

State Expert Appraisal Committee (SEAC)

Minutes of 431st meeting of the State Expert Appraisal Committee (SEAC) held on 15.12.2023 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building and Construction projects, CRZ projects and Mining projects.

Confirmation of Earlier Minutes

The minutes of the 430th SEAC meeting held on 14.12.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 431-01

(File No: 10539/2023)

Proposed Multi Colour Granite quarry lease over an extent of 0.08.0 Ha at S.F.No. 253/1B (P) of Korakottai Village, Vandavasi Taluk, Tiruvannamalai District, Tamil Nadu by Tvl. SKN Temple Architects and Sculptors – For Environmental Clearance. (SIA/TN/MIN/451915/2023, Dated: 09.11.2023)

The proposal was placed for appraisal in this 431st meeting of SEAC held on 15.12.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). **The SEAC noted the following:**

1. The project proponent, Tvl. SKN Temple Architects and Sculptors has applied for Environmental Clearance for the Proposed Multi Colour Granite quarry lease over an extent of 0.08.0 Ha at S.F.No. 253/1B (P) of Korakottai Village, Vandavasi Taluk, Tiruvannamalai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the proposal are as follows:


File No	10539 / 2023	Category	B2 / 1(a)
Sl. No	Salient Features of the Proposal		

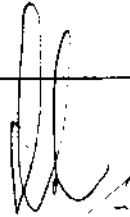

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1	Name of the Owner/Firm	Tvl. SKN Temple Architects and Sculptors, No.301, South 4 th Cross Road, Kapaleeswarar Nagar, Neelankarai, Chennai - 600 115.	
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	Multi Colour Granite	
3	S.F Nos. of the quarry site with area break-up	253/1B (P)	
4	Village in which situated	Korakottai	
5	Taluk in which situated	Vandavasi	
6	District in which situated	Tiruvannamalai	
7	Extent of quarry (in ha.)	0.08.0 Ha	
8	Latitude & Longitude of all corners of the quarry site	12°24'27.2680"N to 12°24'28.7057"N 79°31'14.4071"E to 79°31'15.7155"E	
9	Topo Sheet No.	57 – P/11	
10	Type of mining	Opencast Semi Mechanized Mining	
11	Life of Project	9 years	
	Lease Period	6 months	
	Mining Plan Period	6 months	
12	Mining Plan Details	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	Multi Colour Granite	Multi Colour Granite
		5140 m ³ ROM which includes 5140 m ³ of Multi	-


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		Colour Granite Recovery (@100%)	
	Minable Resources m ³ (RoM)	Multi Colour Granite 5140 m ³ ROM : which includes 5140 m ³ of Multi Colour Granite Recovery (@100%)	Multi Colour Granite -
	Annual Peak Production in m ³	Multi Colour Granite -	Multi Colour Granite -
	Ultimate Depth in meters	6.5m	-
13	Depth of water table	: 64m below ground level	
14	Man Power requirement per day:	: 26 Nos.	
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	: 1.2 KLD 0.3 KLD - 0.5 KLD 0.4 KLD	
16	Power requirement	: 880 Liters of HSD	
17	Precise area communication approved by Additional Chief Secretary to Government (FAC), Natural Resources (MMB.2) Department	: Letter No.5340200/MMB.2/2023-1, dated:01.09.2023	
18	Mining Plan approved by Commissioner, Department of G&M	: Rc.No.4349/MM4/2023, dated:18.10.2023	

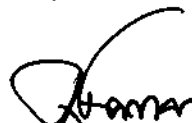

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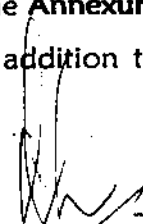
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19	Department of G&M, Deputy Director 500m Cluster Letter	: Rc.No.213/Kanimam/2023, Dated:02.11.2023	
20	VAO Certificate Regarding Structures within 300m Radius	: Letter dated 30.10.2023	
21	Project Cost (excluding EMP cost)	: Rs. 17,47,000/-	
22	EC Recommendation	: Validity	30 years subject to the following upper limits. Multi Colour Granite
		: Max Total RoM in m ³	547.5 m ³ ROM which includes 547.5 m ³ of Multi Colour Granite Recovery (@100%)
		: Annual Max RoM in m ³	-
		: Max Depth in mtrs	6.5m
23	EMP cost (in Rs. Lakh).	: Rs. 10,51,800/-	
24	CER cost (in Rs. Lakh).	: Rs. 2,75,000/-	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production quantity of 547.5 m³ ROM which includes 547.5 m³ of Multi Colour Granite Recovery (@100%) & the ultimate depth of mining upto 6.5m for a period of 6 months only 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:


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- 1) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 2) The PP shall develop Green belt/plantation all along the mining lease boundary in a safety barrier.
- 3) The PP shall install the fencing and an embankment (compound wall) of not less than 1.5 m height at the south-west side of the lease (near the village road junction) for the safety aspects.
- 4) The PP shall carry out only mild blasting to create the shattering effects and shall involve more of non-explosive technique of diamond wire saw cutting for the rock breakage work.
- 5) The PP shall not dump the waste material including the overburden outside the mine lease area.
- 6) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 7) The PP shall appoint a Statutory Competent Person for managing the quarrying operations before the execution of lease and a copy of the appointment shall be sent to the Director of Mines Safety, Chennai Region along with Notice of Opening of the Mine under the provisions of MMR 1961.
- 8) As accepted by the Project Proponent the CER cost of **Rs. 2.75 Lakhs** and the amount shall be spent for the below activities as committed, before obtaining CTO from TNPCB.

CER Activity	CER Cost INR
Installation of Nandhi Statues in the Girivalam Road, Thiruvannamalai (3 Nos)	2.75,000/-
Total	Rs. 2,75,000/-


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Agenda No: 431-02

(File No: 10483/2023)

Proposed Rough Stone and Gravel quarry lease over an extent of 1.43.0 Ha at S.F.Nos. 100/1A & 100/1B (Part) of Nachipalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu by Thiru. S. Karthick – For Environmental Clearance. (SIA/TN/MIN/447636/2023, Dated: 10.10.2023)

The proposal was placed for appraisal in this 431st meeting of SEAC held on 15.12.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). **The SEAC noted the following:**

1. The project proponent, Thiru. S. Karthick has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease over an extent of 1.43.0 Ha at S.F.Nos. 100/1A & 100/1B (Part) of Nachipalayam Village, Madukkarai Taluk, Coimbatore 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.

During the meeting, the Committee noted that the project proponent was absent for the meeting. Hence, the Committee decided to defer the proposal.

Agenda No: 431 - 03.

(File No: 10547/2023)

Existing Grey Granite over an extent of 34.35.5Ha in S.F.No.289(Part) in Sulamalai Village, Bargur Taluk, Krishnagiri District by M/S. Tamil Nadu Minerals Limited- For Terms of Reference (under Violation). (SIA/TN/MIN/453082/2023, dt: 14/12/2023)

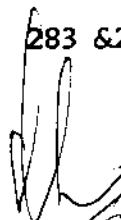
The proposal was placed in the 431st SEAC Meeting held on 12.12.2023. The details of the minutes are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. History of earlier application seeking EC

- a) The project proponent has obtained mining lease for the existing Grey granite quarry over an extent of 55.22.55 Ha vide G.O. (3D) No.268, Indus. (MME.1) Dept. Dt:21.06.1999 to 20.06.2019 at S.F. No. 283 & 247 of Sulamalai Village, Krishnagiri Taluk, Dharmapuri District.


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- b) Subsequently, the project proponent has surrendered mining lease area of 6.13.0 Ha vide G.O. (4D) No.2, Indus. (MME.1) Dept. Dt:07.06.2022 at S.F. No. 247 of Sulamalai Village, Krishnagiri Taluk, Dharmapuri District and the total extent of mining lease area reduced to 49.09.5 Ha.
- c) The mining plan approved for mining lease area of 34.35.5 Ha by Commissioner of Geology and Mining vide Lr. No.13592/MM2/2001 Dt:31.12.2002.
- d) The PP obtained ToR with public hearing Vide Lr No. SEIAA-TN/3889/SEAC LXVIII/TOR-231/2015 Dt:06.11.2015 in regard to the application submitted vide Rc.No.3445/ML3/2015 Dt 08.09.2015.
- e) Public hearing conducted on 15.02.2017.
- f) Submitted final EIA report seeking EC Dt: 17.04.2017.
- g) MoEF&CC notification vide S.O. 804 (E) Dt. 14.3.2017 & MoEF & CC Notification S.O.1030 (E) dated 08.03.2018.
- h) Again, the PP has applied seeking ToR under violation category vide the online proposal No. SIA/TN/MIN/23926/2018 Dt:09.04.2018 (under violation).
- i) ToR under violation vide Lr No. SEIAA-TN/F.No.3889/TOR- 439/2018 Dated: 30.05.2018 and validity of the ToR issued expired as on 29.05.2023 as per MoEF&CC notification S.O. 221(E). Dt:18.01.2021 & as per MoEF&CC Office memorandum Dt 29.08.2017.

2. Now, the project proponent, **M/S. Tamil Nadu Minerals Limited** has again applied for Terms of Reference under violation category for the existing **Grey Granite over an extent of 34.35.5Ha in S.F.No.289(Part) in Sulamalai Village, Bargur Taluk, Krishnagiri District, Tamil Nadu** vide online proposal No. **SIA/TN/MIN/453082/2023, dt: 14/12/2023** along with precise area communication Lr. No. 3821994/MME.1/2022-1, IIP&C Dept Dt14.02.2023 & Approved mining plan from commissioner Geology & Mining Lr.No.6262/MM4/2019 Dt:19.09.2023.

3. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.


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4. As per the precise area communication the lease period of 20 Years. The current scheme mining plan is for 5 Years. The Mineable reserve /production for next 5 Years shall not to exceed RoM of 30,000m³ & Grey Granite of 7500m³ (Recovery @ 25%) & Grey Granite reject (75 %) of 22500m³ and the ultimate depth of 29m.
5. MoEF&CC Office Memorandum No: F. No. 22-10/2019-1A.111m Dt 09.09.2019 which states

"....The Hon'ble High Court of Madras vide order dated 14.03.2018 was of the view that it will serve the ends of justice if time is extended by 30 (thirty) days from the date of delivery of the order, thereby extending the time till 13th April 2018, providing time for violators to apply as per the provisions of Notification S.O 804 (E). Therefore, again a one-month window was given from the date of order of Hon'ble High court (14.03.2018-13.04.2018) to submit proposals under violation of EIA Notification. The Ministry has issued OM dated 16.03.2018 for the compliance of the order dated 14.03.2018 of Hon'ble High court of Madras...."

"...Proposals involving violation of EIA Notification, which had applied during the window (14.03.2017 to 13.09.2017 & 14.03.2018 to 13.04.2018) under violation category are being considered by the violation committee. However, in addition to such proposals, there were many category A proposals submitted in the respective sectoral committees for regular appraisal during or prior to violation window period. Sectoral committee while deliberating on the proposals, identified these as violation of EIA Notification. These proposals were subsequently forwarded to the violation committee after approval by the Competent Authority and such proposals are termed as "lateral entry proposals"...."

"....It is possible that there may be certain category B proposals which were submitted at SEIAA during or prior to the violation window period but not under violation category and later during the appraisal by State

Level Expert Appraisal committee (SEAC) identified as violation proposals....”

Based on the above Memorandum and presentation & documents furnished by the project proponent, SEAC decided to grant of **Terms of Reference (TOR) with Public Hearing under Violation category**, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants.

1. The Project proponent shall conduct and furnish minutes of Public hearing as per ToR issued and accordingly, the PP shall submit revised EIA/EMP for then life of the mine including progressive/final mine closure plan.
2. The PP shall ensure that the waste/reject blocks dumped outside the mine lease area are removed.
3. Copy of total penalty levied by the AD/DD, Dept of Geology and Mining, Dharmapuri District and copy of remittance of total penalty by PP.
4. Details of status of credible action under EPA Act, 1986.
5. Details of dimension of existing pits within the existing mining lease area from AD/DD, Dept of Geology and Mining, Dharmapuri District.
6. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
7. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
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.


