

STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC)-DELHI
OFFICE OF DELHI POLLUTION CONTROL COMMITTEE
5th FLOOR, ISBT BUILDING, KASHMERE GATE, DELHI-110006

Minutes of the 125th Meeting of State Level Expert Appraisal Committee (SEAC) held on 18.03.2023 at 11:00 AM in the Conference Room of DPCC, at 5th Floor, ISBT Building, Kashmere Gate, Delhi 110006.

The 125th Meeting of State Level Expert Appraisal Committee (SEAC) was held on 18.03.2023 in the Conference Room of DPCC under the Chairmanship of Sh. Vijay Garg. The following Members of SEAC were present in the Meeting:

- | | | |
|---------------------------|---|------------------|
| 1. Sh. Vijay Garg | - | In Chair |
| 2. Sh. Pranay Lal | - | Member |
| 3. Ms. Jyoti Mendiratta | - | Member |
| 4. Dr. Sumit Kumar Gautam | - | Member |
| 5. Sh. Ashish Gupta | - | Member |
| 6. Ms. Paromita Roy | - | Member |
| 7. Sh. Chetan Agarwal | - | Member |
| 8. Sh. Gopal Mohan | - | Member |
| 9. Sh. Ankit Srivastava | - | Member |
| 10. Sh. Pankaj Kapil | - | Member Secretary |

Following SEAC Members could not attend the Meeting:

- | | | |
|-------------------------------|---|--------|
| 1. Dr. Sirajuddin Ahmed | - | Member |
| 2. Dr. Kailash Chandra Tiwari | - | Member |

Following SEAC Members could not attend the Meeting:

The DPCC Officials namely Sh. Amit Chaudhary (EE, DPCC), Sh. Rohit Kumar Meena, (JEE), DPCC and Sh. Manish Awasthi (JEE), DPCC assisted the Committee.

Due to sad demise of one of the members of SEAC, Sh. Surinder Kumar Juneja, the SEAC paid homage to him by observing the few minutes silence and passed a written condolence message to his bereaved family.

The Minutes of the 124th SEAC Meeting held on 24.02.2023 were confirmed by the Members.

Handwritten signatures and initials are present at the bottom of the page, including "CA", "Cem Vm", "Ashish", "Sumit", "Paromita", "Gopal", and "Ankit".

Agenda No: 01

Case No. 434

Name of the Project	Construction of Group Housing at Plot No. 2, Vishwas Nagar, East Delhi, Delhi-110032
Project Proponent	M/s Meru Resorts LLP
Consultant	Grass Roots Research & Creation India (P) Ltd
EIA Coordinator present during Meeting	Dr. K.L Sathapathy Mr. Akshay Jambhulkar.
Representatives of PP present during Meeting	Mr. Deepak Lakhotia Sujata Banerjee (Architect) GPMA
Proposal No.	SIA/DL/INFRA2/406831/2022
File No.	DPCC/SEIAA-IV/C-434/DL/2022

A. Details of the Proposed Project are as under:

1. The Proposal is for grant of EC for Construction of Group Housing at Plot No. 2, Vishwas Nagar, East Delhi, Delhi - 110032 by M/s Meru Resorts LLP and details have been updated/ modified in view of appraisal by SEAC.
2. The Project is located at **Latitude:** 28°39'41.60"N; **Longitude:** 77°17'36.03"E.
3. **Area Details:**
The Total Plot Area of the project is 7,185 sqm. The Proposed Total Built-up Area is 50,400.46 sqm (2B+G+31). The Proposed FAR Area is 20,330.6 sqm. The Proposed Non-FAR Area is 30,069.86 sqm. The Proposed Ground Coverage is 1,440.447 sqm. Total no. of expected population will be 1202 persons. Total no. of towers will be 2. The maximum height of the building will be 130 m.
4. **Water Details:**
During Construction Phase, 106 KLD treated water from STP will be used, and about 18 KLD freshwater will be required.
During Operational Phase, Total Water requirement of the project will be 115 KLD which will be met by 71 KLD of Fresh water from DJB and 44 KLD treated water from in house STP. Total Waste water generated from the project will be 85 KLD which will be treated in house STP of 110 KLD capacity. Treated Water from STP will be 77 KLD out of which 44 KLD will be recycled and reused for Flushing (24 KLD), Horticulture (15 KLD), Filter Backwash (5 KLD). Rest of the treated water i.e. 33 KLD will be discharged into sewer.
02 RWH pits have been proposed for Rain Water Harvesting (RWH).
5. **Solid Waste Details**
During Construction Phase,
The C&D waste will be used in backfilling, roads etc. & rest will be sent to authorized C&D waste management site.

Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

During the Operation Phase, Approximately 563 kg/day of Solid Waste will be generated from the project consisting of biodegradable waste of 225 kg/day. OWC of capacity 120 Kg/batch (2 batches/day/OWC) will be installed.

