

STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU

Minutes of 329th meeting of the State Expert Appraisal Committee (SEAC) held on 16.11.2022 (Wednesday) at SEIAA Conference Hall, 2nd Floor, PanagalMaligai, Saldapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects.

Agenda No: 329-01

(File No: 9042/2022)

Proposed Rough Stone quarry Lease over an extent of 0.81.35 Ha at S.F.No. 265/6D(Part), 265/7A(Part), 265/7B(Part), 265/7C(Part), 265/8A, 265/8B, 265/9A & 265/9B in Vellanur Village, Kulathur Taluk, Pudukottai District, Tamil Nadu by Thiru. M.Mani – For Environmental Clearance (SIA/TN/MIN/258958/2022 dated 28.02.2022)

The proposal was placed in 329th meeting of SEAC held on 16.11.2022. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.M.Mani has applied for Environmental Clearance for the proposed rough stone quarry lease over an extent of 0.81.35 Ha at S.F.Nos. 265/6D(Part), 265/7A(Part), 265/7B(Part), 265/7C(Part), 265/8A, 265/8B, 265/9A & 265/9B in Vellanur Village, Kulathur Taluk, Pudukottai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the project are as follows:

Sl. No	Details of the Proposal	
1.	Name of the Owner/Firm	: Thiru. M.Mani, S/o.Muthukaruppan, No.963(1), Sivampatti, Vellanur, Kulathur Taluk, Pudukottai District – 622501.
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone quarry
3.	S.F No. Of the quarry site	: 265/6D(Part),265/7A(Part), 265/7B(Part), 265/7C(Part), 265/8A, 265/8B, 265/9A & 265/9B
4.	Village in which situated	: Vellanur
5.	Taluk in which situated	: Kulathur
6.	District in which situated	: Pudukottai


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7.	Extent of quarry (in ha.)	:	0.81.35
8.	Period of quarrying proposed	:	5years
9.	Type of mining	:	Opencast method of semi-mechanized mining
10.	Production (Quantity in m ³)	:	18,820m ³ of rough stone, 4756m ³ of weathered rock & 5580m ³ of top soil (as per revised mine plan)
11.	Depth of quarrying	:	19.0 m Below Ground Level
12.	Latitude & Longitude of all corners of the quarry site	:	10°25'20.0464"N to 10°25'16.4505"N 78°47'37.6498"E to 78°47'8329"E
13.	Top Sheet No.	:	58- J/15
14.	Man Power requirement	:	18 Nos.
15.	Precise area communication Assistant Director (i/c), Department of G&M Mines with date	:	Rc.No. 437/2021 (G&M) dated:30.11.2021
16.	Mining Plan approved by Assistant Director, Department of G&M Mines with date	:	Rc.No. 437/2021 (G&M) dated:29.01.2022
17.	500m cluster letter issued by Assistant Director, Department of G&M Mines with date	:	Rc.No. 437/2021 (G&M) dated:29.01.2022
18.	Water requirement: 1. Drinking & Domestic water 2. Dust suppression 3. Green Belt	:	1.81 KLD 0.81 KLD 0.50 KLD 0.50 KLD
19.	Power requirement	:	24,274Liters of HSD for entrie project life
20.	Depth of water table	:	58m BGL
21.	Project Cost (excluding EMP)	:	Rs. 41,40,000
22.	EMP cost	:	Capital Cost – Rs.10,07,000 Recurring Cost – Rs.13,10,500 Overall EMP budget for 5 years – Rs.82,00,000
23.	VAO certificate regarding habitation within 300m radius	:	Letter Dated : 10.12.2021

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the total excavation quantity of **18,820 m³ of rough stone, 4756m³ of weathered rock** and not exceeding the **Annual Peak Production Capacity of 7920-m³ of rough stone & 2666 m³ of weathered rock** restricted with an

ultimate depth of 19m below ground level, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall inform the 'Notice of Opening' of the proposed quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the provisions of the MMR 1961 pertaining to the mine working operations in the proposed quarry before obtaining the CTO.
4. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 before obtaining the CTO from TNPCB.
5. Further, the PP shall construct the garland drain with proper size, gradient and length around the proposed quarry along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m before obtaining the CTO, as it is designed to take care of run-off water to the surface siltation points of sufficient size are maintained for the collection of silt.
6. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
7. As per the earlier CCR compliance furnished, the proponent shall create a separate bank account and shall deposit the amount demarcated for the committed EMP activities every year in advance and the said expenditure details spent on the


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committed EMP activities shall be maintained & submitted to TNPCB once in 6 months.

8. the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia & 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
9. In case of carrying out the 'Deep-hole large diameter drilling and blasting' in the proposed quarries, the PP must obtain prior permission from the Director of Mines Safety, Chennai Region after the commencement of mining operations under the provisions of Reg. 106 (2) (b) of MMR 1961.
10. As few structures and habitations are located within 500 m from the boundary of the proposed quarry, the PP shall carry out the scientific studies on 'Design of controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock', within one year of the commencement of mining operations, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
11. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease after it is duly approved by the concerned AD (Mines) before obtaining CTO from TNPCB.
12. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a 'Standard Operating Procedure' for carrying out the safe method of the blasting operation in the proposed quarry to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
13. The PP shall ensure that the blasting operations are carried out by only the statutory persons like Blaster/Mine Mate/Mine Foreman directly employed by him


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as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.

14. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
15. 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.
16. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
17. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
18. 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.
19. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent towards the Government High School, Bala Nagar for the activities as committed, before obtaining CTO from TNPCB.

Agenda No: 329 – 02


(File No.5824/2022)

Existing multicolor Granite mine Lease over an extent of 4.32.5 Ha at S.F.No.9/1A1, 9/2A2, 9/2A3, 9/2B, Thangayur Village, Edappadi Taluk, Salem District, Tamil Nadu by Thiru. Navinladdha Extension of validity for the Environmental Clearance Issued (SIA/TN/MIN/265484/2022 dated: 1.04.2022)


The proposal was placed in this 329th Meeting of SEAC held on 16.11.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The PP has obtained Environmental Clearance vide Lr No. SEIAA-TN /F.No. 5824/1(a)/EC.No. 3862/2016 Dt. 14.11.2016 for the proposed multicolor Granite mine Lease over an extent of 4.32.5 Ha at S.F.No. 9/1A1, 9/2A2, 9/2A3, 9/2B,


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Thangayur Village, Edappadi Taluk, Salem District, Tamil Nadu.

2. The approved quantity as per Earlier EC is 30340 Cu.m of Multi coloured granite for the period of 5 years from the date of execution of mining lease.
3. The PP also obtained extension of Environmental Clearance valid up to 13.11.2022 vide Lr No.SEIAA-TN /F.No. 5824/Amendment/2016 Dt. 30.10.2021 based on MoEF&CC Notification vide S.O No. 221€ Dt. 18.1.2021 for COVID-19.
4. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
5. The PP has obtained 1st Scheme of mining for the period of 2021-22 to 2025-2026 and applied for Extension of existing EC issued.
6. Now the PP has applied online through Parivesh portal vide Proposal No. SIA/TN/MIN/265484/2022 dated: 1.04.2022 for the extension of validity of EC with all required documents.
7. Now, as per the Mineral Concession Rules, 1960 & Granite Conservation and Development Rules, 1999, a Scheme of Mining was submitted for a five-year period (2021-22 to 2025-26) and the Scheme of Mining was approved by the Director of Geology and Mining, Guindy, Chennai vide Rc. No. 5500/MM4/2021 dated 15.03.2022.
8. The Scheme of Quarrying was prepared and approved for quantity not exceeding the quantity in previous Mining Plan and there shall be no modification in quantity or area of the proposal.
9. As per the mining plan, the lease period is for 20 years. The production for 5 years (as per approved scheme of mining 2021-22 to 2025-26) not to exceed – ROM – 50517m³ (Recovery @60% =30310 m³& Waste@ 40% = 20207 m³Multi Colour Granite) with proposed depth of 30.5m(BGL). Annual Peak Production of ROM capacity: 10272 m³(5THyears)


Sl. No.	Details of the Proposal	
1.	Name of the Owner / Firm	Thiru.Navinladdha, S/o. (Late) Sri Ramkeshwarladdha, No.31/1, Chandramukhi, Pattalamma Temple Street,


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		South End Circle, Basavanagudi, Bengaluru – 560 004, Karnataka State - 560 004
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Multi-Colour Granite quarry
3.	S.F No. of the quarry site with area break-up	9/1A1, 2A2, 2A3 & 2B
4.	Village in which situated	Thangayur Village
5.	Taluk in which situated	Edappadi Taluk
6.	District in which situated	Salem District
7.	Extent of Quarry (in ha.)	4.32.5 Ha
8.	Latitude & Longitude of all corners of the quarry site	11°33'25.23"N to 11°33'34.85"N 77°51'02.76"E to 77°51'10.08"E
9.	Topo sheet No.	58 - E/14
10.	Type of Mining	Open Cast Semi Mechanized Mining
11.	Period of Quarrying proposed	Five Years (2021-22 to 2025-26)
12.	Production (Quantity in m ³)	50517m ³ ROM, 30310m ³ Granite Recovery (60%), Granite Waste (40%)- 20207m ³
13.	Depth of quarrying	30.5m (0.5m Topsoil + 10m Granite) BGL
14.	Depth of water table	50m-45m (BGL)
15.	Man power requirement per day:	34 Employees
16.	Source of Water Requirement	Vendors and Existing Bore Well on nearby quarry area
17.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression, Green Belt & Drilling (in KLD)	1.0 KLD 0.3 KLD 0.3 KLD 0.4 KLD
18.	Power requirement: a) Domestic purpose b) Industrial Propose	TNEB 58,032 Liters of HSD
19.	Whether any habitation within 300m distance	No
20.	Precise Area Communication approved by the, Industries (MMB.2) Department with date	Lr.No. 888/MMB.2/2016-1 Dt. 28.7.2016 by Additional Chief Secretary to Govt
21.	Mining plan approved by Assistant Director of Geology and Mining Guindy with date	Letter. No: 5500/MM4/2021, Dated:15.03.2022


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22.	Assistant Director, Department of Geology and Mining, with date 500mts letter	Roc. No. 660/2015/Mines-A, Dated: 26.10.2016
23.	VAO Certificate regarding 300m Radius letter dated	
24.	Project cost (excluding EMP cost)	Rs.2.79 Cores
25.	EMP cost	Rs.3.80 Lakhs
26.	CER cost	10 Lakhs as per SEAC Minutes

Based on the presentation and document furnished by the project proponent, SEAC decided to recommend the proposal for the grant of **Extension of Environmental Clearance** for the ROM quantity of 50517 m³ which includes 30310 m³ of Multi Colour Granite with annual production capacity of not exceeding 10272 m³ of ROM which includes 6163 m³ of Multi Colour Granite for an ultimate depth of 30.5 m under the provisions of MoEF& CC OM No. J-11011/15/2012-1A. II (M), dated. 20.03.2015 and MoEF& CC Notification S.O. 1141 (E) dated. 29.04.2015 subject to the standard conditions as per the **Annexure - I** of this minutes and 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 mandatorily appoint the statutory Mines Manager & other statutory competent persons and the Geologist in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Granite Conservation & Development Rules, 1999 respectively before obtaining the CTO.
3. 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.
4. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular 11/1959

- and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
5. The PP shall extract the dimensional stone blocks through non-explosive techniques such that the surrounding structures are not impacted.
 6. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
 7. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
 8. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained properly.
 9. The PP shall ensure that the Diamond Wire Saw Machine Operators/Technicians shall be adequately trained in safe operation/proper maintenance of Machine and the rope.
 10. In the interest of safety, the PP of the planned quarry where the Diamond Wire Saw Machines are proposed and OEM of such machines are advised to comply with the safety provisions as given in DGMS (Tech) Circular No. 02 of 2019 so that accidents are mitigated adequately.
 11. The PP shall conduct a Slope Stability study after a period of five years from the commencement of quarrying operation through any reputed scientific institution such as NIRM, IIT(ISM), NITK Surathkal-Dept of Mining Engg, Anna University Chennai – CEG Campus and any other CSIR labs, to study the efficacy of the slope stability of highwall in the proposed quarry for the safe operation.
 12. The proponent shall obtain a 'Star Rating' system awarded by Anna University, Chennai annually to the mining lease being operated for their efforts and initiatives taken for successful implementation of the Sustainable Development Framework (SDF).


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

14. As accepted by the Project Proponent the revised CER cost is Rs. 10 lakhs and the amount shall be spent for the committed activities for the Government School, Thanngayur, Salem District before obtaining CTO from TNPCB.

Agenda No: 329-03

(File No: 6900/2022)

Existing Black Granite quarry lease over an extent of 6.00.0 Ha S.F.Nos.1193/1 (Part-15) Kodakkal Village, Sholingur Taluk, Ranipet District, Tamil Nadu by M/s TAMIN - For amendment in Environmental Clearance issued.(SIA/TN/MIN/293469/2022 Dt: 01.11.2022)

The proposal was placed in 329th meeting of SEAC held on 16.11.2022. The details of the project are available in the website (parivesh.nic.in).

SEAC noted the following:

- The PP was issued with Environmental Clearance vide Lr.No.SEIAA-TN/F.No.6900/1(a)/EC.No:4615/2020 dated:27.03.2021 for the production in RoM: 90011 M³, 9002 m³ of black granite and Granite Waste: 81009 m³ Black Granite for the period of 5 Years from the date of Execution of mining lease.
- Now, the PP has obtained revised mining plan & applied for the following amendment in the existing EC issued since the recovery percentage increased from 10% to 20%:

Production qty as per EC	Amendment Sought
RoM: 90011 m ³	RoM: 72018 m ³
Black Granite: 9002 m ³	Black Granite: 14403 m ³
Granite Waste: 81009 m ³	Granite Waste: 57615 m ³
For the period of 5 Years	For the remaining period of EC

The proponent gave justification for increase of production recovery without increasing RoM as follows:

- To improve revenue to TAMIN and also seigniorage revenue to Government, TAMIN has proposed to produce the commercial blocks and


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small blocks from the Granite waste apart from defect free blocks in the subject area.

