

State Expert Appraisal Committee (SEAC)

Minutes of 435th meeting of the State Expert Appraisal Committee (SEAC) held on 28.12.2023 (Thursday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 0115 for consideration of Building & Construction projects, Metallurgical Industries and Synthetic Organic Chemicals projects.

Confirmation of Earlier Minutes

The minutes of the 434th SEAC meeting held on 22.12.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 435 – 01.

(File No:10540/2023)

Proposed Construction of High rise building for IT / ITES at S. NO. 259/5A, 281/1, 281/2, 283/10, 283/12, 284/14, T.S.No.29/1, 29/2, 29/11,29/12, 30/10, 30/12, 31/14, 35/5, Ward No. 'D', Block No.49 of Zamin Pallavaram Village, Pallavaram Taluk, Chengalpattu District, Tamil Nadu by M/s. Casagrاند Vivacity Private Limited - For Environmental Clearance. (SIA/TN/INFRA2/450548/2023, dt:31/10/2023)

The proposal was placed for appraisal in 435th meeting of SEAC held on 28.12.2023. The details of the project furnished by the proponent are given in the website (Parivesh.nic.in).

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 Construction Project at Plot No: **259/5A, 281/1, 281/2, 283/10, 283/12, 284/14, T. S. No. 29/1, 29/2, 29/11, 29/12, 30/10, 30/12, 31/14, 35/5, Ward No. 'D', Block No.49, Zamin Pallavaram Village, Pallavaram Taluk, Chengalpattu District, Tamil Nadu By M/s. Casa Grande Vivacity Private Limited by the PP M/s Casagrاند Vivacity Private Limited.**
2. **M/s POLLUCARE ENGINEERS INDIA PRIVATE LIMITED** is the EIA Consultant for the project.


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3. Total plot area of the project is 7740m² and built-up area is 41,794 m² respectively.
4. Maximum number of floors will be 2B+10Floors and maximum height of the building will be 42 m.
5. Total Saleable DU's (dwelling units) - It is an IT/ITES Building.
6. Salient features of the project as submitted by the project proponent:

Based on the presentation and document furnished by the PP, SEAC has decided to defer seeking additional particulars.

1. The PP shall furnish PWD NOC in regard to inundation point considering the 2015 & 2023 flood level.
2. The PP shall furnish proposal for green building Norms adhering to IGBC platinum certification.
3. The PP shall furnish CMWSSB permission obtained for fresh water supply and treated sewage disposal in CMWSSB sewer line as proposed.
4. The PP shall furnish Fire NOC and Airport authority NOC, since it is a High rise building for IT/ITES.

Agenda No: 435 – 02.


(File No: 9480/2022)

Proposed Construction of Residential Building Complex at Block 0031, Old T.S. No. 3, New S.Nos.6/1, 6/2 & 6/3 Venkatapuram Village, Guindy Taluk, Chennai District, Tamil Nadu by the PP M/s DLF IT Offices Chennai Private Limited- For Environmental Clearance. (SIA/TN/INFRA2/438071/2023, Dt. 24.08.2023)

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

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 Construction of Proposed Residential Building Complex at Block 0031, Old T.S. No. 3, New S.Nos. 6/1, 6/2 & 6/3 Venkatapuram Village, Guindy Taluk, Chennai District, Tamil Nadu by the PP M/s DLF IT Offices Chennai Private Limited.


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2. M/s. Eco Services India Private Limited is the EIA Consultant for the project.
3. Total plot area of the project is 22,484 m² and built-up area is 1,61,473 m² respectively.
4. Maximum number of floors will be 3B + G + 19 and maximum height of the building will be 64.5 m.
5. Total Saleable DU's (dwelling units) is 421.
6. ToR issued vide Lr.No.SEIAA-TN/F.No.9480/SEAC/8(b)/TOR -1465/2023 datcd:02.06.202.
7. The proposal was placed for appraisal in 418th meeting of SEAC held on 19.10.2023 and SEAC recommended the proposal subject to conditions prescribed.

Subsequently, the proposal was placed in 672nd Authority meeting held on 14.11.2023. After detailed discussions, the Authority decided to refer back the proposal to SEAC and to seek additional particulars as follows.

- I. The project proponent shall furnish traffic NOC from the competent authority along report for the impact on road traffic.
- II. The project proponent shall furnish revised layout with earmarked OSR area with entry and exit for public access.

Again, the proposal was placed in 435th SEAC meeting held on 28.12.2023. The PP vide letter Dt:21.12.2023 has stated that they would not be able to attend this SEAC meeting due to prior commitment on another project on 28.12.2023 and requested to reschedule this proposal in subsequent meetings in first week January 2024. Accordingly, SEAC has decided to defer and take up the proposal in any one of the forthcoming meetings.

Agenda No: 435-03

(File No: 10499/2023)

Proposed Development of a Single Block Residential Building "OCEAN BREEZE" at S.F.Nos. 232/1B, 232/2B, 232/3B, 232/5, 232/6, 232/7, 232/9, 224/1B, 224/2A & 224/2B2 of Okkiyam -Thoraipakkam Village, Sholinganallur Taluk, Chennai District, Tamil Nadu by M/s. Ocean Life Spaces India Pvt Ltd- For Environmental Clearance


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(SIA/TN/INFRA2/449135/2023 dated: 19.10.2023).

The proposal was placed in the 435th Meeting of SEAC held on 28.12.2023. 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. Ocean Life Spaces India Pvt Ltd has applied for Environmental Clearance for the Proposed Development of a Single Block Residential Building "OCEAN BREEZE" at S.F.Nos. 232/1B, 232/2B, 232/3B, 232/5, 232/6, 232/7, 232/9, 224/1B, 224/2A & 224/2B2 of Okkiyam-Thoraipakkam Village, Sholinganallur 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.

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 Project at S.F.Nos. 232/1B, 232/2B, 232.3B, 232/5, 232/6, 232/7, 232/9, 224/1B, 224/2A, 224/2B2 at Okkiyam – Thoraipakkam Village, Sholinganallur Taluk, Chennai District, by the Proponent M/s. Ocean Life Spaces India Pvt Ltd.

1. M/s. Perfect Enviro Solutions Pvt Ltd is the EIA Consultant for the project.
2. Total plot area of the project is 8,859 m² and built-up area is 32,807 m² respectively.
3. Maximum number of floors will be Basement+Stilt+5 Floors and maximum height of the building will be 18.5 m.
4. Total Saleable DU's (dwelling units) is 164.
5. Salient features of the project as submitted by the project proponent:

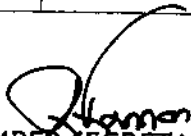
PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	8,859	m ²


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2	Proposed Built Up Area	32,807	m ²
3	Total no of Saleable DU's/Villas	164	Nos.
4	Max Height - (Height of tallest block)	18.5	m
5	No of Building Blocks (Residential + Community facilities)	1	Nos.
6	Max No of Floors	B+5+5	No.
7	Expected Population (XXX Residential + XXXX Floating)	Residential- 820+Floating-118	No.
8	Total Cost of Project	93.75	INR Cr
9	Project Activity :	Development of a single residential building.	
AREAS			
10	Permissible Ground Coverage Area (xx%)	6644.25 (75%)	m ²
11	Proposed Ground Coverage Area (xx%)	6401.74 (72.26%)	m ²
12	Permissible FSI Area (xxx)	22147.5 (2.5)	m ²
13	Proposed FSI Area	21502.1 (2.427)	m ²
14	Other Non FSI Areas - including basement area etc.	11304.9	m ²
15	Proposed Total Built Up Area	32,807	m ²
WATER			
16	Total Water Requirement	Construction Phase- 40 Operation Phase- 123	KLD
17	Fresh water requirement	Construction Phase- 40 Operation Phase- 77	KLD


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18	Treated Water Requirement	46	KLD
19	Wastewater Generation	Construction Phase-6.8 Operation Phase- 98.4	KLD
20	Proposed Capacity of STP	140	KLD
21	Treated Water Available for Reuse	90	KLD
22	Treated Water Recycled	46	KLD
	Surplus treated water to be disposed for avenue plantation with the permission of CMWSSB/Golfcourse	44	KLD
23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any (Surplus treated wastewater will be drained through Sewer lines provided by MWC which will finally be taken up for treatment in CSTP being run by MWC. Necessary approvals are obtained in this regard)	0	KLD
RAINWATER HARVESTING			
24	Rainwater Harvesting - Recharge Pits	15	No.
25	Rainwater Harvesting Sump Capacity	5	m ³
PARKING			
25	Total Parking Required as / Building Bye Laws	181	ECS
26	Proposed Total Parking	249	ECS
27	Parking in Basements	126	ECS
GREEN AREA			


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28	Proposed Green Area (Minimum 17.11% of plot area)	1515.92	m ²
	Total area	8858.94	m ²
	Existing trees on plot	0	
	Number of trees to be planted	303	Nos.
	Number of trees to be transplanted/cut	0	
SOLID WASTE MANAGEMENT			
29	Total Solid Waste Generation	51.36	TPA
30	Organic waste	30.82	TPA
31	Mode of Treatment & Disposal	Organic waste-- OWC	
32	Quantity of Sludge Generated from STP & Disposal	11	KG/DAY
33	Quantity of E-Waste Generation & Disposal	0.68	TPA
34	Quantity of Hazardous waste Generation & Disposal	0	TPA
POWER / GREEN POWER			
34	Total Power Requirement	68.02	KW
35	DG set backup	125	KVA
36	No of DG Sets	4	No.
37	Solar Panels – Roof Coverage	50 (2013.3 m ²)	%
38	Hot Water Requirement	9.84	KLD
	Of which met by Solar Panels	50% will be met by Solar	

Population details:

POPULATION			


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Residential	DU'S	POP/DU	TOTAL POPULATION
Total Saleable Du's	164	-	-
2 BHK -	20	100	-
2.5 BHK	36	180	-
3 BHK	99	495	-
4 BHK	9	45	-
Total	164	820	-
Non Residential		0	0
CLUB house (Employees etc.)	Area	0	8
Club house population	-	0	-
Commercial	-	0	-
Facility Management Staff	-	0	28
Total	-	820	36
Visitors	-	-	-
Residential	-	10% of Residential Population	82
Club/Community Hall	-	xx% of Residential Population	-
Commercial	-	-	-
Total Visitors	-	-	82
Total Population	-	-	938
EMP Cost (INR Lakhs)	Capital cost-Rs. 196 Lakhs Recurring cost-Rs. 46 Lakhs/annum		
CER Cost	Rs. 1 Crore		

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Details of CER Activities	S.no	Description	Fund Allocated
	1.	Allocation of funds towards creation of sponge park in nearby public park at Okkiyam Thoraipakkam.	Rs. 1 Crore

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. 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 proponent shall provide charging facility for e-vehicle in the two-wheeler/four-wheeler parking area.
4. The PP shall adopt Permeable pavement design to harvest rainwater and runoff by using Engineering applications/Properties.
5. 50% of the roof area should be covered with Solar panels. Provision of hot water shall be met through solar water heaters.
6. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
7. 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.
8. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).


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9. 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.
10. 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.
11. Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
12. 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.
13. 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.
14. 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.
15. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.

Agenda No. 435 - 04.

File No: 10630

Proposed Construction of Vellore Wholesale Merchants Estate at Melmonavur Village, Vellore Taluk & District, Tamil Nadu by M/s. Vellore Wholesale Merchants Estate - For Environmental Clearance. (SIA/TN/INFRA2/439038/2023 dt: 05/08/2023).

The subject was earlier placed in the 418th meeting of SEAC held on 19.10.2023 and the SEAC furnished its recommendations for the grant of Environmental Clearance to the project subject to the conditions stated therein.


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Subsequently the subject was placed in the 672nd meeting of Authority held on 14.11.2023. The Authority, after detailed discussions, decided to refer the subject to SEAC on receipt of the following additional particulars from the PP:

1. The PP shall furnish the dimensions of the individual shops to be constructed in each Block.
2. The PP shall show on the site plan, the shops/ blocks allocated for each type of the product on sale (vegetables/ fruits/groceries and so on)
3. The PP shall submit a study report on the impact of the proposed activity on the Reserve Forest located near the project site.
4. Energy profile depicting the consumption of energy for room heating, air conditioners, lighting and so on.
5. Report on anticipated carbon-dioxide and other greenhouse emissions from the proposed activity and means and methods of prevention/reduction of the impact.
6. Details of transport regulation within the market, light & heavy-duty vehicles to be handled per day and their warming potential.
7. Sanitation facilities to be provided for the vendors & public and action to decarbonise the area.
8. Technologies to be adopted to support material handling, storage, shop space and pallet space management.
9. Fire safety management, risk assessment and evacuation emergency plan shall be submitted.
10. Detailed report on anticipated quantity of perishable goods, groceries, florists, vegetable wastes and spoilage and other solid wastes' management.
11. Protection from free ranging animals, and action to be taken to prevent zoonosis.
12. Report on health care system to be provided for workers.
13. Details of workers' rest room and safety.

The PP vide letter dated 20.12.2023 has furnished the replies along with supporting documents.