6. Power Details

During Operation Phase, Total connected load will be 1646 kW and maximum power demand will be 768 kW which will be met by the Tata Power Delhi Distribution Limited. For Power Back up, GG sets of Capacity 1500 kVA (2 x 750 kVA) will be installed.

Solar power generation system of capacity 76.8 kW will be installed.

7. Parking Facility Details: Total Proposed Parking is 322 ECS.

8. Eco-Sensitive Areas Details: Distance of Okhla Wildlife Sanctuary from project site is 9.05 Km and from Asola Wildlife Sanctuary is 16.5 Km.

9. Plantation Details: The proposed Green Area is 3326.255 sqm (46.29% of plot area). 100 nos. of trees are proposed within project site.

10. Cost Details: Total Cost of the project is INR 93.67 Crores including land & development cost.

After due deliberations, the SEAC in its 121st Meeting held on 22.12.2022, based on the information furnished, documents shown & submitted, presentation made by the project proponent recommended to seek the additional information which has been responded back by the project proponent on 26.01.2023 vide letter dated 20.01.2023 which is as follows:

S.No.	Information Sought by SEAC during SEAC Meeting dated 22.12.2022	Reply dated 20.01.2023 submitted on 26.01.2023
1.	Water assurance from DDA/DJB/NDMC/DCB including the following details: -Water assurance specifying the quantity of water to be supplied to the project. -Total water supply availability as per approved scheme of the command area in which the project is proposed to be developed. -The quantity of water already committed and after the quantity of water allotted to the project, the balance water available.	PP has informed that they have obtained assurance from the DDA vide letter dated 30.12.2022 for water supply and sewage line of 200 KLD water. PP has attached copy of assurance letter for reference.
2.	Water requirement during construction phase is proposed to be met from the treated water of nearby CSTP. PP is required to identify the source and clarify the arrangement for reusing the aforesaid treated water along with the mechanism proposed for making this water fit for use in construction. Figures of potable water are also required to be submitted.	PP has informed that they have received assurance from the DJB vide letter dated 07.01.2023 for supply of STP treated water from Yamuna Vihar Phase-I CSTP. PP has attached copy of the assurance letter for reference. PP has informed that they will test the quality of STP treated water supplied by DJB through an NABL accredited lab. PP has also informed that in case the quality

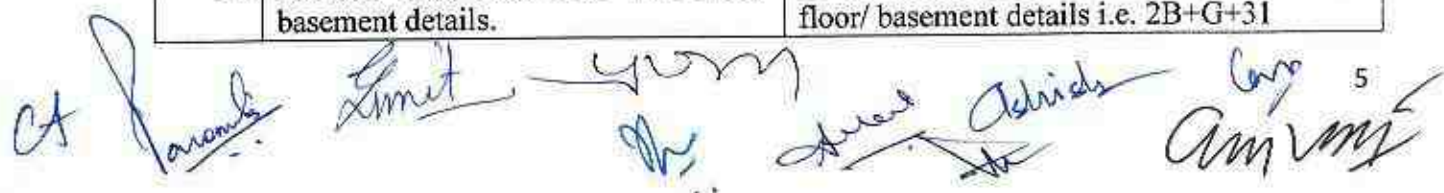
Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

		of STP treated water supplied by DJB does not meet the prescribed standards, they will further treat it to make it fit for use in construction.																																							
3.	Proportion wise Step Diagram showing the amount of reduction in net Per Capita Water Demand achieved through (1) Each Demand reduction strategy (eg. Low flow fixtures, Xeriscaping etc.), (2) Recycling and Reuse.	<p>PP has attached revised water mass balance after water conservation measures which is as follows:</p> <p>During Operation Phase (After taking conservation measures):</p> <table border="1"> <thead> <tr> <th>S.No.</th><th>Particulars</th><th>Quantity</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Total Water Requirement</td><td>115 KLD</td></tr> <tr> <td>2.</td><td>One time Fresh Water Requirement (Source: DDA)</td><td>71 KLD</td></tr> <tr> <td></td><td>Fresh water requirement (daily)</td><td>70 KLD</td></tr> <tr> <td></td><td>Swimming Pool</td><td>1 KLD</td></tr> <tr> <td>3.</td><td>Treated Water Requirement (Source: in House STP)</td><td>44 KLD</td></tr> <tr> <td></td><td>Flushing</td><td>24 KLD</td></tr> <tr> <td></td><td>Horticulture</td><td>15 KLD</td></tr> <tr> <td></td><td>Filter Backwash</td><td>5 KLD</td></tr> <tr> <td>4.</td><td>Treated Water Generated</td><td>77 KLD</td></tr> <tr> <td>5.</td><td>Treated water discharge in Sewer</td><td>33 KLD</td></tr> <tr> <td>6.</td><td>Waste Water Generated</td><td>85 KLD</td></tr> <tr> <td>7.</td><td>STP Capacity</td><td>110 KLD</td></tr> </tbody> </table>	S.No.	Particulars	Quantity	1.	Total Water Requirement	115 KLD	2.	One time Fresh Water Requirement (Source: DDA)	71 KLD		Fresh water requirement (daily)	70 KLD		Swimming Pool	1 KLD	3.	Treated Water Requirement (Source: in House STP)	44 KLD		Flushing	24 KLD		Horticulture	15 KLD		Filter Backwash	5 KLD	4.	Treated Water Generated	77 KLD	5.	Treated water discharge in Sewer	33 KLD	6.	Waste Water Generated	85 KLD	7.	STP Capacity	110 KLD
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4.	Water requirement for Anti-Smog Gun needs to be accounted for in fresh water requirement during construction phase.	<p>PP has attached total water demand during construction phase considering the deployment of Anti-Smog Guns.</p> <p>The details of water demand during construction phase is as follows:</p> <table border="1"> <thead> <tr> <th>Activity</th><th>Quantity</th><th>Source</th></tr> </thead> <tbody> <tr> <td>Construction activities</td><td>102 KLD</td><td>DJB STP</td></tr> <tr> <td>Anti-Smog</td><td>16.2 KLD</td><td>Fresh</td></tr> </tbody> </table>	Activity	Quantity	Source	Construction activities	102 KLD	DJB STP	Anti-Smog	16.2 KLD	Fresh																														
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CT *Parents* *Sumit* *Yum* *Shubh* *Ashish* *Long* *4*