- ii) Therefore, the recovery % is expected to increase from 10% to 20% without increasing Run of Mine (RoM) and method of mining.
- iii) The only change sought is to allow sale of commercial and small blocks which are currently being treated as waste.
- iv) The environmental impact is directly linked to RoM and not so much to saleable production quantity.
- v) Since the EC limits saleable quantity, it is observed that our quarry managers tend to extricate a very miniscule quantity of absolutely defect free material.
- vi) This is neither in the interest of revenue generation for TAMIL/ State but is also in no way helping protect the environment.
- vii) It is well known that without removing Run of Mine (ROM) the recoverable production is not possible.

Further, the SEAC noted the following from the presentation made by the proponent: "...As per Rule 22 (6) of Mineral Concession Rules, 1960, The mining plan once approved shall be valid for the entire duration of the lease..."

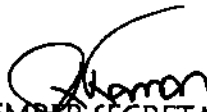
Hence, based on the presentation & details furnished by the PP, the SEAC decided to recommend the above-mentioned amendments for the total production quantity of RoM of 72018 m³ and not exceeding the Annual Production Capacity of 18015 m³ of RoM, as requested, in the existing EC issued, subject to the following conditions.

1. The existing conditions as mentioned in the EC vide Lr.No.SEIAA-TN/F.No.6900/1(a)/EC.No:4615/2020 dated: 27.03.2021 remain unaltered.

Agenda No:329-04.

(File No: 8778/2021)

Proposed Firedlay & Laterite quarry lease area over an extent of 1.21.5 Ha at S.F.Nos. 195/1(Part) of Thalampattu Village, Panruti Taluk, Cuddalore District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited - TAMILNADU - For Environmental Clearance . (SIA/TN/MIN/81802/2021,dated: 05.08.2022).


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The proposal was placed in this 329th Meeting of SEAC held on 16.11.2022. 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. Tamil Nadu Minerals Limited - TAMIN, has applied for Environmental clearance for the proposed Fireclay & Laterite quarry lease area over an extent of 1.21.5 Ha at S.F.Nos. 195/1(Part) of Thalampattu Village, Panruti Taluk, Cuddalore 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 production for the five years states that the total quantity of recoverable as 74,047 Tonnes of Laterite & 89,021Tonnes of Fire clay and the ultimate depth of mining is 17m below ground level.
4. The PP has obtained ToR vide Lr No.SEIAA-TN/F.No.8778/SEAC/ToR-1059/2022 Dated:04.01.2022.
5. The Public hearing conducted on 28.06.2022


Sl. No	Details of the Proposal	
1	Name of the Owner/Firm	: M/s. Tamil Nadu Minerals Limited No.31, KamarajarSalai, TWAD House, Chepauk, Post Box No.2961, Chennai – 600 005.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Fireclay & Laterite
3	S.F No. Of the quarry site with area break-up	: 195/1 (Part)
4	Village in which situated	: Thalampattu
5	Taluk in which situated	: Panruti
6	District in which situated	: Cuddalore
7	Extent of quarry (in ha.)	: 1.21.5 Ha
8	Period of quarry lease	: 10 years


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9	Type of mining	Opencast Semi Mechanized Mining Method
	Mineable Reserves (Quantity in Tonnes)	1,19,988 Tonnes of Laterite & 3,95,025 Tonnes of Fire clay
10	Production (Quantity in Tonnes)	: 74,407 Tonnes of Laterite & 89,021 Tonnes of Fire clay; 24197 T of overburden (waste)
11	Latitude & Longitude of all corners of the quarry site	: 11°43'21.18"N to 11°43'25.26"N 79°31'29.46"E to 79°31'34.84"E
12	Topo Sheet No.	: 58- M/10 & 14
13	Man Power requirement per day:	26 Nos
14	Precise area communication approved by the Principal Secretary to Government, Industries (MMC.2) Department with date	: Letter No. 7497/MMC.2/2020-1, dt:26.02.2021
15	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Rc.No.7557/MM7/2019, dt: 27.07.2021
16	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression (in KLD) 3. Green Belt (in KLD)	: 1.00 KLD 0.50 KLD 0.25 KLD 0.25 KLD
17	Power requirement a. Domestic Purpose	: TNEB
18	Depth of quarrying	: 17m bgl
19	Depth of water table	: Nil
20	Whether any habitation within 300m distance	: No
21	Project Cost (excluding EMP cost)	: Rs. 67,25,000/-
22	EMP cost	: Rs. 1,55,000/-
23	CER cost	: Rs. 1,37,600/-
24	Assistant Director, mines 500m cluster letter	: Rc.No.453/Mines/2017, dt: 20.05.2021
25	VAO certificate regarding 300m radius cluster	: Letter dated: 09.03.2021

Based on the presentation and document furnished by the project proponent,
SEAC decided to recommend the proposal for the grant of Environmental Clearance


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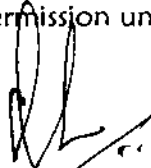
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for total production capacity of the ROM – 163428 T which includes 74407 T of laterite & 89021 T of Fire Clay and 24,147 T of overburden for first five year plan as approved by the competent authority but however not exceeding the annual peak production ROM of 53006 T which includes 35157 T of laterite & 17976 T of Fire Clay and 9,296 T of overburden with an ultimate depth of 17 m, subject to the standard conditions as per the Annexure - I of this minutes and normal conditions stipulated by MOEF&CC, in addition to the following specific conditions

S.No	Year	OB (In Tonnes)	Laterite (In Tonnes)	Fireclay (In Tonnes)	Total production [Laterite + Fireclay] (In Tonnes)	Ore to OB Ratio
1	First	9,296	16,275	17,976	34,251	1:0.27
2	Second	6,627	22,975	17,760	40,735	1:0.16
3	Third	8,224	35,157	17,849	53,006	1:0.15
4	Fourth	--	--	17,858	17,858	--
5	Fifth	--	--	17,578	17,858	--
Total		24,147	74,407	89,021	1,63,428	1:0.15

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 mine manager and other statutory competent persons such as Mine Foreman (or) Mine Mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The project proponent shall duly appoint the **qualified Mine Manager** possessing the **First Class Mines Manager's certificate of competency** issued by DGMS under MMR 1961 only before obtaining the CTO from the TNPCB.
4. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under


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the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.

5. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 before obtaining the CTO from TNPCB.
6. Further, the PP shall construct the garland drain with proper size, gradient and length around the proposed quarry along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m before obtaining the CTO, as it is designed to take care of run-off water to the surface siltation points of sufficient size are maintained for the collection of silt.
7. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities like IBM, MoEF & CC, DMG, etc.
8. The PP shall carry out the Initial and Periodical Medical Examinations by the approved Medical Practitioner to all the persons employed in the mine including the contractual labours, as per the provisions of Mines Rules, 1955.
9. The PP shall ensure that all the persons employed directly in the mines as well as the contractual labours undergo the vocational training on "Occupational Exposure to Noise and Vibration in Mines," in the Group Vocational Training Centre, Salem before obtaining the CTO from TNPCB.
10. The PP shall conduct the Occupational health survey for all the persons employed in the mine including contractual labours and maintain the record indicating the status of their health condition once in six months and a copy of report of the same shall be submitted to the DEE/TNPCB, IRO/MoEF Chennai, SEIAA and DMS, Chennai.
11. The PP shall carryout the studies pertaining to the Airborne Respirable Dust, Noise for the proposed mining operations and the Whole-Body Vibration (WBV)

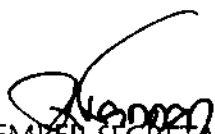

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of the HEMMs used including Rock Breakers annually by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Miners' Health - KGF, NIT Surathkal – Dept of Mining Engg, Anna University Chennai-CEG Campus, and any CSIR Laboratories 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.

12. The PP must ensure that the width of the working benches in the fire clayey formation is maintained at the value equivalent to three times the width of largest size truck (or) two times the width of the widest HEMM used in the bench plus 5 m, whichever is higher, for the avoidance of slope failure.
13. However, the PP shall carry out the scientific studies to assess the slope stability of the highwall benches formed in laterite & fire clay formations when the depth of the quarry touches 20 m (or) after the completion of 5 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
14. The PP shall also provide a dedicated safe foot-path in the haul roads maintained in the fire clayey formation for the persons employed in the mine.
15. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
16. 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


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- 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.
17. 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.
 18. 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.
 19. 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.
 20. 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.
 21. 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.
 22. 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.
 23. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such license or lease is granted, as per


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24. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2018 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.


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31. The PP shall ensure that the quarry is converted into a suitable water reservoir with proper fencing as a part of fulfilling the requirements of Mine Closure Plan as approved by the competent authority.
32. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
33. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
34. 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.
35. As accepted by the Project proponent the CER cost is Rs. 1,37,600 and the amount shall be spent for the Thalampattu Government school as committed, before obtaining CTO from TNPCB.

Agenda Item No.:329-05

File No. 1193/2022

Proposed Environmental Clearance for the Existing Black Granite Quarry over an extent of 6.59.91 Ha. at S.F. Nos. 83 (Part) of Jamanahalli Village, Pappireddipatti Taluk, Dharmapuri District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited - For Environmental Clearance under violation category. (SIA/TN/MIN/72624/2018 dated: 24.02.2022)

The proposal was placed for appraisal in this 329th meeting of SEAC held on 16.11.2022. The details of the project furnished by the proponent are available on the website (parivesh.nic.in). The project proponent gave detailed presentation.

SEAC noted the following:

1. The Project Proponent, M/s. Tamil Nadu Minerals Limited has applied for Environmental Clearance for the Existing Black Granite Quarry over an extent of 6.59.91 Ha. at S.F. Nos. 83 (Part) of Jamanahalli Village, Pappireddipatti Taluk, Dharmapuri District, Tamil Nadu under violation category.


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2. The project/activity is covered under Category "B - under violation" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification 2006, as amended.
3. TOR issued vide T.O Lr No.SEIAA-TN/F.No.1193/TOR-467/2018, Dated: 05.06.2018 under violation category.
4. Amendment to ToR under violation category with public hearing vide Letter No. SEIAA-TN/F-1193/SEAC- CXVIII/TOR- 467(A)/2018 Dt.30.07.2018.
5. ToR Extension vide T.O Lr. No.SEIAA-TN/F.No.1193/1(a)/ToR.467/2016/A/ dated:30.10.2021.
6. Public hearing conducted on 25.11.2021
7. EIA submitted vide online proposal No. SIA/TN/MIN/72624/2018 dated: 24.02.2022

Based on the presentation made and documents furnished by the project proponent, SEAC decided to make on-the spot site-inspection by the sub-committee constituted by SEAC to assess the present status of the project and environmental settings as the proposal falls under violation category. Further the sub committee will assess the ecological damage and also to check the Remedial Plan & Community Augmentation Plan submitted by the Project Proponent during the inspection.

Agenda No: 329-06

File No: 6708/2022

Proposed Black Granite Quarry over an extent of 14.53.0Ha at S.F.No: 155/2 of Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited – For Terms of Reference for Expansion of Production under violation. (SIA/TN/MIN/82230/2022, Dated: 12.08.2022)

The proposal was placed in this 329th Meeting of SEAC held on 16.11.2022. The details furnished by the Proponent are given in the Parivesh website. (parivesh.nic.in)

SEAC noted the following:

1. The Proponent M/s. Tamil Nadu Minerals Limited has filed a proposal for obtaining Terms of Reference for Black Granite Quarry over an extent of 14.53.0Ha at S.F.No: 155/2 of Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamilnadu.
2. The project/activity is covered under Category "B1" of Item "1(a) Mining


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of minerals” of the Schedule to the EIA Notification, 2006.

3. The Mining Plan was approved with first five year Development & Production Plan for the period of 2012 -2017 with 5% recovery anticipated annual peak production capacity of 1011.990 cu.m.
4. From the first scheme of mining submitted for the period of 2017-2022, it was revealed that the annual peak production quantity enhanced to 2052 cu.m due to better quality of granite blocks extracted subsequently.
5. The firm had initially executed the lease for a period of 5 years only on 09.04.2012 but however the lease period has been extended for 30 years, i.e., upto 06.04.2042 by the competent authority vide AD (Geology & Mines) letter dated. 09.07.2020 to facilitate the requirements of Granite Conservation Rules, 1999 by extracting the above enhanced quantity of Annual Peak Production of 2052 cu.m.
6. Hence the PP had uploaded the application for the issue of EC in 2018-19 with MoEF initially which had directed the proponent to file the same proposal in SEIAA portal as per the recent OM along with the revised Second Scheme of Mining for the period of 2022 to 2027.
7. Earlier, EC obtained from SEIAA-TN/F.No.1083/EC/1(a)/2505/2013 dated:01.12.2015 for a period 5 years valid up to 30.11.2020 to produce recoverable Granite of 1011.990 cu.m for a depth of 30 m with a specific EC condition states that “....subject to obtaining NBWL as applicable before issue of permit as it is located within the ESZ of Cauvery North Wildlife Sanctuary...”. However, it was found that TAMIN had not obtained the NBWL but however the permit was issued for the production & transportation of mineral by the competent authority for the EC stipulated quantity.
8. Further, the PP had carried out the quarry operation with the development activities during the first scheme period of 2017-2018 excavating 730 cu. M of over burden, 1212 cu,m of side burden and 2386 cu.m of granite rejects.
9. However, the PP had produced the RoM quantity of 2651 cu.m during

the period of 2017-2018 where the actual saleable quantity produced was 265.051 cu.m but only the permit quantity of 138.73 cu.m of recoverable Black Granite was transported.