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9. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m.
10. The PP shall furnish the details of the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
 - 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.
13. 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).
14. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,

15. 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.
16. 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.
17. 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.
18. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
19. 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.
20. 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.


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21. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
22. 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.
23. 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.
24. 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.
25. 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.
26. Impact on local transport infrastructure due to the Project should be indicated.
27. 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.
28. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
29. 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.


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30. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
31. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
32. 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.
33. 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.
34. 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
35. 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.
36. 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.
37. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be


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- incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
38. 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.
 39. 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.
 40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
 41. 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.
 42. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
 43. 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.
 44. 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: 431 - 04.

(File No: 10484/2023)

Proposed Rough Stone and Gravel Quarry over an extent of 2.98.0 Ha S.F.Nos.485/2 (P) & 486 (P) of Nedungulam Village, Sathankulam Taluk, Thoothukudi District by


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**Thiru. KRISHNA BLUE METALS - For Environmental Clearance.
(SIA/TN/MIN/448552/2023 Dt. 12/10/2023).**

The proposal was placed in this 431st Meeting of SEAC held on 15.12.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. Earlier, the Project Proponent, M/s. Krishna Blue Metals has applied for Environmental Clearance for the the Proposed Rough Stone & Gravel lease over an extent of 4.98.0 ha at S.F.No's: 485/2(P) & 486 (P) , Nedungulam Village, Sathankulam Taluk, Thoothukudi District, Tamil Nadu vide online proposal no. SIA/TN/MIN/411999/2022 dt 24.12.2022 & (File No: 9699/2022).As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 12,09,065 m³ of Rough Stone & 83,910 m³ of gravel. The annual peak production is 2,49,020 m³ of Rough Stone & 30,150 m³ of Gravel. The ultimate depth is 52m BGL (2m Gravel + 50m Rough Stone).
2. In this connection, the subject was placed in the 365th SEAC meeting Dt: 24.03.2023. During the appraisal, the SEAC had observed the following:
 - a) The Solar Panel Power units are situated at a distance of 90 m from the boundary of proposed quarry, i.e., in the **Extremely Sensitive Zone** considering the risk from the flyrock due to indiscriminate blasting operations in the proposed quarry.
 - b) The proposed quarry is freshly planned in the current location where no other such quarries are in operation and the Solar Panel structure has been installed before the arrival of this quarry proposal.
 - c) The proposed quarrying operation involving vibration induced blasting operations and dust pollution due to huge excavation & hauling operations may damage the existing solar panel & its structures.
 - d) Besides, this proposal attracts the following legal implications:
 - (i). Under the provisions of Tamil Nadu Minor Mineral Concession Rules,


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1959, Rule 36 (1-A) (a) says

"....No lease shall be granted for quarrying stone within 300 meters (three hundred meters) from any inhabited site: Provided that the existing quarries which are subsisting under current leases shall be entitled for continuance till the expiry of the lease period. The lessees whose quarries lie within a radius of 300 metres from the inhabited site shall undertake blasting operations only after getting permission of the Director of Mines Safety, Chennai".

Similarly, Rule 36 (1-A) (c) also indicates

"....No new layout, building plans falling within 300 metres from any quarry should be given approval by any agency unless prior clearance of the Director of Geology and Mining is obtained. On receipt of proposals for according clearance, the Director of Geology and Mining (DGM) shall decide upon the continuance or closure, as the case may be of any quarry which is situated within 300 metres from the now layout, building sought for such ,clearance....".

In view of the above reasons, the SEAC decided that not to recommend the proposal for the grant of Environmental Clearance.

3. Subsequently, this subject was placed in 612th authority meeting held on 17.04.2023 & 18.04.2023. The Authority accepts the decision of SEAC and decided to request the Member Secretary, SEIAA-TN to grant rejection letter to the project proponent as per the 365th Meeting of SEAC held on 24.03.2023
4. Now, the Project Proponent, M/s. Krishna Blue Metals has again applied for Environmental Clearance for the the proposed Rough Stone and Gravel Quarry over an extent of 2.98.0 Ha S.F.Nos.485/2 (P) & 486 (P) of Nedungulam Village, Sathankulam Taluk, Thoothukudi District.
5. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
6. As per the Precise area communication the lease period is 5 Years. The mining plan is for the period of five years & production should not exceed 2,49,020 m³ of Rough Stone & 47,470 m³ of Gravel. The annual peak production is 1,11,250 m³ of Rough Stone & 19,836 m³ of Gravel. The ultimate depth is 47m BGL (2m


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Gravel + 45m Rough Stone).

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

- a) As per revised precise area communication and revised Mining plan it was noted that the proximity of the Solar Panels at the solar power plant are situated at 160 m (Northern & North Eastern Direction) from the boundary of proposed quarry area which attracts as per provisions of TamilNadu Minor Mineral Concession Rules, 1959, Rule 36 (1-A) (a) which states that

"....No lease shall be granted for quarrying stone within 300 meters (three hundred meters) from any inhabited site: Provided that the existing quarries which are subsisting under current leases shall be entitled for continuance till the expiry of the lease period. The lessees whose quarries lie within a radius of 300 metres from the inhabited site shall undertake blasting operations only after getting permission of the Director of Mines Safety, Chennai".

(c) No new layout, building plans falling within 300 metres from any quarry should be given approval by any agency unless prior clearance of the Director of Geology and Mining is obtained. On receipt of proposals for according clearance, the Director of Geology and Mining shall decide upon the continuance or closure, as the case may be of any quarry which is situated within 300 metres from the now layout, building sought for such "clearance".

3 [(ii-a) 'stone' shall mean rough stones including khandas, boulders, size reduced (broken or crushed) materials including metal jelly, ballasts, mill stones, hand chakais and building and road construction stones other than black, red, pink, grey, green, white or other coloured or multi coloured granites or any other rocks suitable for use as ornamental and decorative stones.]³

(iii) ² ['inhabited site' shall mean a village site or town site or a house site as referred to in the revenue records or a house site or layout approved by a Local Body or Town or Country or Metropolitan Planning Authority, where


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the said Body or Authority is created under a statute and empowered to approve such an area as a house site or layout area.

Here, the SEAC have observed following points during the long deliberation:

- i. The SEAC feels that this affirmation of safety distance of 160m from the solar panels may not be suffice as it falls again within the **High Sensitive Zone** considering the risk from the flyrock and the higher magnitude of Air-Over Pressure (Noise) due to indiscriminate blasting operations in the proposed quarry.
- ii. The proposed quarry is freshly planned in the current location which is virgin area where no other such quarries are either in 'operation' (or) in 'abandoned' stage
- iii. Vide Rule 36 (I-A) (c) of Tamil Nadu Minor Mineral Concession Rules, 1959, the Solar Panel **structure has been Installed** before the application for the proposed quarry was made **and it is presently operating.**
- iv. The proposed quarrying operation involving drilling, excavation and transportation operations handling large volume of excavation, poses enormous dust pollution (airborne dust) which may damage the existing solar panel and the ground vibration caused due to blasting & the operation/movement of heavy earth equipments affects the integrity of its structures.

In view of the above reasons, the SEAC dedded not to recommend this proposal for the grant of Environmental Clearance.


Agenda No: 431-05

(File No: 10485/2023)

Proposed Rough Stone Quarry over an extent of 1.95.5 Ha at S.F.Nos.93/1, 93/3 & 93/4 of Erragudahalli Village, Palacode Taluk, Dharmapuri District, Tamil Nadu by Tmt.R.Oviyam -For Environmental Clearance.(SIA/TN/MIN/435558/2023, Dated:25.09.2023).

The proposal was placed in the 431st Meeting of SEAC held on 15.12.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:


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1. The Project Proponent, Tmt.R.Oviyam has applied for Environmental Clearance for the Proposed Rough Stone Quarry over an extent of 1.95.5 Ha at S.F.Nos.93/1, 93/3 & 93/4 of Erragudahalli Village, Palacode Taluk, Dharmapuri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

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

Agenda No: 431 - 06

(File No: 10486/2023)

Proposed Rough stone and Gravel lease over an extent of 0.77.5 Ha of Patta Land at S.F.No.17/2B & 17/3A in Kidaram Village, Thottiam Taluk, Tiruchirappalli District, Tamil Nadu by Thiru. R. Kabila – For Environment Clearance. (SIA/TN/MIN/449025/2023 dt 16/10/2023)

The proposal was placed in this 431st meeting of SEAC held on 15.12.2023. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. R. Kabila, has applied seeking Environment Clearance for the proposed Rough stone and Gravel lease over an extent of 0.77.5 Ha of Patta land at S.F.No.17/2B & 17/3A in Kidaram Village, Thottiam Taluk, Tiruchirappalli District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. PP has proposed manual method of mining along with usage of mild explosives, as and when required only to create the line of breakage in the rock for the purpose of producing the 'shaped' fencing stones/pillars.

On perusal of the KML file furnished by the Project Proponent, the Committee noticed that a habitation is located at a distance of 94m and few building / structures situated at a distance of 260 m from the boundary of the mine lease area. The SEAC further


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noted that,

As per the amendment to Tamil Nadu Minor Mineral Concession Rules, 1959 issued vide G.O.Ms.No.88 Industries (MMC.1) Department dated 18.10.2002, sub-rule 1-A has been inserted to rule 36 which reads as follows:

“(a). No lease shall be granted for quarrying stone within 300 meters (three hundred meters) from any inhabited site.”

The term 'stone' is defined in sub-rule (ii-a) which is as follows:

“(ii-a) 'stone' shall mean rough stones including khandas, boulders, size-reduced (broken or crushed) materials including metal jelly, ballasts, mill stones, hand chakais and building and road construction stones other than black, red, pink, grey, green, white or other coloured or multi coloured granites or any other rocks suitable for use as ornamental and decorative stones”

In view of the above, the SEAC **decided not to recommend** Environmental Clearance for the project.

Agenda No: 431 - 07

File No: 10480/2023

Proposed Rough Stone & Gravel quarry lease over an extent of 2.47.91 ha in S.F. No. 310/1A, 311/1, 312/1, 314/1A, 314/1B, 315/1A(P), 315/1B, 316/1(P), 316/2(P), 317/1(P), 317/2(P) & 318/1(P) of Alangaraperi Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by Thiru. T. Balasubramanian - For Environmental Clearance. (SIA/TN/MIN/448682 /2023, Dated: 13.10.2023)

The proposal was placed in this 431st SEAC meeting held on 15.12.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation.

The SEAC noted the following:

1. The Project Proponent, Thiru. T. Balasubramanian has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 2.47.91 ha in S.F. No. 310/1A, 311/1, 312/1, 314/1A, 314/1B,


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315/1A(P), 315/1B, 316/1(P), 316/2(P), 317/1(P), 317/2(P) & 318/1(P) of Alangaraperi Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu.

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

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

1. The proposed site is at a distance of 1.10 Km from the Gangai Kondan Wildlife Sanctuary and Eco Sensitive zone of Gangai Kondan Wildlife Sanctuary is 0 Km to 0.82 Km as per DFO letter vide C.No. D/8163/2023 Dated: 15.09.2023.
2. Further, based on the village map submitted by the proponent in Parivesh Portal, there are two water bodies in the northern and southern direction of the proposed site and the site is abutting the water bodies.

In the view of the above facts, the Committee felt that the proposed mining activity is close to the ecologically highly sensitive area and quarrying activity in a virgin land will have serious adverse impact on the wildlife and flora & fauna.

Hence, the Committee decided to direct the PP/EIA coordinator to study and submit a detailed report on the implications of the proposed mining activity on the above aspects and the additional mitigation efforts proposed in the EMP.

Agenda No: 431 - 08

(File No. 10481/2023)

Existing Rough Stone Quarry Lease over an extent of 1.00.0 Ha (Govt. Land) at S.F.Nos. 402/1 (Part) of Erumapalayam Village, Salem Taluk, Salem District, Tamil Nadu by M/s. Vaas Ziegel Blocks - For Environmental Clearance. (SIA/TN/MIN/431176/2023 dated:27.05.2023)

The proposal was placed for appraisal in the 431st Meeting of SEAC held on 15.12.2023. The details of the project furnished by the proponent are given in the website(parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **M/s.Vaas Ziegel Blocks** has applied for Environmental Clearance for the Existing Rough Stone Quarry Lease over an extent of 1.00.0


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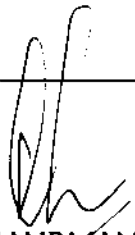
Ha (Govt. Land) at S.F.Nos. 402/1 (Part) of Erumapalayam Village, Salem Taluk, Salem District, Tamil Nadu.