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S. No.	SEIAA Query	Reply
1.	The PP shall furnish the dimensions of the individual shops to be constructed in each block	<p>There are three types of dimensions.</p> <p>Shops size</p> <p>Large size - 4.88 x 9.75 m</p> <p>Medium size - 2.75 x 4.88 m</p> <p>Small size – 2.75 x 3.65 m</p> <p>Dimensions of the individual shops of each block is shown in general layout enclosed as Annexure I.</p>
2.	The PP shall show on the site plan, the shops /blocks allocated for each type of the product on sale (Vegetables/fruits/groceries and so on)	Site plan of the shops/ blocks allocated each type of the product as shown general layout in different colour is enclosed as Annexure II.
3.	The PP shall submit a study report on the impact of the proposed activity on the reserve forest located near the project site.	<p>A brief write-up about the Reserved Forest and Fauna and Flora is enclosed as Annexure III.</p> <p>The number of trees, shrub species, herbs species and climber species are detailed. Similarly schedule I and schedule II fauna are also detailed.</p> <p>The nearest Ammundi Reserved Forest is located 1.6 km north of the proposed construction of Vellore Wholesale Merchants Estate. The Reserved Forest is Geomorphically separated by Pallar river. It is planned to provide a fence by proposed Vellore</p>


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		Wholesale Merchants Estate which will protect the Reserve Forest.
4.	Energy profile depicting the consumption of energy for room heating, air conditioners, lighting and so on.	<ol style="list-style-type: none"> 1. Air conditioners will be used for Cold storage room with the capacity of 11TR. The power requirement for the cold storage room is estimated as 396 kW per day. 2. Illumination lights will be used for shops, OSR area, road ways, MLCP and open parking area. The power requirement for the illumination is estimated to be 304.93 kW per day. 3. Energy conservation through Solar panel is 3368.95 kW.
5.	Report on anticipated carbon-dioxide and other greenhouse emissions from the proposed activity and means and methods of prevention/reduction of the impact.	<ol style="list-style-type: none"> 1. The proposed activity is building and construction for Vellore Wholesale Merchants Estate at Vellore. As manufacturing process is not involved, greenhouse emissions on continuous basis is not expected. 2. The emissions are expected from vehicle used for transportation of materials. The vehicles are controlled by Bharat Emission (BSIV) norms. <p>The calculated CO₂ emission from the vehicle are as follows</p> <p>For light vehicles:</p> <p>Presumption: The vegetables, flowers & fruits are expected to be produced within 30 km</p>



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		<p>radius. About 385 Nos. of vehicles will be engaged for transportation.</p> <p>The calculated emission from light vehicles are 1293.6 kg/day. (@ CO₂ emission 112 gm/km)</p> <p>For heavy vehicles:</p> <p>About 11 trucks/day are expected to be engaged for transportation of food grains, fertilisers, jaggre etc. These trucks are likely to operate 300 km from the Vellore Wholesale Merchants Estate Limited.</p> <p>The estimated emission from these activities are 2855.1 kg/day. (@CO₂ emission 865.2 gm/km)</p> <p>Total estimated CO₂ emission is 4148.7 kg/day.</p> <p>(i) CO₂ sequestration through green belt is 3942.39 kg/day. (1600 trees @ 0.221 to 1.433 kg/day)</p> <p>(ii) Offset from solar plant is 3262 kg/day. (3.5 MW @ 0.932 kg of CO₂ reduction per kW of power production)</p> <p>Total expected emission from the Vellore Wholesale Merchants Estate is 4148.7 kg/day.</p> <p>Total calculated off-set of CO₂ due to Vellore Wholesale Merchants Estate is 7204.39 kg/day.</p>
6.	Details of transport regulation within the market. Light and heavy-duty vehicles to be	<p>Total No. of shops – 846 shops</p> <p>No. of Vegetable, Flower & Fruit shops – 350 shops</p> <p>Light Vehicles</p>


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	<p>handled per day and their warming potential.</p>	<p>Quantity of Vegetable, Flower & Fruit in each shops to be handled per day is 750 kg/day.</p> <p>In Vegetable, Flower & Fruit shops using one truck load capacity of 1 tonne/day.</p> <p>350 Vegetable, Flower & Fruit shops handling. Total vehicle will be 385 trucks per day.</p> <p>Heavy Vehicles</p> <p>No. of other shops – 496 shops, 11 heavy trucks per day.</p> <p>Warming potential</p> <p>The average CO₂ emissions of light vehicle is 112 gm/km.</p> <p>The average CO₂ emissions of heavy vehicle is 865.2 gm/km.</p> <p>Thus, the emission expected is 4148.7 kg/km.</p>
7.	<p>Sanitation facilities to be provided for the vendors & public and action to decarbonize the area.</p>	<p>There are 41 blocks are planned for the Vellore Wholesale Merchants project. Each block will have common toilets according to the size of blocks. There are small, medium and large blocks.</p> <p>The number of the toilet will vary based on the size of the blocks. The no. of sanitation facilities are arrived based on the NBC norms. (The minimum of 2 WC, 2 urinals & 1 Physically Challenged People Bathroom (PCB) and maximum of 9 WC, 6 urinals and 1 PCB are proposed.</p> <p>In addition, common block for washroom alone is given 24 WC, 10 urinals and 4 PCB.</p>


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		The washroom maintenance will be outsourced on annual basis through tendering process.
8.	Technologies to be adopted to support material handling, storage, shop space and pallet space management.	The typology of shop is shown in general layout exhibit as Annexure IV. Each shop will have standard extended platform from the shops where the trucks can be unloaded and door can be unlocked and rested on the platform which having 1.2 m width RCC platform. The materials are unloaded manually to the shops. Each block will have 4 to 7 m wide approach road where the trucks movement are expected to reach the shops.
9.	Fire safety management, risk assessment and evacuation emergency plan shall be submitted.	Fire NOC, DBR for Fire Protection System and Fire safety management and Evacuation emergency plan attached as Annexure V, VI and VII.
10.	Detailed report on anticipated quantity of perishable goods, groceries, florists, vegetable wastes and spoilage and other solid waste management.	The expected solid waste are breakup is shown in Annexure VIII.
11.	Protection from free ranging animals and action to be taken to prevent zoonosis.	All around the Vellore Wholesale Merchants Estate Limited site will be fence/compound wall. Sensors are planned at the entrance which will prevent free ranging animals.
12.	Report on health care system to be provided for workers.	In order to protect the health of workers and visitors, a Public Health Centre is planned in the layout exhibit as Annexure IX. Necessary


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		Doctors and equipment will be provided at the PHC. In addition, here will have ATM and driver's rest room.
13.	Details of workers rest room and safety.	An area of 120 Sq.m is envisaged for workers/drivers rest room. Overall security will be provided to protect their safety are shown in general layout exhibit as Annexure X.

Hence the subject was taken for discussion in this 435th meeting of SEAC held on 26.12.2023. The SEAC carefully examined the replies furnished by the PP and decided to reiterate the recommendations already made in the 418th meeting of SEAC held on 19.10.2023.

Agenda No. 435 - 05

(File No. 9941/2023)

Proposed Expansion of Industrial shed by M/s Volumus Developers Private Limited at S.F.No.19/2A1B, 19/3, 19/4, 22/1, 22/2A1, 22/2C, 23, 24/1, 24/2, 25, 26, 27/1, 27/2, 27/3A, 27/3B, 27/4, 28/1, 28/2, 29/1, 29/2, 30/1A1, 30/1B, 30/2A, 30/3A, 31/1B, 31/2A1, 31/2B, 32, 33, 34/1, 34/2, 51/1, 51/2, 52/1A, 52/1B, 52/2A, 52/3A, 52/4A, 52/4B, 53/3, 64/3, 66/1, 67/1A, 68/1, 69/1A, 69/2A, 70/1A, 70/1B, 70/2A, 71/1, 71/2, 71/3A2, 71/3B, 71/3C, 71/3D, 71/3E1, 71/3E2, 71/3E3, 72/2, 73/2A, 1026/2A, 199/3, 199/4, 196, 195/1, 195/2, 195/4, 195/5, 194/1B, 194/2, 193/1, 193/2, 195/3, 202/3A2, 202/1, 203/1, 203/2, 204/1, 204/3, 205/2, 199/1, 202/4, 198/2B, 140/5, 140/4, 202/2, 203/4, 206/1C, 204/2, 206/1B1, 198/2A, 197/1, 197/2B, 198/2C, 202/3B, 206/2B Part, 198/1, 201/2B, 201/1, 205/1, 206/1B2, 206/1A1, 206/1A3, 202/3A1, 201/2A, 203/3, 206/1A2, 36/3A, 35/2, 36/2, 37/2, 37/3, 36/1, 37/1, 38,40/2, 36/3B2, 40/1 Part, 35/1A1, 35/1A2, 212/1, 213/1, 219/1, 219/2, 218,217/1, 217/2A1, 217/2A2, 217/2B, 217/3, 216/1, 216/2, 215/1, 215/2, 215/3A, 215/3B, 215/4, 215/5, 214, 213/1, 213/2, 213/3, 212/1A, 212/1B, 212/1C, 212/2A1, 212/2A2, 212/2A3, 212/2B, 211/1, 211/2A, 211/2B, 211/3, 211/4, 211/5, 210/1, 210/2, 210/3, 210/4, 209/1, 209/2, 207/1, 207/2, 207/3, 207/4, 207/5, 206/2A1, 206/2A2, 206/2B, 206/3,


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220/1, 219/3, 220/2, 221 of Vadakupattu Village, Kundrathur Taluk, Kancheepuram district and S. Nos. 14/2 (Pt), 14/3, 14/4, 14/6 pt, 14/7 (Pt), 14/8, 15/1C Pt, 15/2A Pt, 15/3A, 15/4A, 15/5B1 of Padharvadi Village, Sriperumbudur Taluk & Kancheepuram district, Tamil Nadu for Environmental Clearance. (SIA/TN/INFRA2/449267/2023, dated: 18.10.2023)

The proposal was placed in this 435th Meeting of SEAC held on 28.12.2023. 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. The project proponent, M/s Volumus Developers Private Limited has applied for Environmental Clearance for the Proposed Expansion of Industrial shed cat S.F.No. 19/2A1B, 19/3, 19/4, 22/1, 22/2A1, 22/2C, 23,24/1, 24/2, 25, 26, 27/1, 27/2, 27/3A, 27/3B, 27/4, 28/1, 28/2, 29/1, 29/2, 30/1A1, 30/1B, 30/2A, 30/3A, 31/1B, 31/2A1, 31/2B, 32, 33, 34/1, 34/2, 51/1, 51/2, 52/1A, 52/1B, 52/2A, 52/3A, 52/4A, 52/4B, 53/3, 64/3, 66/1, 67/1A, 68/1, 69/1A, 69/2A, 70/1A, 70/1B, 70/2A, 71/1, 71/2, 71/3A2, 71/3B, 71/3C, 71/3D, 71/3E1, 71/3E2, 71/3E3, 72/2, 73/2A, 1026/2A, 199/3, 199/4, 196, 195/1, 195/2, 195/4, 195/5, 194/1B, 194/2, 193/1, 193/2, 195/3, 202/3A2, 202/1, 203/1, 203/2, 204/1, 204/3, 205/2, 199/1, 202/4, 198/2B, 140/5, 140/4, 202/2, 203/4, 206/1C, 204/2, 206/1B1, 198/2A, 197/1, 197/2B, 198/2C, 202/3B, 206/2B Part, 198/1, 201/2B, 201/1, 205/1, 206/1B2, 206/1A1, 206/1A3, 202/3A1, 201/2A, 203/3, 206/1A2, 36/3A, 35/2, 36/2, 37/2, 37/3, 36/1, 37/1, 38,40/2, 36/3B2, 40/1 Part, 35/1A1, 35/1A2, 212/1, 213/1, 219/1, 219/2, 218,217/1, 217/2A1, 217/2A2, 217/2B, 217/3, 216/1, 216/2, 215/1, 215/2, 215/3A, 215/3B, 215/4, 215/5, 214, 213/1, 213/2, 213/3, 212/1A, 212/1B, 212/1C, 212/2A1, 212/2A2, 212/2A3, 212/2B, 211/1, 211/2A, 211/2B, 211/3, 211/4, 211/5, 210/1, 210/2, 210/3, 210/4, 209/1, 209/2, 207/1, 207/2, 207/3, 207/4, 207/5, 206/2A1, 206/2A2, 206/2B, 206/3, 220/1, 219/3, 220/2, 221 of Vadakupattu Village, Kundrathur Taluk, Kancheepuram district and S. Nos. 14/2 (Pt), 14/3, 14/4, 14/6 pt, 14/7 (Pt), 14/8, 15/1C Pt, 15/2A Pt, 15/3A, 15/4A, 15/5B1 of Padharvadi Village, Sriperumbudur


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2. The project/activity is covered under Category "B1" of Item 8(a) "Building & Construction Projects" of the Schedule to the EIA Notification, 2006.
3. Total Plot area is 5,49,360.759 Sqm & the total built-up area of the proposed Industrial Shed is 2,18,713.17 Sqm.
4. Terms of Reference was issued by SEIAA-TN vide Lr.No.SEIAA-TN/F.No.9941/ ToR-1485/2023, Dated: 22.06.2023.

Now, the proposal is placed in the 435th SEAC meeting held on 28.12.2023. During the presentation, the EIA coordinator stated that Project Proponent was absent for the meeting. Hence, the proposal was not taken up for appraisal. Further, the project proponent shall furnish the reason for his absence.

Agenda No. 435 – 06

(File No. 10487/2023)

Proposed Construction of High-Rise Residential building at S.F.No. 42/1, 49/1, 51/1, 52/1A, 52/2 & 53/2 of Koladi Village, Poonamallee Taluk, Thiruvallur District, Tamil Nadu by M/s. Danub Homes Private Limited for Environmental Clearance. (SIA/TN/INFRA2/447566/2023, dated: 10.10.2023).