10. As per the Hon'ble Supreme Court order dated 02.08.2017 in W.P. Civil No.114/2014 in the matter of Common Cause Vs Union of India and Ors. has passed a detailed order interpreting Section 21 (5) of MMDR Act, 1957 and directing that wherever violations were carried out, 100% cost of mined mineral without environmental clearance needs to be compensated by the mining entity/PP.
11. In this regard, the Dist Collector/Krishnagiri who is also the District Magistrate has stated that the lessee company (M/s. TAMIN) had operated the above said quarry in the violation period, i.e., operating without NBWL clearance, from 15.01.2016 to 10.01.2017 and obtained transport permit for a quantity of 815.643 cu.m which had resulted into the payment of Penalty of Rs. 4,33,53,057/= (E. Challan No 20210720244871, SBI, Krishnagiri) by M/s. TAMIN towards 100% cost of mineral for the above quarrying operation. Hence, this project has been treated as violation case.
12. Earlier, the Director, Dept of Geology and Mining, Chennai had stated vide letter dated. 09.07.2020 that *".....TAMIN complied terms & conditions of lease deed and no violation; Geological plan, Geomorphological plan & reserve details furnished in the Scheme of Mining are verified with ground realities; EC obtained in 2015 & no Violation....."*
13. Further, the Director, Dept of Geology and Mining, Chennai had issued "NOC" vide letter dated. 01.04.2022 for obtaining the environmental clearance as the PP was granted necessary approval subsequently for the second scheme of mining submitted which states that the total excavation for the aforesaid scheme period should not exceed the **ROM quantity of 1,02,550 cu.m which includes 10,255 Cu.m of Black granite and total waste of 1,99,241 cu.m of waste which includes 23,634 cu.m of**

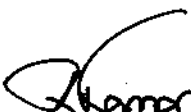
overburden, 83,312 cu.m of side burden & 92,295 Cu.m of granite rejects.

However, the annual peak production is restricted to the total ROM quantity of 20517 cu.m which includes 2052 Cu.m of Black granite and 6107 cu.m of over burden, 25006 cu.m of side burden & 18,466 cu.m of granite rejects by maintaining the ultimate depth of 30 m BGL.

14. Earlier, this proposal was accordingly placed in the 191st Meeting of SEAC held on 30.12.2020. During the meeting, SEAC noted that EDS was raised for this proposal. Hence, the SEAC decided that the Project Proponent shall close the EDS in parivesh website and also shall furnish the reply for the EDS to SEIAA office.
15. The PP stated that while uploading EDS there were some technical errors in Parivesh and the Complaint was lodged to MoEF&CC. As directed by MoEF&CC, the PP applied again to the SEIAA-TN as fresh application (SIA/TN/MIN/82230/2022) with same file number (6708).
16. It is also noted that the PP had not obtained the CCR for the previous EC granted by the SEIAA in 2015.

Hence, the proposal was placed for reappraisal in this 329th Meeting of SEAC held on 16.11.2022. Based on the presentation made and documents submitted by the proponent, SEAC decided to **recommend grant of Terms of Reference (TOR) with Public Hearing** subject to the following TORs, in addition to the standard Terms of Reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The PP shall prepare and submit a Standard Operating Procedures (SoP) during the EIA appraisal, which is in line with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
2. The proponent shall detail the mitigation measures in CNWLS at the cost of 5 lakhs in EMP, after consulting the concerned District Forest Officer.
3. The EMP shall include a detailed study on the impact of proposed mining activity on elephants, leopards and other wildlife.


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4. A tentative mining plan shall be submitted for the entire life of the mine and EMP shall be submitted for life of the mine during the EIA appraisal.
5. The PP shall spell out the stability measures for the proposed waste dump to be built in the higher elevation on a sloping ground to ensure safe environment.
6. The proponent shall give an affidavit stating that the quarry will participate in the Anna University Star Rating system annually after the commencement of mining operations and it shall be included in the EMP accordingly.
7. A detailed study on flora and fauna shall be carried around the proposed mine area by adopting standard procedures by involving the scholars of the nearby science college for providing a comprehensive biodiversity report.
8. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.
9. As per the provisions of the Granite Conservation & Development Rules, 1999, the Proponent shall ensure that the overburden, waste rock and non-saleable granite generated during prospecting or mining operations of the granite quarry shall be stored separately in properly formed dumps on grounds earmarked. For this, the PP shall show the details of the ground selected within the mine leasehold area for dumping of overburden, waste material, the sub-grade or non-saleable ores or minerals is proved for absence or presence of underlying mineral deposits before it is brought into use for dumping.
10. 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.
11. 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.


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- 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.
12. 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).
 13. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,
 14. 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.
 15. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
 16. 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.
 17. As the odai/stream is situated at a distance of 530 m from the quarry site, the


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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 other 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.

18. 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.
19. 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.
20. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
21. 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.
22. 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.
23. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such

as the TNPCB (or) Dept. of Geology and Mining should be **secured and furnished** to the effect that the proposed mining activities could be considered.

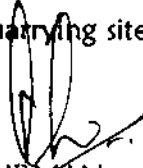
24. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
25. Impact on local transport infrastructure due to the Project should be indicated.
26. A tree survey study shall 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.
27. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
28. 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.
29. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
30. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
32. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the **appendix-I** in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.


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33. 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
34. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
35. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
41. If any quarrying operations were carried out in the proposed quarrying site for


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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 IRO/MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.

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

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

Agenda No: 329-07


(File No: 6831/2019)

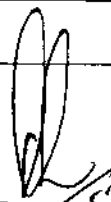
Proposed expansion of Methyl Ethyl Ketone and Secondary Butyl Alcohol & Proposed production of Methyl Iso Butyl Carbinol, Phenyl Propyl Alcohol and Mixed Alcohols production capacity from 24050 TPA to 46050 TPA at S.F.No.268, 269, 270, 271, 272 & 273, S.F No. 67/7, 67/8, 67/9, 67/10, 74/1, 75/4, 75/5, 76/1, 76/2, 77/1, 77/2, 77/3, 77/4, 77/5, 77/6, 77/7, 77/8, 78/1, 78/2, 78/3, 79/1, 79/2, 79/3, 79/4, 79/5, 79/6, 79/7, 79/8, & 79/9 Sathangadu and Chinnasekkadu Village, Tiruvottiyur Taluk Thiruvallur District, Tamil Nadu by M/s Cetex petrochemicals Limited- For Corrigendum of Environmental Clearance. (SIA/TN/IND3/291735/2022 dated 13.09.2019)

The proposal was placed in the 558th Authority meeting held on 10.10.2022.

The Proponent requested EC Corrigendum for including the following by-products in expansion activity along with the existing products in the Environmental clearance issued to the unit.

By-Products	Proposed Expansion Capacity (TPA)
LPG	3400
Secondary Butyl Ether	300
Heavy Fraction	725
Dimer Fraction	800
Spent Sulfuric Acid	34000


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After detailed discussion the authority decided that, the PP while applying for EC has not mentioned the by-products. The authority decided that the Proponent request for EC-Corrigendum for including the by-products in expansion activity along with the existing products in the Environmental clearance issued is forwarded to SEAC for further appraisal and recommendations.


The proposal was placed in 325th Meeting of SEAC held on 03.11.2022. The details of the minutes are available in the website (www.parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s Cetex petrochemicals Limited has applied for Amendment of Environmental Clearance for Proposed expansion of Methyl Ethyl Ketone and Secondary Butyl Alcohol & Proposed production of Methyl Iso Butyl Carbinol, Phenyl Propyl Alcohol and Mixed Alcohols production capacity from 24050 TPA to 46050 TPA at S.F.No.268, 269, 270, 271, 272 & 273, S.F No. 67/7, 67/8, 67/9, 67/10, 74/1, 75/4, 75/5, 76/1, 76/2, 77/1, 77/2, 77/3, 77/4, 77/5, 77/6, 77/7, 77/8, 78/1, 78/2, 78/3, 79/1, 79/2, 79/3, 79/4, 79/5, 79/6, 79/7, 79/8, & 79/9 Sathangadu and Chinnasekkadu Village, Tiruvottiyur Taluk, Thiruvallur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 5 (f) Synthetic organic chemicals industry (dyes & dye intermediates bulk) of the Schedule to the EIA Notification, 2006.


Now again the proposal was placed in this 329th Meeting of SEAC held on 16.11.2022. Based on the presentation and document furnished by the project proponent, SEAC noted that the by-products find place in the mass balance matrix submitted by the PP in the report and the same was not included in the EC and therefore decided to recommend the proposal for the grant of Environmental Clearance Corrigendum as requested by the PP.

In page no.5 of 37 in Sl. No.6- Production of EC obtained vide L1 No. SEIAA-TN/F.No.6831/5(f)EC-95/2019 dated 18.04.2022 may be read as,


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Products	Existing Capacity(TPA)	Proposed Capacity(TPA)	Capacity After Expansion (TPA)
Main Products			
Methyl Ethyl Ketone	10000	5000	15000
Secondary Butyl Alcohol	12000	10000	22000
Methyl ISO Butyl Carbinol	-	5000	5000
Phenyl Propyl Alcohol	-	1000	1000
Mixed Alcohol	-	1000	1000
Cinnamic Alcohol	1080	-	1080
Anisyl Alcohol	276	-	276
Styrallyl Alcohol	228	-	228
Styrallyl Acetate	150	-	150
Oxinome	20	-	20
Phenyl Ethyl Alcohol	96	-	96
Tertiary Butyl Cyclohexyl Acetate	200	-	200
Total	24050	22000	46050
By-Products			
LPG	4987	3400	8387
Secondary Butyl Ether	440	300	740
Heavy Fraction	117	725	842
Dimer Fraction	1173	800	1973
Spent Sulfuric Acid	49867	34000	83867
Light End	-	640	640


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Total	56584	39865	96449
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All other conditions stipulated in the EC given vide Lr.No.SEIAA-TN/F.No.6831/5(f)EC-95/2019 dated 18.04.2022 will remain unaltered.

Agenda Item No. :329-08

File No. 6415/2017

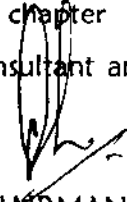
Proposed expansion of Existing hospital under violation category at S.F.Nos.1020, 1027 & 1055/2, at Krishnarayapuram Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu by M/s. G. Kuppuswamy Naidu Memorial Hospital - For Environmental Clearance under violation category.(SIA/TN/MIS/204022/2021 dated: 16.03.2021)

The proposal was earlier placed for appraisal in the 212th meeting of SEAC held on 04.05.2021. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The project proponent gave detailed presentation.

The SEAC noted the following:

1. The Project Proponent, M/s. G. Kuppuswamy Naidu Memorial Hospital has applied for Environmental Clearance for the proposed Construction 8(a) at S.F.Nos. 1020, 1027 & 1055/2, at Krishnarayapuram Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B2 - under violation" of Item 8(a) "Construction Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. Based on the direction from the SEIAA for appraising this project under violation category as per the O.M of MoEF&CC dated 09.09.2019 vide minutes of the 172nd SEAC meeting on 05.09.2020, the SEAC decided to recommend for the issue of Terms of Reference (ToR) in 3 parts for the project for assessment of Ecological damage, remediation plan and natural & community resource augmentation plan to be prepared as an independent chapter in the Environment Impact Assessment report by the Accredited consultant and also


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with collection and analysis of data for the assessment of ecological damage, preparation of remediation plan and natural & community resource augmentation plan to be done by an Environmental laboratory duly notified under the Environment (Protection) Act, 1986, accredited by NABET or a laboratory of Council of Scientific and Industrial Research Institutions working in the field of Environment.

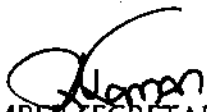
Subsequently, the SEIAA-TN issued Terms of Reference (TOR) for expansion of existing hospital under violation category vide Lr.No.SEIAA-TN/F.No.6415/Violation/ToR-793/2020 dated: 17.10.2020.

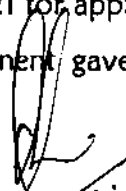
Now the Proponent has submitted the EIA Report with application for the total built up area of 5,06,020 Sqm and the detailed area statement as given below:

Block	Existing Built-up Area in Sq.m	Expansion Built-up Area in Sq.m
Total Plot area	42976.47	58017.8
BLOCK-A	9962.31	11418.23
BLOCK-B	10292.53	11701.45
BLOCK-C	8563.46	9972.38
BLOCK-D	2666.15	4807.97
BLOCK-E	-	6969.74
Other	11064.47	13190.43
Total Built-up area (Sq.m)	42548.92	58060.20

The proponent has also furnished separate chapter on the Ecological Damage Assessment, Remediation Plan, Natural Resources Augmentation and Community Resource Augmentation Plan prepared by the Accredited consultant and also detail with collection and analysis of data for the assessment of ecological damage, preparation of remediation plan and natural & community resource augmentation plan done by an Environmental laboratory duly notified under the Environment (Protection) Act, 1986, accredited by NABET.

The subject was placed in this 212th meeting of SEAC held on 04.05.2021 for appraisal for seeking Environmental Clearance under violation and the proponent gave the


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detailed presentation about the project detail. The SEAC assed 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 prepared by the NABET consultant as per the guidelines mentioned in the MoEF& CC Notifications dated 14.03.2017 and 08.03.2018. The extract from the report is as follows:

Ecological Damage Assessment:

S. No.	Ecological Damage Assessment	Remediation Plan	Amount (in Lakhs)
1.	Dust/ Particulate Matter emissions from proposed expansion activity.	<p>Isolated the construction area with flexible enclosures.</p> <p>Sprinkling of water was done at regular interval in the construction area and unpaved roads by truck mounted sprinklers.</p> <p>Proper maintenance of vehicles.</p> <p>The heavy vehicles moving offsite were well covered.</p> <p>Low sulphur fuels for transportation and for DG sets were used.</p> <p>Monitoring was done during construction activity.</p>	0.55
2.	Loss of native flora and aesthetic view	<p>Plantation of native species.</p> <p>Development of greenbelt all along the boundary.</p>	

3.	<p>1. The rain water stored at site was used for construction purpose.</p> <p>2. Source of water supply from Madurai Municipal Corporation.</p> <p>3. Sediment load</p> <p>4. Contamination of runoff due to nonpoint source pollution.</p> <p>5. Deterioration of the water channel / drain and impact on aquatic life.</p>	<p>Adequate toilets have been provided for construction labours and the sewage were discharged properly into soak pit through septic tank.</p> <p>During monsoon season runoff from construction site were routed to a temporary sedimentation tank for settlement of suspended solids.</p> <p>Sewage treatment plant.</p> <p>Proper channelization of storm water with intermediate grit chambers in the public drain with in the area.</p> <p>The Vicinity of the project site is frequently cleaned to remove 3 non-point sources before monsoon.</p>	0.65
4.	<p>Noise generation & increase in noise level.</p> <p>Noise & vibration due to construction activity and operation of D.G. Set.</p>	<p>The work was limited to day time.</p> <p>Use of machineries having highest standard and comply with national standard that take care of noise and vibration. The impact due to noise was reduced by use of acoustic enclosures for machineries and personal protective measures like earplugs, earmuffs etc.</p>	0.25
5.	<p>Un-manage / un-control storage of excavated soil.</p>	<p>The excavated top soil was used to develop the green belt within the project site.</p>	0.10


Losing its texture, productivity and fertility status. Chocking of drains due to surface runoff during rainy season. Change in topography and drainage pattern. Generation and storing of Hazardous waste.	Providing an isolated leachate proof storage facility for hazardous waste.	
Total Amount		1.55

Natural Resource Augmentation Plan:

S. No.	Natural Resource Augmentation Activities	Amount (in Lakhs)
1.	a) Provision of solar panel lighting in common areas.	0.70
	b) Development of avenue plantation	
Total Amount		0.70

Community Augmentation Plan:

S. No.	Community Augmentation Activities	Amount (in Lakhs)
1.	a) Installation of RO Plant for safe drinking water supply at School	0.45
	b) Organize awareness campaign for Swachh Bharat Abhiyan, Beti Bachao Beti Padhao and Women Empowerment.	
2.	a) Organize skill development program for sustainable income generation & livelihood for the community like training on scientific agricultural practices, tailoring, embroidery. Etc	0.50
	b) Provision of uniform, notebooks, study materials, computers for students and maintenance of school building.	