2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was accorded to the project proponent by DEIAA vide Lr.No.DEIAA-DIA/TN/MIN/15207/2018-SLM - EC No. 18/2018 dated. 10.06.2018 for a period of 5 years from the date of execution of mining lease. EC was accorded for the quantity of 2,90,016m³ of rough stone & 8337m³ of top soil up to a depth of 41m above ground level.
4. The proponent has submitted a Certified Compliance Report obtained from IRO of MoEF&CC vide E.P./12.1/2023-24/SEIAA/97/TN/1192 dated.27.10.2023 for the EC obtained earlier.
5. Now, based on MoEF&CC O.M dated.24.04.2023, the proponent has submitted the application at SEIAA-TN for re-appraisal of EC granted by DEIAA.
6. The salient features of the proposal are as follows:

File No	10481/2023	Category	B2
	431176/2023		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	M/s. Vaas Ziegel Blocks, No. 426/3, Thengalkaadu, Erumapalayam Village, Kanthasramam Backside, Udaiyapatty, Salem district – 636 140.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone Quarry
3.	S.F Nos. of the quarry site	:	402/1(Part)
4.	Village in which situated	:	Erumapalayam
5.	Taluk in which situated	:	Salem
6.	District in which situated	:	Salem

7.	Extent of quarry (in ha.)	:	1.00.0 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	11°38'13.88"N to 11°38'19.57"N 78°11'54.22"E to 78°11'56.57"E
9.	Topo Sheet No.	:	58-1/02
10.	Type of mining	:	Opencast Mechanized Mining.
11.	Life of Project	:	10 years
	Lease Period	:	10 years (2019-2029)
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan As modified by SEAC
	Geological Resources m ³ (RoM)	:	Rough Stone m ³ - 4,96,795 m ³ -
		:	Topsoil m ³ - 3,127m ³ -
	Minaible Resources m ³ (RoM)	:	Rough Stone m ³ - 3,87,675m ³ -
		:	Topsoil m ³ - 3,127m ³ -
	Annual Peak Production in m ³	:	Rough Stone m ³ - 41,685m ³ -
Maximum Depth in meters	:	41m AGL -	
13.	Depth of water table	:	45-50m BGL
14.	Man Power requirement per day:	:	24 Nos.
15.	Water requirement:	:	1.0 KLD
	1. Drinking & Domestic	:	0.2 KLD
	2. Dust suppression	:	0.5KLD
	3. Green belt	:	0.3 KLD


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16.	Power requirement	:	1,64,520 liters of HSD for entire project life.	
17.	Precise area communication approved by the District Collector.	:	Roc.No.74/2018/Mines - A, Dated:11.02.2019.	
18.	Scheme of Mining Plan approved by the Deputy Director, Dept. of Geology & Mining.	:	Roc.No.371/2022/Mines-B, Dated:30.05.2023.	
19.	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining with date	:	Roc.No.720/2023/Mines-A, Dated:04.08.2023.	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:12.07.2023.	
21.	Project Cost (excluding EMP cost)	:	Rs.31,20,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM	2,05,000m ³
		:	Annual Max RoM	41,685m ³
		:	Max Depth in mtrs	41m AGL
23.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 22,44,000/- Recurring Cost – Rs. 16,86,250/-	
24.	CER cost (in Rs. Lakhs).	:	Rs. 5,00,000 /-	

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


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annual peak production capacity not exceeding 41,685m³ of Rough stone by restricting the ultimate depth of mining up to 41m above ground level and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MoEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) From the date of issue of EC from the office of the SEIAA, the earlier EC dated.10.06.2018 issued by DEIAA will stand invalid.
- 3) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
- 4) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 5) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 6) **Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months** from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG


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Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 7) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 8) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during 3rd year or when the depth of working touches 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 9) As accepted by the Project Proponent the CER cost is **Rs. 5 Lakhs** and the amount shall be spent towards Government Higher Secondary School, Udaiyarpatti Salem for the activities as committed before obtaining CTO from TNPCB.

Agenda No: 431-09

(File No: 10482/2023)

Proposed Ordinary Earth quarry lease over an extent of 1.80.0Ha at SF.No.58/7 & 58/8 of Kondalankuppam Village, Vanur Taluk, Vilupuram District, Tamil Nadu by Thiru. R.Sivakumar - For Environmental Clearance. (SIA/TN/MIN/448766/2023, Dated:16.10.2023)

The proposal was placed in 431st meeting of SEAC held on 15.12.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.R.Sivakumar has applied for Environmental Clearance


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for the proposed Ordinary Earth quarry lease over an extent of 1.80.0Ha at SF.No.58/7 & 58/8 of Kondalankuppam Village, Vanur Taluk, Vilupuram District, Tamil Nadu.

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

File No	10482/2023		Category	B2
	SIA/TN/MIN/448766/2023, Dated: 16.10.2023			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. R.Sivakumar S/o. Ramalingam, No.1/11, Kamaraj Street, Kappiyampuliyur Village, Viluppuram Taluk & District	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Ordinary Earth quarry	
3.	S.F Nos. of the quarry site with area break-up	:	58/7 & 58/8	
4.	Village in which situated	:	Kondalankuppam	
5.	Taluk in which situated	:	Vanur	
6.	District in which situated	:	Viluppuram	
7.	Extent of quarry (in ha.)	:	1.80.0Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°12'39.52"N to 12°02'47.28"N 79°41'19.96"E to 79°41'24.04"E	
9.	Topo Sheet No.	:	57-P/12	
10.	Type of mining	:	Opencast Semi-mechanized Mining	
11.	Life of Project	:	2 Years	
	Lease Period	:	2 Years	


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	Mining Plan Period	: 2 Years
12.	Mining Plan Details	: As per approved Mining Plan
		: Ordinary Earth
	Geological Resources m ³	: 65,822m ³
	Minable Resources m ³	: 39,088m ³
	Annual Peak Production in m ³	: 20,657m ³
	Maximum Depth in meters	: 4.0m (2.0m AGL + 2.0m BGL)
13.	Depth of water table	: 25m in summer season – 20m in rainy season
14.	Man Power requirement per day:	: 8 Employees
15.	Water requirement:	: 2.0 KLD
	1. Drinking water	0.5 KLD
	2. Utilized water	0.5 KLD
	3. Dust suppression	0.5 KLD
	4. Green belt	0.5 KLD
16.	Power requirement	: TNEB 6510 Liters of Diesel will be utilized
17.	Precise area communication approved by the Deputy Director, Department of G&M.	: Rc.No.A/G&M/100/2023,Dated:03.10.2023
18.	Mining Plan approved by Deputy Director, Department of G&M.	: Rc.No.A/G&M/100/2023,Dated:04.10.2023
19.	500m Cluster Letter approved by the Deputy Director, Department of G&M.	: Rc.No.A/G&M/100/2023,Dated:04.10.2023
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Dated:03.10.2023
21.	Project Cost (excluding EMP cost)	: Rs.7,90,000/-


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22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:		Ordinary Earth
		:	Max Total in m ³	39,088m ³
		:	Annual Max in m ³	20,657m ³
		:	Max Depth in mtrs	4m (2m AGL + 2m BGL)
23.	EMP cost (in Rs. Lakh).	:	Rs.8.27 Lakhs	
24.	CER cost (in Rs. Lakh).	:	Rs. 2,00,000/-	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for Annual Peak excavation quantity of not exceeding 20,657m³ of Ordinary Earth with maintaining an ultimate pit depth of 4m (2m AGL + 2m BGL) subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The PP shall complete the quarrying operations within a period of 2 years from the date of execution of the lease.
2. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
3. The PP shall carry out the required number of plantation as committed in the EMP without deviation.
4. The PP shall not carry out drilling & blasting operations in the proposed quarry.
5. As accepted by the Project proponent the CER cost is Rs.2 Lakhs and the amount shall be spent for the Govt Higher Secondary School, Karasanur Village before obtaining CTO from TNPCB.

Agenda No: 431-10
(File No: 10160/2023)


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Proposed Black Granite quarry lease over an extent of 4.14.8Ha at SF.No. 104/1A(Part) of Udaiyanatham Village, Vikravandi Taluk, Villupuram District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited - For Environmental Clearance. (SIA/TN/MIN/434072/2023, Dated:23.06.2023)

Earlier the proposal was placed in 402nd meeting of SEAC held on 17.08.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Tamil Nadu Minerals Limited has applied for Environmental Clearance for the proposed Black Granite lease over an extent of 4.14.8Ha at SF.No. 104/1A(Part) of Udaiyanatham Village, Vikravandi Taluk, Villupuram District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. In Precise Area Communication Letter it was stated that, *"I, therefore, request you to furnish the Approved Mining Plan for the above-mentioned Precise Area through the Commissioner of Geology and Mining within a period of 3 months as per sub-rule (3) (b) of Rule 8-C of the Tamil Nadu Minor Mineral Concession Rules, 1959 and to produce Environmental Clearance obtained from the competent authority for the above said area for grant of quarry lease subject to the following conditions"*.
4. Lease expired on 02.11.2022.
5. Earlier the PP has obtained EC vide Lr.No.SEIAA-TN/F.No.3887/1(a)/EC.No.3888/2016 dated 14.11.2016.

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

1. Since the lease period has been expired, the PP shall furnish renewal of lease.
2. The PP shall revise the EMP as per SEAC template.
3. The PP shall submit Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai and the PP shall furnish appropriate mitigating measures for the non-compliance items, if any


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4.The PP shall furnish CER details.

Now the proposal was placed in 431st SEAC meeting held on 15.12.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

S.No	SEAC Query	Reply
1.	Since the lease period has been expired, the PP shall furnish renewal of lease.	<ul style="list-style-type: none">• Lease expired on 02.11.2022. TAMIN applied for renewal of lease on 08.02.2022.• GoTN has issued precise area communication vide Letter No.3644339/MME.1/2022-1, Dt.25.01.2023 so as to grant lease for a period of 20 years.• Accordingly Mining Plan also has been approved by the Commissioner of Geology and Mining, Chennai vide Letter Rc.No.4593/MM4/2022, dt.11.05.2023.
2.	The PP shall revise the EMP as per SEAC template	Revised EMP as per SEAC template was submitted.
3.	The PP shall submit Certified Compliance Report obtained from the Office of the concerned DEE/TNPCB (or) IRO, MoEF&CC, Chennai and the PP shall furnish appropriate mitigating measures for the non-compliance item, if any.	<ul style="list-style-type: none">• Certified Compliance Report obtained from IRO, MoEF&CC, Chennai vide F.No.EP/12.1/2023-24/SEIAA/75/TN/1062, dt. 08.09.2023.• Appropriate mitigating measure for the non compliance item is furnished in slide No.13.
4.	The PP shall furnish CER details	TAMIN has proposed to spend Rs.5 Lakh for providing Solar lights and computers to Govt.