The proposal was placed in this 435th Meeting of SEAC held on 28.12.2023. 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. The project proponent, M/s. Danub Homes Private Limited has applied for Environmental Clearance for the Proposed Construction of High-Rise Residential building at S.F.No. 42/1, 49/1, 51/1, 52/1A, 52/2 & 53/2 of Koladi Village, Poonamallee Taluk, Thiruvallur District, Tamil Nadu
2. The project/activity is covered under Category "B2" of Item 8(a) "Building & Construction Projects" of the Schedule to the EIA Notification, 2006.
3. Total land area is 35,795.00 Sqm & the total built-up area of the proposed Built-up Area is 1,36,650.0 Sqm.

Now, the proposal is placed in the 435th SEAC meeting held on 28.12.2023. The EIA


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coordinator through E-mail Dated: 27.12.2023 informed that the project proponent would be absent for the meeting. Hence, the proposal was not taken up for appraisal. Further, the project proponent shall furnish the reason for his absence.

Agenda No. 435 – 07

(File No. 10522/2023)

Existing Standalone Steel rolling mill by M/s. Beekay Steel Industries Ltd at S.F.No. 328/1, 328/2, 329, 330/1, 330/2, 332/1B1C2D, Kumaravadi village, Maduranthagam Taluk, Chengalpattu District, Tamil Nadu for Terms of Reference. (SIA/TN/IND1/437272/2023, dated: 19.07.2023).

The proposal was placed in this 435th Meeting of SEAC held on 28.12.2023. 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. The project proponent, M/s. Beekay Steel Industries Ltd has applied for Terms of Reference for the existing stand-alone steel rolling mill at S.F.No. 328/1, 328/2, 329, 330/1, 330/2, 332/1B1C2D, Kumaravadi village, Maduranthagam Taluk, Chengalpattu District, Tamil Nadu
2. The project/activity is covered under Category "B1" of Item 3(a) "Metallurgical Industries (Ferrous & Non-Ferrous)" of the Schedule to the EIA Notification, 2006.
3. As per the KML file uploaded by the proponent in Parivesh Portal, it is ascertained that the proposed site is at a distance of approximately 330m from Karikili Birds Sanctuary.
4. The proponent had obtained CTO from TNPCB vide consent order no. 17072974558 under Air Act and Consent Order No. 17071974558 under Water Act Dated: 01.08.2017 for the Manufacturing of Black Bars & Bright Bars with production quantity of 7000 Tons/Month and with the point source emissions of Re-heating Furnace (Wet scrubber with stack of 21m height) and DG set of 125 KVA (5.0 m stack height) with validity up to 31.03.2028.
5. As per the MoEF&CC Notification S.O. 3250 (E) Dated: 20.07.2022,


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

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

6. As per the MoEF&CC Notification S.O. 3372 (E) Dated: 26.07.2023

"the Central Government, vide notification number S.O. 3250(E), dated the 20th July, 2022, directed that all the standalone re-rolling units or cold rolling units, which are in existence and in operation as on the date of this notification, with valid Consent to Establish and Consent to Operate from the concerned State Pollution Control Board or the Union territory Pollution Control Committee, as the case may be, shall apply online for grant of Terms of Reference (ToR) followed by Environment Clearance and the said units shall be granted Standard Terms of Reference as per item 3(a) of the notification of the Government of India in the, erstwhile Ministry of Environment, Forest and Climate Change number S.O 1533(E), dated the 14th September, 2006 and shall be exempted from the requirement of public consultation, provided that the application for the grant of ToR shall be made within a period of one year from the date of the said notification.

In the said notification, in paragraph 1, in the proviso, for the words, "one year" the words "one year and six months" shall be substituted."

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


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1. PP shall conduct an energy efficiency study of the existent factory through accredited BEE consultant and submit the same along with an action plan to implement the suggestions.
2. The proponent shall explore the possibilities of utilising alternative fuels like briquettes, LNG etc., and shall discuss in the EIA report.
3. Since the existing activity is approximately at a distance of 330m from Karikill Bird Sanctuary, PP shall obtain letter from PCCF regarding the applicability of MoEF&CC OM Dated: 17.05.2022 and the judgement issued in the case of T.N. GODAVARMAN THIRUMULPAD vs UNION OF INDIA & OTHERS, WRIT PETITION (CIVIL) NO. 202 OF 1995 Dated: 26.04.2023 along with EIA Report.
4. If the proposal attracted clearance from the National Board of Wild Life, then the PP shall submit the clearance along with EIA Report.
5. The PP shall furnish Green Belt plan with minimum 33% Green cover along with EIA Report.
6. The proponent shall submit report of analysis with respect to air emission obtained from TNPCB along with EIA Report.
7. DFO letter stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
8. The PP shall furnish the details of arrangement made for permanent water supply from Salem Corporation/local panchayat.
9. Efficiency study/report of the existing furnace through reputed institution.
10. The PP shall discuss the best available technology available in this field and action plan for implementing the same.
11. The PP shall furnish action plan for harnessing 50% solar energy or shall purchase 75% renewable energy to meet the energy requirement.
12. The PP shall furnish the road map for achieving 100% green energy.
13. The PP shall furnish the action plan for the implementing the CER activities as committed.
14. The PP shall study in detail various operational measures to reduce the specific energy consumption in re-heating furnaces.


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



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28. A detailed report on Solid waste & hazardous waste management shall be furnished.
29. Report on AAQ survey and proposed air pollution prevention and control measures shall be furnished in the EIA report.
30. The project proponent shall do the stoichiometric analysis of all the involved reactions to assess the possible emission of air pollutants in addition to the criteria pollutants, from the proposed project.
31. Adequacy report for ETP &STP for the proposed project obtained from any reputed Government institution such as IIT, Anna University, NIT shall be furnished.
32. Land use classification shall be obtained from the DTCP for the Survey Numbers of this project. Further, the project proponent shall submit the planning permission obtained from the DTCP, if any.
33. The proponent shall conduct the EIA study and submit the EIA report for the entire campus along with layout and necessary documents such as "A" register and village map.
34. The PP shall produce/display the EIA report, executive summary and other related information in Tamil.
35. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purposes involved in the project.
36. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
37. The project proponent shall explore the possibilities of treating and utilizing the trade effluent and sewage within the premises to achieve Zero liquid discharge.
38. The layout plan shall be furnished for the greenbelt area earmarked with GPS coordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should be not less than 15 % of the total land area of the project.


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

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

Agenda No. 435 – 08

(File No. 10529/2023)

Proposed Construction of Group Housing Development "Varsha" comprising 2 blocks with 210 Dwelling units and 2 Club Houses by Thiru G. Madan at S.F.No. 317/1, 2, 3, 4, 5A, 5B, 6, 7A, 7B, 322/1B & 1C2, Perumbakkam Village, Tambaram Taluk, Chengalpattu District, Tamil Nadu for Environmental Clearance.

(SIA/TN/INFRA2/451067/2023, dated: 03.11.2023)

The proposal was placed in this 435th Meeting of SEAC held on 28.12.2023. 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. The project proponent, Thiru G. Madan has applied for Environmental Clearance for the Proposed Construction of Group Housing Development "Varsha" comprising 2 blocks with 210 Dwelling units and 2 Club Houses at S.F.No. 317/1, 2, 3, 4, 5A, 5B, 6, 7A, 7B, 322/1B & 1C2, Perumbakkam Village, Tambaram Taluk, Chengalpattu District, Tamil Nadu
2. The project/activity is covered under Category "B2" of Item 8(a) "Building & Construction Projects" of the Schedule to the EIA Notification, 2006.
3. Total land area is 8,401.14 Sqm & the total built-up area of the proposed Built-up area is 21,774.18 Sqm.


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Name and Address of the PP		Name of the Consultant			
Mr. G. Madhan Old No. 45, Plot No. 22, SPUR Tank, Chetpet, Chennai – 31.		M/s. EHS360 LABS PVT. LTD., Old No.8/2, New No. 10/2, 50th Street, 7th Avenue, Ashok Nagar, Chennai - 83			
A. Site Location Details					
1.	Location	S.F. Nos: 317/1, 2, 3, 4, 5A, 5B, 6, 7A, 7B, 322/1B & 1C2, Perumbakkam Village, Tambaram Taluk, Chengalpattu District, Tamilnadu.			
2.	Latitude & Longitude	12°53'25.32"N, 80°12'3.04"E			
3.	Survey Nos	S.F. Nos: 317/1, 2, 3, 4, 5A, 5B, 6, 7A, 7B, 322/1B &			
4.	Area in Hectares	0.840114			
5.	Ownership Details	Own Land			
6.	Any Legal Disputes	---			
7.	Waterbodies/Rivers/Canals	S.No	Description	Distance (Km)	Direction
		1	Lake Near Site	0.97	S
		2	Lake Near site	0.78	W
		3	Lake Near Sittalapakam	2.05	W
		4	Lake Near Ottiyambakkam	2.4	SW
		5	Lake near Karanai	3.5	S
		6	Lake near Talambur	3.58	S
		7	Lake near Medavakkam	4.24	NNW
		8	Lake near Pallikaranai	4.57	N


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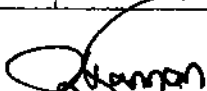

9	Lake near Gaurivakkam	4.83	WNW	
10	Lake Near Madambakkam	5	W	
11	Lake near Siruseri	5.48	S	
12	Bay of bengal	5.63	E	
13	Lake near Mambakkam	5.76	SW	
14	Lake near Kulattur	5.82	N	
15	Lake Near Agaram	5.85	WSW	
16	Lake near nanmangalam	5.96	NNW	
17	Lake near vengadamangala m	6.12	SW	
18	Temple pond near Injambakkam	6.13	ENE	
19	Lake near sembakkam	6.47	NW	
20	Lake near kilkattalai	6.55	NNW	
21	Lake near Mambakkam	6.88	SSW	
22	Lake near MGR nagar	7.23	S	
23	Lake Near Kandigai	7.32	WSW	
24	Lake near selaiyur	7.68	WNW	


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		25	Lake near Sitalapakkam	8.3	NW
		26	Lake near Pallavaram	8.92	NW
		27	Lake near Pudupakkam	9.15	S
		28	Lake near Kandanchavadi	9.25	NNE
		29	Lake near Kulattur	9.56	SSW
		30	Lake Near Kadapperi	9.82	NW
		31	Lake near Nadungunram	10.06	W
		32	Lake near Chrompet	10.43	NW
8.	Vulnerability to Inundation	NA			
9.	Protected Areas Nearby (Wildlife Protection Act)	NIL			
10.	Previous EC/History in SEIAA	NIL. Fresh EC			

B. PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
B1. GENERAL			
1	Plot Area	8401.14	SQMT
2	Proposed Built Up Area	21,774.18	SQMT
3	Total no of Saleable DU's/Villas	210	No.


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4	Max Height - (Height of tallest block)	18.5	M
5	No of Building Blocks (Residential + Community facilities)	2	No.
6	Max No of Floors	G+5	No.
7	Expected Population (XXX Residential+ XXXX Floating)	1157	No.
8	Total Cost of Project	Rs. 68.62Crores	CR
9	EMP	Operation Phase: Capital – 21.40 Recurring – 2.14	lakhs
10	CER	1.3724	CR

B2. AREAS

1	Permissible Ground Coverage Area (xx%)	504200.57 (50%)	SQMT
2	Proposed Ground Coverage Area (xx%)	4320.3(51.43 %)	SQMT
3	Permissible FSI Area (xxx)	16,802.28	SQMT
4	Proposed FSI Area	21657.94	SQMT
5	Other Non FSI Areas - including basement area etc.	1165.24	SQMT
6	Proposed Total Built Up Area	21774.18	SQMT

B3. WATER

1	Total Water Requirement	148.2	KLD
2	Fresh water requirement	96.6	KLD
3	Treated Water Requirement	52.7	KLD
4	Wastewater Generation	116	KLD
5	Proposed Capacity of STP	120	KLD


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6	Treated Water Available for Reuse	104.4	KLD
7	Treated Water Recycled	116	KLD
8	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	52.7	KLD

B4. RAINWATER HARVESTING

1	Rainwater Harvesting - Recharge Pits	15	No.
2	Rainwater Harvesting Pit Capacity	6.7824	M ³

B5. PARKING

1	Total Parking Required as / Building Bye Laws	100cars,224 two wheelers, 09 PH Parking	ECS
2	Proposed Total Parking	172cars,224 two wheelers, 09 PH Parking	ECS
3	Parking in Basements	148cars,194two wheelers, 09 PH Parking	ECS

B6. GREEN AREA

1	Proposed Green Area (Minimum 15.0% of plot area)	1276.97(15.2%)	SQMT
2	Total area	8401.14	SQMT
3	Existing trees on plot	0	nos
4	Number of trees to be planted	317	nos
5	Number of trees to be transplanted/cut	0	nos


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B7. SOLID WASTE MANAGEMENT			
1	Total Solid Waste Generation	0.52	TPD
2	Organic waste	0.21	TPD
3	Mode of Treatment & Disposal	Municipality/ Corporation	TPD
4	Quantity of Sludge Generated from STP & Disposal	6.5	KG/DAY
5	Quantity of E-Waste Generation & Disposal	0	KG/DAY
6	Quantity of Hazardous waste Generation & Disposal	520	LPA
B8. POWER / GREEN POWER			
1	Total Power Requirement	1500	KVA
2	DG set backup	2 No. of 150 KVA	KVA
3	No of DG Sets	2	No.
4	Solar Panels – Roof Coverage	50	%
5	Hot Water Requirement	---	KLD
	Of which met by Solar Panels		

C. POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION
Total Saleable DU's	210	5	1050
Total	-	-	
Non-Residential	-	-	
CLUB house (Employees etc.)	2	1	2


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Club	-	-	
Commercial	-	-	
Facility Management Staff	-	-	
Total	-	-	1052
Visitors	105	1	105
Residential	-	-	
Club/Community Hall	-	-	
(Maintenance Staff)	-	-	
Total Visitors	-	-	105
Total Population	-	-	1157

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,


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- 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.
 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: 435 - 09

(File No.10488/2023)


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Proposed Construction of Residential Building – Non High Rise Group Development in Survey No. 108 of Kovilancheri Village, Tambaram Taluk, Chengalpet District, Tamil Nadu by M/s. Casagrand Fresh Private Limited – For Environmental clearance. (SIA/TN/INFRA2/448444/2023, dated:11.10.2023)

The proposal was placed for appraisal in the 435th Meeting of SEAC held on 28.12.2023. 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. Casagrand Fresh Private Limited.** has applied for Environmental clearance for the Proposed Construction of Residential Building – Non High Rise Group Development in Survey No. 108 of Kovilancheri Village, Tambaram Taluk, Chengalpet District, Tamil Nadu.
2. The project/activity is covered under Category “B2” of Item 8(a) “Building & Construction Projects” of the Schedule to the EIA Notification, 2006.
3. The salient features of the proposal are as follows:

PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	43544.21	SQMT
2	Proposed Built Up Area	1,15,760.92	SQMT
3	Total no of Saleable DU's/Villas	639	No.
4	Max Height - (Height of tallest block)	18.30	M
5	No of Building Blocks (Residential +Community facilities)	3 blocks	
6	Max No of Floors	5	No.
7	Expected Population:		No.
	(i) Residential	3702	
	(ii) Maintenance staff	37	
	(iii)Visitors	370	


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	Total	4109	
8	Total Cost of Project	196.0	CR
9	Project Activity	Residential	
AREAS			
10	Permissible Ground Coverage Area	NA	SQMT
11	Proposed Ground Coverage Area	16680.00	SQMT
12	Permissible FSI Area	57880.46	SQMT
13	Proposed FSI Area	87394.92 (Premium FSI)	SQMT
14	Other Non FSI Areas - including basement area etc.	28366	SQMT
15	Proposed Total Built Up Area	115760.92	SQMT
WATER			
16	Total Water Requirement	561	KLD
17	Fresh water requirement	339	KLD
18	Treated Water Requirement	222	KLD
19	Wastewater Generation	473	KLD
20	Proposed Capacity of STP	500	KLD
21	Treated Water Available for Reuse	449	KLD
22	Treated Water Recycled	222	KLD
23	Surplus treated water to be discharged in Municipal Sewer/ avenue plantation with Prior permission, if any	227	KLD
RAINWATER HARVESTING			
24	Rainwater Harvesting - Recharge Pits	36 Numbers	-
25	Rainwater Harvesting Sump Capacity	315	M ³
PARKING			
25	Total Parking Required as / Building ByeLaws: i) Car parking		ECS


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	ii) Two wheeler parking	625 187	
26	Proposed Total Parking		ECS
	i) Car parking	694	
	ii) Two wheeler parking	207	
27	Parking in Basements	631	ECS
GREEN AREA			
28	Proposed Green Area (Minimum 15.0% of plot area)	10214.00	SQMT
	Total area	43544.21	sqm
	Existing trees on plot	-	-
	Number of trees to be planted	550	nos
	Number of trees to be transplanted/cut	-	-
SOLID WASTE MANAGEMENT			
29	Total Solid Waste Generation	2302	Kg/day
30	Organic waste	921	Kg/day
31	Mode of Treatment & Disposal	Will be treated in Organic Waste Converter and used as manure for gardening.	-
32	Quantity of Sludge Generated from STP & Disposal:	25 Will be used as manure for greenbelt development	Kg/day
33	Quantity of Non-biodegradable waste Generation & Disposal	1381 Sent to authorized recyclers or local	Kg/day

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		bodies for recycling	
34	Quantity of E-Waste & Hazardous waste Generation & Disposal	-	LPD
POWER / GREEN POWER			
34	Total Power Requirement	6133.27	KVA
35	DG set backup	1 No. of 125 kVA 1 No. of 320 kVA 2Nos. of 380 kVA	KVA
36	No of DG Sets	4	No.
37	Solar Panels – Roof Coverage	50%	%
38	Hot Water Requirement	20.6	KLD
	Of which met by Solar Panels	10.3	KLD

EMP & CER

39	EMP Cost	<u>Construction Phase:</u> Capital Cost – Rs.13.25 Lakhs O&M Cost/Annum – Rs.4.5 Lakhs <u>Operational Phase:</u> Capital Cost – Rs.331.18 Lakhs Recurring Cost (per annum) – 54.65 Lakhs
40	CER Cost	Rs. 196 Lakhs

RECOMMENDATION OF THE COMMITTEE

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


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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.
13. As agreed by the project proponent, the CER cost is **Rs.196 Lakhs** and the amount shall be utilized for the following activities before obtaining CTE from TNPCB.

S. No.	CER Activity	Capital cost Allocation (In Lakhs)
Provision of Infrastructure & sanitation facilities such as Hygienic Toilets facilities, Classroom flooring, Furniture's, Environmental awareness books for students in library, Greenbelt development including maintenance of toilets for the following schools		
1	Government School, Kovilancheri	20
2	Panchayat Union Primary School, Vengadamangalam	20
3	Panchayat Union Primary School, Sithalapakkam	20
4	Government Higher Secondary School, Agaramthen	20
5.	Primary Health Center, South Chennai	116
Total Cost Allocation		196

Agenda No: 435- 10

(File No: 10552/2023)

Proposed Construction of Residential Building at New Survey No. 113/2A (Old Survey No. 113/2) & 130/2 of Egattur Village, Thiruporur Taluk, Chengalpet District, Tamil Nadu by M/s. Jain Housing LLP - For Environmental Clearance.

(SIA/TN/INFRA/27452504/2023, Dated:17.11.2023)


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The proposal was placed in the 435th SEAC meeting held on 28.12.2023. 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. Jain Housing LLP has applied for Environmental Clearance for the Proposed Construction of Residential Building at New Survey No. 113/2A (Old Survey No. 113/2) & 130/2 of Egattur Village, Thiruporur Taluk, Chengalpet District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 8(a) "Building and Constructions Projects" of the Schedule to the EIA Notification, 2006.


Based on the presentation and details furnished by the project proponent, SEAC decided to call for the following additional particulars.

1. The survey nos 113/2A & 130/2 come under "Nanjai Category". Hence the PP shall furnish land use conversion certificate.
2. The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the Municipal Corporation/Competent Authority.
3. As accepted, the PP shall revise CER.
4. The PP shall furnish details of charging station for e-vehicle.

Agenda No: 435-11

(File No: 10184/2023)

Proposed Construction of High rise residential Group Development Buildings at Survey Nos. 508/4A, 508/4B, 508/6A1, 508/6A2, 508/6B, 508/6C, 508/6D, 508/7A, 500/7B, 508/7C, 508/7D, 500/7E, 508/7F, 508/7G, 508/7H, 508/7I, 508/8A, 508/8B1, 508/8B2, 508/11A, 508/11B, 508/21A, 508/28, 508/36B, 508/36C1, 508/36C2, 508/38A1, 508/45, 508/48, 575/2A2A1, 575/2A2A2, 575/2A2A3, 575/2A2B1, 575/2A2B2, 575/2A2B3, 575/2A3, 575/2B, 575/2C, 575/3B1, 575/4A, 575/4B, 575/4C, 575/5A, 575/5B, 575/6A, 575/6B, 575/6C, 575/7A1, 575/7A2, 575/7B, 575/7C, 575/7D, 575/8A1, 575/8A2, 575/8A3, 575/8B1, 575/8B2, 575/9A, 575/9B1, 575/9B2, 575/9B3, 575/9C1, 575/10A1, 575/10A2, 575/10B, 575/10C, 575/10D1, 575/10D2, 575/10E, 575/10F, 575/10G, 575/12A, 575/12B, 575/12C, 575/13A,


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575/13B, 575/13C, 575/13D, 575/13E1, 575/13E2, 575/13F, 575/14A, 575/14B, 575/14C, 575/15, 575/16, 575/17, 575/18, 575/19, 575/20, 575/21, 575/22, 575/23, 575/24, 575/25, 579/1, 579/2, 580, 581/1, 581/2, 581/3, 581/4, 581/5, 724/3 & 724/5 of Sholinganallur 1 Village, Sholinganallur Taluk, Chennai District, Tamil Nadu by M/s Casa Grand Vivaace Private Limited- For Environmental Clearance.


(SIA/TN/INFRA2/444951/2023, dated:19.09.2023)

The proposal was placed in 435th Meeting of SEAC held on 28.12.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

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 the Proposed Construction of High rise residential Group Development Buildings at Survey Nos. 508/4A, 508/4B, 508/6A1, 508/6A2, 508/6B, 508/6C, 508/6D, 508/7A, 500/7B, 508/7C, 508/7D, 500/7E, 508/7F, 508/7G, 508/7H, 508/7I, 508/8A, 508/8B1, 508/8B2, 508/11A, 508/11B, 508/21A, 508/28, 508/36B, 508/36C1, 508/36C2, 508/38A1, 508/45, 508/48, 575/2A2A1, 575/2A2A2, 575/2A2A3, 575/2A2B1, 575/2A2B2, 575/2A2B3, 575/2A3, 575/2B, 575/2C, 575/3B1, 575/4A, 575/4B, 575/4C, 575/5A, 575/5B, 575/6A, 575/6B, 575/6C, 575/7A1, 575/7A2, 575/7B, 575/7C, 575/7D, 575/8A1, 575/8A2, 575/8A3, 575/8B1, 575/8B2, 575/9A, 575/9B1, 575/9B2, 575/9B3, 575/9C1, 575/10A1, 575/10A2, 575/10B, 575/10C, 575/10D1, 575/10D2, 575/10E, 575/10F, 575/10G, 575/12A, 575/12B, 575/12C, 575/13A, 575/13B, 575/13C, 575/13D, 575/13E1, 575/13E2, 575/13F, 575/14A, 575/14B, 575/14C, 575/15, 575/16, 575/17, 575/18, 575/19, 575/20, 575/21, 575/22, 575/23, 575/24, 575/25, 579/1, 579/2, 580, 581/1, 581/2, 581/3, 581/4, 581/5, 724/3 & 724/5 of Sholinganallur 1 Village, Sholinganallur Taluk, Chennai District by M/s Casagrand Vivaace Private Limited.
2. M/s Eco Tech Labs Pvt is the EIA Consultant for the project.
3. Total plot area of the project is 119400m² and built-up area is 354503m² respectively.


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4. Maximum number of floors will be B+ G+ 9 floors and maximum height of the building will be 35.95m.

5. Total Saleable DU's (dwelling units) is 2137 Nos.

6. Salient features of the project as submitted by the project proponent:

PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	119400	SQMT
2	Proposed Built Up Area	345403	SQMT
3	Total no of Saleable DU's/Villas	2137	No.
4	Max Height - (Height of tallest block)	35.95	M
5	No of Building Blocks (Residential + Community facilities)	25 Blocks	
6	Max No of Floors	9	No.
7	Expected Population (Residential + Floating)	12197+ 1342	No.
8	Total Cost of Project	694.43	CR
9	Project Activity :		
AREAS			
10	Permissible Ground Coverage Area (50%)	58351	SQMT
11	Proposed Ground Coverage Area (27%)	31444.79	SQMT
12	Permissible FSI Area	298500	SQMT
13	Proposed FSI Area	261941.4	SQMT
14	Other Non FSI Areas - including basement area etc.	83461.6	SQMT
15	Proposed Total Built Up Area	345403	SQMT


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WATER			
16	Total Water Requirement	1777	KLD
17	Fresh water requirement	1107	KLD
18	Treated Water Requirement	670	KLD
19	Wastewater Generation	1558	KLD
20	Proposed Capacity of STP	1180 & 560	KLD
21	Treated Water Available for Reuse	1480	KLD
22	Treated Water Recycled	670	KLD
23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	810	KLD
RAINWATER HARVESTING			
24	Rainwater Harvesting - Recharge Pits	141	No.
25	Rainwater Harvesting Sump Capacity	600	M ³
PARKING			
25	Total Parking Required as / Building Bye Laws	2158	ECS
26	Proposed Total Parking	2612	ECS
27	Parking in Basements	2430	ECS
GREEN AREA			
28	Proposed Green Area (Minimum 15.0% of plot area)	18672	SQMT
	Total area	18672	
	Existing trees on plot	0	
	Number of trees to be planted	1500	


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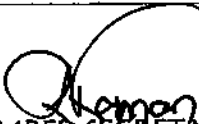
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	Number of trees to be transplanted/cut	0	
SOLID WASTE MANAGEMENT			
29	Total Solid Waste Generation	7.562	TPD
30	Organic waste	3.025	TPD
31	Mode of Treatment & Disposal	Treated in OWC & used as MANURE	TPD
32	Quantity of Sludge Generated from STP & Disposal	105 & used as MANURE	KG/DAY
33	Quantity of E-Waste Generation & Disposal	0	KG/DAY
34	Quantity of Hazardous waste Generation & Disposal	0	LPD
POWER / GREEN POWER			
34	Total Power Requirement	22568	KW
35	DG set backup	3 X 250, 3X 320, 6X380	KVA
36	No of DG Sets	12	No.
37	Solar Panels – Roof Coverage	50	%
38	Hot Water Requirement	30KLD	
	Of which met by Solar Panels		