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	c)Awareness program for reduction of plastic waste reduction / solid waste Management	
Total Amount		0.95

Corporate Environmental Responsibility:

S. No.	Corporate Environmental Responsibility Activities	Amount (in Lakhs)
	<ul style="list-style-type: none"> • Health & Education • Electrification including solar power & Roads. • Skill Development. • Rainwater Harvesting. • Avenue Plantation. 	25

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

1. Low level Ecological damage:

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


2. Medium level Ecological damage:

- 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).

3. High level Ecological damage:

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

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


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remediation, natural resource augmentation & community resource augmentation and CER by following the below mentioned criteria, as per category 3, stated above.

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

For the project cost, the proponent has submitted the building valuation report for violated area Dated: 31.03.2020 from the Chartered Engineer (No: 51172). In that certificate it is given as follows.

- Area of additional building constructed - 2141.82 Sq.m.
- Cost of building per Sq.m. - Rs.16140.0

Sl. No.	Cost of the violated building area	Value INR (in Crores)
	(Area of additional building constructed) X (Cost of building per Sq.m.) = 2141.82 X Rs. 16140.0	3.4568975


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The SEAC observed that the violation project of expansion of existing hospital construction project at S.F.Nos.1020, 1027 & 1055/2, at Krishnarayapuram Village, Coimbatore North Taluk, Coimbatore District, TamilNadu by M/s. G. Kuppuswamy Naidu Memorial Hospital for Environmental Clearance under violation category comes under the "high level ecological damage category". The Committee decided to recommend the proposal to SEIAA for grant of EC subject to the following conditions in addition to the normal conditions:

1. 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 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.
2. Accordingly, the amount prescribed for Ecological remediation (Rs. 1.55 lakhs), natural resource augmentation (Rs. 0.7 lakhs) & community resource augmentation (Rs. 0.95 lakhs), totaling Rs. 3.20 lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs.3.20 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the ecological damage remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
3. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
4. The amount committed by the Project proponent for CER (Rs.25 Lakhs) shall be remitted in the form of DD to the beneficiary for the activities committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.
5. The Project proponent shall operate the STP effectively and continuously so as to achieve standards prescribed by the TNPCB for treated sewage.


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6. The Project proponent shall utilize the treated sewage for the development of green belt and toilet flushing after achieving the standards prescribed by the TNPCB.
7. 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 mentioning all the activities of proposed CER for entire project other than the CER amount of 25 Lakhs to be remitted before the issue of Environmental clearance as imposed in the condition No.3
8. The project proponent shall develop and furnish photographs of green belt developed incorporating native species adopting Miyawaki scheme inside the proposed project site, excluding the ornamental plants before obtaining the CTO.
9. The project proponent shall furnish revised latest AAQ data & meteorological data pertaining to the proposed project site before obtaining the CTO.
10. The project Proponent shall provide OWC for disposal of bio degradable solid waste. The project Proponent shall operate the same efficiently and continuously for the disposal of the Organic waste generated from the campus. The non-bio degradable waste shall be regularly collected and disposed through TNPCB authorized recycler.
11. The Project proponent shall collect & dispose the hazardous waste through TNPCB Authorized vendors/recyclers as per the Hazardous and other wastes (Movement and Transboundary Movement), Rules 2016.
12. The Project proponent shall collect and dispose the E-Waste through TNPCB Authorized vendors/recycler as per the E-Waste Management Rules 2016.
13. Necessary permission shall be obtained from the competent authority for the drawl/outsourcing of fresh water before obtaining consent from TNPCB.
14. All the mitigation measures committed by the project proponent for the flood management, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
15. Tapping of solar energy should be at least 10% of total energy consumption Solar energy usage mainly for the illumination of common areas, street lighting etc.,

16. The project proponent shall provide separate standby D.G set for the STP proposed for the continuous operation of the STP in case of power failure.
17. Waste of any type not to be disposed of in any water bodies including drains, canals and the surrounding environment.
18. The project proponent shall submit the proof for the action taken by the State Government/TNPCB against project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
19. The proponent shall furnish the detail about the built-up area for all the buildings with floor wise to TNPCB every year along with the compliance report for the Environmental Clearance.
20. Any violations and subsequent suitable action may be decided by SEIAA, as deemed appropriate, if arise.

Subsequently the subject was placed in the 446th meeting of SEIAA held on 18.06.2021 & 19.06.2021. SEIAA directed to proponent to furnish the following particulars as recommended by SEAC in the minutes of 212th meeting of SEAC held on 04.05.2021.

- a. Accordingly, the amount prescribed for Ecological remediation (Rs. 1.55 lakhs), natural resource augmentation (Rs. 0.7 lakhs) & community resource augmentation (Rs. 0.95 lakhs), totaling Rs. 3.20 lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs.3.20 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the ecological damage remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
- b. The amount committed by the Project proponent for CER (Rs.25 Lakhs) shall be remitted in the form of DD to the beneficiary for the activities committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.


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- c. 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 mentioning all the activities of proposed CER for entire project other than the CER amount of 25 Lakhs to be remitted before the issue of Environmental clearance as imposed in the condition No.3, that 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.
- d. The project proponent shall submit the proof of action taken by the State Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.

The proponent furnished the above particulars to SEIAA vide letter dated 26.07.2022 & 27.09.2022 and the e-copy of affidavit was received from the proponent through mail dated: 10.10.2022. Hence the subject was placed before the Authority in this 556th meeting of SEIAA held on 03.10.2022. The Authority, after detailed discussions, decided to refer back the subject to SEAC stating the following:

The methodology of treatment and disposal details of sewage and trade effluent detailed in the power point presentation made before the then SEAC, in the application and that mentioned in the e-copy of affidavit submitted now by the proponent vastly differ. Hence the subject may be referred back to SEAC for furnishing its recommendation.


Hence the proposal was placed in this 329th meeting of SEAC held on 16.11.2022. The Proponent made a detailed presentation on the changes proposed in the quantity of effluent generated, mode of treatment and disposal of sewage and trade effluent as detailed in the following table.

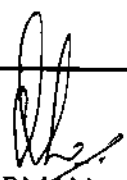
1. Changes proposed in the quantity of effluent generated, mode of treatment and disposal of sewage and trade effluent:


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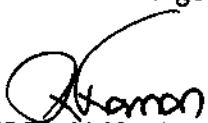
S. No	Description	Previous submission	Current Proposal	Remarks
1	Source of water	Corporation supply	Corporation supply	Existing connection available
2	Total Water requirement	513.6 KLD	515 KLD	-
3	Fresh Water requirement	86.36 KLD	314 KLD	In previous submission it is wrongly calculated that entire domestic requirement will be met through treated water source
4	Total Sewage Generation	394.74 KLD	383 KLD	-
5	Effluent Generated quantity (from laundry, lab and OT)	75 KLD	75 KLD	No Change
6	Treatment System	ZLD	Non - ZLD	Practically there is no source of excess treated water utilization and also there is an existing sewer network connected to our premises for disposal.
7	STP Capacity	500 KLD STP followed by RO System Single stage	500 KLD STP followed by RO System Single stage	No Change
8	ETP Capacity	75 KLD + RO System	75 KLD ETP	Since ETP treated will be completely discharged into the public sewer
Treated Water Utilization / Disposal Details				

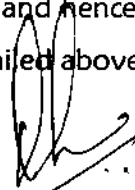

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1	Flushing requirement	240.27 KLD	157 KLD	In previous submission domestic and Non domestic water requirements calculated as combined requirement.
2	Laundry use	44 KLD	44 KLD	-
3	HVAC requirement	30 KLD	30 KLD	-
4	Greenbelt development	35 KLD	35 KLD	-
5	Boiler	6 KLD	NIL	Practically not operated on daily basis and as this boiler is operated only during power failure. Hence daily water requirement is excluded from the proposal
Total		355.27 KLD	266 KLD	
7	Quantity of waste water disposed into public sewer from STP	-	98 KLD	Excess treated water from STP after reuse
8	Quantity of waste water disposed from ETP into public sewer	-	72 KLD	Treated water from ETP
Total Disposal quantity		NIL	170 KLD	Existing Sewer connection available.

The proponent further informed the Committee that there is lesser demand of utilizing treated water towards hospital operations from the original proposal submitted and our original proposal was to make zero discharge however we were not able to achieve the same due to changes in the water consumption as detailed above and hence now propose to discharge the excess treated water into public sewer as detailed above.


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2. Details of various treatment components of STP and ETP shall be furnished:


The details of various components of STP is given below;

S. No	Name of the Treatment Unit	Quantity (Nos.)	Size (L x W x H) in (m)
1	Screen Chamber	1	1.5 x 1.5 x 1.5 m
2	Collection Tank	1	4.5 x 7.0 x 4.0 m
3	UASBR Tank	1	6.0 x 7.0 x 9.0 m
4	SBR Tank	2	7.2 x 7.8 x 3.3 m
5	Settling Tank	1	5.0 x 5.0 x 5.5 m
6	Filter Feed Tank	1	4.0 x 6.5 x 5.0 m
7	Pressure Sand Filter	1	1.5 m Dia x 2.3 m HOS
8	Activated Carbon Filter	1	1.5 m Dia x 2.3 m HOS
9	Dual Media Filter	1	1.2 m Dia x 1.8 m HOS
10	Ozonator	1	-
11	Treated Water Tank	1	6.5 x 3.0 x 2.5 m
12	Sludge Drying Beds	3	12.0 x 1.2 x 1.0 m
13	Reverse Osmosis system	-	One Stage

The various components of ETP is given below;

S. No	Name of the Treatment Unit	Quantity, Nos.	Size (L x W x H) in (m)
1	Collection Sump	1	2.25 x 2.5 x 2.5
2	Mixing Channel with Settling Tank	1	4.7 x 2.5 x 2.45
3	Multi Grade Filter	1	0.6 m Dia x 2 m HOS
4	Activated Carbon Filter	1	0.6 m Dia x 2.5 m HOS
5	Micron Filter	1	0.3 m Dia x 0.7 L
6	Treated Water Tank	2	3.0 x 3.0 x 3.0
7	Sludge Drying Bed	4	1.0 x 1.2 x 1.5

3. Three numbers of boilers of 600 kg/ hr capacity with stack height of 10 m provided as per CPCB requirement.


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The SEAC carefully examined the replies given by the PP and accepted the said changes proposed by the Project Proponent and decided to reiterate the other recommendations made by the then Committee in its 212th meeting held on 04.05.2021.

Agenda No: 329-09

(File No: 9354/2022)

Proposed construction of Group Development of Residential Building at S.F. Nos. 19/3, 19/5A1, 19/5A2, 19/5A3, 20/1, 20/2, 20/3, 20/8, 20/9, 20/10, 21/2, 21/3, 21/4, 21/5A, 21/5B, 21/6, 22/1, 22/2, 22/3, 23/1, 23/2, 23/3, 23/4, 24/1, 24/2, 24/3B, 24/6, 130/7B, 130/8, 130/9B, 136/1, 136/2B, 136/2D2, 136/2F, 136/2G, 136/2H, 138/2A, 138/2B, 139/3B, 140/1A, 140/1B, 140/2, 140/3, 140/4, 140/5, 140/6, 141/1, 141/2, 141/4A, 141/4B, 141/5, 141/6, 141/7, 141/8, 141/9, 141/10, 142/1, 142/2A1, 142/2A2, 142/2B, 142/3, 142/4, 142/5, 143/1A2, 143/1B, 143/1C, 143/2, 144/1A1, 144/1A2, 144/1B, 144/2, 145/1A, 145/1B, 145/2A3A, 145/2A3B, 145/4, 145/5, 146/1, 146/2B, 147/1, 147/2A, 147/2B, 147/2C, 147/3, 148/1A, 148/1B of Jaladiampettai Village and 420/1B2B, 421/2 of Pallikaranai Village, Sholinganallur Taluk, Chennai District, Tamil Nadu by M/s. Casagrand Horizons Private Limited - For Environmental Clearance. (SIA/TN/MIS/78738/2022 Dt. 15.11.2022)

The proposal was placed in this 329th Meeting of SEAC held on 16.11.2022. The project proponent gave a 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 Project Proponent, M/s. Casagrand Horizons Private Limited has applied for Terms of Reference for the Proposed construction of Group Development of Residential Building at S.F. Nos. 19/3, 19/5A1, 19/5A2, 19/5A3, 20/1, 20/2, 20/3, 20/8, 20/9, 20/10, 21/2, 21/3, 21/4, 21/5A, 21/5B, 21/6, 22/1, 22/2, 22/3, 23/1, 23/2, 23/3, 23/4, 24/1, 24/2, 24/3B, 24/6, 130/7B, 130/8, 130/9B, 136/1, 136/2B, 136/2D2, 136/2F, 136/2G, 136/2H, 138/2A, 138/2B, 139/3B, 140/1A, 140/1B, 140/2, 140/3, 140/4, 140/5, 140/6, 141/1, 141/2, 141/4A, 141/4B, 141/5, 141/6, 141/7, 141/8, 141/9, 141/10, 142/1, 142/2A1, 142/2A2, 142/2B, 142/3, 142/4, 142/5, 143/1A2, 143/1B, 143/1C, 143/2, 144/1A1, 144/1A2, 144/1B, 144/2, 145/1A, 145/1B, 145/2A3A, 145/2A3B, 145/4, 145/5, 146/1, 146/2B, 147/1, 147/2A, 147/2B, 147/2C, 147/3, 148/1A, 148/1B of Jaladiampettai Village and 420/1B2B, 421/2 of Pallikaranai Village, Sholinganallur Taluk, Chennai District, Tamil Nadu.