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	School Udaiyanatham Village towards Corporate Environment Responsibility (CER) activities and as directed by SEAC/SEIAA as per MoEF&CC, OM dated 20.10.2020.
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File No	10160/2023 SIA/TN/MIN/434072/2023, Dated:23.06.2023	Category	B2
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	M/s. Tamil Nadu Minerals Limited, No.31, Kamarajar Salai, Chepauk, Chennai-600 005
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Black Granite
3.	S.F Nos. of the quarry site with area break-up	:	104/1A(Part)
4.	Village in which situated	:	Udaiyanatham
5.	Taluk in which situated	:	Vikravandi
6.	District in which situated	:	Villupuram
7.	Extent of quarry (in ha.)	:	4.14.8Ha
8.	Latitude & Longitude of all corners of the quarry site	:	12°03'13.30875"N to 12°03'26.35871"N 79°20'15.52386"E to 79°20'29.38890"E
9.	Topo Sheet No.	:	57 P/8
10.	Type of mining	:	Opencast Semi-mechanized Mining
11.	Life of Project	:	12 Years


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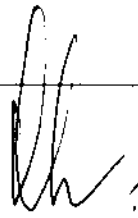
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	Lease Period	20 Years		
	Mining Plan Period	: 5 Years		
12.	Mining Plan Details	: As per approved Mining Plan		
		ROM	Recovery @10%	Granite waste@90 %
	Geological Resources m ³	: 4,31,637m ³	43,164m ³	3,88,473m ³
	Minable Resources m ³	: 1,68,113m ³	16,811m ³	1,51,302m ³
	Annual Peak Production in m ³	: 15,000m ³	1,500m ³	13,500m ³
	Maximum Depth in meters	: 21.5m from the top of the hill		
13.	Depth of water table	: 15.1m		
14.	Man Power requirement per day:	: 35 Employees		
15.	Water requirement:	: 1.5 KLD		
	1. Drinking water & Domestic purpose	0.5 KLD		
	2. Wire Saw cutting purpose	0.3 KLD		
	3. Dust suppression	0.3 KLD		
	4. Green belt	0.4 KLD		
16.	Power requirement	: TNEB		
		-		
17.	Precise area communication approved by the Industries, Investment Promotion & Commerce (MME.1) Department.	: Letter No.3644339/MME.1/2022-1, Dated:25.01.2023.		
18.	Mining Plan approved by Commissioner of G&M.	: Rc. No. 4593/MM4/2022 Dated:11.05.2023.		
19.	500m Cluster Letter approved by the Deputy Director, Department of G&M.	: Rc.No.B/G&M/42/2022, Dated:04.08.2023.		


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20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 08.08.2023			
21.	Project Cost (excluding EMP cost)	:	Rs. 97,92,000/-			
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.		
				ROM	Recovery @10%	Granite waste@ 90%
		:	Max Total in m ³	37,500 m ³	3,750m ³	33,750 m ³
		:	Annual Max in m ³	15,000 m ³	1,500m ³	13,500 m ³
:	Max Depth in mtrs	21.5m from the Top of the hill				
23.	EMP cost (in Rs. Lakh).	:	Rs.108.32			
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000			

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for Annual Peak excavation quantity of not exceeding 15,000m³ of RoM [1,500m³ of Black Granite @ Recovery 10% + 13,500m³ of Granite waste @ 90%] with maintaining an ultimate pit depth of 21.5m from the Top of the hill 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


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maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.


2. The PP shall ensure that the plantation shall be carried out in a phase manner as a part of mine closure activities spelt out in the progressive mine closure plan.
3. The PP shall install the Environmental Management Cell headed by the statutory (I/II Class) 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Government School, Udaiyanatham Village before obtaining CTO from TNPCB.

Agenda No: 431-11

(File No: 10532/2023)


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Proposed reconstruction of high-rise residential building with 792 tenements at West Cemetery Road, S.No.1756, Block No. 25, Tondiarpet, Chennai District, Tamil Nadu by M/s. Tamil Nadu Urban Habitat Development Board – For Environmental Clearance. (SIA/TN/INFRA2/451398/2023, Dated: 05.11.2023)

The proposal was placed for appraisal in this 431st meeting of SEAC held on 15.12.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). **The SEAC noted the following:**

1. The Proponent, M/s. Tamil Nadu Urban Habitat Development Board has applied for Environmental Clearance for the Proposed reconstruction of high-rise residential building with 792 tenements at West Cemetery Road, S.No.1756, Block No. 25, Tondiarpet, Chennai District, Tamil Nadu.
2. The project/activity is covered under Category “B2” of Item 8(a) “Building and Construction Projects” of the Schedule to the EIA Notification, 2006, as amended.

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

1. **The environmental clearance is sought for Proposed reconstruction of high-rise residential building with 792 tenements at West Cemetery Road, S.No.1756, Block No. 25, Tondiarpet, Chennai District, Tamil Nadu by the PP M/s. Tamil Nadu Urban Habitat Development Board.**
2. M/s. ABC Techno Labs India Private Limited is the EIA Consultant for the project.
3. Total plot area of the project is 12,732.76 sq.m and built-up area is 33,784 sq.m respectively.
4. Maximum number of floors will be 2 Blocks – 5+9 floors and maximum height of the building will be 32.65m.
5. Total Saleable DU's (dwelling units) is 792 units.
6. The project proposal falls under Category-8(a) of EIA Notification, 2006 (as amended).
7. Salient features of the project as submitted by the project proponent:

Project Summary


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Sl. No.	Description	Total Quantity	Unit
General			
1	Plot Area	12,732.76	SQMT
2	Proposed Built Up Area	33,784	SQMT
3	Total no of Saleable DU's/Villas	792	No.
4	Max Height - (Height of tallest block)	32.65	M
5	No of Building Blocks (Residential + Community facilities)	2 Blocks (S+9 floor)	No.
6	Max No of Floors	S+9	No.
7	Expected Population	4158	No.
8	Total Cost of Project	131.56	Cr.
9	Project Activity	Tamil Nadu Urban Habitat Development Board (TNUHDB) has "Proposed reconstruction of high-rise residential building with 792 tenements at West Cemetery Road, S.No.1756, Block No. 25, Tondiarpet, Chennai District within the limits of Greater Chennai Corporation. The total built up of area and plot area of the proposed project is 33,784 Sq.m and 12,732.76 Sq.m respectively. Since the proposed activity constitutes construction of buildings in an area greater than 20,000 Sq. m., and less than 1,50,000 Sq.m. it requires Environmental Clearance from State Environment Impact Assessment Authority (SEIAA) under sector 8(a) of EIA Notification 2006.	


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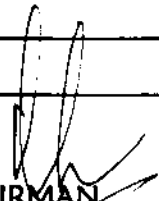

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Areas			
1	Permissible Ground Coverage Area (70%)	8,912.93	SQMT
2	Proposed Ground Coverage Area (26.53%)	3,378.44	SQMT
3	Permissible FSI Area (2.8)	35,651.72	SQMT
4	Proposed FSI Area (2.42)	30,768.54	SQMT
5	Other Non FSI Areas - including basement area etc.	3,015.46	SQMT
6	Proposed Total Built Up Area	33,784.00	SQMT
Water			
1	Total Water Requirement	538	KLD
2	Fresh water requirement	538	KLD
3	Treated Water Requirement	15	KLD
4	Wastewater Generation	484	KLD
5	Proposed Capacity of GWTP	18	KLD
6	Treated Water Available for Reuse	15	KLD
7	Treated Water Recycled	18	KLD
8	Surplus treated water to be discharged in Municipal Sewer with Prior permission	466	KLD
Rainwater Harvesting			
1	Rainwater Harvesting - Recharge Pits	2	No.
2	Rainwater Harvesting Sump Capacity	(4 No.s x 27 m ³) 108 m ³	M ³
Parking			
1	Total Parking Required as / Building Bye Laws	871	ECS
2	Proposed Total Parking	871	ECS

3	Parking in Basements	-	ECS
Green Area			
1	Proposed Green Area (Minimum 15.0% of plot area)	1923.53 (15.11%)	SQMT
2	Total plot area	12,732.76	sq.m
3	Existing trees on plot	-	
4	Number of trees to be planted	160	
5	Number of trees to be transplanted/cut	-	
Solid Waste Management			
1	Total Solid Waste Generation	2020	KG/DAY
2	Organic waste	808	KG/DAY
3	Mode of Treatment & Disposal	Disposed through GCC	
4	Quantity of Sludge Generated from STP	2.6	KG/DAY
5	Quantity of E-Waste Generation & Disposal	-	
6	Quantity of Hazardous waste Generation & Disposal	-	
Power / Green Power			
1	Total Power Requirement	TANGEDCO tuned to 2.4	MW
2	Solar Panels – Roof Coverage	-	%
3	Hot Water Requirement	-	Lit
	Of which met by Solar Panels	-	Lit
4	DG set backup	62.50 kVA	KVA
5	No of DG Sets	10	No.

Population Details


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S. No	Description	DU's	POP/DU	Total Population
1	Residential	792	5	3960
2	Total Saleable DU's	792	5	3960
3	Total	792	5	3960
4	Non-Residential	-	-	-
5	Club house (Employees etc.)	-	-	-
6	Club	-	-	-
7	Commercial	-	-	-
8	Facility Management Staff	-	-	-
9	Total			
10	Visitors	-	5% of Total population	198
11	Residential	-	95% of Total population	-
12	Club/ Community Hall	-	-	-
13	Commercial	-	-	-
14	Total Visitors	-	5% of Total population	198
15	Total Population	-	100%	4158

Details of CER Activities:

S. No	CER activity	Amount (In Lakhs)
1.	Providing tailoring Programme for woman empowerment	10
2.	Child care nursery	5


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3.	Construction of Gym	20
4.	Construction of Library	30
	Total	65

RECOMMENDATION OF THE COMMITTEE

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

Additional Conditions:

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


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

Agenda No: 431 - 12.

(File No: 10505/2023)

Proposed Construction of Temporary Walkway Project at Elliots Beach, Beasant Nagar, Urur Olcottkuppam Village, Velachery Taluk, Chennai District, Tamil Nadu by the PP M/s. Greater Chennai Corporation - For CRZ Clearance (Standalone).

(SIA/TN/INFRA2/448826/2023, dt: 26.10.2023)

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


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1. The CRZ Clearance (Standalone) is sought for the Construction of Temporary Walkway Project at Elliots Beach, Beasant Nagar, Urur Olcottkuppam Village, Velachery Taluk, Chennai District, Tamil Nadu by the PP M/s. Greater Chennai Corporation.
2. M/s Eco Services India Private Limited is the EIA Consultant for the project.
3. Total area of construction is proposed as 532 Sq.m. The walkway is proposed for the total length of 190 m and having width of 2.8 m.
4. The project activity falls under CRZ IA and CRZ II.
5. The project proponent has obtained the recommendation from Tamil Nadu State Coastal Zone Management Authority (TNSCZMA) vide Letter No. P1/1435/2022, Dated 26.11.2022.
6. The temporary walkway is proposed as wooden structure with construction materials like babool wood, red meranti wood & Brazilian IPE wood for flooring.
7. The project proposal falls under Standalone CRZ Clearance Category under CRZ Notification, 2011.
8. MoEF&CC, GOI, IA-III Section (CRZ) Office Memorandum vide F.No.IA3-12/1/2022-IA.III Dt:26.04.2022 procedure for clearance of permissible activities as per the CRZ notification, 2011.
9. Salient features of the project as submitted by the project proponent:

PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	660	SQMT
2	Proposed Built Up Area	532	SQMT
3	Total no of Saleable DU's/Villas	-	No.
4	Max Height - (Height of tallest block)	-	M
5	No of Building Blocks (Residential + Community facilities)	-	
6	Max No of Floors	-	No.