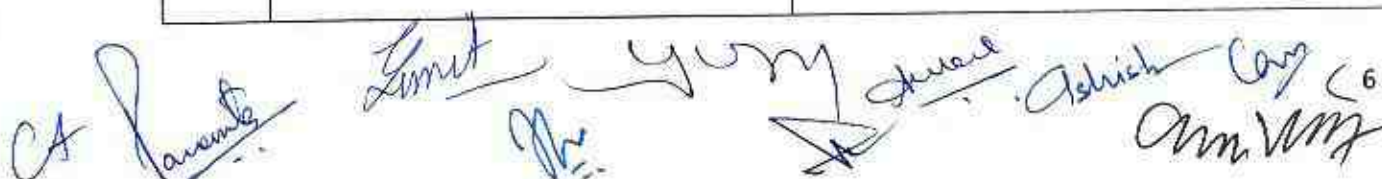
Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

		guns		water supplied through tanker
		Drinking water	1.4 KLD	Fresh water supplied through tanker
		Flushing water requirement	4 KLD	DJB STP
		Total Water Requirement	~124 KLD	
5.	Plan for handling/ disposal of excavated earth and storage/ stacking of construction material.	PP has informed that approx. 33,036.52 m3 of earth (including 1,437 m3 top soil) will be excavated from the project site out of which 6537 m3 (1437 m3 top soil + 5100 sqm excavated soil) will be utilized within the project for filling and landscaping purposes and rest will be disposed through local approved vendors/recyclers for use at other construction sites within 5 km. PP has also informed that the excavated soil will be kept covered with tarpaulin sheets to avoid dust emissions.		
6.	Revised Rain water harvesting/ retention plan needs to be submitted taking into account the ground water table.	PP has informed that Rain water harvesting system will be designed as per CGWA guidelines. PP has informed that proposed RWH pits are 2 nos. PP has attached Revised Rain water harvesting plan.		
7.	Revised clear schematic diagram of propose STP.	PP has attached Revised clear schematic diagram of proposed STP.		
8.	Top soil conservation plan.	PP has informed that approx. 1,437 m3 of top soil will be generated from project site which will be preserved and reused for landscape development of project at later stages and the stored top soil will be kept covered with tarpaulin sheets to avoid dust emissions.		
9.	STP performance to be demonstrated through stimulated model for targeted output.	PP has attached feasibility report of STP in response to the query raised.		
10.	Geo technical investigation report with soil investigation report.	PP has attached Geo technical investigation report in response to the query raised.		
11.	Revised area statement with floor/ basement details.	PP has attached Revised area statement with floor/ basement details i.e. 2B+G+31		



Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

12.	Elaboration wrt dewatering and its management if required.	PP has informed that ground water table depth at site varies from 7.5 m to 8 mbgl and depth of each basement is 3.3 m and the basement will be constructed 0.6 m above ground level. PP has informed that the ground water table will not be intersected in construction of basement. However, if dewatering is required, they will take permission from competent authority for withdrawal and disposal of ground water.														
13.	Resubmission of information wrt heat island effect with due indication of rise in temperature after operationalizing the building and its remedial measures proposed to be taken.	PP has attached Heat island effect study in response to the query raised.														
14.	Provide season wise simulation of Heat Island effect.	PP has attached Heat island effect study in reference to the query raised.														
15.	Using output of the simulation tools demonstrate that the lowest habitable floor has the exposure of direct sunlight atleast of 2 hrs as on 21st December.	PP has attached report having Solar Path analysis details in response to the query raised.														
16.	PP to submit a copy of the DDA approved layout plan of the plot alongwith an undertaking that the proposed design is in compliance with the above.	PP has informed that Layout plan approval from competent authority is in process. PP has attached a copy of the layout plan. PP has informed that project has been designed as per building bye-laws. PP has attached an undertaking for the same.														
17.	Revised landscape plan with demarcated green area.	PP has attached revised landscape plan with demarcated green area. <table><tr><th>Green Area Details</th><th>Area</th></tr><tr><td>Total Green Area</td><td>3053.409 sqm</td></tr><tr><td>Total Hardscape Area</td><td>718 sqm</td></tr><tr><td>Total Softscape Area</td><td>2335.409 sqm</td></tr><tr><td>Total No. of Trees</td><td>230 nos.</td></tr><tr><td>Trees outside the basement line</td><td>136 nos.</td></tr><tr><td>Trees at Basement</td><td>94 nos.</td></tr></table>	Green Area Details	Area	Total Green Area	3053.409 sqm	Total Hardscape Area	718 sqm	Total Softscape Area	2335.409 sqm	Total No. of Trees	230 nos.	Trees outside the basement line	136 nos.	Trees at Basement	94 nos.
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18.	Proportion wise Step Diagram showing the amount of reduction in net Per Capita Water Demand achieved through (1) Each Demand reduction strategy (eg. Low flow fixtures, Xeriscaping etc.), (2) Recycling and Reuse.	PP has attached the same as mentioned above in query no. 3.														



Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

19.	Revised realistic cost of EMP, recurring as well as capital including the cost of monitoring.	PP has attached revised cost of EMP during construction phase & operation phase which is as follows: During Construction phase, Capital cost will be 52.3 Lacs and Recurring cost will be 14.4 Lacs/ annum. During Operation phase, Capital cost will be 216 Lacs and Recurring cost will be 56.55 Lacs/ annum.										
20.	Revised calculation for solid waste generation figures accounting for the sludge generated from STP and its disposal methodology.	PP has attached revised solid waste generation figures including STP sludge which are as follows: <table><tr><th>Type of waste</th><th>Quantity</th></tr><tr><td>Domestic Solid Waste</td><td>551.6 kg/day</td></tr><tr><td>Horticulture Waste</td><td>0.15 kg/day</td></tr><tr><td>STP Sludge</td><td>47.31 kg/day</td></tr><tr><td>Total Waste</td><td>~599 kg/day</td></tr></table>	Type of waste	Quantity	Domestic Solid Waste	551.6 kg/day	Horticulture Waste	0.15 kg/day	STP Sludge	47.31 kg/day	Total Waste	~599 kg/day
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Total Waste	~599 kg/day											
21.	Power supply assurance from TPDDL/ BSES or the application submitted to the concerned agencies.	PP has attached the power supply assurance letter dated 13.01.2023 received from BSES for the proposed project.										
22.	Revised solar energy utilization to achieve atleast 10 % of power load requirement.	PP has attached revised solar energy utilization plan to meet 10% of power load (i.e. 76.8 kW) with location of 240 nos. of solar panels on terrace.										
23.	Parking proposal to achieve 30 % of the ECS for electric vehicle. In addition, provision should be made to allow extension of electric charging facility to all parking slots in the future.	PP has informed that they will provide 30 % of the total parking for electric vehicles. PP has also informed that in future, electric vehicle charging facility will be extended to all parking slots.										
24.	Proposal for a provision of toxic gas (Combustible gas, Carbon dioxide and Hydrogen sulphide, Methane, VOCs, Ammonia) detectors for STP area.	PP has informed that they will install toxic gas detectors near the tanks and pump room of STP. PP has also informed that these gas detectors will also be integrated with Fire detection and alarm as well as Ventilation system. PP has attached the detailed information about gas detectors proposed.										
25.	PP is required to submit provisions of necessary infrastructure and facilities made for construction labors at site and no. of labours and the detailed plan for the proposed labour camps for housing them.	PP has informed that they will provide rented accommodation facilities for construction labours in residing colonies and few hutments will be provided within the project site as 6 m space is proposed to left from all the sides of the project site. PP has also informed that labours will be provided with all necessary facilities such as creche, mobile toilets, mobile STPs, safe drinking water, Medical/healthcare, etc.										