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2. The project/activity is covered under Category "B1" of Item 8(b) "Townships and Area Development Projects" of the Schedule to the EIA Notification, 2006.
3. Total land/plot area is 71,062.21 Sq.m and total buildup area is 1,66,500 Sq.m. The project comprises of 19 Blocks with 941 Dwelling units.
4. ToR issued vide Lr.No.SEIAA-TN/F.No.9354/SEAC/8(b)/ToR-1290/2022 dated:26.10.2022
5. EIA submitted on 05.11.2022.

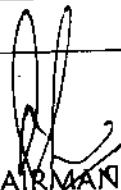
S. No	Description	Details									
1.	Name of the Project	Proposed construction of Group Development of Residential Building by M/s. CasagrandHorizons Private Limited									
2.	Location	S.No:19/3, 19/5A1, 19/5A2, 19/5A3, 20/1, 20/2, 20/3, 20/8, 20/9, 20/10, 21/2, 21/3, 21/4, 21/5A, 21/5B, 21/6, 22/1, 22/2, 22/3, 23/1, 23/2, 23/3, 23/4, 24/1, 24/2, 24/3B, 24/6, 130/7B, 130/8, 130/9B, 136/1, 136/2B, 136/2D2, 136/2F, 136/2G, 136/2H, 138/2A, 138/2B, 139/3B, 140/1A, 140/1B, 140/2, 140/3, 140/4, 140/5, 140/6, 141/1, 141/2, 141/4A, 141/4B, 141/5, 141/6, 141/7, 141/8, 141/9, 141/10, 142/1, 142/2A1, 142/2A2, 142/2B, 142/3, 142/4, 142/5, 143/1A2, 143/1B, 143/1C, 143/2, 144/1A1, 144/1A2, 144/1B, 144/2, 145/1A, 145/1B, 145/2A3A, 145/2A3B, 145/4, 145/5, 146/1, 146/2B, 147/1, 147/2A, 147/2B, 147/2C, 147/3, 148/1A, 148/1B of Jaladiampettai Village and 420/1B2B, 421/2 of Pallikaranai Village, Sholinganallur Taluk, Chennai District, Tamil Nadu.									
3.	Type of Project	Townships and Area Development Projects Schedule 8 (b), Category "B1"									
4.	Latitude & Longitude	<table border="1"> <thead> <tr> <th>S.No</th><th>Latitude</th><th>Longitude</th></tr> </thead> <tbody> <tr> <td>1</td><td>12°55'10.23"N,</td><td>80°12'25.87"E</td></tr> <tr> <td>2</td><td>12°55'9.22"N</td><td>80°12'25.29" E</td></tr> </tbody> </table>	S.No	Latitude	Longitude	1	12°55'10.23"N,	80°12'25.87"E	2	12°55'9.22"N	80°12'25.29" E
S.No	Latitude	Longitude									
1	12°55'10.23"N,	80°12'25.87"E									
2	12°55'9.22"N	80°12'25.29" E									


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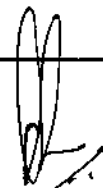
		3	12°55'7.76"N	80°12'30.47" E
		4	12°55'8.37"N	80°12'25.48"E
		5	12°55'5.88"N	80°12'24.57"E
		6	12°55'4.82"N	80°12'25.27"E
		7	12°55'7.69"N	80°12'29.11"E
		8	12°55'6.90"N	80°12'31.29"E
		9	12°55'8.48"N	80°12'31.38"E
		10	12°55'2.19"N	80°12'24.54"E
		11	12°55'1.26"N	80°12'21.44"E
		12	12°55'10.77"N	80°12'28.37"E
		13	12°54'58.79"N	80°12'21.53"E
		14	12°54'59.51"N	80°12'23.59"E
		15	12°54'57.08"N	80°12'22.91"E
		16	12°54'57.26"N	80°12'24.57"E
		17	12°54'56.53"N	80°12'25.63"E
		18	12°54'55.69"N	80°12'26.57"E
		19	12°54'58.49"N	80°12'28.21"E
		20	12°54'59.81"N	80°12'29.01"E
		21	12°55'0.67"N	80°12'31.77"E
		22	12°55'4.33"N	80°12'30.25"E
		23	12°55'4.81"N	80°12'34.25"E
		24	12°55'9.90"N	80°12'27.97"E
5.	Total Plot/land Area (in sq. m)	Total Plot Area – 71,062.21 Sqm		
6.	Built up area	Proposed total built-up area - 1,66,500 Sqm		


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7.	Cost of Project	Rs.297.64 Crores																																																												
8.	Total Built up area	<div>The total built up area -1,66,500 Sqm</div> <div>Detailed Built Up Area Statement</div> <table><tr><th>S.No</th><th>Name of the Block/Building</th><th>Total built up area (Sq.m)</th></tr><tr><td>1</td><td>Block 1</td><td>19692.3</td></tr><tr><td>2</td><td>Block 2</td><td>6747.93</td></tr><tr><td>3</td><td>Block 3</td><td>40834.21</td></tr><tr><td>4</td><td>Block 4</td><td>22319.06</td></tr><tr><td>5</td><td>Block 5</td><td>55611.52</td></tr><tr><td>6</td><td>Block 6</td><td>766.76</td></tr><tr><td>7</td><td>Block 7</td><td>177.82</td></tr><tr><td>8</td><td>Block 8</td><td>535.2</td></tr><tr><td>9</td><td>Block 9</td><td>1137.01</td></tr><tr><td>10</td><td>Block 10</td><td>1137.01</td></tr><tr><td>11</td><td>Block 11</td><td>1137.01</td></tr><tr><td>12</td><td>Block 12</td><td>1137.01</td></tr><tr><td>13</td><td>Block 13</td><td>1137.01</td></tr><tr><td>14</td><td>Block 14</td><td>1137.01</td></tr><tr><td>15</td><td>Block 15</td><td>441.77</td></tr><tr><td>16</td><td>Block 16</td><td>1137.01</td></tr><tr><td>17</td><td>Block 17</td><td>693.25</td></tr><tr><td>18</td><td>Block 18</td><td>840.06</td></tr><tr><td>19</td><td>Block 19</td><td>1131.61</td></tr></table>	S.No	Name of the Block/Building	Total built up area (Sq.m)	1	Block 1	19692.3	2	Block 2	6747.93	3	Block 3	40834.21	4	Block 4	22319.06	5	Block 5	55611.52	6	Block 6	766.76	7	Block 7	177.82	8	Block 8	535.2	9	Block 9	1137.01	10	Block 10	1137.01	11	Block 11	1137.01	12	Block 12	1137.01	13	Block 13	1137.01	14	Block 14	1137.01	15	Block 15	441.77	16	Block 16	1137.01	17	Block 17	693.25	18	Block 18	840.06	19	Block 19	1131.61
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		20	Other areas	8749.44	
			Total Area , Sqm	166500	
9.	Land Break-up	S.No	Description	Area in sqm	
		1	Total Land Area	71062.21	
		2	Road area to be gifted	5887.82	
		3	Total Land Area for development after road gifting	65174.39	
		4	Total Ground Coverage Area of Buildings (58%)	37847.58	
		5	Driveway and Pavements Area (14%)	8935.69	
		6	Surface or open Parking Area (2 %)	1032.9	
		7	Substation (2 %)	1057.18	
		8	Greenbelt development Area (15%)	9777.6	
		9	OSR Area (10 %)	6523.20	
10.	Sewage Treatment Plant-	S.No	Description	Dimension (m)	Capacity (Cum)
		1	Bar Screen	0.9m x 0.9m x 2m	-
		2	Collection Tank	91.4 m2 x 4.3 m (LD)	393
		3	SBR Tank	6 m x 15.6 m x	374

		4 m (LD)	
4	Sludge Holding Tank	5 m x 9 m x 4 m (LD)	175
5	Decant Tank	72.3 m ² x 4 m (LD)	285
6	Treated Water Tank	4.75 m x 15.6 m x 5 m (LD)	296
7	UF Treated Water Tank	3.85 m x 15.2 m x 4 m (LD)	235
8	Pressure sand Filter	3500 dia	--
9	Activated Carbon Filter	2500 dia	--
11.	Total STP Capacity	1 No. of 720 KLD	
12.	a) Water requirement KLD	CMWSSB Total water requirement – 700 kLD Fresh Water Requirement for domestic & Swimming Pool Top Up 427 kLD Treated water for Flushing 216 kLD Treated water for Gardening 34 kLD Treated water for OSR 23 kLD Treated water for Avenue Plantation 266 kLD	
13.	Quantity of Sewage KLD	Sewage Generation – 266 KLD	
14.	Quantity of Solid Waste		


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	generated per day , Mode of treatment and Disposal of Solid Waste	Description	Quantity	Mode of Disposal
		Biodegradable (@40% of waste generated)	0.983	Will be treated in Organic Waste Converter and used as manure for gardening.
		Non - Biodegradable (@ 60% of waste generated)	1.474	Sent to authorized recyclers or local bodies for recycling
		STP sludge	31	will be used as manure for greenbelt development
15.	Power requirement	9391 KVA (18*500 kVA, 2*250 KVA)		
16.	Details of D.G. set with Capacity	2 Nos of 250 KVA, 2 Nos of 180 KVA, 2 Nos of 160 KVA, 2 Nos of 125 KVA, 1No of 200 KVA.		
17.	Details of Green Belt Area	9777.6 sqm		
18.	Details of Parking Area	Parking Details		
		Details	No. of Car parking	No of two wheeler parking
				Area allotted for parking in (Sq.m)
		Total number of Parking in Stilt	1172	198
		Total number of Parking in	83	3
				1032.9

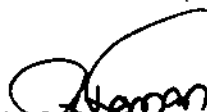

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		Ground level (Surface parking)			
		Total number of Parking required as CMDA norms	988	143	
		Total number of Parking provided	1255	201	
		10% Visitor parking provided	95	20	
19.	Provision for rain water harvesting	Total Rainwater Runoff – 49579.9cu.m No of pits -65			
20.	EMP Cost (Rs.)	Capital Cost –Rs. 3,15,60,000 /- Maintenance Cost/Annum –Rs. 52,79,000/-			
21.	CER activities with the specific allocation of funds	Rs. 205 lakhs			
22.	Tor issued	Letter No.SEIAA/F.No.9354/SEAC/8(b)/ToR-1290/2022 Dated:26.10.2022			
23.	EIA Received	05.11.2022			

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


1. The building shall conform to minimum of IGBC Gold green building norms and shall obtain IGBC certificate in this regard before obtaining CTO from ~~TNP~~ NPCB.


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2. The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the local body /TWAD before obtaining CTO.
3. The PP shall furnish the commitment letter for discharging the wastewater into the Pallikaranai STP using tankers until CMWSSB UGSS connection becomes operational for disposal of excess treated wastewater.
4. The project proponent shall furnish revised green belt cover upto 20% excluding OSR area and identify the vacant lands in and around the project site and furnish the proposal for tree plantation to achieve a minimum green coverage of 20%.
5. The treated/untreated sewage water shall not be let-out from the unit premises without obtain necessary permission from competent authority.
6. The project proponent shall provide STP of capacity 720 KLD and treated water shall be utilized for flushing, green belt and avenue plantation after obtaining necessary permission from competent Authority.
7. The PP shall adopt BOT contract so that the STP is maintained by the builder of STP for a minimum period of 10 years.
8. The proponent is requested to carry out a routine and periodic maintenance of the existing STP in the Warehouse.
9. The PP shall analyse the treated wastewater samples periodically through TNPCB.
10. The treated/untreated sewage water shall not be let-out from the unit premises.
11. The proponent shall provide adequate organic waste disposal facility such as organic waste convertor within the project site as committed and non- bio-degradable waste to should be sent to authorized recyclers as committed.
12. The height of the stacks of DG sets shall be provided as per the CPCB norms.
13. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc, to TNPCB before obtaining CTO.
14. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for toilet flushing, Green belt development & OSR and no treated water be let out of the premise.
15. The PP shall construct a tank of appropriate size in the earmarked OSR land in consultation with the local body. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and

- also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
16. The sludge generated from the sewage treatment plant shall be collected and dewatered using filter press and the same shall be utilized as manure for green belt development after composting.
 17. The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.
 18. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the **Appendix**, in consultation with the State Forest and Horticulture Departments. 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.
 19. 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.
 20. The proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
 21. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
 22. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
 23. No waste of any type to be disposed of in any other way other than as per the


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concerned regulations in force.

24. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in air, noise, solid waste disposal, sewage treatment & disposal etc., shall be followed strictly.
25. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.
26. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring of the health of construction workers during COVID and post-COVID period.
27. The project proponent shall measure the criteria air pollutants data (including CO) due to vehicular traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
28. Generation of the solar/renewable energy should not be less than 50% of total energy utilization and ensure that the entire roof of the building. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
29. 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.
30. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall include demolishing plan & its mitigation measures in the EMP and adhere the same as committed.
31. The Project Proponent stated that an amount Rs. 205 lakhs shall be spent as CER for following Committed activities before obtaining CTO from TNPCB.

S.No	Beneficiary	Cost Allocation (in lakhs)
1.	Panchayat Union Primary School, Narayanapuram, Pallikaranai	25


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2.	Government Secondary School, Velachery Pallikaranai	Model higher Main Road,	20
3.	Government School, Medavakkam	Higher Secondary	20
4.	Government High School, Pallikaranai		20
5.	Government School, Kovilambakkam	Higher Secondary	20
6.	Maintenance of Pallikaranai Marsh Land		100
Total cost allocation			205

Agenda No: 329-10

(File No: 9315/2022)

Proposed construction of "Central Square-Multimodal Integration and Development at Central Station area" at T.S.No.40/1, 41, 42, 43/1, 43/2, 43/5, 1269/4, 1271/1, 1271/2 Block No.7, 28 & 29, Ward No:59, EVR Periyasalai, Vepery Village, Poonamalle High Road, Chennai, Tamil Nadu by M/s. Chennai Metro Rail Limited – For Environmental Clearance (SIA/TN/INFRA2/401427/2022 dated 30.09.2022)

The proposal was placed in 329th meeting of SEAC held on 16.11.2022. The details of the project are available in the website (parivesh.nic.in).

