that no contractual persons provided by the explosive suppliers will be employed for carrying out the blasting operations in the proposed quarry.s
15. The PP shall also give an affidavit that no highly sensitive structure such as fire-cracker manufacturing units, Gas godown/explosive Magazine, LPG Bottling Units, etc are located within a radial distance of 300 m from the lease boundary of the proposed quarry.
16. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed

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quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 20 m from the blast site.

17. 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.
18. The PP shall provide the environmental mitigation measures implemented for the crusher(s) located within the mining lease.
19. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines.
    a. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
    b. Quantity of minerals mined out.
    c. Highest production achieved in any one year
    d. Detail of approved depth of mining.
    e. Actual depth of the mining achieved earlier.
    f. Name of the person already mined in that leases area.
    g. If EC and CTO already obtained, the copy of the same shall be submitted.
    h. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
20. 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.
21. 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).

22. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
23. 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.
24. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
25. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
26. 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.
27. 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.
28. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.

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29. 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.
30. 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.
31. 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.
32. If the Village road/State highway/National highway are located within a radial distance of 500 m from the lease boundary of the quarry proposal, the PP shall carry out traffic studies to indicate impact on local transport infrastructure due to the Project and mitigation measures.
33. 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.
34. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
35. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
36. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
37. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.

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38. 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.

39. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.

40. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site-specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner

41. 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.

42. 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.

43. 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.

44. 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.

45. 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.

46. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

47. 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.

48. 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.

49. 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.

50. 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 TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE 3(a): STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR METALLURGICAL INDUSTRIES (FERROUS & NON-FERROUS) PROJECTS AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

A. STANDARD TERMS OF REFERENCE (TOR)

1) Executive Summary

2) Introduction

i. Details of the EIA Consultant including NABET accreditation

ii. Information about the project proponent

iii. Importance and benefits of the project

3) Project Description

i. Cost of project and time of completion.

ii. Products with capacities for the proposed project.

iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.

iv. List of raw materials required and their source along with mode of transportation.

v. Other chemicals and materials required with quantities and storage capacities

vi. Details of Emission, effluents, hazardous waste generation and their management.

vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)

viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be

provided

ix. Hazard identification and details of proposed safety systems.

x. Expansion/modernization proposals:

a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing lexisting operation of the project from SPCB shall be attached with the EIA-EMP report.

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

4) Site Details

i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.

ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale

on an A3/A2 sheet. (Including all eco-sensitive areas and environmentally sensitive places)

iii. Details with respect to option analysis for selection of site

iv. GPS Co-ordinates of all four corners of the site.

v. Google map-Earth downloaded of the project site.

vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.

viii. Land use break-up of total land of the project site (identified and acquired), government/ private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)

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

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

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

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

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

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

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

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

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

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

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

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

6) Environmental Status

i. Determination of atmospheric inversion level at the project site and site-specific micrometeorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.

ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.

iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.

iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.

v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.

vi. Ground water monitoring at minimum at 8 locations shall be included.

vii. Noise levels monitoring at 8 locations within the study area.

viii. Soil Characteristic as per CPCB guidelines.

ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.

x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.

xi. Socio-economic status of the study area.

7) Impact and Environment Management Plan

i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.

ii. Water Quality modelling - in case of discharge in water body

iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyorcum- rail transport shall be examined.

iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge

under E(P) Rules.

v. Details of stack emission and action plan for control of emissions to meet standards.

vi. Measures for fugitive emission control

vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.

viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.

ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.

x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.

xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.

xii. Action plan for post-project environmental monitoring shall be submitted.

xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8) Occupational health

i. Plan and fund allocation to ensure the occupational health & safety

of all contract and casual workers

ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre-placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above-mentioned parameters as per age, sex, duration of exposure and department wise.

iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,

iv. Annual report of heath status of workers with special reference to Occupational Health and Safety.

9) Corporate Environment Policy

i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.

ii. Does the Environment Policy prescribe for standard operating process/ procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms /conditions? If so, it may be detailed in the EIA.

iii. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.

iv. Does the company have system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting

mechanism shall be detailed in the EIA report

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

11. Enterprise Social Commitment (ESC)

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

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

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

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

1. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs & outputs (material and energy balance).
2. Details on blast furnace/ open hearth furnace/ basic oxygen furnace/ladle refining, casting and rolling plants etc.
3. Details on installation/activation of opacity meters with recording with proper calibration system
4. Details on toxic metals including mercury, arsenic and fluoride emissions
5. Details on stack height requirement for integrated steel
6. Details on ash disposal and management -Non-ferrous metal
7. Complete process flow diagram describing production of lead/zinc/copper/ aluminium, etc.
8. Raw materials substitution or elimination
9. Details on smelting, thermal refining, melting, slag fuming, and Waelz kiln

operation

10. Details on Holding and de-gassing of molten metal from primary and secondary aluminium, materials pre-treatment, and from melting and smelting of secondary aluminium
11. Details on solvent recycling
12. Details on precious metals recovery
13. Details on composition, generation and utilization of waste/fuel gases from coke oven plant and their utilization.
14. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
15. Trace metals Mercury, arsenic and fluoride emissions in the raw material.
16. Trace metals in waste material especially slag.
17. Plan for trace metal recovery
18. Trace metals in water

C. ADDITIONAL TOR FOR INTEGRATED STEEL PLANT

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

be analysed for presence of poly-aromatic hydrocarbons (PAH), i.e. Benzene soluble fraction, where applicable. Chemical characterization of RSPM and incorporating of RSPM data.