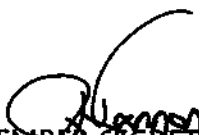
Population details:


POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION
Total Saleable Du's	2137	2 BHK – 5Nos, 3 BHK – 6 Nos	12197


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Total			12197
Non-Residential			
CLUB house (Employees etc.)	Area		-
Club			-
Commercial			-
Facility Management Staff			122
Total			122
Visitors			
Residential		xx% of Residential Population	1220
Club/Community Hall		xx% of Residential Population	-
Commercial			-
Total Visitors			1220
Total Population			13539


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EMP Cost	Capital cost – 435 Lakhs, Recurring cost – 35.23 Lakhs
CER Cost	7 Crores

Details of CER Activities

S. No.	Beneficiary	CER Activity	Capital cost Allocation (in Lakhs)	Action Plan
1	Govt Higher Secondary School, Sholinganallur, 1.09 km, NE	i. Green belt development in the school ii. Providing hygiene Toilets rooms for students iii. Providing Environmental related books in the school library iv. Infrastructure development works if any as per demand v. Building repair work as per school demand	20	Will be spent within 1 year after Start of construction
2	Government Middle school, Sholinganallur, 2.02 km, NE	Providing Sanitation facilities – Toilets, Sanitary napkins and incinerator disposal of sanitary napkins. Provision of Library facilities. Improving IT Infrastructures, Greeneries development around the periphery of the school and Rainwater harvesting system.	20	Will be spent within 1 year after Start of construction


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3	Semmencherry Govt Higher Secondary School, 1.47 km, SW	<ul style="list-style-type: none"> i. Green belt development in the school ii. Providing hygiene Toilets rooms for students iii. Providing Environmental related books in the school library iv. Infrastructure development works if any as per demand v. Building repair work as per school demand 	20	Will be spent within 1 year after Start of construction
4	Perumbakkam Govt High School, 0.98 km, SW	<ul style="list-style-type: none"> i. Green belt development in the school ii. Providing hygiene Toilets rooms for students iii. Providing Environmental related books in the school library iv. Infrastructure development works if any as per demand v. Building repair work as per school demand 	20	Will be spent within 1 year after Start of construction
5	Beautification of the subramanya lake (0.15 km) and Raman thangal lake (0.29 km)		50	Will be spent within 1 year after Start of construction
6	Dialysis unit to Govt Hospitals		250	Will be spent within 1 year


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	Primary Health Centre, Perumbakkam – 0.74 km, SW Primary Health Centre, Sholinganallur – 1.17 km, E Primary Health Centre, Semmencherry – 1.59 km, SW Primary Health Centre, Jalladianpet – 3.2 km, N Upgraded Primary Health Centre, Medavakkam – 3.62 km, NW		after Start of construction
7	Arts college Nandanam	320	Will be spent within 1 year after Start of construction
	TOTAL CER COST	700	

7. The project proposal falls under Category "B1" of Item 8(b) "Township and Area Development Projects" of the Schedule to the EIA Notification, 2006(as amended).


8. ToR Issued Vide Lr.No.SEIAA-TN/F.No.10184/SEAC/8(b)/ToR-1522/2023 Dated:09.08.2023.

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.


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3. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
4. Project proponent is advised to explore the possibility and getting the cement in a closed container rather through the plastic bag to prevent dust emissions at the time of loading/unloading.
5. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
6. The proponent should provide the sufficient electric vehicle charging points as per the requirements at ground level and allocate the safe and suitable place in the premises for the same.
7. The project proponent should develop green belt 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 DFO/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.
13. As accepted by the Project Proponent the CER cost is Rs.700 Lakhs and the amount shall be spent within 1 year after start of construction for committed activities as mentioned in the table above.

Agenda No: 435-12

(File No: 10490/2023)

Proposed Expansion of Development of Industrial Park at S.F.Nos. 17/2, 18/1B, 18/2B, 18/3B, 18/5, 18/6, 19/3B, 19/4, 19/5, 20/1, 20/2, 21/1, 21/2, 21/3, 21/4A, 21/4B, 21/5, 22/1, 22/4, 23/1, 23/2, 23/3pt, 24/1, 24/2, 24/3, 25/6, 26/1, 26/2, 26/3, 27/2, 27/3A, 27/3B, 28/1pt, 28/2, 29, 30, 32/1, 32/2, 32/3, 32/4, 32/5, 32/6, 34/1, 35/2, 45/1, 45/2A, 45/2B, 45/5, 45/6, 47, 59/2, 83/3B, 101/1B, 101/2B, 102/1, 102/3, 103/2, 113/1, 113/2, 114/1, 115/1, 115/2, 115/3, 115/4, 116/1A, 116/1B, 116/2, 116/3, 116/4, 116/5, 117, 118/1, 118/2, 119, 120/2, 233/2, 242/1, 242/2, 243, 244, 245/1A, 245/1B2, 245/2B, 247, 248/1A, 248/1B, 248/2, 249/1, 249/2, 250, 251, 253/1, 253/2, 254/1A, 254/1B, 254/1C, 254/2, 254/3, 254/4, 255, 256/1, 259/1, 260/1, 260/2, 261/1, 261/2, 262/1A2, 262/2A, 262/2B, 266/2B, 267/1B, 267/2, 268, 271/2, 272, 273, 274 of Panapakkam Village & S.F.Nos: 379/1, 379/2A, 380/2, 380/3, 380/3B, 382/2, 383/1A, 383/1B, 383/2, 383/3, 384/1A, 384/1B, 384/3A, 384/3B, 384/4, 385/1B, 385/2A2, 385/2B, 386/1A, 386/2A2, 391/1, 391/2, 391/2A, 391/2B, 391/3, 391/3A, 391/3B, 391/4, 391/5, 391/6A, 391/7, 392, 392/1C, 392/1D, 392/1E, 392/1F, 392/1H, 392/1I, 392/1J, 392/1K, 392/2, 392/3, 392/3A, 392/3B, 392/4, 392/5A, 392/5B, 394/2, 395/1A, 395/1B, 395/2, 395/3, 396, 397/1, 397/2, 397/3, 397/4, 398/1A, 398/1B, 398/2, 399/1A, 399/1B, 403/1, 403/2A, 403/2B, 404/1A1, 404/1A2, 404/1B, 404/2, 404/3, 404/4, 404/5A of Maduravasal Village, Uthukottai Taluk, Tiruvallur District, Tamil Nadu by M/s. Vinplex India Private Limited – For Terms of Reference (ToR). (SIA/TN/INFRA2/452419/2023, Dated: 16.11.2023)


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The proposal was placed for appraisal in this 435th meeting of SEAC held on 28.12.2023. 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. Vinplex India Private Limited has applied for Terms of Reference (ToR) for the Proposed Expansion of Development of Industrial Park at S.F.Nos. 17/2, 18/1B, 18/2B, 18/3B, 18/5, 18/6, 19/3B, 19/4, 19/5, 20/1, 20/2, 21/1, 21/2, 21/3, 21/4A, 21/4B, 21/5, 22/1, 22/4, 23/1, 23/2, 23/3pt, 24/1, 24/2, 24/3, 25/6, 26/1, 26/2, 26/3, 27/2, 27/3A, 27/3B, 28/1pt, 28/2, 29, 30, 32/1, 32/2, 32/3, 32/4, 32/5, 32/6, 34/1, 35/2, 45/1, 45/2A, 45/2B, 45/5, 45/6, 47, 59/2, 83/3B, 101/1B, 101/2B, 102/1, 102/3, 103/2, 113/1, 113/2, 114/1, 115/1, 115/2, 115/3, 115/4, 116/1A, 116/1B, 116/2, 116/3, 116/4, 116/5, 117, 118/1, 118/2, 119, 120/2, 233/2, 242/1, 242/2, 243, 244, 245/1A, 245/1B2, 245/2B, 247, 248/1A, 248/1B, 248/2, 249/1, 249/2, 250, 251, 253/1, 253/2, 254/1A, 254/1B, 254/1C, 254/2, 254/3, 254/4, 255, 256/1, 259/1, 260/1, 260/2, 261/1, 261/2, 262/1A2, 262/2A, 262/2B, 266/2B, 267/1B, 267/2, 268, 271/2, 272, 273, 274 of Panapakkam Village & S.F.Nos: 379/1, 379/2A, 380/2, 380/3, 380/3B, 382/2, 383/1A, 383/1B, 383/2, 383/3, 384/1A, 384/1B, 384/3A, 384/3B, 384/4, 385/1B, 385/2A2, 385/2B, 386/1A, 386/2A2, 391/1, 391/2, 391/2A, 391/2B, 391/3, 391/3A, 391/3B, 391/4, 391/5, 391/6A, 391/7, 392, 392/1C, 392/1D, 392/1E, 392/1F, 392/1H, 392/1I, 392/1J, 392/1K, 392/2, 392/3, 392/3A, 392/3B, 392/4, 392/5A, 392/5B, 394/2, 395/1A, 395/1B, 395/2, 395/3, 396, 397/1, 397/2, 397/3, 397/4, 398/1A, 398/1B, 398/2, 399/1A, 399/1B, 403/1, 403/2A, 403/2B, 404/1A1, 404/1A2, 404/1B, 404/2, 404/3, 404/4, 404/5A of Maduravasal Village, Uthukottai Taluk, Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under category "B" of Item 8(b) "Townships and Area Development Projects" of the schedule to the EIA Notification, 2006.
3. Total land area available is 5,08,851.7 Sq.m. The total built-up area of the proposal is 2,40,751.74 Sq.m.
4. M/s. Vinplex India Private Limited has already obtained Environment Clearance


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vide Letter No. SEIAA-TN/F.No.7994/EC/8(b)/888/2022 dated: 29.11.2022 for the construction of Development of Industrial Park at S.F.Nos. 17/2, 18/1B, 18/2B, 18/3B, 18/5, 18/6, 19/3B, 19/4, 19/5, 20/1, 20/2, 21/1, 21/2, 21/3, 21/4A, 21/4B, 21/5, 22/1, 22/4, 23/1, 23/2, 23/3pt, 24/1, 24/2, 24/3, 25/6, 26/1, 26/2, 26/3, 27/2, 27/3A, 27/3B, 28/1pt, 28/2, 29, 30, 32/1, 32/2, 32/3, 32/4, 32/5, 32/6, 34/1, 35/2, 45/1, 45/2A, 45/2B, 45/5, 45/6, 47, 59/2, 83/3B, 101/1B, 101/2B, 102/1, 102/3, 103/2, 113/1, 113/2, 114/1, 115/1, 115/2, 115/3, 115/4, 116/1A, 116/1B, 116/2, 116/3, 116/4, 116/5, 117, 118/1, 118/2, 119, 120/2, 233/2, 242/1, 242/2, 243, 244, 245/1A, 245/1B2, 245/2B, 247, 248/1A, 248/1B, 248/2, 249/1, 249/2, 250, 251, 253/1, 253/2, 254/1A, 254/1B, 254/1C, 254/2, 254/3, 254/4, 255, 256/1, 259/1, 260/1, 260/2, 261/1, 261/2, 262/1A2, 262/2A, 262/2B, 266/2B, 267/1B, 267/2, 268, 271/2, 272, 273, 274 of Panapakkam Village & S.F.Nos: 379/1, 379/2A, 380/2, 380/3, 380/3B, 382/2, 383/1A, 383/1B, 383/2, 383/3, 384/1A, 384/1B, 384/3A, 384/3B, 384/4, 385/1B, 385/2A2, 385/2B, 386/1A, 386/2A2, 391/1, 391/2, 391/2A, 391/2B, 391/3, 391/3A, 391/3B, 391/4, 391/5, 391/6A, 391/7, 392, 392/1C, 392/1D, 392/1E, 392/1F, 392/1H, 392/1I, 392/1J, 392/1K, 392/2, 392/3, 392/3A, 392/3B, 392/4, 392/5A, 392/5B, 394/2, 395/1A, 395/1B, 395/2, 395/3, 396, 397/1, 397/2, 397/3, 397/4, 398/1A, 398/1B, 398/2, 399/1A, 399/1B, 403/1, 403/2A, 403/2B, 404/1A1, 404/1A2, 404/1B, 404/2, 404/3, 404/4, 404/5A of Maduravasal Village, Uthukottai Taluk, Tiruvallur District, Tamil Nadu for the total built-up area of 2,03,914.04 Sq.m.

5. PP have previously submitted application for Terms of Reference and requested for withdrawal of the proposal vide Online Proposal No. SIA/TN/INFRA2/442309/2023, Dated: 29.08.2023. PP also submitted withdrawal letter for the same vide letter dated 02.11.2023.

During the meeting, the Committee noted that the project proponent was absent for the meeting. Hence the subject was not taken up for discussion. Further, SEAC decided that the proponent shall furnish the reason for absence.