During the meeting, neither the proponent nor the consultant was present for attending the meeting, and hence SEAC after discussions, decided to defer the proposal.

Agenda No: 329-11

(File No: 7994/2021)

Proposed Expansion of Industrial Park at S.F. No: 17/2, 18/1B, 18/2B, 18/3B, 18/5, 18/6, 19/3B, 19/4, 19/5, 20/1, 20/2, 21/1, 21/2, 21/3, 21/4A, 21/4B, 21/5, 22/1, 22/4, 23/1, 23/2, 23/3PT, 24/1, 24/2, 24/3, 25/6, 26/1, 26/2, 26/3, 27/2, 27/3A, 27/3B, 28/1pt, 28/2, 29, 30, 32/1, 32/2, 32/3, 32/4, 32/5, 32/6, 34/1, 35/2, 45/1, 45/2A, 45/2B, 45/5, 45/6, 47, 59/2, 83/3B, 101/1B, 101/2B, 102/1, 102/3, 103/2, 113/1, 113/2, 114/1, 115/1, 115/2, 115/3, 115/4, 116/1A, 116/1B, 116/2, 116/3, 116/4, 116/5, 117, 118/1, 118/2, 119, 120/2, 233/2, 242/1, 242/2, 243, 244, 245/1A, 245/1B2, 245/2B, 247, 248/1A, 248/1B, 248/2, 249/1, 249/2, 250, 251, 253/1, 253/2, 254/1A, 254/1B, 254/1C, 254/2, 254/3, 254/4, 255, 256/1, 259/1, 260/1, 260/2, 261/1, 261/2, 262/1A2, 262/2A, 262/2B, 266/2B, 267/1B, 267/2, 268, 271/2, 272, 273, 274 in Panapakkam Village and 379/1, 379/2A, 380/2, 380/3, 380/3B, 391/1, 391/2, 391/2A, 391/2B, 391/3, 391/3A, 391/3B, 391/4, 391/5, 391/6A, 391/7, 382/2, 392, 392/1C, 392/1E, 392/1F, 392/1H, 392/1D, 392/1L, 392/1J, 392/1K, 392/2, 392/3, 392/3A, 392/3B, 392/4, 392/5A, 392/5B,


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395/1A, 395/1B, 397/1, 397/2, 398/1A, 398/1B, 398/2, 383/1A, 383/1B, 383/2, 383/3, 384/1A, 384/1B, 384/3A, 384/3B, 384/4, 385/1B, 385/2A2, 385/2B, 386/1A, 386/2A2, 391/3B, 392/1F, 394/2, 395/2, 395/3, 396, 397/3, 397/4, 399/1A, 399/1B, 403/1, 403/2A, 403/2B, 404/1A1, 404/1A2, 404/1B, 404/2, 404/3, 404/4, 404/5A in Maduravasal Village Uthukottai Taluk, Tiruvallur District Tamil Nadu by M/s.Vinplex India Pvt Ltd - For Environmental Clearance. (SIA/TN/MIS/71699/2021, dated: 01.02.2022)

Earlier, this The proposal was placed in 258th SEAC meeting held on 26.3.2022, 262nd SEAC meeting held on 8.4.2022 and 286th SEAC Meeting held on 17.6.2022. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The project proponent gave detailed presentation. SEAC noted the following:

1. The Proponent, M/s.Vinplex India Pvt Ltd has applied for Environmental Clearance for the Proposed Expansion of Industrial Park at SS.F. No: 17/2, 18/1B, 18/2B, 18/3B, 18/5, 18/6, 19/3B, 19/4, 19/5, 20/1, 20/2, 21/1, 21/2, 21/3, 21/4A, 21/4B, 21/5, 22/1, 22/4, 23/1, 23/2, 23/3PT, 24/1, 24/2, 24/3, 25/6, 26/1, 26/2, 26/3, 27/2, 27/3A, 27/3B, 28/1pt, 28/2, 29, 30, 32/1, 32/2, 32/3, 32/4, 32/5, 32/6, 34/1, 35/2, 45/1, 45/2A, 45/2B, 45/5, 45/6, 47, 59/2, 83/3B, 101/1B, 101/2B, 102/1, 102/3, 103/2, 113/1, 113/2, 114/1, 115/1, 115/2, 115/3, 115/4, 116/1A, 116/1B, 116/2, 116/3, 116/4, 116/5, 117, 118/1, 118/2, 119, 120/2, 233/2, 242/1, 242/2, 243, 244, 245/1A, 245/1B2, 245/2B, 247, 248/1A, 248/1B, 248/2, 249/1, 249/2, 250, 251, 253/1, 253/2, 254/1A, 254/1B, 254/1C, 254/2, 254/3, 254/4, 255, 256/1, 259/1, 260/1, 260/2, 261/1, 261/2, 262/1A2, 262/2A, 262/2B, 266/2B, 267/1B, 267/2, 268, 271/2, 272, 273, 274 in Panapakkam Village and 379/1, 379/2A, 380/2, 380/3, 380/3B, 391/1, 391/2, 391/2A, 391/2B, 391/3, 391/3A, 391/3B, 391/4, 391/5, 391/6A, 391/7, 382/2, 392, 392/1C, 392/1E, 392/1F, 392/1H, 392/1D, 392/1L, 392/1J, 392/1K, 392/2, 392/3, 392/3A, 392/3B, 392/4, 392/5A, 392/5B, 395/1A, 395/1B, 397/1, 397/2, 398/1A, 398/1B, 398/2, 383/1A, 383/1B, 383/2, 383/3, 384/1A, 384/1B, 384/3A, 384/3B, 384/4, 385/1B, 385/2A2, 385/2B, 386/1A, 386/2A2, 391/3B, 392/1F, 394/2, 395/2, 395/3, 396, 397/3, 397/4, 399/1A, 399/1B, 403/1, 403/2A.

- 403/2B, 404/1A1, 404/1A2, 404/1B, 404/2, 404/3, 404/4, 404/5A in Maduravasal Village Uthukottai Taluk, Tiruvallur District Tamil Nadu.
2. The project/activity is covered under Category "B" of item 8(b) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.
 3. The proposal consists 10 industrial warehouse Buildings with plot area – 495392.24 Sq.m (49.571 Ha) and built up area – 203914.04 Sq.m.
 4. Earlier, the ToR has been granted by vide Lr No. SEIAA-TN/F.No.7994/SEAC/8(b)/1039/2021 Dt. 13.11.2021.
 5. Earlier, this proposal was placed in 258th SEAC meeting held on 26.3.2022 262nd SEAC Meeting held on 8.4.2022 and 286th SEAC Meeting held on 17.6.2022. Based on the presentation made and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to certain conditions stated therein .
 6. Subsequently this proposal has placed before 508th SEIAA meeting held on 12.5.2022. After detailed deliberation, the Authority noted the following & refer back the proposal to SEAC for further course of action.
 - a. The Survey No. in the PowerPoint presentation/ Terms of Reference issued for this project earlier vide Lr.No.SEIAA-TN/F.No.7994/SEAC/8(b)/ 1039/2021 dated 13.11.2021/ Minutes of the meeting of 262nd SEAC held on 08.04.2022 vary in all three cases and discrepancies noted. Further, as per the Terms of Reference issued, the EIA report should also be submitted for the same (inclusive of Survey No.), if there are any deviations as stated above. The reason for the deviation may also be recorded. This may be clarified.
 - b. Compliance of conditions issued by Regional Office, MoEF&CC, Chennai for the earlier EC. Some of the conditions are not adhered to/complied with by the project proponent like submission of half yearly reports and Form V, etc. steps taken for the compliance may also be obtained
 - c. Land use change in category for some of the Survey No in A register is mentioned has (punjai land) wet land . Survey No. involved may

be spelled out and order obtained from competent authority for change if any. Clarification may be sought.

- d. From the Terms of Reference issued, it was noticed that the existing building details is 1, 05,834.19 Sq.m constructed between 2014 and 2017. The first Environment Clearance was obtained in 2014 with a built up area of 44,320 Sq.m and the second Environment Clearance was obtained in 2015 with a built up area is 23,973.4 Sq.m, which is less than the existing built up area. This may be clarified

This proposal has again been placed before 286th SEAC meeting held on 17.6.2022. During the meeting, both the PP and the EIA Coordinator were not able to provide additional information sought by SEIAA. Further certain shortcomings pointed out in the EC compliance report have not been attended to. Therefore, the SEAC decided to defer the proposal with a direction to the PP to submit the information sought.

Based the PP reply this proposal has again been placed 329th SEAC meeting held on 16.11.2022 and the SEAC noted the following .

Observation 1: There are some omissions of Survey Numbers in Application, awarded TOR, in the Power Point Presentation and also in the Minutes of meeting of 262nd SEAC held on 08.04.2022. However, there is no change in the land site of 49.54 Ha (122.44 Acres) with Existing and Proposed Warehouse Buildings which falls in the following Survey Nos. :

Survey nos as per presentation of 262 nd SEAC Meeting	Survey nos as per Granted ToR	Survey nos as per 262 nd SEAC Meeting Minutes	Missed Survey Nos.	Survey nos seeking Environmental clearance
17/2, 18/1B, 18/2B, 18/3B, 18/5, 18/6, 19/3B, 19/4, 19/5, 20/1, 20/2, 21/1, 21/2, 21/3, 21/4A, 21/4B, 21/5, 22/1,	17/2, 18/1B, 18/2B, 18/3B, 18/5, 18/6, 19/3B, 19/4, 19/5, 20/1, 20/2, 21/1, 21/2, 21/3, 21/4A, 21/4B, 21/5, 22/1, 22/4, 23/1, 23/2, 23/3PT, 24/1, 24/2, 24/3, 25/6, 26/1,	17/2, 18/1B, 18/2B, 18/3B, 18/5, 18/6, 19/3B, 19/4, 19/5, 20/1, 20/2, 21/1, 21/2, 21/3,	Panapakkam Village: In panapakkam village, no discrepancies found.	17/2, 18/1B, 18/2B, 18/3B, 18/5, 18/6, 19/3B, 19/4, 19/5, 20/1, 20/2, 21/1, 21/2, 21/3, 21/4A, 21/4B, 21/5, 22/1,

Survey nos as per presentation of 262 nd SEAC Meeting	Survey nos as per Granted ToR	Survey nos as per 262 nd SEAC Meeting Minutes	Missed Survey Nos.	Survey nos seeking Environment Clearance
22/4, 23/1, 23/2, 23/3PT, 24/1, 24/2, 24/3, 25/6, 26/1, 26/2, 26/3, 27/2, 27/3A, 27/3B, 28/1pt, 28/2, 29, 30, 32/1, 32/2, 32/3, 32/4, 32/5, 32/6, 34/1, 35/2, 45/1, 45/2A, 45/2B, 45/5, 45/6, 47, 59/2, 83/3B, 101/1B, 101/2B, 102/1, 102/3, 103/2, 113/1, 113/2, 114/1, 115/1, 115/2, 115/3, 115/4, 116/1A, 116/1B, 116/2, 116/3, 116/5, 116/4, 117, 118/1, 118/2, 119, 120/2, 233/2, 242/1, 242/2, 243, 244, 245/1A, 245/1B2, 245/2B, 247, 248/1A, 248/1B, 248/2, 249/1, 249/2, 250, 251, 253/1, 253/2, 254/1A,	26/2, 26/3, 27/2, 27/3A, 27/3B, 28/1PT, 28/2, 29, 30, 32/1, 32/2, 32/3, 32/4, 32/5, 32/6, 34/1, 35/2, 45/1, 45/2A, 45/2B, 45/5, 45/6, 47, 59/2, 83/3B, 101/1B, 101/2B, 102/1, 102/3, 103/2, 113/1, 113/2, 114/1, 115/1, 115/2, 115/3, 115/4, 116/1A, 116/1B, 116/2, 116/3, 116/5, 116/4, 117, 118/1, 118/2, 119, 120/2, 233/2, 242/2, 243, 244, 245/1A, 245/1B2, 245/2B, 247, 248/1A, 248/1B, 248/2, 249/1, 249/2, 250, 251, 253/1, 253/2, 254/1A, 254/1B, 254/1C, 254/2, 254/3, 254/4, 255, 256/1, 259/1, 260/1, 260/2, 261/1, 261/2, 262/1A2, 262/2A, 262/2B, 266/2B, 267/1B, 267/2, 272, 273, 274 in Panapakkam village.	21/4A, 21/4B, 21/5, 22/1, 22/4, 23/1, 23/2, 23/3PT, 24/1, 24/2, 24/3, 25/6, 26/1, 26/2, 26/3, 27/2, 27/3A, 27/3B, 28/1PT, 28/2, 29, 30, 32/1, 32/2, 32/3, 32/4, 32/5, 32/6, 34/1, 35/2, 45/1, 45/2A, 45/2B, 45/5, 45/6, 47, 59/2, 83/3B, 101/1B, 101/2B, 102/1, 102/3, 103/2, 113/1, 113/2, 114/1, 115/1, 115/2, 115/3, 115/4, 116/1A, 116/1B, 116/2, 116/3, 116/5, 116/4, 117, 118/1, 118/2, 119, 120/2, 233/2, 242/2, 243, 244, 245/1A, 245/1B2, 245/2B, 247, 248/1A, 248/1B, 248/2, 249/1, 249/2, 250, 251, 253/1, 253/2, 254/1A, 254/1B, 254/1C, 254/2, 254/3, 254/4, 255, 256/1, 259/1, 260/1, 260/2, 261/1, 261/2, 262/1A2, 262/2A, 262/2B, 266/2B, 267/1B, 267/2, 272, 273, 274 in Panapakkam village.	Maduravasal village: Survey nos missed as per granted ToR: 391/1, 391/2, 391/2A, 391/2B, 391/3, 391/3A, 391/3B, 391/4, 391/5, 391/6A, 391/7, 392/1D, 392/1F, 392/1J, 392/1K, 392/1L, 392/2, 392/3, 392/3A, 392/3B, 392/4, 392/5A, 392/5B, 394/2, 395/1A, 395/1B, 395/2, 395/3, 396, 397/1, 397/2, 397/3, 397/4, 398/1A, 398/1B, 398/2, 399/1A,	22/4, 23/1, 23/2, 23/3PT, 24/1, 24/2, 24/3, 25/6, 26/1, 26/2, 26/3, 27/2, 27/3A, 27/3B, 28/1pt, 28/2, 29, 30, 32/1, 32/2, 32/3, 32/4, 32/5, 32/6, 34/1, 35/2, 45/1, 45/2A, 45/2B, 45/5, 47, 59/2, 83/3B, 101/1B, 101/2B, 102/1, 102/3, 103/2, 113/1, 113/2, 114/1, 115/1, 115/2, 115/3, 115/4, 116/1A, 116/1B, 116/2, 116/3, 116/4, 116/5, 117, 118/1, 118/2, 119, 120/2, 233/2, 242/1, 242/2, 243, 244, 245/1A, 245/1B2, 245/2B, 247, 248/1A, 248/1B,