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

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Appendix -I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	*Aegle marmelos*	Vilvam	விளாம்
2	*Adenaanthera pavonina*	Manjadi	மஞ்சாடி, சூலைக்குன்றிமணி
3	*Albizia lebbeck*	Vaagai	வாகை
4	*Albizia amara*	Usil	உசில்
5	*Bauhinia purpurea*	Mantharai	மந்தாரை
6	*Bauhinia racemosa*	Aathi	ஆத்தி
7	*Bauhinia tomentos*	Iruvathi	இருளாத்தி
8	*Buchanania axillaris*	Kattuma	காட்டுமா
9	*Borassus flabellifer*	Panai	பனை
10	*Butea monosperma*	Murukkamaram	முருக்கமரம்
11	*Bobax ceiba*	Ilavu, Sevvilavu	இலவு
12	*Calophyllum inophyllum*	Punnai	புன்னை
13	*Cassia fistula*	Sarakondrai	சரக்கொன்றை
14	*Cassia roxburghii*	Sengondrai	செங்கொன்றை
15	*Chloroxylon sweitenia*	Purasamaram	புரசமரம்
16	*Cochlospermum religiosum*	Kongu, Manjalllavu	கோங்கு, மஞ்சள் இலவு
17	*Cordia dichotoma*	Naruvuli	நருவலி.
18	*Creteva adansoni*	Mavalingum	மாவிலங்கம்
19	*Dillenia indica*	Uva, Uzha	உசா
20	*Dillenia pentagyna*	SiruUva, Sitruzha	சிறு உசா
21	*Diospyro sebenum*	Karungali	கருங்காலி
22	*Diospyro schloroxylon*	Vaganai	வாகனை
23	*Ficus amplissima*	Kalltchi	கல் இச்சி
24	*Hibiscus tiliaceou*	Aatrupoovarasu	ஆற்றுப்பூவரசு
25	*Hardinckia binata*	Aacha	ஆச்சா
26	*Holoptelia integrifolia*	Aayili	ஆயா மரம், ஆயிலி
27	*Lannea coromandelica*	Odhiam	ஓதியம்
28	*Lagerstroemia speciosa*	Poo Marudhu	பூ மருது
29	*Lepisanthus tetraphylla*	Neikottaimaram	நெய் கொட்டை மரம்
30	*Limonia acidissima*	Vila maram	விளா மரம்
31	*Litsea glutinos*	Pisinpattai	அரப்பா. பிசின்பட்டை
32	*Madhuca longifolia*	Illuppai	இலுப்பை
33	*Manilkara hexandra*	UlakkaiPaalai	உலக்கை பாலை
34	*Mimusops elengi*	Magizhamaram	மகிழமரம்
35	*Mitragyna parvifolia*	Kadambu	கடம்பு
36	*Morinda pubescens*	Nuna	நுனா
37	*Morinda citrifolia*	Vellai Nuna	வெள்ளை நுனா
38	*Phoenix sylvestre*	Eachai	ஈச்சமரம்
39	*Pongamia pinnat*	Pungam	புங்கம்

40	*Premna mollissima*	Munnai	முன்னை
41	*Premna serratifolia*	Narumunnai	நறு முன்னை
42	*Premna tomentosa*	Malaipoovarasu	மலை பூவரசு
43	*Prosopis cinerea*	Vanni maram	வன்னி மரம்
44	*Pterocarpus marsupium*	Vengai	வேங்கை
45	*Pterospermum canescens*	Vennangu, Tada	வெண்ணாங்கு
46	*Pterospermum xylocarpum*	Polavu	புலவு
47	*Putranjiva roxburghi*	Karipala	கரிபாலை
48	*Salvadora persica*	Ugaa Maram	உகா மரம்
49	*Sapindus emarginatus*	Manipungan, Soapukai	மணிப்புங்கன் சோப்புக்காய்
50	*Saraca asoca*	Asoca	அசோகா
51	*Streblus asper*	Piray maram	பிரய் மரம்
52	*Strychnos nuxvomic*	Yetti	எட்டி
53	*Strychnos potatorum*	Therthang Kottai	தேற்றான் கொட்டை
54	*Syzygium cumini*	Naval	நாவல்
55	*Terminalia belleric*	Thandri	தான்றி
56	*Terminalia arjuna*	Ven marudhu	வெள் மருது
57	*Toona ciliate*	Sandhana vembu	சந்தன வேம்பு
58	*Thespesia populnea*	Puvarasu	பூவரசு
59	*Walsuratrifoliata*	valsura	வால்சுர
60	*Wrightia tinctoria*	Veppalai	வெப்பாலை
61	*Pithecellobium dulce*	Kodukkapuli	கொடுக்காப்புளி

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Appendix –III

Display Board

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

--சுரங்கம்

சுரங்கங்களில் குவாரி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEIAA/——, தேதியிடப்பட்டு, சுற்றுச்சூழல் அனுமதி _____ தேதி வரை செல்லத்தக்கதாக உள்ளது.