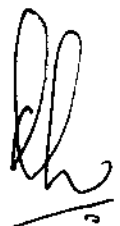
Agenda No: 435-13

(File No: 10504/2023)


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Proposed manufacture and supply of adhesives, sealants, Polymers, Modified Starch, Starch-based adhesives, Phenol Formaldehyde Resin, Synthesis based products, Microencapsulation adhesives and Activated Copper Chromite at S.F.Nos. 212 (part) & 243 (part), Plot Nos. S16 & S17, SIPCOT Industrial Park, Ingur Village, Perundurai Taluk, Erode District, Tamil Nadu by M/s. Anabond Limited - For Terms of Reference (ToR). (SIA/TN/IND3/445720/2023, Dated: 26.10.2023)

The proposal was placed for appraisal in this 435th meeting of SEAC held on 28.12.2023. 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. Anabond Limited, has applied for Terms of Reference (ToR) for the Proposed manufacture and supply of adhesives, sealants, Polymers, Modified Starch, Starch-based adhesives, Phenol Formaldehyde Resin, Synthesis based products, Microencapsulation adhesives and Activated Copper Chromite at S.F.Nos. 212 (part) & 243 (part), Plot Nos. S16 & S17, SIPCOT Industrial Park, Ingur Village, Perundurai Taluk, Erode District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 5(f) "Synthetic Organic Chemicals Industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)" of the Schedule to the EIA Notification, 2006.
3. The proposed project involves the production quantity of 995.00 TPA.

S. No	Product	Proposed (TPA)
1	Adhesives	307.00
2	Sealants	159.00
3	Polymers	156.00
4	Modified Starch	60.00
5	Starch-based adhesives	100.00
6	Phenol Formaldehyde Resins	87.00


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7	Synthesis based products	24.00
8	Microencapsulation adhesives	96.00
9	Activated Copper chromite	6.00
Total		995.00

Based on the presentation and document furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Terms of Reference** subject to the following specific conditions in addition to normal conditions stipulated by MOEF&CC.

1. Details of contract with ISRO and other defence units who are customers of PP.
2. The PP shall furnish the mass balance for each product.
3. The PP shall furnish the MSDS along with chemical structure for each raw material to be utilized for manufacturing each product.
4. The PP shall generate/buy green energy for a minimum of 50% of its total power consumption.
5. The PP shall provide roof top solar panel to cover 75% of its roof area.
6. The PP shall develop 33% green belt with native tree species all along the periphery of project boundary with geo reference and furnish the details with photographs in the EIA report.
7. The PP shall furnish a comparative study of energy efficiency in its plant vis a vis the global standards.
8. The PP shall furnish the details along with quantity in which process the trade effluent is generated from its manufacturing process.
9. The PP shall correct the data of water consumption, sewage & effluent generation and its treatment & disposal methods along with design adequacy report.
10. The PP shall correct the water balance details.
11. The PP shall furnish the details of all Air pollution control measures to be provided to control the emissions to be generated from its manufacturing process at various stages.
12. The PP shall furnish the emergency/disaster management plan.


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13. The PP shall furnish the fire license obtained from the competent authority.
14. The PP shall provide the DG set details with eco-friendly alternate fuel other than diesel.
15. The PP shall furnish all the Hazardous wastes and Non-hazardous solid wastes to be generated from its manufacturing process and how its disposed scientifically.

Agenda No: 435-14

(File No: 10546/2023)

Proposed Construction of Group Development Non-Highrise Residential Building cum Club House Building at S.F.Nos. 105/1, 110/7, 112, 113/1 of Anakaputhur Village, Pallavaram Taluk, Chengalpattu District within the limit of Tambaram Corporation and S.F.Nos. 254/1, 254/2, 254/3, 255, 256/1, 256/2, 257, 258/1A, 258/1B, 258/2, 259/1, 259/2, 260/1, 260/3, 260/4, 260/5, 261, 262, 263, 265/1, 265/2, 267, 269/1, 269/2A, 269/3, 270/3, 271/1, 271/2, 271/10 of Polichallur Village, Pallavaram Taluk, Chengalpattu District within the limit of St.Thomas Mount Panchayat Union, Tamil Nadu by M/s. Casagrاند Stage7 Private Limited – For Terms of Reference (ToR).

(SIA/TN/INFRA2/451885/2023, Dated: 10.11.2023)

The proposal was placed for appraisal in this 435th meeting of SEAC held on 28.12.2023. 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. Casagrاند Stage7 Private Limited has applied for Terms of Reference (ToR) for the Proposed Construction of Group Development Non-Highrise Residential Building cum Club House Building at S.F.Nos. 105/1, 110/7, 112, 113/1 of Anakaputhur Village, Pallavaram Taluk, Chengalpattu District within the limit of Tambaram Corporation and S.F.Nos. 254/1, 254/2, 254/3, 255, 256/1, 256/2, 257, 258/1A, 258/1B, 258/2, 259/1, 259/2, 260/1, 260/3, 260/4, 260/5, 261, 262, 263, 265/1, 265/2, 267, 269/1, 269/2A, 269/3, 270/3, 271/1, 271/2, 271/10 of Polichallur Village, Pallavaram Taluk, Chengalpattu District within the limit of St.Thomas Mount Panchayat Union, Tamil Nadu.
2. The project/activity is covered under category "B" of Item 8(b) "Townships


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and Area Development Projects" of the schedule to the EIA Notification, 2006.

3. Total land area available is 80,026.58 Sq.m. The total built-up area of the proposal is 1,91,750 Sq.m.

Based on the presentation made by the proponent and the documents furnished, SEAC decided to **recommend the proposal for the grant of Terms of Reference (TOR)**, subject to the following TORs, in addition to the standard terms of reference for EIA study and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The proponent shall install Electric Vehicle charging station in the project site.
2. The proponent shall ensure the proposed development meets green building norms and shall obtain a minimum of IGBC Gold ranking.
3. The proposal for utilization of at least 50% of Solar Energy shall be included in the EIA/EMP report.
4. The proponent shall furnish the detailed sewage treatment technology available and also furnish the design details of the STP treatment system.
5. The proposal to construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
6. The treated/untreated sewage water shall not be let-out from the unit premises accordingly revised water balance shall be incorporated.
7. As per G.O. Ms. No. 142 approval from Central Ground Water Authority shall be obtained for withdrawal of water and furnish the copy of the same, if applicable.
8. Commitment letter from competent authority for supply of water shall be furnished.


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9. Copy of the village map, FMB sketch and "A" register shall be furnished.
10. Detailed Evacuation plan during emergency/natural disaster/untoward accidents shall be submitted.
11. The space allotment for solid waste disposal and sewage treatment & grey water treatment plant shall be furnished.
12. Details of the Solid waste management plan shall be prepared as per solid waste management Rules, 2016 and shall be furnished.
13. Details of the E-waste management plan shall be prepared as per E-waste Management Rules, 2016 and shall be furnished.
14. Details of the rain water harvesting system with cost estimation should be furnished.
15. A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains and sub-drains in accordance with the contour levels of the proposed project considering the flood occurred in the year 2015 and also considering the water bodies around the proposed project site & the surrounding development. The storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.
16. The OSR area should not be included in the activity area and not be taken in to account for the green belt area.
17. The layout plan shall be furnished for the greenbelt area earmarked with GPS coordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should not be less than 15% of the total land area of the project.
18. Cumulative impacts of the Project considering with other infrastructure developments and industrial parks in the surrounding environment within 5 km & 10 km radius shall be furnished.


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19. A detailed post-COVID health management plan for construction workers as per ICMR and MHA or the State Govt. guideline may be followed and report shall be furnished.
20. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modelling for the ground water, emission, noise and traffic.
21. As per the MoEF&CC Office Memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall furnish the detailed EMP mentioning all the activities as directed by SEAC in the CER and furnish the same.

Agenda No: 435-15

(File No: 10070/2023)

Expansion of Proposed Construction of Residential Township at S.F.Nos. 89/1A1A, 3A2, 90/1A2, 1B, 2A, 2B2A1, 2B2A2, 2B2B, 91/1, 100/4, 5, 6, 7, 105, 106/1A, 1B, 2, 3, 4, 107/1, 110, 111/2B, 112/1, 2, 3, 4, 5, 6, 7, 113/3, 4, 5, 117/1A, 1B1, 1B2, 2, 3, 4, 123/1, 2, 124, 125/1A, 1B, 2A, 2B1, 2B2, 3, 127/1A, 1B, 2, 129/1, 2A, 2B, 3, 130/1, 2, 3, 4, 131, 132/1B1, 1B2, 1B3, 2A, 2B, 3A, 3B1, 3B2, 4, 133/1B1A, 1B1B, 145/1, 2, 3, 4, 146, 147/1A1, 1A2, 1B, 2A, 2B, 148/1, 2, 3, 4A, 4B, 5, 149, 150, 152/1, 2, 153/1A, 1B1, 1B2, 2, 154/1A, 1B, 2, 155/1, 2, 3, 172/1, 2, 173/1, 2A, 2B, 174/2, 3A, 3C, 175, 176/1, 2A, 2C, 3A, 3C, 4A, 4C, 5A, 5C, 177/1, 2A, 2C, 3, 178/1A, 1C, 2A, 2B1, 179, 180/1, 2A, 2B, 3A, 3C, 4A, 4C, 5A, 5B, 6, 181/1, 182/1, 2A, 183/1, 2, 3, 4, 5, 6A1, 184/1A1, 1A3, 3A, 185/1, 186, 187, 188, 189/1, 2A, 190/3A1, 196/5A, 198/1, 199/1A1, 1A3, 1B, 1C, 2, 3, 200, 201/1, 3, 202/1, 3, 203, 204, 205, 206/1, 2, 207/1, 2A, 2B, 208, 209/1, 2B, 211/2A, 2B, 212/1, 4, 213 of Padur Village, Tiruporur Taluk and S.F.Nos. 198/10, 199/5A1 & 5A2 of Pudupakkam Village, Vandalur Taluk, Chengalpattu District, Tamil Nadu by M/s. Pacifica Builders Pvt Ltd – For Environmental Clearance. (SIA/TN/INFRA2/442418/2023, Dated: 31.10.2023)

The proposal was placed for appraisal in this 392nd meeting of SEAC held on 14.07.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). **The SEAC noted the following:**

1. The Proponent, M/s. Pacifica Builders Pvt Ltd has applied for Environmental


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- Clearance for the Expansion of Proposed Construction of Residential Township at S.F.Nos. 89/1A1A, 3A2, 90/1A2, 1B, 2A, 2B2A1, 2B2A2, 2B2B, 91/1, 100/4, 5, 6, 7, 105, 106/1A, 1B, 2, 3, 4, 107/1, 110, 111/2B, 112/1, 2, 3, 4, 5, 6, 7, 113/3, 4, 5, 117/1A, 1B1, 1B2, 2, 3, 4, 123/1, 2, 124, 125/1A, 1B, 2A, 2B1, 2B2, 3, 127/1A, 1B, 2, 129/1, 2A, 2B, 3, 130/1, 2, 3, 4, 131, 132/1B1, 1B2, 1B3, 2A, 2B, 3A, 3B1, 3B2, 4, 133/1B1A, 1B1B, 145/1, 2, 3, 4, 146, 147/1A1, 1A2, 1B, 2A, 2B, 148/1, 2, 3, 4A, 4B, 5, 149, 150, 152/1, 2, 153/1A, 1B1, 1B2, 2, 154/1A, 1B, 2, 155/1, 2, 3, 172/1, 2, 173/1, 2A, 2B, 174/2, 3A, 3C, 175, 176/1, 2A, 2C, 3A, 3C, 4A, 4C, 5A, 5C, 177/1, 2A, 2C, 3, 178/1A, 1C, 2A, 2B1, 179, 180/1, 2A, 2B, 3A, 3C, 4A, 4C, 5A, 5B, 6, 181/1, 182/1, 2A, 183/1, 2, 3, 4, 5, 6A1, 184/1A1, 1A3, 3A, 185/1, 186, 187, 188, 189/1, 2A, 190/3A1, 196/5A, 198/1, 199/1A1, 1A3, 1B, 1C, 2, 3, 200, 201/1, 3, 202/1, 3, 203, 204, 205, 206/1, 2, 207/1, 2A, 2B, 208, 209/1, 2B, 211/2A, 2B, 212/1, 4, 213 of Padur Village, Tiruporur Taluk and S.F.Nos. 198/10, 199/5A1 & 5A2 of Pudupakkam Village, Vandalur Taluk, Chengalpattu District, Tamil Nadu.
2. The project/activity is covered under category "B" of Item 8(b) "Townships and Area Development Projects" of the schedule to the EIA Notification, 2006, as amended.
3. Earlier EC issued by SEIAA-TN vide Letter No. SEIAA/TN/EC/8(b)/074/F-252/2010 Dt. 27.01.2010 for the Construction of Residential Township at S. No. 76, 77, 89/1A, 3A(Part), 90/1A, 1B, 2A, 2B, 2B2A, 91/1, 3, 92/1, 2, 3, 100/4, 5, 6, 7, 105, 106/1A, 1B, 2, 3, 4, 107/1, 110, 111/2B, 112, 113/3, 4, 5, 117, 123, 124, 125, 127/1A, 1B, 2, 129, 130, 131, 132/1B1, 1B2, 1B3, 2A, 2B, 3A, 3B1, 3B2, 4, 133/1B1, 145, 146, 147/1A, 1B, 2(Part), 148, 149, 150, 152, 153, 154, 155, 172, 173, 174/2, 3, 175, 176/1, 2, 3, 4, 5, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191/2, 3, 192, 193, 194/1, 2, 3, 4, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 211/2A, 2B, 212/1, 4, 213(Part) of Padur Village & 198/10, 199/5 of Pudupakkam Village, Chengalpattu Taluk, Kancheepuram District for total plot area of 3,32,512.19 Sq.m and total built-up area of 10,18,667 Sq.m comprising of 20 Nos of single bed residential towers (1520 Apartments), 56 Nos of double bed residential towers (4256