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Survey nos as per presentation of 262 nd SEAC Meeting	Survey nos as per Granted ToR	Survey nos as per 262 nd SEAC Meeting Minutes	Missed Survey Nos.	Survey nos seeking Environmental clearance
254/1B, 254/1C, 254/2, 254/3, 254/4, 255, 256/1, 259/1, 260/1, 260/2, 261/1, 261/2, 262/1A2, 262/2A, 262/2B, 266/2B, 267/1B, 267/2, 268, 271/2, 272, 273, 274 in Panapakkam Village		116/5, 116/4, 117, 118/1, 118/2, 119, 120/2, 233/2, 242/2, 243, 244, 245/1A, 245/1B2, 245/2B, 247, 248/1A, 248/1B, 248/2, 249/1, 249/2, 250, 251, 253/1, 253/2, 254/1A, 254/1B, 254/1C, 254/2, 254/3, 255, 256/1, 259/1, 260/ 1, 260/2, 261/1, 261/2 , 262/1A2, 262/2A, 262/2B, 266/2B, 267/1B, 267/2, 272, 273, 274 in	399/1B, 403/1, 403/2A, 403/2B, 404/1A1, 404/1A2, 404/1B, 404/2, 404/3, 404/4, 404/5A, 380/3B. Survey nos missed as per 262 nd SEAC Meeting Minutes: 380/2, 380/3B, 382/2, 391/1, 391/2, 391/2A, 391/2B, 391/3, 391/3A, 391/4, 391/5, 391/6A 391/7, 392/1C, 392/1D, 392/1E 392/1H, 392/1J, 392/1K, 392/1L 392/2, 392/3.	248/2, 249/1, 249/2, 250, 251, 253/1, 253/2, 254/1A, 254/1B, 254/1C, 254/2, 254/3, 254/4, 255, 256/1, 259/1, 260/1, 260/2, 261/1, 261/2, 262/1A2, 262/2A, 262/2B, 266/2B, 267/1B, 267/2, 268, 271/2, 272, 273, 274 in Panapakkam Village

Survey nos as per presentation of 262 nd SEAC Meeting	Survey nos as per Granted ToR	Survey nos as per 262 nd SEAC Meeting Minutes	Missed Survey Nos.	Survey nos seeking Environmental clearance
		Panapakka m village.	392/3A, 392/3B, 392/4, 392/5A, 392/5B, 395/1A, 395/1B, 397/1, 397/2, 398/1A, 398/1B, 398/2, 380/3, 392	
379/1, 379/2A, 380/2, 3B, 391/1, 2, 2A, 2B, 3, 3A, 4, 5, 6A, 7, 382/2, 392/1C, 1E, 1H, 1D, 1L, 1J, 1K, 2, 3, 3A, 3B, 4, 5A, 5B, 395/1A, 1B, 397/1, 2, 398/1A, 1B, 2, 383/1A, 383/1B, 383/2, 384/1A, 384/1B, 384/3A, 384/3B, 384/4, 385/1B, 385/2A2, 385/2B, 386/1A, 386/2A2, 392/1C, 392/1E, 392/1H, 392 in Maduravasal Village.	379/1, 379/2A, 380/2, 380/3, 382/2, 383/1A, 383/1B, 383/2, 383/3, 384/1A, 384/1B, 384/3A, 384/3B, 384/4, 385/1B, 385/2A2, 385/2B, 386/1A, 386/2A2, 392/1C, 392/1E, 392/1H, 392 in Maduravasal Village.	379/1, 379/2A, 383/1A, 383/1B, 383/2, 383/3, 384/1A, 384/1B, 384/3A, 384/3B, 384/4, 385/1B, 385/2A2, 385/2B, 386/1A, 386/2A2, 391/3B, 392/1F, 394/2, 395/2, 395/3, 396, 397/3, 397/4, 399/1A, 399/1B,	Survey nos missed as per 262 nd SEAC Meeting Presentation: 380/3, 392 The missing of survey nos are due to the typographical error. Kindly provide us Environment al clearance for the survey nos given in the column, Survey nos Seeking Environment al Clearance.	379/1, 379/2A, 380/2, 380/3, 380/3B, 391/1, 391/2, 391/2A, 391/2B, 391/3, 391/3A, 391/3B, 391/4, 391/5, 391/6A, 391/7, 382/2, 392, 392/1C, 392/1E, 392/1F, 392/1H, 392/1D, 392/1L, 392/1J, 392/1K, 392/2, 392/3, 392/3A,

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Survey nos as per presentation of 262 nd SEAC Meeting	Survey nos as per Granted ToR	Survey nos as per 262 nd SEAC Meeting Minutes	Missed Survey Nos.	Survey nos seeking Environmental clearance
399/1A, 399/1B, 403/1, 403/2A, 403/2B, 404/1A1, 404/1A2, 404/1B, 404/2, 404/3, 404/4, 404/5A in Maduravasal Village		403/1, 403/2A, 403/2B, 404/1A1, 404/1A2, 404/1B, 404/2, 404/3, 404/4, 404/5A in Maduravas al Village.		392/3B, 392/4, 392/5A, 392/5B, 395/1A, 395/1B, 397/1, 397/2, 398/1A, 398/1B, 398/2, 383/1A, 383/1B, 383/2, 383/3, 384/1A, 384/1B, 384/3A, 384/3B, 384/4, 385/1B, 385/2A2, 385/2B, 386/1A, 386/2A2, 391/3B, 392/1F, 394/2, 395/2, 395/3, 396, 397/3, 397/4, 399/1A, 399/1B, 403/1, 403/2A, 403/2B, 404/1A1, 404/1A2,


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Survey nos as per presentation of 262 nd SEAC Meeting	Survey nos as per Granted ToR	Survey nos as per 262 nd SEAC Meeting Minutes	Missed Survey Nos.	Survey nos seeking Environmental clearance
				404/1B, 404/2, 404/3, 404/4, 404/5A in Maduravasal Village


Observation 2: Compliance of conditions issued by Regional Office, MoEF&CC, Chennai for the earlier EC. Some of the conditions are not adhered to / complied with by the project proponent like submission of half yearly reports and Form V, etc. steps taken for the compliance may also be obtained.

All the non - compliance conditions as per 507th SEIAA Minutes are complied and updated certified compliance report is obtained vide letter no: E.P/12.1/2021-22/SEIAA/14/TN/1041 dated: 23. 09.2022 & Form V also submitted.

Observation 3 : Land use change in category for some of the Survey No in A register is mentioned has (Punjai land) wet land, Survey No. involved may be spelled out and order obtained from competent authority for change if any. Clarification may be sought.

The District Collector, Tiruvallur has issued the required No Objection Certificate for the development of wet lands for other purposes over an extent of 21.69 Ha in Survey Nos. 243 & others in Panapakkam Village and 395/1A & others in Maduravasal Village vide Proceedings RC. No. 24135/2012/N1 dated 17.10.2013.

Observation 4 : From the Terms of Reference issued, it was noticed that the existing building details is 1,05,834. 19 sq.m constructed between 2014 and 2017. The first Environment Clearance was obtained in 2014 with a built up area of 44,320 sq.m and the second Environment Clearance was obtained in 2015 with a built up area is


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23,973.4 sq.m, which is less than the existing built up area. This may be clarified

S. No	Warehouse Buildings	Extent, Ha	Built-up area, sq.m	Awarded EC	Remarks
1	Warehouse building numbered as 10 now in S.Nos. 380/2, 3B, 382/2, etc. of Maduravasal Village	13.1402	44320	EC vide Ref. SEIAA/TN/F.2104/EC/8(a)/283/2013 dated 15.04.2014	In operation
2	Warehouse Buildings No. 1 & 1(Expn.), 2 & 2(Expn.), 3 & 3(Expn.), 7	Within 49.54	61514.19	---	EC is not required as per SO.3252(E) dated 22.12.2014
3	Now, Expansion Proposal includes Warehouse Buildings No.10 (expn), 4, 5, 6, 8 & 9	Within 49.54	---	Earlier TOR awarded. Under deliberation for EC now for Existing & Proposed development of 203914.04 sq.m Builtup Area in 49.54 Ha as Expansion Proposal	EC already recommended and additional clarifications sought
Total		49.54	203914.04		
4	2nd EC	4.8079	23973.4	EC vide Ref. SEIAA/TN/F.3111/EC/8(a)/371/2014 dated	Dropped by Vinplex change in ownership

				24.02.2015	of the land. No Constructi on took place.
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Based on the documents and details furnished by the PP, SEAC decided to reiterate the recommendations already made in the 262nd SEAC meeting held on 8.4.2022.

Agenda No: 329-12

(File No: 8042/2020)

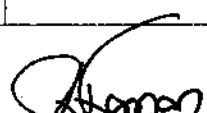
Proposed Gravel quarry project over an extent of 1.21.0Hain S.F.No. 541/1B at Vennavalkudi Village, Alangudi Taluk, Pudukkottai District, Tamil Nadu by Thiru.R. Mahimairaj- For Environmental Clearance.(SIA/TN/MIN/182193/2020 dated: 05.11.2020)

The proposal was placed for appraisal in this 329th meeting of SEAC held on 16.11.2022. The details of the project furnished by the proponent are given in the website(www.parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.R.Mahimairaj has applied for Environmental Clearance for the proposed Gravel quarry lease over an extent of 1.21.0ha at S.F.Nos 541/1B of Vennavalkudi Village, Alangudi Taluk, Pudukkottai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 3 years. The production for 3 years not to exceed 17,034 m³ of Gravel with an ultimate depth of Mining 2m below ground level. The annual peak production as per mining plan is 5712 m³ of Gravel (1st year & 2nd year)

Sl. No	Details of the Proposal	
1.	Name of the Owner / Firm	R. Mahimairaj, S/o. Rayar, No.107-1, Madhakoil Street, Venkatakulam Post,


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		Alangudi Taluk, Pudukkottai District – 622 303
2.	Type of quarrying	Gravel Quarry
3.	S.F No. of the quarry site with area break-up	541/1B
4.	Village in which situated	Vennavalkudi Village
5.	Taluk in which situated	Alangudi Taluk
6.	District in which situated	Pudukkottai District
7.	Extent of Quarry (in ha.)	1.21.0Ha
8.	Period of Quarrying proposed	3 years
9.	Type of Mining	Opencast Method of Shallow mining
10.	Production (Quantity in m ³)	As per the mining plan, the lease period is for 3 years. The production for 3 years not to exceed 17,034 m ³ of Gravel with an ultimate depth of Mining 2m Below ground level. The annual peak production as per mining plan is 5712 m ³ of Gravel (1 st year & 2 nd year).
11.	Latitude & Longitude of all corners of the quarry site	10°18'24.50"N to 10°18'28.01"N 78°55'27.86"E to 78°55'34.44"E
12.	Topo sheet No.	58 - J/15
13.	Man power requirement per day:	8 Employees
14.	Precise Area Communication approved by the District collector , Pudukkottai District	Rc.No.440/2018 (G&M), Dated: 18.02.2020
15.	Mining plan approved by the Deputy Director, Department of Geology and Mining, Pudukkottai District	Rc.No.440/2018 (G&M), Dated: 05.05.2020
16.	500mts letter approved by the Deputy Director, Department of Geology and Mining, Pudukkottai District	Rc.No.440/2018 (G&M), Dated: 24.09.2020
17.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression 3. Green Belt (in KLD)	1.5 KLD 0.4KLD 0.5KLD 0.6KLD

		Source - From Approved water vendors and Existing bore wells
18.	Power requirement: a. Domestic purpose b. Machinery works	TNEB 2840 Liters of HSD will be utilized for entire project life.
19.	Depth of Mining	2m Below ground level
20.	Depth of Water table	25m in summer season – 20m in rainy season
21.	Whether any habitation within 300m distance	There is no habitation within radius of 300m
22.	Project cost	Rs. 14,48,000/-
23.	EMP cost	Rs. 80,000
24.	CER cost	Rs. 2,00,000/-
25.	VAO letter dated	19.09.2020.

Based on the presentation made by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the total excavation volume of 17,034m³ of Gravel with an ultimate depth of mining 2m below ground level for a period of three years and not exceeding the annual peak production capacity of 5712m³ of Gravel, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
3. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular 11/1959 before obtaining the CTO from TNPCB.


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4. Further, the PP shall construct the garland drain with proper size, gradient and length around the proposed quarry along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m before obtaining the CTO, as it is designed to take care of run-off water to the surface siltation points of sufficient size are maintained for the collection of silt.
5. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
6. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
7. 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.
8. As accepted by the Project Proponent the CER cost is Rs.2 lakhs and the amount shall be spent on the committed activities for Government Higher Secondary School, S.Kulavaipatti before obtaining CTO from TNPCB.