<table>
<tr><td rowspan="5">பசுமை பகுதி வளர்ச்சி
மேம்பாட்டுக்கான சுரங்கத் திட்டம்

நடப்பட்டு
பராமரிக்கப்பட வேண்டிய மரங்கள்
எண்ணிக்கை:</td><td>குவாரியின் எல்லையைச் சுற்றி வேலி அமைக்க வேண்டும்</td></tr>
<tr><td>சுரங்கப்பாதையின் ஆழம் தரைமட்டத்திலிருந்து ___ மீட்டருக்கு மிகாமல் இருக்க வேண்டும்.</td></tr>
<tr><td>காற்றில் மாசு ஏற்படாதவாறு சுரங்க பணிகளை மேற்கொள்ள வேண்டும்.</td></tr>
<tr><td>வாகனங்கள் செல்லும் பாதையில் மாசு ஏற்படாத அளவிற்கு தண்ணீரை முறையாக தண்ணீர் லாரிகளின் மூலமாக அவ்வப்போது தெளிக்க வேண்டும்.</td></tr>
<tr><td>இரைச்சல் அளவையும் தூசி மாசுபாட்டையும் குறைப்பதற்காக குவாரியின் எல்லையை சுற்றி அடர்த்தியான பசுமை பகுதியை ஏற்படுத்த வேண்டும்.</td></tr>
<tr><td colspan="2">சுரங்கத்தில் வெடி வைக்கும்பொழுது நிலஅதிர்வுகள் ஏற்படாதவாறும் மற்றும் கற்கள் பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை உறுதியாக செயல்படுத்தப்பட வேண்டும்.</td></tr>
<tr><td colspan="2">சுரங்கத்தில் இருந்து ஏற்படும் இரைச்சல் அளவு 85 டெசிபல்ஸ் (dBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.</td></tr>
<tr><td colspan="2">சுரங்க சட்ட விதிகள் 1955ன் கீழ் சுரங்கத்தில் உள்ள பணியாளர்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்கவேண்டும் சுகாதாரமுள்ள கழிப்பறை வசதிகளை செய்து தர வேண்டும்.</td></tr>
<tr><td colspan="2">கிராமம் அல்லது பஞ்சாயத்து வழியாக வாகனங்கள் செல்லும் சாலையை தொடர்ந்து நன்கு பராமரிக்க வேண்டும்.</td></tr>
<tr><td colspan="2">சுரங்கப்பணிகளால் அருகில் உள்ள விவசாயப் பணிகள் மற்றும் நீர்நிலைகள் பாதிக்கப்படக் கூடாது.</td></tr>
<tr><td colspan="2">நீர்நிலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் நிலத்தடி நீரின் தரத்தினை தொடர்ந்து கண்காணிக்க வேண்டும்.</td></tr>
<tr><td colspan="2">சுரங்கத்திலிருந்து கனிம பொருட்களை எடுத்துச் செல்வது கிராம மக்களுக்கு எந்தத் தொந்தரவையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் சுற்றுசூழல் பாதிக்காத வண்ணம் வாகனங்களை இயக்க வேண்டும்.</td></tr>
<tr><td colspan="2">சுரங்கப்பணிகள் முடிக்கப்பட்டவுடன் சுரங்க மூடல் திட்டத்தில் உள்ளவாறு சுரங்கத்தினை மூட வேண்டும்.</td></tr>
<tr><td colspan="2">சுரங்க நடவடிக்கைகளை முடித்தபின்னர் சுரங்கப் பகுதி மற்றும் சுரங்க நடவடிக்கைகளால் இடையூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுசீரமைப்பு செய்து தாவரங்கள் விலங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பசுமைப்பகுதியை உருவாக்க வேண்டும்.</td></tr>
<tr><td colspan="2">முழுமையான நிபந்தனைகளை அறிய பரிவேஷ் (http://parivesh.nic.in) என்கிற இணையதளத்தைப் பார்வையிடவும். மேலும் எந்தவித சுற்றுசூழல் சார்ந்த புகார்களுக்கு சென்னையில் உள்ள சுற்றுச்சூழல் மற்றும் வன அமைச்சகத்தின் ஒருங்கிணைந்த வட்டார அலுவலகம்: 044 – 28222325 (அல்லது) தமிழ்நாடு மாசு கட்டுப்பாடு வாரியத்தின் மாவட்ட சுற்றுச்சூழல் பொறியாளரை அணுகவும்.</td></tr>
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