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Apartments) and 30 Nos of triple bed residential towers (2280 Apartments), commercial complex and club house with Stilt + 19 Floors in the name of **M/s. Pacifica (Chennai Project) Infrastructure Company Pvt. Ltd.**

4. Now, the proponent has submitted an application for the proposed expansion in built-up area for the construction of residential township in the name of **M/s. Pacifica Builders Private Limited.**
5. Total land area available is 2,92,993 Sqm. The total built-up area of the proposal is 11,27,617.75 Sqm. The project comprises of 3 phase. In Phase-1, Block A with Stilt + 19 Floors, Block B with Stilt + 15 Floors, Block C with Stilt + 13 Floors + Pent House in 14th & 15th Floor & Block D with Stilt + 15 Floors. Block A, B, C & D consist of combined basement. In Phase-2, Block A1, B1, D1 with Combined Basement + Stilt + 19 Floors. In Phase-3, Block A1, A2, B1 (7 Nos), B2 (8 Nos), C1 (12 Nos) and C2 (11 Nos) with Combined Basement + Stilt + 19 Floors.
6. The PP reported that "Due to the market price fluctuation and financial constraints, Only the Phase 1 (Block A, B, C & D – 662 Dwelling units) is completed. The project could not be completed within the validity of Environmental Clearance. Hence, we are applying for Expansion of Environmental Clearance."
7. Certified Compliance Report (CCR) obtained from Integrated Regional Office (IRO), MoEF&CC vide F.No. E.P./12.1/SEIAA/112/TN/507 Dated: 27.04.2023
8. ToR issued by SEIAA-TN vide Lr No.SEIAA-TN/F.No. 10070/SEAC/8(b)/ToR-1512/2023 dated: 31.07.2023
9. EIA Report submitted on 02.11.2023

Based on the presentation and the documents furnished by the project proponent, the SEAC decided to call for the following details from the project proponent:

1. The PP shall furnish the Wet land conversion certificate obtained from the competent authority for the wet land survey numbers to utilize the same for residential purpose.


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2. The PP shall furnish the realistic/viable data & quantity for water consumption, wastewater generation and its treatment and disposal methods and also correct the water balance accordingly with proper justification.
3. The PP shall mention the existing STP capacity and proposed STP capacity and correct the specifications.
4. The PP shall furnish the Design adequacy report for the STPs.
5. The PP shall furnish the latest Report of Analysis (RoA) of sewage samples collected from the existing STP by TNPCB.
6. The PP shall furnish the E-waste generation data and its disposal details under Solid waste management column.
7. The PP shall furnish the exact parking requirements for the proposed residential township project with calculation and supporting documents.
8. The PP shall furnish the inundation certificate obtained from the competent authority.
9. The PP shall furnish the traffic congestion study report & Traffic NOC obtained from the competent authority.
10. The PP shall furnish the NOC obtained from the competent authority for the fresh water requirement and excess treated sewage disposal.
11. The PP shall furnish the existing & proposed tree plantation details with geo referencing for the proposed residential township project with recommended tree species by the agricultural department.
12. The PP shall furnish the complete drone video and photos of the present site conditions.
13. The PP shall furnish the NOC obtained from the Airport authority of India, since it is a proposed high-rise building.
14. The PP shall furnish the fire license obtained from the competent authority.
15. The PP shall earmark the Children's play area within the project site.
16. The PP shall furnish the details regarding the implementation of Environment Management Cell for the proposed construction project.
17. The PP shall furnish the proposal for IGBC green building norms.


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On receipt of the above details, the SEAC would further deliberate on this project and decide the further course of action. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVESH portal.

Agenda No: 435- 16

(File No: 10559/2023)

Re Development of Periyar Bus Stand Near Junction Tirunelveli at S. No.589/1A1,1B of Tirunelveli Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by M/s. Tirunelveli City Municipal Corporation- For Terms of Reference (Under Violation).


(SIA/TN/INFRA2/452866/2023, Dated:21.11.2023)

The proposal was placed in the 435th SEAC meeting held on 28.12.2023. 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. Tirunelveli City Municipal Corporation has applied for Terms of Reference Under Violation for the Re Development of Periyar Bus Stand Near Junction Tirunelveli at S.No.589/1A1,1B of Tirunelveli Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 8(a) "Building and Constructions Projects" of the Schedule to the EIA Notification, 2006.
3. The plot area of the project site is 17,199 sq.m (4.25 Acre). The built-up area of the project site is 25,102 sq.m.
4. **As per MoEF & CC Notification S.O. 804 (E) dated 14.03.2017,**

*"In case the project or activities requiring prior Environmental Clearance under EIA Notification 2006 from the concerned Regulatory Authority are brought for Environmental Clearance **after starting the construction work**, or have undertaken expansion, modernization and change in product-mix **without prior EC**, these projects shall be treated as **cases of violations** and in such cases, even Category B projects which are*


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granted Environmental Clearance by the SEIAA constituted under sub-section(3) section 3 of the Environment (Protection) Act 1986 shall be appraised for grant of Environmental Clearance only by the concerned Expert Appraisal Committee and Environmental Clearance will be granted accordingly".

5. MoEF& CC Notification S.O.1030 (E) dated 08.03.2018.
6. MoEF&CC OM F.No.22-21/2020-IA.III Dt:07.07.2021.
7. MoEF&CC OM F.No.22-21/2020-IA.III [138949] Dt:28.01.2022.
8. Complaints received against the unit regarding completion of the new bus-stand buildings in Sindhupoondural Village, Tirunelveli District, Tamil Nadu Without obtaining Environmental Clearance as per EIA Notification 2006.
9. In the present case, the proponent has started the proposed construction work without obtaining EC and hence the proposal has to be treated as 'violation'.

Based on the presentation & documents furnished, since the PP has started the project without obtaining EC and has also not applied during the window period, this project has to be treated as violation case under SoP notified by the MoEF & CC outside the window period.

The SEAC noted that, the MoEF&CC has issued office memorandum Dated 28th January, 2022 regarding observation of Hon'ble Supreme Court with reference to the SoP dated 7th July 2021 for identification and handling of violation cases under EIA Notification 2006 and stated that "*93. The interim order passed by the Madras High Court appears to be misconceived. However, this Court is not hearing an appeal from that interim order. The interim stay passed by the Madras High Court can have no application to operation of the Standard Operating Procedure to projects in territories beyond the territorial jurisdiction of Madras High Court. Moreover, final decision may have been taken in accordance with the Orders/ Rules prevailing prior to 7th July, 2021.*"

Hence SEAC decided to issue the following Terms of Reference along with submission of assessment of ecological damage, remediation plan and natural and community resource augmentation plan, as per Notification vide S.O.804(E) Dt. 14.3.2017. Terms


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of Reference are issued subject to final orders of the Hon'ble High Court of Madras in the matter W.P.(MD) No. 11757 of 2021.

1. The proponent shall submit an Affidavit before the issuance of Violation ToR to SEIAA-TN stating that the construction operations will remain suspended till they obtain the EC granted by the SEIAA.
2. The PP shall furnish details of toilet facilities meant for public and drivers in the EIA report.
3. The PP shall furnish the details of canteen facilities in the EIA report.
4. The PP shall complete tree plantation, library facilities for the 42 Corporation schools as committed by the PP and the details shall be furnished in the EIA report.
5. The PP shall adopt permeable pavement design to harvest rainwater.
6. The PP shall furnish proposal for utilization of at least 50% of roof top area for harnessing Solar Energy for common area lighting and Solar water heater etc shall be included in the EIA/EMP report.
7. The proponent shall provide green parking area as per the requirements at ground level.
8. The traffic study shall be included in the EIA Report.
9. The PP shall furnish Fire NOC.
10. The proponent shall furnish the details of sewage treatment technology proposed for this proposed existing activity and also furnish the design details of the said STP along with adequacy report from any one of the reputed Educational Institution.
11. The treated/untreated sewage water shall not be let-out from the unit premises accordingly revised water balance shall be incorporated.
12. The project proponent shall furnish proposal for the adequate elevated closed roof area earmarked for collection, segregation, storage & disposal of wastes generated within the premises as per provisions of Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as


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amended, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001, STP, ETP along with development area for the proposed project activity.

13. The proposal to 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.
14. As per G.O. Ms. No. 142 approval from Central Ground Water Authority shall be obtained for withdrawal of water and furnish the copy of the same, if applicable.
15. Copy of the village map, FMB sketch and "A" register shall be furnished.
16. Detailed Evacuation plan during emergency/natural disaster/untoward accidents shall be submitted.
17. Details of the Rain water harvesting system with cost estimation should be furnished.
18. A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains and sub-drains in accordance with the contour levels of the proposed project considering the flood occurred in the year 2015 and also considering the water bodies around the proposed project site & the surrounding development. The storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.
19. The proposed OSR area should not be included in the activity area. The OSR area should not be taken in to account for the green belt area.


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20. The layout plan shall be furnished for the greenbelt area earmarked with GPS co-ordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should not be less than 15% of the total land area of the project.
21. A detailed post-COVID health management plan for construction workers as per ICMR and MHA or the State Govt. guideline may be followed and report shall be furnished.
22. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modelling for the ground water, emission, noise and traffic.
23. As per the MoEF&CC Office Memorandum F.No.22-65/2017-IA.II dated: 30.09.2020 and 20.10.2020, the proponent shall furnish the detailed EMP mentioning all the activities as directed by SEAC.


Agenda No.435-17


File No: 10568/2023

Proposed Construction of District Headquarters Hospital at Hosur in Krishnagiri District at S.F.Nos.20/2B, 20/3B, 21/1B, 21/2 & 21/3, Naligabetta Agraharam Village, Hosur Taluk, Krishnagiri District by M/s. M/s.Government Hospital - For Environmental Clearance. (SIA/TN/INFRA2/453798/2023, dt: 30/11/2023)

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

1. The Environmental Clearance is sought for "PROPOSED CONSTRUCTION OF BUILDING FOR THE STRENGTHENING OF DISTRICT HEADQUARTERS HOSPITAL AT HOSUR IN KRISHNAGIRI DISTRICT" by M/s. Government Hospital-Krishnagiri (Hosur).
2. M/s. Hubert Enviro Care Systems Pvt Ltd is the EIA Consultant for the project.
3. Total plot area of the project is **6.04 acres (24470.00 Sq.m)** in which total developable area is **6.04 acres (24470.00 Sq.m)** respectively.


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4. Maximum number of floors in the project will be **6 (in main building)** and maximum height of the building will be **25.8 m**.
5. The total developable area is **6.04 acres (24470.00 Sq.m)** which includes Main building, CSSD, Kitchen, Leprosy building, Mortuary, Biomedical room, laundry, Canteen, TB ward, HT Room, STP. ETP, Road, Storm Water Drain, parking, 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	6.04 acres (2.447 Ha)	Acres (Ha)
2	Proposed Built Up Area	25139.76	SQMT
3	Total no of Saleable DU's/Villas	Nil, it is a hospital project	No.
4	Max Height - (Height of tallest block)	25.8	M
5	No of Building Blocks (Residential + Community facilities)	9 blocks (Main building, CSSD., Leprosy building, Mortuary, Biomedical room, laundry, Canteen, TB ward & HT Room)	No.
6	Max No of Floors	6	No.
7	Expected Population	Construction phase - 500 Nos. Operation phase - 5226 Nos	No.
8	Total Cost of Project	100	CR


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9	Project Activity :	<p>“Proposed Construction Of Building For The Strengthening Of District Headquarters Hospital At Hosur In Krishnagiri District” comprising of 9 blocks (Main building, CSSD., Leprosy building, Mortuary, Biomedical room, laundry, Canteen, TB ward & HT Room) Operation Theatre Beds- 7 Nos. No. Of Beds - 435 Nos. In-Patient - 442 Nos. Outpatient - 2500 Nos.</p>
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AREAS

10	Permissible Ground Coverage Area (xx%)	75%	SQMT
11	Proposed Ground Coverage Area (xx%)	21.20%	SQMT
12	Permissible FSI Area (xxx)	1.50	
13	Proposed FSI Area	0.91	
14	Other Non FSI Areas - including basement area etc.	-	
15	Proposed Total Built Up Area	25139.76	SQMT

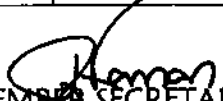
WATER

16	Total Water Requirement	409	KLD
17	Fresh water requirement	266	KLD
18	Treated Water Requirement	143	KLD
19	Wastewater Generation	335 (Sewage-295 & Effluent-40)	KLD
20	Proposed Capacity of STP & ETP	STP-350	KLD