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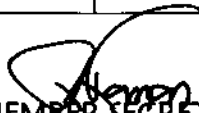
7	Expected Population	50	No./day
8	Total Cost of Project	1	CR
9	Project Activity	Construction of Temporary Walkway for the differently abled persons	
AREAS			
10	Permissible Ground Coverage Area	660	SQMT
11	Proposed Ground Coverage Area	532	SQMT
12	Permissible FSI Area (xxx)	-	SQMT
13	Proposed FSI Area	-	SQMT
14	Other Non FSI Areas - including basement area etc.	-	SQMT
15	Proposed Total Built Up Area	532	SQMT
WATER			




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16	Total Water Requirement	Water will be sourced from the existing drinking water kiosk	KLD
17	Fresh water requirement	-	KLD
18	Treated Water Requirement	-	KLD
19	Wastewater Generation	Sanitation facilities will be provided through existing E-toilets	KLD
20	Proposed Capacity of STP	-	KLD
21	Treated Water Available for Reuse	-	KLD
22	Treated Water Recycled	-	KLD
23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	-	KLD
RAINWATER HARVESTING			
24	Rainwater Harvesting - Recharge Pits	-	No.
25	Rainwater Harvesting Sump Capacity	-	M ³
PARKING			
25	Total Parking Required as / Building Bye Laws	Existing Parking Facilities will be utilized for the differently abled persons. Designated slots for the differently abled persons will be	ECS


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		earmarked.	
26	Proposed Total Parking	-	ECS
27	Parking in Basements	-	ECS
GREEN AREA			
28	Proposed Green Area (Minimum 15.0% of plot area)	-	SQMT
	Total area	-	
	Existing trees on plot	-	
	Number of trees to be planted	-	
	Number of trees to be transplanted/cut	-	
SOLID WASTE MANAGEMENT			
29	Total Solid Waste Generation	The solid waste generated from the proposed activity will be disposed through GCC team / contract workers.	TPD
30	Organic waste	-	TPD
31	Mode of Treatment & Disposal	-	TPD
32	Quantity of Sludge Generated from STP & Disposal	-	KG/DAY
33	Quantity of E-Waste Generation & Disposal	-	KG/DAY
34	Quantity of Hazardous waste Generation & Disposal	-	LPD
POWER / GREEN POWER			
34	Total Power Requirement	-	KW


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35	DG set backup	-	KVA
36	No of DG Sets	-	No.
37	Solar Panels – Roof Coverage	-	%
38	Hot Water Requirement	-	
	Of which met by Solar Panels	-	

Population details:

POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION
Total Saleable Du's	-	-	-
Total	-	-	-
Non-Residential	-	-	-
CLUB house (Employees etc.)	Area	-	-
Club	-	-	-
Commercial	-	-	-
Facility Management Staff	-	-	-
Total	-	-	-
Visitors	50	-	50
Residential	-	-	-
Club/Community Hall	-	-	-
Commercial	-	-	-
Total Visitors	50	-	50
Total Population	50	-	50

RECOMMENDATION OF THE SEAC:

Based on the presentation and documents furnished by the project proponent and after detailed deliberations held the SEAC decided to recommended the project for CRZ clearance subject to the following conditions:


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- (i) No construction material shall be dumped CRZ area.
- (ii) No concrete structures shall be allowed in CRZ areas and the walkway shall be of temporary nature and the materials for construction shall comprise of wood materials as committed.
- (iii) Any physical temporary infrastructure setup for construction purpose of the walkways shall be removed simultaneously with completion of laying of each segment of the project.

Agenda No: 431-13

(File No: 9898/2023)

Proposed Development of Special Economic Zone (SEZ) at Kallakurichi District over an extent of 77.095 Ha (190.42 Acres) at Survey No: 213/2, 213/3 & 213/4 of A. Sathanur Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu by M/s. State Industries Promotion Corporation of Tamil Nadu Limited - For Environmental Clearance. (SIA/TN/INFRA2/451103/2023 Dated: 02.11.2023).

The proposal was placed in the 431st Meeting of SEAC held on 15.12.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project M/s. State Industries Promotion Corporation of Tamil Nadu Limited has applied for Environmental Clearance for the Proposed Development of Special Economic Zone (SEZ) at Kallakurichi District over an extent of 77.095 Ha (190.42 Acres) at Survey No: 213/2, 213/3 & 213/4 of A.Sathanur Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu.
 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.
- Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -

1. **The Environmental Clearance is sought for "Proposed Development of Special Economic Zone (SEZ) at Kallakurichi District [Land Area – 77.095 Ha. (190.42 Acres)]" by M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT).**


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2. M/s. Hubert Enviro Care Systems Pvt Ltd is the EIA Consultant for the project.
3. Total plot area of the project is **190.42 acres (77.095 Ha)** in which total developable area is **190.42 acres (77.095 Ha)** respectively.
4. Maximum number of floors in the project will be **3 (in Dormitory)** and maximum height of the building will be **18.2 m** since it is **development of SEZ**.
5. The total developable area is **190.42 Acres (77.095 Ha)** which includes SEZ industrial plots (**20units**), Dormitory, Other Common facilities, Greenbelt, SWM, Road, Storm Water Drain, OSR and such other infrastructure facilities.
6. Salient features of the project as submitted by the project proponent:


PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	190.42 acres (77.095 Ha)	Acres (Ha)
2	Proposed Built Up Area	It is infrastructure development project	SQMT
3	Total no of Saleable DU's/Villas	Not applicable Total developable area is 190.42 Acres (77.095 Ha) which includes SEZ industrial plots (20units), Dormitory, Other Common facilities, Greenbelt, SWM, Road, Storm Water Drain, OSR and such other infrastructure facilities.	No.
4	Max Height – (Height of tallest block)	18.2	M


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5	No of Building Blocks (Residential + Community facilities)	Based on Individual Units 4 tower (in dormitory)	No.
6	Max No of Floors	SEZ - Based on Individual Units 3 No.s for dormitory	No.
7	Expected Population	Construction phase - 100 Nos. Operation phase - 23000 Nos (including 100Nos for Dormitory during operation phase)	No.
8	Total Cost of Project	2302	CR
9	Project Activity:	Proposed Development of Special Economic Zone (SEZ) at Kallakurichi District [Land Area – 77.095 Ha. (190.42 Acres)]” by M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT)	
AREAS			
10	Permissible Ground Coverage Area (xx%)	-	SQMT
11	Proposed Ground Coverage Area (xx%)	-	SQMT
12	Permissible FSI Area (xxx)	-	
13	Proposed FSI Area	-	
14	Other Non FSI Areas - including basement area etc.	-	
15	Proposed Total Built Up Area	-	SQMT
WATER			


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16	Total Water Requirement	2373	KLD
17	Fresh water requirement	1144.7	KLD
18	Treated Water Requirement	1228.3	KLD
19	Wastewater Generation	1228.40 (Sewage-1080.40 & Effluent-148)	KLD
20	Proposed Capacity of STP & ETP	CSTP-1200 CETP-160	KLD
21	Treated Water Available for Reuse	1228.3	KLD
22	Treated Water Recycled		KLD
23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	Nil	KLD
RAINWATER HARVESTING			
24	Rainwater Harvesting - Recharge Pits	-	No.
25	Rainwater Harvesting Sump Capacity	Pond: 19376.28 M ³ Tank: 2430 KL	M ³
PARKING			
25	Total Parking Required as / Building Bye Laws	Will be provided by Individual unit within the plot as per norms Statement mentioned in EIA: As per DTCP norms, Adequate parking.	ECS
26	Proposed Total Parking		ECS


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		facility is provided within SEZ for parking of Bus (168 nos.), Trucks (20nos.) and Bike (960 nos.).	
27	Parking in Basements	Nil	
GREEN AREA			
28	Proposed Green Area (Minimum 15.0% of plot area)	Overall GB 63.19 acres (25.58 Ha)	Acres (Ha)
	Total area	190.42 Acres (77.095 Ha) – Developable area	Acres (Ha)
	Existing trees on plot	48	Nos
	Number of trees to be planted	38370	Nos
	Number of trees to be transplanted/cut	18 (Cut)	Nos
SOLID WASTE MANAGEMENT			
29	Total Solid Waste Generation	11.123	TPD
30	Organic waste	6.983	TPD
31	Mode of Treatment & Disposal	For SEZ: Individual industries will segregate the waste and organic waste will be composted and used as manure or be collected and sold to TNPCB authorized recyclers/ vendors.	TPD


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		For Dormitory: Organic wastes will be composted in Organic Waste Converter and the compost will be used as manure for green belt development or it will be collected and sold to TNPCB authorized recyclers/ vendors'			
32	Quantity of Sludge Generated from STP & Disposal	120 kg/day sludge from STP will be used as manure			KG/DAY
33	Quantity of E-Waste Generation & Disposal	Approximate E-waste (used PC, equipment, sensor, controller, etc.,) generated from the proposed project is ~1.4 Ton/Year. 82 sq.m area will be earmarked for e-waste storage. The same will be disposed through TNPCB Authorized E-waste Vendor by Individual units as per E-waste Management Rules 2016			KG/DAY
34	Quantity of Hazardous waste Generation & Disposal	Hazardous waste schedule & type	Quantity	Method of Disposal	LPD
		5.1 - Used /Spent Oil	9.5KL/A	Will be sent to TNPCB authorized recyclers/ vendors	


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		33.1-Empty barrels/containers/liners contaminated with hazardous chemicals/wastes	280 Kg/day	Will be sent to TNPCB authorized recyclers/vendors
		35.3 Chemical Sludge from waste water treatment (TPA)	505Kg/day	Generation, Collection, Storage, Disposal through Authorized TSDF
		20.2 Spent solvents	468 Kg/day	Will be sent to TNPCB authorized recyclers/vendors
		33.2 Contaminated cotton rags or other cleaning materials	690 Kg/day	Will be sent to TNPCB authorized


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				recyclers/ vendors	
		12.1 Acidic and alkaline residues	138kg/d ay	Will be sent to TNPCB authorize d recyclers/ vendors	
POWER / GREEN POWER					
34	Total Power Requirement	20			MVA
35	DG set backup	Individual industries will have their own power back up:			KVA
36	No of DG Sets	<ul style="list-style-type: none"> • 1x250 kVA DGs will act as power back up for Dormitory facilities. • SIPCOT will not propose any power back up for other common facilities. 			No.
37	Solar Panels – Roof Coverage	SIPCOT may insist the individual industries to commit that their renewable energy will account for no less than 35% of the total energy utilization rate by 2030, and it is expected to be fully operational by 2030. Renewable energy will be a combination of RTS (Rooftop Solar), REC (Renewable Energy Certificate) and DPPA (Direct Power Purchase			%


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		Agreement), etc., depending on the feasibility study for each solution. The individual industries may utilize Renewable Energy (Solar, DPPA, REC...) for illumination of common area like Street lighting, etc., as per the regulatory norms	
38	Hot Water Requirement	-	-
	Of which met by Solar Panels	-	-

Population details:

POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION
Total Saleable Du's			
Total	-	-	-
Non-Residential			
CLUB house (Employees etc.)	Area		
Club/ Industrial Employees	23000 Nos (including 100Nos for Dormitory during operation phase)	-	23000 Nos (including 100Nos for Dormitory during operation phase)
Commercial	-	-	-
Facility Management Staff	-	-	-
Total	23000	-	23000


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Visitors	-	-	-
Residential	-	-	-
Club/Community Hall	-	-	-
Commercial	-	-	-
Total Visitors	-	-	-
Total Population	23000	-	23000
EMP Cost	Capital Cost- Rs. 120.668 Crores Recurring cost- Rs. 54 Lakhs/annum		
CER Cost	Rs. 5 crores The PP shall spend the amount as committed, for the Govt. Schools including Tribal Schools towards (i) Tree plantation, (ii) Library, books, in addition to that the amount shall be spent for Public Health Centre for tree plantation, small play area for children etc., Action plan- Within 12 months from the date of issue of EC.		

RECOMMENDATION OF THE COMMITTEE

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

Additional Conditions:

1. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.


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


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11. Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned authority.
12. The project proponent shall provide a measuring device for monitoring the various sources of water supply namely fresh water, treated waste water and harvested rain water.
13. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.

Agenda No: 431-14

(File No: 10541/2023)

Proposed Expansion of New Multi-storeyed 'C' Type Quarters at S.F.No. Block No.27- T.S No: 6,7,8 of Todhunter Nagar Village, Saidapet Taluk, Chennai District, Tamil Nadu by M/s. Public Works Department for Environmental Clearance.

(SIA/TN/INFRA2/451838/2023 dated: 10.11.2023).

The proposal was placed in the 431st Meeting of SEAC held on 15.12.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Public Works Department has applied for Environmental Clearance for the Proposed expansion of New multi-storeyed 'C' Type Quarters at S.F.No. Block No.27- T.S No: 6,7,8 of Todhunter Nagar Village, Saidapet Taluk, Chennai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was accorded to the proponent M/s. Public Works Department vide Lr.No.SEIAA-TN/F.No.9866/EC/1(a)/939/2022 dated.06.06.2022 for the Proposed construction of New Multistoried 'C' Type Quarters at S.F.No. Block No.27- T.S No: 6,7,8 of Todhunter Nagar Village, Saidapet Taluk, Chennai District, Tamil Nadu with Built up area of 21,281 Sq.m.