Agenda No: 329 - 13

(File No: 8082/2022)

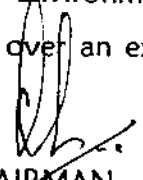
Proposed Multicolour Granite quarry lease over an extent of 3.21.5Ha at S.F.No. 1158/8, 1158/9, 1160/3A, 1160/4, 1161/2(P), 1161/3(P), 1161/4A (P), 1161/5(Part), 1166/5(P) at Irudhukottai Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Thiru.V.Jayaprakash – For Environmental Clearance.(SIA/TN/MIN/402051/2022, dated: 01.10.2022)

The proposal was placed in this 329th meeting of SEAC held on 16.11.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The project proponent gave detailed presentation. SEAC noted the following:

1. The Proponent, Thiru. V.Jayaprakash has applied seeking Environmental Clearance for the proposed Multicolour Granite quarry lease over an extent


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- 3.21.5Ha at S.F.No. 1158/8, 1158/9, 1160/3A, 1160/4, 1161/2(P), 1161/3(P), 1161/4A (P), 1161/5(Part), 1166/5(P) at Irudhukottai Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu.
2. The total areas under the 500m cluster is 13.90.0 ha as per the AD, letter and hence the project/activity is covered under Category "B1" of item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
 3. The PP had obtained the EC on 23.10.2015 for the ROM quantity of 5000 cu.m with anticipated production quantity of 1000 cu.m @20% recovery for a depth of 10 m for a production schedule of 2015 to 2020.
 4. Further, the PP had applied for the first scheme of mining for the total quantity of 1,30,464 cu.m of ROM which includes 78,278 m³ of multi-colour Granite @ 60%recovery along with 52,186 cu.m of Granite waste & 11,259 cu.m of top soil for a depth of mining of 31m below ground level (1 m top soil + 30 m Granite). However, the ultimate pit depth is shown as 41 m as per the approved Mining Plan submitted earlier.
 5. The Assistant Director (i/c) (G&M), Krishnagiri has scrutinized the application and reported that the scheme of mining was verified with the field conditions and found to be correct. Therefore, precise communication letter provided by the competent authority shows that no mining operation was carried earlier in the same survey no of lease area. Hence, there is no violation noticed in the subject quarry. Based on the recommendation of Assistant Director (i/c), (G&M), Krishnagiri, the First Scheme of Mining as a part of the Mining Plan was approved by Director, Department of Geology and Mining, Chennai vide Rc.No.3623/MM4/2020 dated 12.09.2020.
 6. The proponent had submitted a letter dated: 20.09.2021 regarding change of consultant for carrying out EIA EMP and no objection letter issued by the previous consultant who prepared ToR for the proponent.
 7. ToR issued vide Lr No.SEIAA-TN/F.No.8082/SEAC/ToR-1021/2021 Dated: 26.08.2021.
 8. Public Hearing conducted on 01.07.2022.
 9. EIA Report submitted on 12.10.2022.


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Based on the presentation and the documents furnished by the Proponent, the SEAC decided to call for additional details

1. The PP shall submit Certified Compliance Report for the quarrying operation carried out earlier under the EC granted in 2015.

On receipt of the aforesaid details, the proposal will be considered for further deliberations.

Agenda No: 329-14

(File No: 8141/2020)

Proposed Rough Stone and Gravel quarry project over an extent of 0.84.0 Ha in S.F.No. 153/1A1, Velampalyam Village, Palladam Taluk, Tiruppur District, Tamil Nadu by Thiru. M. Kanakarathinam- For Environmental Clearance. (SIA/TN/MIN/59088/2020 dated: 20.09.2022)


The proposal was placed for appraisal in this 329th meeting of SEAC held on 16.11.2022. The details of the project furnished by the proponent are given in the website(www.parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. M. Kanakarathinam has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry project over an extent of 0.84.0 Ha in S.F.No. 153/1A1, Velampalyam Village, Palladam Taluk, Tiruppur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

The committee noted that PP has requested to withdraw the proposal. Hence

Sl. No.	Details of the Proposal	
1.	Name of the Owner / Firm	Thiru. M. Kanakarathinam, S/o. Manickam, No.5/111, Emmampoondi, E-Varappalayam, Gopi Taluk, Erode District - 638 460.
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough Stone and Gravel Quarry
3.	S.F No. of the quarry site with area	153/1A1



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	break-up	
4.	Village in which situated	Velampalayam Village
5.	Taluk in which situated	Palladam Taluk
6.	District in which situated	Tiruppur District
7.	Extent of Quarry (in ha.)	0.84.0 Ha
8.	Latitude & Longitude of all corners of the quarry site	11°02'20.58"N to 11°02'26.41"N 77°15'24.07"E to 77°15'26.47"E
9.	Topo sheet No.	58 – E/08
10.	Type of Mining	Open cast Mechanized Mining
11.	Period of Quarrying proposed	Five Years
12.	Production (Quantity in m ³)	53,095m ³ Rough stone and 10,626m ³ Gravel
13.	Depth of quarrying	17m BGL
14.	Depth of water table	62m-58m (BGL)
15.	Man power requirement per day:	12 Employees
16.	Source of Water Requirement	Vendors and Existing Bore Well on nearby quarry area
17.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression, Green Belt & Drilling (in KLD)	2.0 KLD 0.5 KLD 1.0 KLD 0.5 KLD
18.	Power requirement: c) Domestic purpose d) Industrial Propose	TNEB 44,250 Liters of HSD
19.	Whether any habitation within 300m distance	No
20.	Precise Area Communication approved by the, Assistant Director, Department of Geology and Mining, with date	Rc. No. 932/2018/Mines, Dated: 19.06.2020
21.	Mining plan approved by Assistant Director, Department of Geology and Mining, with date	Rc. No. 932/2018/Mines, Dated: 07.07.2020
22.	Assistant Director, Department of Geology and Mining, with date 500mts letter	Rc. No. 932/2018/Mines, Dated: 07.07.2020
23.	VAO Certificate regarding 300m Radius letter dated	18.08.2020
24.	Project cost (excluding EMP cost)	Rs.38 Lakhs
25.	EMP cost	Rs.3.80Lakhs
26.	CER cost	5 Lakhs as per SEAC Minutes

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


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total production quantity of 53095 cu.m of Rough Stone & 10626 cu.m. of Gravel but not exceeding the annual peak production capacity of 11500 cu.m of rough stone & 4488 cu.m of gravel by maintaining the ultimate depth of 17m BGL and subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall communicate the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
3. The proponent shall mandatorily appoint the statutory Mines Manager and other statutorily competent persons such as Blaster, Mine Mate, Mine Foreman in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 respectively.
4. The proponent shall maintain 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.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. As the habitations and structures are located at a distance ranging from 400 m to 550 m, the PP shall be strictly adhered to the shallow depth Jack hammer drilling (of 32-34 mm dia & 1.5 m depth) & NONEL initiation based 'controlled' blasting operation involving muffle blasting & line drilling in the proposed quarry such that the blast-induced ground vibrations are

controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 20 m from the blast site.

7. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.
8. Due to cluster situation, 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.
9. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 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 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
10. Within one year of the commencement of mining operations, the PP shall carry out the scientific studies on controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT(ISM)/Dhanbad, 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
11. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.


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12. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
13. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
14. 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.
15. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Government School, Velambalayam Village, as committed, before obtaining CTO from TNPCB.

Agenda No: 329-15

(File No: 8154/2020)

Proposed Rough Stone and Gravel quarry project over an extent of 0.82.70Hain S.F.No. 16/2A, 17/1 and 24/2BatSirukalambur Village, Vellore Taluk, VelloreDistrict, Tamil Nadu by Thiru. R. Udayasrinivasan- For Environmental Clearance. (SIA/TN/MIN/187884/2020 dated: 21.12.2020)

The proposal was placed for appraisal in this 329th meeting of SEAC held on 16.11.2022. The details of the project furnished by the proponent are given in the website(www.parivesh.nic.in).

The SEAC noted the following:

3. The project proponent, Thiru. R. Udayasrinivasan has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of 0.82.70ha at S.F.Nos 16/2A, 17/1 and 24/2B of Sirukalambur Village, Vellore Taluk, Vellore District, Tamil Nadu.
4. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

The committee noted that PP wanted to withdraw the proposal. Hence SEAC decided to remit back the proposal to SEIAA.

Agenda No: 329-16

(File No: 8161/2020)

Proposed Rough Stone and Gravel quarry project over an extent of 0.99.5Hain S.F.No. 88/8 at Mambakkam Village, Sriperumbudur Taluk, Kancheepuram District, Tamil


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Nadu by Thiru. K.Murugesan- For Environmental Clearance.(SIA/TN/MIN/188467/2020dated: 17.12.2020)

The proposal was placed for appraisal in this 329th meeting of SEAC held on 16.11.2022. The details of the project furnished by the proponent are given in the website(www.parivesh.nic.in).


The SEAC noted the following:


1. The project proponent, Thiru. K.Murugesan has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of 0.99.5ha at S.F.No.88/8 of Mambakkam Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

The committee noted that PP has requested to withdraw the proposal. Hence SEAC decided to remit back the proposal to SEIAA.

Agenda No. 17 & 18.

SEAC decide to take up consideration of the above proposals on 17.11.2022 in 330th Meeting along with other proposals in the same cluster.


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ANNEXURE-I

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

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


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

adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.


18. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
19. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.
20. The Project proponent shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flora, fauna etc.
21. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
22. The project proponent shall ensure that the provisions of the MMRD, 1956, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
23. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
24. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the


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

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


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Appendix -I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விவம்
2	<i>Adenanthura pavonina</i>	Manjadi	மஞ்சாடி, ஆனைக்குன்றிமணி
3	<i>Albizia lebeck</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமர
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjailavu	கோங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவுளி
18	<i>Creteva adansoni</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உசா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உசா
21	<i>Diospyro sebum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகனை
23	<i>Ficus amphissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பூவரசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம், ஆயிலி
27	<i>Lannea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விலா மரம்
31	<i>Litsea glutinos</i>	Pisinattai	அரம்பா பிசிப்பட்டை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பழை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுணா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுணா
38	<i>Phoenix sylvestre</i>	Eachai	ஈச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunnai	நறு முன்னை
42	<i>Premna tomentosa</i>	Malaipoovarasu	மலை பூவரசு
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்ணாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கறிபாலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்பங்கன் சோப்புக்காய்
50	<i>Saraca asoca</i>	Asoca	அஸோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாங் கொட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்ட்ரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வெண் மருது
57	<i>Toona ciliate</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்குரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பாலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்பூளி


Appendix -II

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

கரங்கம்

கரங்கத்தில் சூனாரி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEIAA/____, தெலிங்காபுரம், சுற்றுச்சூழல் அனுமதி _____ தெரி வரை செல்லத்தக்கதாக உள்ளது.

பகலும் பழுதி வளர்ச்சி	சூனாரியின் எல்லைவரை சுற்றி வேலி அமைக்க வேண்டும்.
வேம்பாட்டுக்கான கழக்கத் திட்டம்	கரங்கப்பாளையின் ஆழம் தளமாட்டத்திலிருந்து _____ மீட்டர்க்கு மிகாமல் இருக்க வேண்டும். காற்றில் மாக ஏற்படாதவாறு கழக்க பணிகளை மேற்கொள்ள வேண்டும்.
நடப்பட்டு	வாகனங்கள் செல்லும் பாதையில் மாக ஏற்படாத அளவிற்கு தண்ணீரை முனையாக தண்ணீர் லாடிகளின் மூலமாக அகவப்போது தெனிக்க வேண்டும்.
பராமரிக்கப்படவேண்டிய பணிகள் எண்ணிக்கை.	இனச்சேல் அமைவதும் தூசி மாசுபாட்டையும் குறைப்பதற்காக சூனாரியின் எல்லைவரை சுற்றி அடர்த்தியான பகலும் பழுதியை ஏற்படுத்த வேண்டும்.
கரங்கத்தில் வெடி வைக்கும்பொழுது நில அதிர்வுகள் ஏற்படாதவாறும் மற்றும் கற்கள் பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை உண்டிப்பாக செயல்படுத்தப்பட வேண்டும்.	
கரங்கத்தில் இருந்து ஏற்படும் இனச்சேல் அமைவு 85 டிசிபெல்ஸ் (dBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற் கொள்ள வேண்டும்.	
கரங்க சட்ட விதிகள் 1958ன் கீழ் கரங்கத்தில் உண்ட பணியாட்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு கைதாடிமுன்ன கட்டுப்பாடு வசதிகளை செய்ய தர வேண்டும்.	
கிராமம் அல்லது பஞ்சாயத்து வட்டியாக வாகனங்கள் செல்லும் சாலைவை தொடர்த்து தனது பராமரிக்க வேண்டும்.	
கரங்கப்பாளையை அருகில் உண்ட விவசாயப் பணிகள் மற்றும் தீர்த்திலைகள் பாதிக்கப்படக் கூடாது.	
தீர்த்திலைகள் பாதிக்கப்படாமல் இருப்பதற்கு உறுதி செய்யும் வகையில் இலத்திர தீர்த்திலை தொடர்த்து கண்ணாடிக் வேண்டும்.	
கரங்கத்திலிருந்து கணிக பொருட்களை எடுத்துச் செல்வது கிராம மக்களுக்கு எந்தத் சிடிமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் சுற்றுச்சூழல் பாதிக்கவாத வண்ணம் வாகனங்களை இயக்க வேண்டும்.	
கரங்கப்பாளையின் முடிக்கப்பட்டபின் கரங்க மூடல் திட்டத்தில் உள்ளவாறு கரங்கத்திலை மூட வேண்டும்.	
கரங்க நடவடிக்கைகளை முடித்தபின்னர் கரங்கப் பழுதி மற்றும் கரங்க நடவடிக்கைகளை இடைபுது ஏற்படக்கூடிய வேறு எந்தப் பழுதியையும் மறுகட்டுமானம் செய்ய தவறாமல் விவங்குகள் ஆயிபவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பகலும்பழுதியை உருவாக்க வேண்டும்.	
முழுமையான நிபந்தனைகளை அறிப பாதிவேறு (http://parivahan.in) ண்கிற இணையதளத்தைப் பார்வையிடவும். மேலும் எந்தவித சுற்றுச்சூழல் சார்ந்த புகார்களுக்கு சென்னைலில் உண் சுற்றுச்சூழல் மற்றும் வன அமைச்சகத்தின் குருக்கிணைத்த வட்டார அலுவலகம்: 044 - 28222325 (அல்லது) தமிழ்நாடு மாக கட்டுப்பாடு வாரியத்தின் மாவட்ட சுற்றுச்சூழல் பொறிபாளைய அலுவலகம்	


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