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		ETP-50																		
21	Treated Water Available for Reuse	143	KLD																	
22	Treated Water Recycled		KLD																	
23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	excess treated water (192KLD) will be used for nearby hospital campus greenbelt development.	KLD																	
RAINWATER HARVESTING																				
24	Rainwater Harvesting - Recharge Pits	18	No.																	
25	Rainwater Harvesting Sump Capacity	Nil	M ³																	
PARKING																				
25	Total Parking Required as per Building Bye Laws	<table border="1"> <thead> <tr> <th>Particulars</th> <th>Required</th> <th>Provided</th> <th>Area (sq.m)</th> </tr> </thead> <tbody> <tr> <td>Car parking</td> <td>223</td> <td>223</td> <td rowspan="4">4052.9</td> </tr> <tr> <td>Car parking-DA</td> <td>23</td> <td>23</td> </tr> <tr> <td>Two wheeler parking</td> <td>223</td> <td>224</td> </tr> <tr> <td>Two wheeler parking-DA</td> <td>23</td> <td>25</td> </tr> </tbody> </table>	Particulars	Required	Provided	Area (sq.m)	Car parking	223	223	4052.9	Car parking-DA	23	23	Two wheeler parking	223	224	Two wheeler parking-DA	23	25	ECS
Particulars	Required	Provided	Area (sq.m)																	
Car parking	223	223	4052.9																	
Car parking-DA	23	23																		
Two wheeler parking	223	224																		
Two wheeler parking-DA	23	25																		
26	Proposed Total Parking		ECS																	
27	Parking in Basements	Nil																		
GREEN AREA																				
28	Proposed Green Area (Minimum 15.0% of plot area)	GB- 5710.05 Sq.m OSR GB: 2559.35 Sq.m	Acres (Ha)																	


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	Total area	6.04 acres (2.4470 Ha)	Acres (Ha)		
	Existing trees on plot	7	Nos		
	Number of trees to be planted	1785	Nos		
	Number of trees to be transplanted/cut	7 (cut) based on requirement	Nos		
SOLID WASTE MANAGEMENT					
29	Total Solid Waste Generation	1.613	TPD		
30	Organic waste	0.947	TPD		
31	Mode of Treatment & Disposal	Waste	Treatment / disposal method	TPD	
		Inorganic	Disposed through Authorized Recyclers.		
		organic	Disposed through Local Bodies (Hosur Municipal Corporation).		
32	Quantity of Sludge Generated from STP & Disposal	35 kg/day sludge from STP will be used as manure	KG/D AY		
33	Quantity of E-Waste Generation & Disposal	As per Norms, it will be disposed	KG/D AY		
34	Quantity of Hazardous waste Generation & Disposal	Description	Proposed Qty generated (L/M)	Treatment / disposal method	LPD
		Spent Oil	120	Authorized Recyclers	


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		Sludge from ETP (Kg/month)	150	TNPCB Authorized TSDF
POWER / GREEN POWER				
34	Total Power Requirement	0.7		MVA
35	DG set backup	1x500		KVA
36	No of DG Sets			No.
37	Solar Panels – Roof Coverage	50%		%
38	Hot Water Requirement	-		-
	Of which met by Solar Panels	-		-

Population details:

POPULATION	
Hospital	TOTAL POPULATION (Nos.)
Staffs	491
In-patient	435
In-patient Attender	435
Out - patients	2500
Out - patient Attender	1365
Total	5226
EMP Cost	442 Lakhs


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CER Cost	Rs. 200 Lakhs as committed before SEAC to be utilized for improving infrastructure and utilities in the old existing maternity block.
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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:

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

1. The proponent shall to obtain fresh water supply and disposal of treated sewage/Effluent commitment letter from the competent authority before obtaining CTO. Also, the PP shall explore possibilities to utilize fresh water supply through Hogenakkal Scheme.
2. The project proponent shall provide STP of adequate capacity 350 KLD and ETP capacity of 40 KLD. The treated water shall be utilized for flushing, OSR and green belt within the proposed and the old hospital premises as proposed.
3. The PP shall ensure no untreated sewage /trade effluent is let-out at any time.
4. The PP shall comply with the Bio Medical Waste Management Rules 2016 as amended and the Bio medical waste generated shall be disposed through Authorised Bio medical waste Management facilities.
5. The proponent shall dispose the organic waste through local body and non-Biodegradable waste to authorized recyclers as committed.
6. The height of the stacks of DG sets shall be provided as per the CPCB norms.
7. The project proponent shall submit structural stability certificate from reputed


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- institutions like IIT, Anna University etc. To TNPCB before obtaining CTO.
8. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for Toilet flushing, Green belt development & OSR and no untreated water be let out of the premise.
 9. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.
 10. The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.
 11. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the **appendix**, in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
 12. Taller/one year old saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted in proper 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
 13. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
 14. The Existing trees available in the project site shall be retained/re planted in the periphery of the project site and no trees shall be cut down from the project site.
 15. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for


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- disposal of the E waste generation within the premise.
16. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
 17. No waste of any type to be disposed off in any other way other than the approved one.
 18. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
 19. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.
 20. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
 21. The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
 22. Solar energy should be at least 10% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
 23. 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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24. 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.

25. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall include demolishing plan & its mitigation measures in the EMP and adhere the same as committed.

26. As accepted by the Project Proponent the CER cost is Rs. 200 lakhs and the amount shall be spent for the as committed before SEAC for improving infrastructure and utilities in the existing old maternity block before obtaining CTO from TNPCB.

Agenda No: 435 - 18

(File No.10141/2023)

Proposed Construction of IT/ITES Development at Survey Nos. 36/1A1A1, 36/1A1A2, 38/2A1A2, 38/2A1B, 38/2A1C, 38/2A1D, 38/2A1E, 38/2A1F, 38/2A2, 47/1C1, 47/1C2 & 47/1C3 of Seevaram Village, Shollinganallur Taluk, Chennai District, Tamil Nadu by M/s. Jananya Realtors Pvt. Ltd. – For Terms of Reference.

(SIA/TN/INFRA2/417558/2023, dated: 01.06.2023)

The proposal was placed for appraisal in the 435th Meeting of SEAC held on 28.12.2023. 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. Jananya Realtors Pvt. Ltd.** has applied for Terms of Reference for the Proposed construction of IT/ITES Development at Survey Nos. 36/1A1A2, 38/2A1A2, 38/2A1B, 38/2A1C, 38/2A1D, 38/2A1E, 38/2A1F, 47/1C1, 47/1C2 & 47/1C3 of Seevaram Village, Shollinganallur Taluk, Chennai District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 8(b) "Area and township development Projects" of the Schedule to the EIA Notification, 2006.


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3. The total plot area of the proposal is 67,000 sq.m & the total built-up area is 5,24,431 sq.m

Based on the presentation made by the proponent and the documents furnished, SEAC decided to recommend the proposal for the grant of Terms of Reference (TOR), subject to the following TORs, in addition to the standard terms of reference for EIA study and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The proposal to achieve minimum of IGBC Platinum green building norms and shall obtain IGBC certificate.
2. The proponent shall furnish NOC obtained from the Airport Authority of India for the proposed height of the building.
3. As committed by the proponent, the site shall be cleared. Demolition activities should be carried out only after obtaining prior permission from competent authority.
4. The proponent shall explore the possibilities of using alternative fuel for DG set such as CNG, etc.
5. The proponent shall include the proposal for Corporate Environment Responsibility in the EIA Report.
6. At least 50% of the total energy consumption should be met through green energy sources.
7. The PP shall explore construction of 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 structure which was crucial to the overall eco-system.
8. Commitment letter from competent authority for supply of water shall be furnished.
9. Copy of the village map, FMB sketch and "A" register shall be furnished.


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10. Detailed Evacuation plan during emergency/natural disaster/unintended accidents shall be submitted.
11. The space allotment for solid waste disposal and sewage treatment & grey water treatment plant shall be furnished.
12. Details of the Solid waste management plan shall be prepared as per solid waste management Rules, 2016 and shall be furnished.
13. Details of the E-waste management plan shall be prepared as per E-waste Management Rules, 2016 and shall be furnished.
14. Details of the rain water harvesting system with cost estimation should be furnished.
15. A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains and sub-drains in accordance with the contour levels of the proposed project considering the flood occurred in the year 2015 and also considering the water bodies around the proposed project site & the surrounding development. The storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.
16. The layout plan shall be furnished for the greenbelt area earmarked with GPS coordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should not be less than 15% of the total land area of the project.
17. The proponent shall furnish the specific plan for the plantation.
18. Cumulative impacts of the Project considering with other infrastructure developments and industrial parks in the surrounding environment within 5 km & 10 km radius shall be furnished.
19. A detailed post-COVID health management plan for construction workers as per ICMR and MHA or the State Govt. guideline may be followed and report shall be furnished.


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20. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modeling for the ground water, emission, noise and traffic.
21. As per the MoEF&CC Office Memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall furnish the detailed EMP.


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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.


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


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14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
15. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
16. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are 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


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

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

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


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ROUGH STONE/JELLY/BLUE METAL QUARRY

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


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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.


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- 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 the PP shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC.
8. However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.

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


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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


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dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.

33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
34. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
35. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.

39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
41. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.


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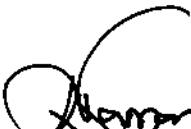

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Annexure II

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).



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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>Asple marmelos</i>	Vilvam	விவம்
2	<i>Adenaanthera pavonina</i>	Marjadi	மஞ்சாடி, ஆனாக்குன்றிமணி
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	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamararam	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புள்ளை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjalllavu	கோங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூளி
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	கருங்காளி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகளை
23	<i>Ficus ampissima</i>	Kallitchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்புலக
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aavili	ஆவா மரம், ஆவிலி
27	<i>Lannea coromandelica</i>	Odhiam	ஓதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விலா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிளிப்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	L'lakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனா
38	<i>Phoenix sylvestre</i>	Eachai	ஏச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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


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Appendix -III

Display Board

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

சுரங்கம்

அரசாங்கத்தில் சுவாமி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEAAV, தேதி: [] [] [] சுற்றுச்சூழல் அனுமதி [] தேதி வளர் செல்லத்தக்கதாக உள்ளது.

பணம் பகுதி வகைச்சரி செயல்பாடுகளை அரசுத் திட்டம்	சுவாமியின் எல்லைகள் சுற்றி வேடு அமைக்க வேண்டும். அங்கப்பாறையில் ஆழம் தளமாட்டத்திலிருந்து மீட்டர்க்கு மிகாமல் இருக்க வேண்டும். சுற்றுநிலை மாசு ஏற்படாதவாறு அங்கப் பணிகளை மேற்கொள்ள வேண்டும்.
தட்டப்படு புறமழ்ச்சிக்கப்படு வேண்டிய மரங்கள் எண்ணிக்கை:	வாணியக்க செல்லும் பாறையில் மாசு ஏற்படாத அளவிற்கு தண்ணீரை குறைப்பாக தண்ணீர் வாரிகளின் மூலமாக அவ்வப்போது தெளிக்க வேண்டும். இரவுச்சல் அளவைகள் சூரி மரங்கள் மட்டும் குறைப்பதற்காக சுவாமியின் எல்லைகள் சுற்றி அடத்தியான பணம் பகுதியை ஏற்படுத்த வேண்டும்.
அரசாங்கத்தில் வேடு எவ்வளவுப்பொழுது நிலத்திழ்வுகள் ஏற்படாதவாறும் மழையும் ஏற்கள் பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை உள்ளிப்பாக செயல்படுத்தப்பட வேண்டும்	
அரசாங்கத்தில் இருந்து ஏற்படும் இரவுச்சல் அளவு 85 டிசிபெல்ஸ் (dBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற் கொள்ள வேண்டும்.	
அங்க சட்ட விதிகள் 1955ன் கீழ் அரசாங்கத்தில் உள்ள பணிகளுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்கவேண்டி கைதாழ்வுள்ள கழிப்பறை வசதிகளை செய்ய தர வேண்டும்.	
கிராம அல்லது பஞ்சாயத்து வட்டமாக வாணியக்க செல்லும் சாலைகளை தொடர்ந்து நன்றாக பாதுகாக்க வேண்டும்.	
அங்கப்பணிகளால் அடையில் உள்ள விவசாயப் பணிகள் மற்றும் தீர்நிலைகள் பாதிக்கப்படக் கூடாது.	
தீர்நிலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் இலத்தூர் தீர்நிலைகளை தொடர்ந்து கண்காணிக்க வேண்டும்.	
அரசாங்கத்திலிருந்து கமிசர் பொருட்களை எடுத்துச் செல்லும் கிராம மக்களுக்கு எந்தத் சிரமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் சுற்றுச்சூழல் பாதிக்காத வண்ணம் வாணியக்களை இயக்க வேண்டும்.	
அங்கப்பணிகளின் முடிக்கப்பட்டவுடன் அங்க மூடல் திட்டத்தில் உள்ளவாறு அரசாங்கத்தினால் மூட வேண்டும்.	
அங்க நடவடிக்கைகளை முடித்தபின்னர் அங்கப் பகுதி மற்றும் அங்க நடவடிக்கைகளை இடையூறு ஏற்படக்கூடிய வேறு ஏற்றுப் பகுதியையும் மறுகட்டுமானம் செய்ய துவங்குவதில் விவகாரங்கள் ஆகியவற்றின் வகைச்சரிக்கு ஏற்ற வகையில் பணம் பகுதியை உருவாக்க வேண்டும்.	
முழுமையான நிபந்தனைகளை அறிப பாதிவேடு (http://parish.in) என்கிற இணையதளத்தைப் பார்க்கவும். மேலும் சுத்தவிற சுற்றுச்சூழல் சார்ந்த புள்ளிகளுக்கு சென்னைவில் உள்ள சுற்றுச்சூழல் மற்றும் வள அமைச்சகத்தின் ஓடுக்கிணைந்த வட்டார அலுவலகம்: 044 - 2822225 (அல்லது) தமிழ்நாடு மாசு கட்டுப்பாடு வாரியத்தின் மாவட்ட சுற்றுச்சூழல் பொறியாளரை அணுகவும்.	


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