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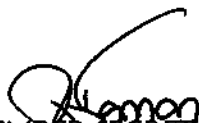

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Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -

The Environmental Clearance is sought for "Construction of New Multistoried "C" Type Quarters (190 Nos) at Todhunter Nagar, Saidapet, Chennai-15" PHASE 2 by M/s. PUBLIC WORKS DEPARTMENT, SAIDAPET

7. M/s. Hubert Enviro Care Systems Pvt Ltd is the EIA Consultant for the project.
8. Total plot area of the project is 7001.06 Sq.m
9. Maximum number of floors in the project will be **18** nos and maximum height of the building will be **60.5 m**
10. Total Saleable DU's (dwelling units) is **190 Nos**. The total developable area is 7001.06 Sq.m Common amenities, Industrial dormitory, Commercial activities, greenbelt, SWM, Road, Storm water drain and OSR.
11. Salient features of the project as submitted by the project proponent:

PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	7001.06	Sq.m
2	Proposed Built Up Area	42,562	SQMT
3	Total no of Saleable DU's/Villas	190	No.
4	Max Height – (Height of tallest block)	60.5	M
5	No of Building Blocks (Residential + Community facilities)	2	No.
6	Max No of Floors	19	No.
7	Expected Population	Construction phase - 100Nos. Operation phase – 1600 Nos	No.


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8	Total Cost of Project	102,80,44,302/-	(lakhs)INR
9	Project Activity:	Construction of New Multistoried "C" Type Quarters at Survey No. Block No. 27 – T.S No.: 6,7,8 at Todhunter Nagar, Saidapet Taluk, Chennai District, Tamil Nadu State.	
AREAS			
10	Permissible Ground Coverage Area (xx%)	-	SQMT
11	Proposed Ground Coverage Area (xx%)	2684	SQMT
12	Permissible FSI Area (xxx)	-	
13	Proposed FSI Area	-	
14	Other Non FSI Areas - including basement area etc.	-	
15	Proposed Total Built Up Area	42,562	SQMT
WATER			
16	Total Water Requirement	270	KLD
17	Fresh water requirement	139.2	KLD
18	Treated Water Requirement	194.88	KLD
19	Wastewater Generation	194.88	KLD
20	Proposed Capacity of STP & ETP	STP-500	KLD
21	Treated Water Available for Reuse	130.8	KLD
22	Treated Water Recycled		194.88
23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	64.08	KLD


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		Will be supplied to CMWSSB	
RAINWATER HARVESTING			
24	Rainwater Harvesting - Recharge Pits	63	No.
25	Rainwater Harvesting Sump Capacity	-	M ³
PARKING			
25	Total Parking Required as / Building Bye Laws	Car parking – 214 Nos Two-wheeler parking -146 nos	ECS
26	Proposed Total Parking	Car parking – 214 Nos Two-wheeler parking -146 nos	ECS
27	Parking in Basements	Nil	
GREEN AREA			
28	Proposed Green Area (Minimum 15.0% of plot area)	GB – 1050.2 Sq.m (15%) OSR – 700.2 Sq.m (10%) Total – 1750.4 Sq.m (25%)	Sqm
	Total area	3024	Sqm
	Existing trees on plot	-	Nos
	Number of trees to be planted	1100	Nos
	Number of trees to be transplanted/cut	-	Nos


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SOLID WASTE MANAGEMENT			
29	Total Solid Waste Generation	0.96	TPD
30	Organic waste	0.57	TPD
31	Mode of Treatment & Disposal	BIN	
32	Quantity of Sludge Generated from STP & Disposal	0.6	KG/DAY
33	Quantity of E-Waste Generation & Disposal	-	KG/DAY
34	Quantity of Hazardous waste Generation & Disposal	-	LPD
POWER / GREEN POWER			
34	Total Power Requirement	2	MVA
35	DG set backup	2 X125	KVA
36	No of DG Sets	2	No.
37	Solar Panels – Roof Coverage	50	%
38	Hot Water Requirement	-	-
	Of which met by Solar Panels	-	-

Population details:


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POPULATION				
Residential		DU'S	POP/DU	TOTAL POPULATION
Total Saleable Du's				
Total		-	-	-
Non-Residential				
CLUB house (Employees etc.)	Area			
Club/ Industrial Employees	-	-	-	-
Commercial	-	-	-	-
Facility Management Staff	-	-	-	-
Total		-		
Visitors	-	-	-	-
Residential	1520	-	-	-
Club/Community Hall	-			-
Commercial	-	-	-	-
Total Visitors	80	-	-	-
Total Population	1600	-		
EMP Cost	Capital Cost-448 Lakhs Recurring Cost-44.8 Lakhs/annum			
CER Cost	200 Lakhs			
Details of CER Activities	The PP shall spend the amount as committed, for the Model school towards (i) Modernization, (ii) Library with books, (iii) Auditorium,			


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(iv) Repainting & flooring.

Action plan - Within 12 months from the date of issue of EC

RECOMMENDATION OF THE COMMITTEE

The Committee discussed the matter and recommended grant of environmental clearance for the proposed expansion activity subject to all the conditions stipulated in the EC issued vide Lr. No. Letter No. SEIAA-TN/F.No.9866/EC/1(a)/939/2022 dated.06.06.2022 in addition to following conditions

Additional Conditions:

1. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
2. The PP shall submit the commitment letter from the local body for supply of fresh water and disposal of waste water before obtaining EC from the SEIAA.
3. The PP shall furnish NOC from Airport authority for Height Clearance before obtaining EC from the SEIAA (H-60.5m).
4. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
5. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.


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

Agenda No: 431-15

(File No.10537/2023)

Proposed Expansion of 500 Beds to 1000 Beds for Employees State Insurance Corporation Medical College and Hospital at T.S.Nos. 295 part & 296 Part, 297 Part,


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300 Part, 301 Part, 302 Part, 303 Part, 336 Part, 337 Part, 340 Part & 341 Part III of Kodambakkam Village, Mambalam – Guindy Taluk, Chennai District, Tamil Nadu by M/s. ESIC Medical College and Hospital – For Environmental Clearance. (SIA/TN/INFRA2/451684/2023 dt.08.11.2023)

The proposal was placed for appraisal in the 431st Meeting of SEAC held on 15.12.2023. The details of the project furnished by the proponent are given in the website(parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **M/s. ESIC Medical College and Hospital** has applied for Environmental Clearance for the Proposed Expansion of 500 Beds to 1000 Beds for Employees State Insurance Corporation Medical College and Hospital at T.S.Nos. 295 part & 296 Part, 297 Part, 300 Part, 301 Part, 302 Part, 303 Part, 336 Part, 337 Part, 340 Part & 341 Part III of Kodambakkam Village, Mambalam – Guindy Taluk, Chennai District, Tamil Nadu.
2. The project/activity is covered under Category “B2” of Item 8(a) “Building & Construction Projects” of the Schedule to the EIA Notification, 2006.

During the meeting, the proponent was absent and hence the subject was not taken up for discussion. The Committee decided to defer the proposal.

Agenda No: 431-16

(File No: 9972/2023)

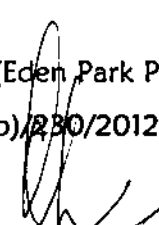
Proposed Construction of Residential Building - Phase 2 (Daffodils) at Eden Park Township at S.F.Nos. 134/2A, 135/1, 135/2, 136/1, 136/2, 136/3, 136/4, 136/5, 136/6A, 136/6B, 136/7, 138/1, 138/2B2 of Siruseri Village, Vandalur Taluk, Chengalpattu District, Tamilnadu by M/s. Pragnya South City Projects Private Limited - For Environmental Clearance. (SIA/TN/INFRA2/425367/2023, Dated: 08.04.2023)

The proposal was placed for appraisal in this 431st meeting of SEAC held on 15.12.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). **The SEAC noted the following:**

1. Earlier, the project proponent M/s. L&T South City Projects Ltd (Eden Park Phase 2) has obtained EC vide letter No. SEIAA/TN/F.509/EC/8(b)/230/2012 dt:



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07.11.2013 for the construction of residential Apartment at S.No. 90/3A1A, 3A1B(PART) of Pudupakkam village & S.No. 123, 127/1, 2, & 3, 130/1A, 1B, 10, 11, 12, 13, 14, 15B, 16, 17A1B, 17A2, 17B1, 17B2, 17B3, 18, 19, 20, 132/1A, 1B, 3, 133, 134/1A1, 1A2, 1B, 1C, 1D, 2A, 2B, 135/1, 2, 136/1, 2, 3, 4, 5, 6A, 6B, 6C, 7, 137/1, 2, 138/1, 2A, 2B1, 2B2, 3, 4, 5A, 5B, 139/2D(PART), 3, 4(PART), 5, 6, 7, 8, 9, 10, 151/3(PART), 153/1, 2A, 2B, 3, 4, 5, 6, 154/1, 2, 155/1, 2, 156/1, 2, 3, 4A, 4B, 5B, 6, 8A, 9B1A, 9B1B, 9B2, 10B, 11, 157/1(PART), 2(PART), 3(PART), 4(PART), 5(PART), 6(PART), 158/1(PART), 2(PART), 159/5(PART), 7(PART), 8(PART), 11(PART), 12(PART), 160/2A1(PART), 2A2, 2B, 3, 4, 5A, 5B, 6, 161, 162 & 163/4A(PART), 4B(PART), 5(PART), 6 of Siruseri Village, Chengalpattu Taluk, Kancheepuram District, Tamil Nadu, valid upto 06/11/2024 as per OM Dt: 13.12.2022. The project comprises of Block A (4 Towers)—2 stilts+18 floors, Block B(3 Towers)-- 1 stilts+14 floors, Block C(7 Towers)-- 2 stilts+18 floors, Block D(1 Towers)--2 stilts+14 floors, Club House- Ground +1Floor, Retail- Ground +3 floors. Total no. of dwelling units – 3544 units. Total number of occupants is 17720. The area of the plot is 181137.29 m² and the built up area is 542148 m². The parking area as per report is 142434 m² respectively and green belt area is 44515.4 m².

2. Now, the project proponent M/s. Pragnya South City Projects Private Limited has submitted the proposal for EC for Proposed Construction of Residential Building - Phase 2 (Daffodils) at Eden Park Township at S.F.Nos. 134/2A, 135/1, 135/2, 136/1, 136/2, 136/3, 136/4, 136/5, 136/6A, 136/6B, 136/7, 138/1, 138/2B2 of Siruseri Village, Vandalur Taluk, Chengalpattu District, Tamilnadu.
3. The project consists Daffodils Block [Block C2] : Stilt 1 + Stilt 2 + 18 Floors & CS6 [Car Parking Block] : Stilt 1 + Stilt 2 built up area of 48,487.64 Sq.m.


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Consent /EC description	Builtup Area - Sq.m	Item	Block-A	Block-B	Block-C	Block-D & Club House & Retail	
EC SEIAA/TN/F.509/EC/ 8(b)/230/2012 dt: 07.11.2013	5,42,148	Each Tower built up area (A)	33700	17117	44600	43797	
		No of Tower (B)	4	3	7	1	
		Blockwise Built up area (AxB)	134800	51351	312200	43797	
		Total Built up area as per EC	5,42,148				
Constructed as per Consent order vide: 2304213002748 dt:18.01.2023	1,56,469	Tower constructed	Block-A1	Block-B1	Block-C1	Block-C7	Club house, Podium and Other
		Blockwise Built up area	33700	17117	44600	44600	16452
		Total Built up area as per Consent	1,56,469				
Proposed EC for Phase 2 (Daffodils) Tower ~ in 2023	48,487.64	Blockwise Built up area (A)			44600	3618.08	
		CS-6 (Car Parking Blocks)				3618.08	

4. The PP also reported that Due to Covid-19 and poor market status, 2013 EC was not fully executed and now they are applying separate EC for Each block as a Market strategy and EC SEIAA/TN/F.509/EC/8(b)/230/2012 dt: 07.11.2013 validity also got expired. So, same was surrendered to TNSEIAA on 13.02.2023.
5. Earlier, the proposal was placed in the 385th SEAC Meeting held on 22.06.2023. Based on the presentation and documents furnished by the PP, the SEAC observed that the the earlier EC will be valid till 6.11.2024. The MOEF&CC has issued OM No. F. No. IA3-22/10/2022-IA.III [E 177258] Dated: 29.03.2022 and prescribed the procedure to be followed by the PP while surrendering the prior EC accorded by the MOEF&CC/SEIAA for developmental projects.
- Therefore, SEAC decided to defer the proposal and instructed the PP to comply with the above said OM.
7. In this connection, the project proponent M/s. L & T South City Projects Limited vide Lr. Dt: 03.07.2023 has requested for partial EC surrender of said Environmental Clearance obtained vide SEIAA/TN Lr. Dt:07.11.2013 through offline (since online portal for provision of Form-11 is under development as


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informed by PP) along with mandatory documents as per MOEF&CC has issued OM No. F.No. 1A3-22/10/2022-1A.III (E 177258) Dt. 29.3.2022. In view of the above, this proposal was placed in the 636th Authority meeting held on 10.07.2023. The Authority after detailed discussion decided to forward the said application seeking partial EC surrender to SEAC for further course of action.