CA *P. Kumar* *Amrit* *Yogendra* *Ashish* *7*
Comptroller

Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

26.	Pollution load and abatement plan during construction and operation phase for point and non-point sources with detailed calculation.	PP has informed about the measures taken by them in reference to the query raised.
27.	Revised EMP (Environment Management Plan) for dust mitigation measures during construction as per MoEF Notification No. GSR 94 (E) dated 25.01.2018/Hon'ble National Green Tribunal order in O.A. No.21 of 2014 and O.A. No. 95 of 2014 in the matter of Vardhaman Kaushik Vs. Union of India & others and Sanjay Kulshreshtha Vs Union of India & others/ CAQM Directions issued time to time including registration on Dust Pollution Control Self -Assessment Portal with provision of video fencing and low cost sensors for monitoring PM 2.5, PM 10.	PP has attached revised EMP (Environment Management Plan). PP has informed that they have done registration on Dust pollution control Self-assessment Portal. PP has attached a snapshot of the same.
28.	Revised Traffic Management Plan taking into consideration the latest traffic scenario. Detailed calculation of roads, bicycle paths, pedestrian spaces are to be provided along with traffic impact assessment and mitigation measures.	PP has attached revised Traffic Management Plan taking into consideration the latest traffic scenario
29.	Specify name and numbers of the post to be engaged by the proponent for implementation and monitoring of environmental parameters.	PP has informed that they will appoint Environment Manager for implementation and monitoring of environmental parameters. He will be the part of Building Management Team in operation phase in consultation with GRIHA/IGBC/LEED. PP has attached an undertaking for the same.

After due deliberations, the SEAC in its 123rd Meeting held on 01.02.2023, based on the information furnished, documents shown & submitted, presentation made by the project proponent recommended to seek the additional information which has been responded back by the project proponent on 21.02.2023 vide letter dated 20.02.2023 which are as follows:

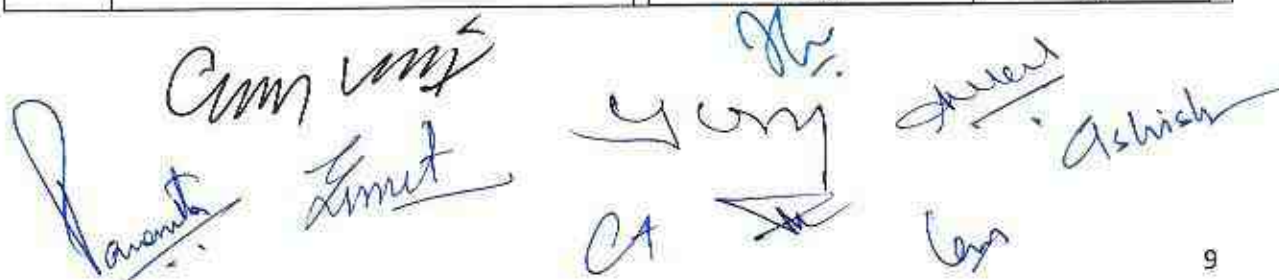
S.No.	Information Sought by SEAC during SEAC Meeting dated 22.12.2022	Reply dated 20.01.2023 submitted on 21.02.2023
1.	STP performance to be demonstrated through stimulated model for targeted output.	PP has uploaded STP performance Report.
2.	Revised heat island effect with due indication of rise in temperature after	PP has uploaded revised heat island effect with due indication of rise in temperature after operationalizing the building and its

8

(Handwritten signatures and initials are present at the bottom of the page, including names like Ashish, Om, and others.)

Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

	operationalizing the building and its remedial measures proposed to be taken.	remedial measures.														
3.	Revised EMP with physical terms instead of allocating fund for CER.	PP has attached Revised EMP (Environment Management Plan Cost) as follows: <table><tr><th>Phase</th><th>Capital Cost</th><th>Recurring Cost</th></tr><tr><td>Construction Phase</td><td>52.3 Lakhs</td><td>14.4 Lakhs</td></tr><tr><td>Operation Phase</td><td>145.05 Lakhs</td><td>60.55 Lakhs</td></tr></table>	Phase	Capital Cost	Recurring Cost	Construction Phase	52.3 Lakhs	14.4 Lakhs	Operation Phase	145.05 Lakhs	60.55 Lakhs					
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Construction Phase	52.3 Lakhs	14.4 Lakhs														
Operation Phase	145.05 Lakhs	60.55 Lakhs														
4.	Revised landscape plan with reconfirmation of nos. of trees to be planted.	PP has uploaded the revised landscape plan as annexure. PP submitted that total 100 nos. of trees (@1 tree at every 80 sq.m. of plot area) will be planted.														
5.	The middle Apartment on south side of Typical floor plan of Tower-2 does not meet the minimum 2-hour direct sunlight requirement on Dec-21. Modification on the site plan to be done accordingly, to meet this requirement.	PP has submitted the direct sunlight analysis for all possibilities.														
6.	Entry on 18m road side to be appropriately modified to minimize the pedestrian walking distance from the nearest Metro station	PP has submitted the justification for existing provisions with the information that pedestrian route to the nearest metro i.e. Krishna Nagar metro station is 650 m.														
7.	Resubmit information specifying name and numbers of the post to be engaged by the proponent for implementation and monitoring of environmental parameters.	PP has attached Environmental management plan specifying name and numbers of the post to be engaged. <table><tr><th>Designation</th><th>No. of Persons</th></tr><tr><td>Environment Officer</td><td>01</td></tr><tr><td>Maintenance In-charge</td><td>01</td></tr><tr><td>STP Monitoring persons</td><td>01</td></tr><tr><td>RWH Monitoring persons</td><td>01</td></tr><tr><td>Solid waste Collection & disposal monitoring person</td><td>01</td></tr><tr><td>Total</td><td>05</td></tr></table>	Designation	No. of Persons	Environment Officer	01	Maintenance In-charge	01	STP Monitoring persons	01	RWH Monitoring persons	01	Solid waste Collection & disposal monitoring person	01	Total	05
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After due deliberations, the SEAC in its 124th Meeting held on 24.02.2023, based on the information furnished, documents shown & submitted, presentation made by the project proponent recommended to seek the additional information which has been responded back by the project proponent on 12.03.2023 vide letter dated 10.03.2023 which is as follows:

S.No.	Information Sought by SEAC during SEAC Meeting dated 24.02.2023	Reply dated 10.03.2023 submitted on 12.03.2023									
1.	Revised response w.r.t. earlier information sought regarding STP performance report in 123 rd SEAC meeting	PP has uploaded revised STP performance Report.									
2.	Revised response w.r.t. earlier information sought regarding heat island effect in 123 rd SEAC meeting	PP has uploaded revised heat island effect with due indication of rise in temperature after operationalizing the building and its remedial measures.									
3.	Revised EMP by including realistic cost of STPs.	PP has attached Revised EMP (Environment Management Plan Cost) by including realistic cost of STPs which is as follows: <table border="1"> <thead> <tr> <th>Phase</th><th>Capital Cost</th><th>Recurring Cost</th></tr> </thead> <tbody> <tr> <td>Construction Phase</td><td>45 Lakhs</td><td>12.9 Lakhs</td></tr> <tr> <td>Operation Phase</td><td>145.05 Lakhs</td><td>60.55 Lakhs</td></tr> </tbody> </table>	Phase	Capital Cost	Recurring Cost	Construction Phase	45 Lakhs	12.9 Lakhs	Operation Phase	145.05 Lakhs	60.55 Lakhs
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B. After due deliberations, the SEAC in its 125th Meeting held on 18.03.2023 recommended as follows:

Based on the information furnished, documents shown & submitted, presentation made by the project proponent and recommended the case to SEIAA for grant of Environmental clearance imposing the following specific conditions:

1. Treated water of DJB STP should be used for construction purposes with tertiary treatment of treated water of DJB STP to ensure it is fit for construction use.
2. The project proponent shall adhere to the total water requirement – 115 KLD, Fresh water requirement – 71 KLD, Treated water requirement – 44 KLD (for recycling in flushing – 24 KLD, Horticulture 15 KLD, filter backwash – 5 KLD. Excess 33 KLD treated water from onsite STP will be discharged into sewer with prior permission from then competent authority.

10

Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

3. The treated waste water through STP shall achieve the effluent standards: pH (5.5-9.0), BOD (10 mg/l), TSS (20 mg/l), Oil and Grease (10 mg/l), Dissolved Phosphate as P (1 mg/l), Faecal Coliform (MPN/100 ml) – Desirable 100 permissible 230.
4. The project proponent should adhere to the Cost of Environmental Monitoring as committed i.e. capital cost of Rs. 45 Lacs and recurring cost of Rs. 12.9 Lacs/ year during construction phase and capital cost of Rs. 145.05 Lacs and recurring cost of Rs. 60.55 Lacs/ year during operation phase.
5. Formal approval shall be taken from the DJB/CGWA for any ground water abstraction of dewatering. The project proponent shall adopt suitable measures for controlling ground water backing up around basements.
6. At least 10 % (76.8 kW) of the total power load to be sourced from Solar (Renewable) energy as committed.
7. No. of Rain water harvesting pit shall be 2 nos. and storage tank of capacity of min. 1 day of total fresh water requirement. Boring for Rain Water Harvesting system should not be permitted/ done before completion of structure work. All recharge should be limited to shallow aquifer. Depth of boring should leave a buffer of atleast 5 m above ground water table.
8. PP shall install gas based generator as committed.
9. The Environment Management Cell consisting of atleast 1 Environment Officer and 1 Maintenance incharge supported by 3 monitoring assistant having specific knowledge and experience related to environmental safeguards/ air/ water pollution shall be created and made functional before commissioning of the proposed development.
10. Minimum 1 tree for every 80 Sq. Mt of plot area (100.nos) should be planted within the project site.
11. PP to provide minimum 30% of total parking arrangement with electric charging facility by providing charging points at suitable places as committed. PP to ensure that this should be provided in AC/DC combination. In addition, provision should be made to allow extension of electric charging facility to all parking slots in the future.
12. IoT based Flow Meters/ Sensors should be installed to monitor consumption of fresh water as well as treated water and log book for these flow meters be maintained in a regular manner. Flow meters shall be installed at Inlet of STP, outlet of STP, inlet of flushing tanks, inlet of cooling water tanks and reuse line for horticulture purposes and at the outfall/ sewer connection to be provided only for emergency discharge purposes with prior intimation to regulatory authority. Calibration for all the Flow meters shall be maintained on quarterly basis
13. Green building norms should be followed with a minimum 3 star GRIHA/IGBC/ASSOCHAM GEM rating and Gold rating should be followed up.
14. Construction & Demolition waste should be disposed of at authorized C&D waste collection centre/ processing unit.
15. Wind- breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 metres shall be provided all around the project site before the start of construction and demolition work.
16. The Project Proponent should take measures for control of Dust Pollution during construction phase in the Environmental Management Plan by taking measures as per MoEF&CC Notification No. GSR 94 (E) dated 25.01.2018/Hon'ble National Green

Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

Tribunal order in O.A. No.21 of 2014 and O.A. No. 95 of 2014 in the matter of VardhamanKaushik Vs. Union of India & others and Sanjay KulshreshthaVs Union of India & others, CAQM/CPCB/DPCC extant statutory orders/guidelines/directions issued time to time including registration/ self audit on Dust Pollution Control Self-Assessment Portal with provision of video fencing and low cost sensors for monitoring PM 2.5, PM 10. Atleast 04 Anti-Smog Gun be installed before starting the construction.

17. Project proponent shall be responsible for establishment, operation and maintenance of all common facilities and also for compliance of EC conditions during operation stage.
18. The cost of Environment Management Plan should be distinctly allocated in the budget of the project and details of the same along with time frame of the implementation should be reported in six monthly monitoring reports.
19. In view of MoEF&CC Office Memorandum No. 21-270/2008-IA.III dated 19.06.2013 read with MoEF&CC Office Memorandum No. 22-154/2015-IA.III dated 10.11.2015, this environmental clearance is granted focusing only on the environment concerns. The project will be regulated by the concerned local Civic Authorities under the provisions of the relevant provisions of the extant MPD-2021, Building Control Regulations and Safety Regulations.
20. The Environmental Clearance is subject to the condition that concerned local civic agencies will give the permission for use/ occupation of the building only after the written assurance of DJB/ New Delhi Municipal Council / other such local civic authority (as the case may be) regarding supply of adequate water for the residents/ occupiers.
21. Grant of environmental clearance does not necessarily implies that water/ power supply shall be granted to the project and that their proposals for water/ power supply shall be considered by the respective authorities on their merits and decision taking.
22. The investment made in the project, if any, based on environmental clearance so granted, in anticipation of the clearance from water/ power supply angle shall be entirely at the cost and risk of the project proponent and SEAC/SEIAA, Delhi shall not be responsible in this regard in any manner.
23. As proposed, fresh water requirement shall not exceed 71 KLD. Occupancy Certificate shall be issued only after getting necessary permission for required water supply from DDA/DJB/ concerned Authority.
24. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/ reused for flushing, gardening and filterbackwash..
25. The PP shall provide toxic gas (Combustible gas, Carbon dioxide and Hydrogen sulphide, Methane, VOCs, Ammonia) detectors for STP area.
26. Energy audit shall be carried out periodically to review energy conservation measures.
27. All sensor/meters based equipments should be calibrated on quarterly basis.
28. Climate responsive design as per Green Building Guidelines in practice should be ensured to the maximum extent.
29. Vegetation should be adopted appropriately on the ground as well as over built structures such as roofs, basements, podiums etc.

Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

30. Green belt development surrounding the campus, avenue tree planting and garden development should commence from the beginning of the construction phase. Only indigenous species should be used for green belt and avenue trees.
31. Exposed roof area and covered parking should be covered with material having high solar reflective index.
32. Building design should cater to the differently-abled citizens.
33. PP shall keep open space unpaved to the maximum extent possible so as to ensure permeability of water. However, whenever paving is deemed necessary, PP to provide grass pavers of suitable types & strength to increase the water permeable area as well as to allow effective fire tender movement.
34. All the vibrating parts will be checked periodically and serviced to reduce the noise generation and sound producing equipment.
35. Construction activities will be allowed only during day-time period.
36. Lubrication will be carried out periodically for plant machinery.

Ch Parvath Limit Yong Shreed
Com VM Th Ashish
Com

Agenda: 02

Case No C-428

Name of the Project	EC for Group Housing at Plot 67, Kirti Nagar, West Delhi, Delhi
Project Proponent	DGM, M/s TARC Projects Limited, 67 Najafgarh Road, Kirti Nagar, New Delhi-110015
Consultant	M/s Perfect Enviro Solutions Pvt. Ltd
EIA Coordinator present during Meeting	Ms. Rachna Bhargava Sreeja Sreekanth
Representatives of PP present during Meeting	Rakesh Kumar Seth (Sr. Manager) Tushar Kovi
Proposal No.	SIA/DL/INFRA2/401931/2022
File No.	DPCC/SEIAA-IV/C-428/DL/2022

A. Details of the Proposed Project are as under:

1. The Proposal is for grant of EC for Group Housing at Plot 67, Kirti Nagar, West Delhi, Delhi by M/s TARC Projects Limited and details have been updated/ modified in view of appraisal by SEAC.
2. The Project is located at **Latitude: 28°39'24.77"N; Longitude: 77°8'48.16"E**.
3. **Area Details:**