This proposal regarding partial EC surrender was placed in this 404th meeting of SEAC held on 25.08.2023. Based on the presentation and the documents furnished. The SEAC noted that this proposal request for partial EC surrender of the Environmental Clearance Dt:07.11.2013 was filed offline stating that there is no option for online submission in Parivesh portal. In this regard, SEAC noted that MoEF&CC O.M Dt: 23.02.2021 has directed SEIAA strictly process files/applications through Parivesh portal only. In view of the above, SEAC has decided not to consider this offline request of the project proponent. **Subsequently, the proposal was placed in 655th Authority Meeting held on 19.09.2023.** The Authority noted that the subject was appraised in the 404th SEAC meeting held on 25.08.2023 and SEAC has decided not to consider this offline request of the project proponent. The Authority after detailed discussion decided unanimously to accept the remarks and decision of SEAC. Hence, this proposal seeking partial EC surrender of the Environmental Clearance Dt:07.11.2013 vide offline cannot be considered and the file is hereby closed and recorded.

8. Now the project proponent M/s. L & T South City Projects Limited has filed application seeking name change due to management change vide online proposal no. SIA/TN/MIS/303928/2023 Dt: 05.09.2023 (Form-7) for the earlier EC obtained vide Ir. No. SEIAA/TN/F.509/EC/8(b)/230/2012 Dt:07.11.2013 from M/s. L & T South City Projects Limited to M/s. Pragnya South City Projects Private Limited. In this connection, this proposal was placed in the 663rd Authority meeting held on 18.10.2023. The Authority noted that the PP has requested for name change vide online proposal No. SIA/TN/MIS/303928/2023, dt: 05.09.2023 from M/s. L & T South City Projects Limited to M/s. Pragnya South City Projects Private Limited. Also, it was noted that the validity of EC expired on


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06.11.2021 as per MoEF&CC O.M notification vide F. No. 22-27/2015-IA-III Dt:12.04.2016 & notification vide S.O. 221(E) Dt:18.01.2021. In view of the MoEF&CC Notification Dt: 12.04.2022 & MoEF&CC O.M 13.12.2022, the Authority after detailed discussion has decided to forward the proposal to SEAC for further course of action.

This proposal was placed in 423rd SEAC meeting held on 15.11.2023. Based on the presentation and documents furnished by the project proponent, the SEAC noted that the validity of the earlier EC issued Dt: 07.11.2013 has already expired on 06.11.2021 and the PP request for transfer EC does not fall within validity of earlier EC issued. Hence, the SEAC has decided that project proponent request for transfer EC is not recommended.

However, PP informed the Committee that he has already filed a separate application for EC in PARIVESH portal vide No. **SIA/TN/INFRA2/425367/2023 Dt: 08.04.2023 (Offline No. 9972)** and requested the Committee that since the earlier issued EC in the name of **M/s L&T South City Projects Ltd (Eden Park Phase 2)** (offline no. 509) has expired, the above-mentioned fresh EC proposal (offline no. 9972) in the name of **M/s. Pragnya South City Projects Private Limited** may be considered. Hence, Committee decided that as requested by the PP, no further action needed to be taken in the present proposal and PP's fresh EC proposal will be taken up for appraisal as per the seniority.

The subject was placed in the 678th authority meeting held on 11.12.2023 & 12.12.2023. The authority noted that the subject was appraised in the 423rd SEAC meeting held on 15.11.2023. The Authority accepted the decision of SEAC and decided to request Member Secretary, SEIAA to communicate the minutes of 423rd SEAC meeting to the project proponent.

9. The proposal was again placed in the 429th SEAC meeting held on 13.12.2023. The consultant vide email dated 13.12.2023 requested to postpone the meeting. Hence, committee decided to take it up in the ensuing meeting.

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


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1. The Environmental Clearance is sought for "Proposed construction of Residential building - Phase 2 at Eden Park Township with Built up area of 48,487.64 Sq.m [Land Area – 4.84 Ha. (11.96 Acres)]" by M/s. Pragnya South City Projects.
2. M/s. Hubert Enviro Care Systems Pvt Ltd is the EIA Consultant for the project.
3. Total plot area of the project is 11.96 acres (4.84 Ha).
4. Maximum number of floors in the project will be 18 nos and maximum height of the building will be 59.91 m
5. Total Saleable DU's (dwelling units) is 288. The total developable area is 11.96 Acres (4.84 Ha). Common amenities, Industrial dormitory, Commercial activities, greenbelt, SWM, Road, Storm water drain and OSR.
6. Salient features of the project as submitted by the project proponent:


PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	11.96 acres (4.84 Ha)	Acres (Ha)
2	Proposed Built Up Area	48,487.64	SQMT
3	Total no of Saleable DU's/Villas	Not applicable Total developable area is 11.96 Acres (4.84 Ha) Common amenities, Industrial dormitory, Commercial activities, greenbelt, SWM, Road, Storm water drain and OSR.	No.
4	Max Height – (Height of tallest block)	59.91	M


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5	No of Building Blocks (Residential + Community facilities)	Daffodils Block – 1 Block Car parking – 1 Block	No.
6	Max No of Floors	18	No.
7	Expected Population	Construction phase - 120 Nos. Operation phase - 1540 Nos	No.
8	Total Cost of Project	70.52	CR
9	Project Activity:	"Proposed construction of Residential Township - Phase 2 at Eden Park Township with Built up area of 48,487.64 Sq.m"	
AREAS			
10	Permissible Ground Coverage Area (xx%)	-	SQMT
11	Proposed Ground Coverage Area (xx%)	5715	SQMT
12	Permissible FSI Area (xxx)	-	
13	Proposed FSI Area	-	
14	Other Non FSI Areas - including basement area etc.	-	
15	Proposed Total Built Up Area	48,487.64	SQMT
WATER			
16	Total Water Requirement	203	KLD
17	Fresh water requirement	131	KLD
18	Treated Water Requirement	67	KLD
19	Wastewater Generation	175	KLD
20	Proposed Capacity of STP & ETP	STP-200	KLD
21	Treated Water Available for Reuse	72	KLD
22	Treated Water Recycled	(for Greenbelt, flushing)	KLD


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23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	Avenue plantation Siruseri Panchayat 106 KLD	KLD
RAINWATER HARVESTING			
24	Rainwater Harvesting - Recharge Pits	12	No.
25	Rainwater Harvesting Sump Capacity	8.83	M ³
PARKING			
25	Total Parking Required as / Building Bye Laws	Car parking – 238 Nos Two wheeler parking -159 nos	ECS
26	Proposed Total Parking	Car parking – 324 Nos Two wheeler parking -170 nos	ECS
27	Parking in Basements	Nil	
GREEN AREA			
28	Proposed Green Area (Minimum 15.0% of plot area)	0.306 (0.1240)	Acres (Ha)
	Total area	1.86 (0.75)	Acres (Ha)
	Existing trees on plot	-	Nos
	Number of trees to be planted	500	Nos
	Number of trees to be transplanted/cut	-	Nos
SOLID WASTE MANAGEMENT			
29	Total Solid Waste Generation	693	TPD


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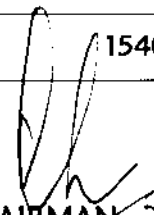
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30	Organic waste	415.8	TPD
31	Mode of Treatment & Disposal	Organic Waste Converter	
32	Quantity of Sludge Generated from STP & Disposal	0.6	KG/DAY
33	Quantity of E-Waste Generation & Disposal	-	KG/DAY
34	Quantity of Hazardous waste Generation & Disposal	6000	LPD
POWER / GREEN POWER			
34	Total Power Requirement	2.5	MVA
35	DG set backup	500	KVA
36	No of DG Sets	1	No.
37	Solar Panels – Roof Coverage	50	%
38	Hot Water Requirement	-	-
	Of which met by Solar Panels	-	-

Population details:

POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION
Total Saleable Du's			
Total	288	5	1540


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Non Residential			
CLUB house (Employees etc.)	Area		
Club/ Industrial Employees	-	-	-
Commercial	-	-	-
Facility Management Staff	-	-	-
Total		-	
Visitors	-	-	-
Residential	-	1540	-
Club/Community Hall	-		-
Commercial	-	-	-
Total Visitors	-	-	-
Total Population	1540	-	1540
EMP Cost	76.5 Lakhs		
CER Cost	1.41 Cr		

RECOMMENDATION OF THE COMMITTEE

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

Additional Conditions:

1. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
2. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
3. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed. The PP shall


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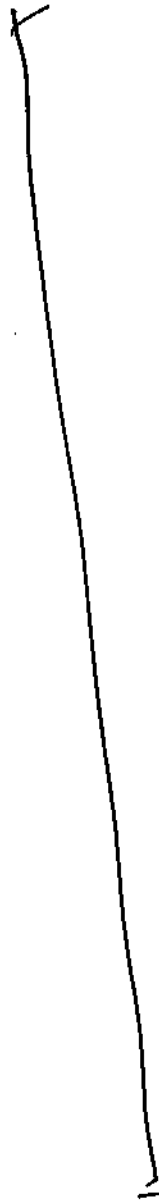

construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.

4. Project proponent is advised to explore the possibility and getting the cement in a closed container rather through the plastic bag to prevent dust emissions at the time of loading/unloading.
5. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
6. The proponent should provide the sufficient electric vehicle charging points as per the requirements at ground level and allocate the safe and suitable place in the premises for the same.
7. The project proponent should develop green belt in the township as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms.
8. Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
9. Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF Lko/Director of Environment and other concerning authority regularly.
10. Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned authority.


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11. The project proponent shall provide a measuring device for monitoring the various sources of water supply namely fresh water, treated waste water and harvested rain water.
12. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.




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ANNEXURE-I

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

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


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


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GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS

1. The proponent shall mandatorily appoint the statutory competent persons and commence the quarry operations within the purview of Mines Act 1952.
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
4. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short-Term Permit (STP), Query license or any other name.
5. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals.
6. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly.
7. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
8. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics.


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9. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
10. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
11. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
12. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
13. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.

15. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
16. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
17. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
18. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
19. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
20. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
21. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.


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

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


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ROUGH STONE/JELLY/BLUE METAL QUARRY

- 1) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 2) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 3) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 4) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry including all the contractual employees/truck drivers shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy / Salem / Hosur.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) The proponent shall install the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.


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- 8) The Proponent shall submit a conceptual 'Slope Stability Action Plan' incorporating the benches & accessible haul road approved by the concerned AD (Mines) for the proposed quarry to the DEE/TNPCB at the time of obtaining the CTO.
- 9) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are undergoing the initial/periodical medical examination in the DGMS approved OHS Clinics/Hospitals as per the DGMS Circular No. 01 of 2011 before they are engaged in mining activities.
- 10) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are provided with adequate PPEs before engaged in mining operations.
- 11) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 12) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 13) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 14) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 15) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 16) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.

- 17) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 18) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 19) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 20) Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
- 21) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 22) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the


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houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.

23) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.

24) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.

25) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.

26) The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.

27) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.

28) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.

29) The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.

- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 32) To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 33) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 36) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.


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

38) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

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

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

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


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

Sl. No	Existing (or) Virgin Quarry	
	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m Up to 500 m
1.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.
2.	Special precautions are to be taken during blasting within danger zone such as posting guards, etc.	Blast design parameters should be mentioned in mining plan/scheme. and may be reviewed by a competent mining engineer.
3.	Blast design parameters should be mentioned in mining plan/scheme.	MCPD and total charge should be fixed such that it should not exceed 1.3 kg and 26.50 kg respectively.
4.	The recommendations of scientific organisation need to be incorporated in the mining plan/scheme before its approval.	Fresh scientific study may be conducted if mine management wants to increase the MCPD and total explosive charge above the quantity of 1.30 kg and 26.50 kg respectively. Continuous monitoring using seismograph should also be done in such cases by the mine management.
5.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.
6.	Training of the blasting crew on controlled blasting practices before engaged in operation.	Training of the blasting crew on controlled blasting practices before engaged in operation.


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7.	Submission of monthly report on blast design pattern and detailed explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, PESO or SPCB.	Submission of monthly report on blast design pattern and detailed explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, SPCB. Report of recorded ground vibration need to be added in monthly report.
8.	Report of recorded ground vibration need to be added in monthly report which shall be sent to all the statutory body viz. DGMS, DMG, SPCB.	Report of recorded ground vibration need to be added in monthly report which shall be sent to all the statutory body viz. DGMS, DMG, SPCB.
9.	Small diameter emulsion cartridge of 25 mm diameter (125 gm weight per cartridge) shall be used. However, ANFO explosives may also be used as main explosive charge.	Small diameter emulsion cartridge of 25 mm diameter (125 gm weight per cartridge) shall be used. However, ANFO explosives may also be used as main explosive charge.
10.	Electronic (or) Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.	Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.
11.	Max. number of holes in a round: 30.	Max. number of holes in a round: 40 to 60.


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


1. In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following:
 - (i) Original pit dimension
 - (ii) Quantity achieved Vs EC Approved Quantity
 - (iii) Balance Quantity as per Mineable Reserve calculated.
 - (iv) Mined out Depth as on date Vs EC Permitted depth
 - (v) Details of illegal/illicit mining
 - (vi) Violation in the quarry during the past working.
 - (vii) Quantity of material mined out outside the mine lease area
 - (viii) Condition of Safety zone/benches
 - (ix) Revised/Modified Mining Plan showing the benches of not exceeding 6 m height and ultimate depth of not exceeding 50m.
2. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
4. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry.
5. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.


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6. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC.
8. However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.


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12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
13. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
14. Quantity of minerals mined out.
 - Highest production achieved in any one year
 - Detail of approved depth of mining.
 - Actual depth of the mining achieved earlier.
 - Name of the person already mined in that leases area.
 - If EC and CTO already obtained, the copy of the same shall be submitted.
 - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
15. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc.,
17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same.


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19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds, etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
28. Impact on local transport infrastructure due to the Project should be indicated.
29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
32. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest


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authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner

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


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

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

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


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Annexure II

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

1. Statutory Compliance:

1. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc as per National Building Code including protection measures from lightning etc.
3. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
4. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
5. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
6. The project proponent shall obtain the necessary permission for drawing of ground water / surface water required for the project from the competent authority.
7. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department and Civil Aviation


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Department shall be obtained, as applicable, by project proponents from the respective competent authorities.

9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.

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

2. Air quality monitoring and preservation:

1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.

2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.

3. The project proponent shall install a system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM25) covering upwind and downwind directions during the construction period.

4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.

5. Sand, murrum, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.

6. Wet jet shall be provided for grinding and stone cutting.


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7. Unpaved surfaces and loose soil should be adequately sprinkled with water to suppress dust.
8. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
9. The diesel generator sets to be used during construction phase shall be low Sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.
10. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
11. For indoor air quality the ventilation provisions as per National Building Code of India.

3. Water Quality Monitoring and Preservation:

1. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.
2. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
3. Total freshwater use shall not exceed the proposed requirement as provided in the project details.
4. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).

5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
6. At least 20% of the open spaces as required by the local building byelaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation car washing, thermal cooling, conditioning etc. shall be done.
8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
9. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
11. The local bye-law provisions on rainwater harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rainwater harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
12. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total freshwater requirement


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- shall be provided. In areas where ground water recharging is not feasible, the rainwater should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
13. All recharges should be limited to shallow aquifer.
 14. No ground water shall be used during construction phase of the project.
 15. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
 16. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).
 17. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, not related water shall be disposed into municipal drain.
 18. No sewage or untreated effluent water would be discharged through storm water drains.
 19. Onsite sewage treatment of capacity of treating 100% wastewater to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated wastewater shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
 20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be taken to mitigate the odor problem from STP.

21. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Centre Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

4. Noise Monitoring and Prevention:

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

5. Energy Conservation Measures:

1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
2. Outdoor and common area lighting shall be LED.
3. The proponent shall provide solar panels covering a minimum of 50% of terrace area as committed.
4. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting


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design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.

5. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
6. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building byelaws requirement, whichever is higher.
7. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building byelaws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

6. Waste Management:

1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
2. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
3. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.

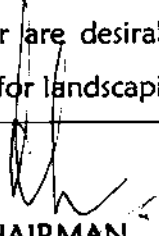
5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
6. Any hazardous waste generated during construction phase shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
7. Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.
8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September 1999 and amended from time to time. Ready mixed concrete must be used in building construction.
9. Any wastes from construction and demolition activities related thereto shall be managed to strictly conform to the Construction and Demolition Rules, 2016.
10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

7. Green Cover:

1. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
2. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.


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

8. Transport:

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

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

9. Human Health Issues:

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

10. Corporate Environment Responsibility:

1. The PP shall complete the CER activities, as committed, before obtaining CTE.


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2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of Half Yearly Compliance Report (HYCR).
3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Half Yearly Compliance Report (HYCR).

11. Miscellaneous:

1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in Tamil language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.

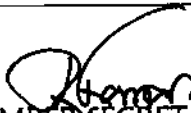

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3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4. The project proponent shall submit Half Yearly Compliance Reports (HYCR) on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
6. The project proponent shall inform the Authority (SEIAA) of the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
7. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
8. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also during their presentation to the State Expert Appraisal Committee.
9. No further expansion or modifications to the plant shall be carried out without prior approval of the Authority (SEIAA).
10. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11. The Authority (SEIAA) may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. The Authority reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.


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13. The Regional Office of the MoEF&CC Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
14. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.


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Appendix - I
List of Native Trees Suggested for Planting

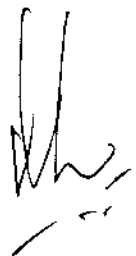
No	Scientific Name	Tamil Name	Tamil Name
1	<i>Azale marmelos</i>	Vilvam	விவம்
2	<i>Adenanthera pavonina</i>	Manjadi	மஞ்சள, ஆனைக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentos</i>	Iruvathi	இருவத்தி
8	<i>Buchanania axillaris</i>	Kattuma	கட்டும்
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkanaram	முருக்காரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Punnai	புனை
13	<i>Cassia fistula</i>	Sarakondrai	சரகண்டரை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கண்டரை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரசம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கொங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூலி
18	<i>Creteva adansoni</i>	Mavalingum	மாவலிங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sebenum</i>	Karungali	கரங்கலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகனை
23	<i>Ficus amplissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliacou</i>	Aatrupoovarasu	ஆற்றாப்பாரசு
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	விளா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிசிப்படை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனை
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனை
38	<i>Phoenix sylvestre</i>	Eachai	நச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புளம்


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40	<i>Premna mollissima</i>	Murnai	முல்லை
41	<i>Premna serratifolia</i>	Narumunai	நறு முல்லை
42	<i>Premna tomentosa</i>	Malipoovarasu	மலை யுலகை
43	<i>Prosopis cinerea</i>	Vanni maram	வள்ளி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேள்வாங்கை
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கரிபலா
48	<i>Salsodora persica</i>	Uga Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புங்கன் சோப்புக்காய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாள் கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்டி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேள் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தாள் வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	புலகை
59	<i>Walsuratrifoliata</i>	valsura	வால்குரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பாலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்புளி


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Appendix -II

Display Board

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

சாரங்கம்

செயல்பாடுகளுக்கான கற்றுத்தரல் அனுமதி கீழ்க்கண்ட நித்தானங்களுக்கு உட்பட்டு வழங்கப்படும் இவ்வழி SEAAA/____, தெலிங்காபுரம், கற்றுத்தரல் அனுமதி _____ தேதி வரை செல்லத்தக்கதாக உள்ளது.

பகலம் பகுதி வரைச்சி வெப்பாட்டுக்கான வழங்கல் திட்டம்	குவாஜிரின் எல்லைவைச் சுற்றி வேலி அமைக்க வேண்டும் செயல்பாடுகளின் ஆரம்ப நாளில் திட்டமிடும் பிட்டுக்கு மீளமை இடம் வேண்டும்.
நடப்பட்டு பிராந்தியகட்டிட வேண்டிய வழங்கல் எண்ணிக்கை:	காந்தியம் மாசு ஏற்படாதவாறு சாங்க பானிகளை வெற்றிகொள்ள வேண்டும்.
	வாசலங்கள் செல்லும் பாதையில் மாசு ஏற்படாத அளவிற்கு தண்ணீரை முறையாக தண்ணீர் வாரிகளின் மூலமாக அளவப்போது தெளிக்க வேண்டும்.
	இரைச்சல் அளவைகள் குறை மாகவட்டை உள் குறைப்பதற்கான குவாஜிரின் எல்லைவை சுற்றி அடத்திடமான பகலம் பகுதியை ஏற்படுத்த வேண்டும்.
	செய்கத்தில் வேடி அமைக்கும்பொழுது நிலஅதிர்வுகள் ஏற்படாதவாறு மற்றும் சுற்றும் சுற்றும் பரக்காதவாறு பரக்காப்பு நடவடிக்கைகளை உடனடியாக செயல்படுத்தப்பட வேண்டும்.
	செய்கத்தில் இடத்து ஏற்படும் இரைச்சல் அளவு 85 டிசிபெல்ஸ் (dBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை வெற்றிகொள்ள வேண்டும்.
	செய்க சட்ட விதிகள் 1988ன் கீழ் செய்கத்தில் உடன பானியங்களுக்கு தகுந்த பரக்காப்பு கருவிகள் வழங்குவதோடு ககதரமுள்ள கட்டுப்பாடு வசதிகளை செய்வு தர வேண்டும்.
	கிராமம் அல்லது பகுதியைத் தாண்டி வசதிகள் செய்கத்தில் சமையலை தொகுத்து தரக் பிராந்திய வேண்டும்.
	செய்கப்பானிகளை அளவில் உடன விவசாய பானிகள் மற்றும் நீர்த்திணைகள் பரத்திக்கப்படக் கூடாது.
	நீர்த்திணைகள் பரத்திக்கப்படாமல் இருப்பதை உறுதி செய்கும் வகையில் இலத்தர திட்டம் தாத்திணை தொகுத்து எண்ணிக்க வேண்டும்.
	செய்கத்திலிருந்து கனிக வெகுட்களை எடுத்துச் செல்லு சிரம மக்களுக்கு எந்தத் கிரமத்திணைகள் ஏற்படுத்தாதவாறு பரக்காப்போடும் மற்றும் கற்றுத்தரல் பரத்திக்கவாத வகைகள் வகைகளை இடக்க வேண்டும்.
	செய்கப்பானிகள் முடிக்கப்பட்டவுடன் செய்க முடல் திட்டத்தில் உடனவாறு செய்கத்திணை முட வேண்டும்.
	செய்க நடவடிக்கைகளை முடித்தபின்னர் செய்கம் பகுதி மற்றும் செய்க நடவடிக்கைகளை இடவழி ஏற்பக்கவடிவ வேறு ஏற்று பகுதியைப் பரக்கட்டுமகாரம் செய்வு தரவழங்கல் விவகர்கள் ஆகியவற்றின் வரைச்சிக்கு ஏற்ற வகையில் பகலம்பகுதியை உருவாக்க வேண்டும்.
	முழுமையான நித்தானங்களை அறிவு பாரிவேஷ (http://parivesh.tn.gov.in) என்கிற இணையதளத்தைப் பரக்காப்பிடவும். மேலும் சுற்றகிற கற்றுத்தரல் சந்தி பரக்களுக்கு செல்லவையில் உடன கற்றுத்தரல் மற்றும் வரை அமைக்கத்தின் குருக்கிணைத் திட்டம் அதாவது: 044 - 28222325 (அல்லது) தமிழ்தர மாசு கட்டுப்பாடு வாரிகளின் மாகட்ட கற்றுத்தரல் பெரிபாணை அனுமதி.

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