The Total (Net) Plot Area of the project is 24,793.580 sqm. The existing Built up Area is 68,142.73 sqm (as per previous EC dated 08.07.2008) which will be demolished. The Proposed Ground Coverage is 3,899.038 sqm and the Proposed Total Built-up Area (FAR + Non FAR Area) is 2,21,677.63 sqm. The Proposed FAR Area is 86,274.34 sqm and Proposed Total Non-FAR Area is 135,403.291 sqm. The total no. of Basements will be 2 nos. The Total Basement Area is 39,372.75 sqm (Basement 1: 19,194.76 sqm and Basement 2: 20,178.00 sqm). The proposed buildings are 4 Residential tower + commercial (CSP) + EWS + club towers. The total nos. of floors will be G+S+27. Total No. of units will be 781 (Dwelling Units: 493 nos, EWS Units: 144 nos and CSP units: 144 nos.) The total no of expected population is 3965 persons. The max. height of the building is 116.1 m.

4. Water Details:

During Construction Phase,

Total water requirement will be 30 KLD out of which 20 KLD of water will be required for domestic purpose which will be sourced through tanker supply and 4 KLD of water will be required for construction use and 6 KLD of water will be required for 4 Nos. of ASGs which will be taken from Keshopur STP.

During Operational Phase (after conservative measures), Total Water requirement of the project will be 605 KLD which will be met by 283 KLD of Fresh water from Delhi Jal Board and 322 KLD of Treated water from in house STP. Out of 283 KLD Fresh Water, 273 KLD Fresh water will be used for Domestic Purposes and 10 KLD will be used for

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Swimming Pool. Total Waste water generated will be 370 KLD which will be treated in-house STP of 550 KLD capacity. Treated Water from STP will be 333 KLD, out of which 322 KLD which will be recycled and reused for Flushing (138 KLD), Gardening (44 KLD), DG Cooling/HVAC (138 KLD), Miscellaneous (2 KLD) and excess treated water i.e. 11 KLD will be discharged into sewer.

Total 5 no. of RWH pits will be provided (4 are existing & 1 will be proposed) with a total capacity of 357.65 m³.

5. **Solid Waste Details**

During Construction Phase, Total solid waste generation from laborers will be 22.5 kg/day out of which 11.5 kg/day will be biodegradable which will be disposed off at solid waste disposal sites and 11.0 kg/day will be non-biodegradable waste and will be given to authorized recyclers.

During the Operation Phase, Approx. 1664 kg/day of domestic solid waste will be generated from the complex out of which 998 kg/day of Biodegradable waste will be treated in 01 Nos. OWC of capacity 1250 Kg/day and 666 kg/day of Non-Biodegradable Waste (Recyclable and Non-Recyclable) will be given to approved recyclers. Sludge generation will be 227.54 kg/day.

6. **Power Details:**

During Construction Phase, For Power backup failure, DG sets of capacity 2x125kVA will be installed with adequate stack height.

During Operation Phase, Total Power requirement will be 7686 kW and will be supplied by BSES Rajdhani. For Power Back up, Gas based Generator Sets of Capacity 5x1500 kVA and 1x750 kVA will be installed.

5% (384.3 KW) of total energy demand will be met through solar energy.

7. **Parking Facility Details:** Total Proposed Parking is 1420 ECS including electrical car parking provision of 426 ECS.

8. **Eco-Sensitive Areas Details:** Distance of Okhla Wildlife Sanctuary from project site is 19.01 Km SE and from Asola Wildlife Sanctuary is 20.20 Km SSE.

9. **Plantation Details:** The proposed Green Area is 14,706.58 sqm. out of which soft green area is 6370.58 sqm & and hard green is 8336 sqm.. Total no. of existing trees at site is 8 nos, which will be retained and no. of existing shrubs are 62 nos. Total no. of trees proposed is 310 nos.

10. **Cost Details:** Total Cost of the project is Rs 300 Crores.

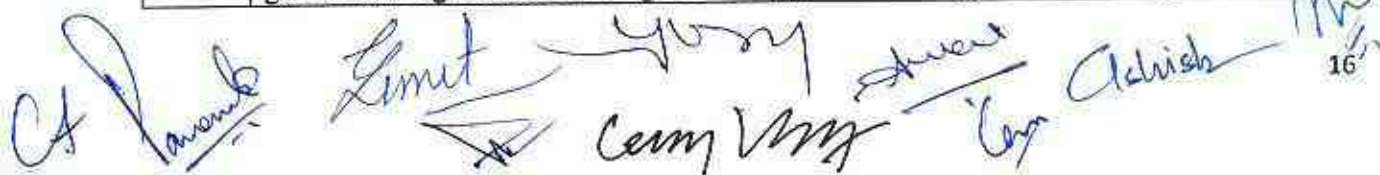
The TOR was issued to the project proponent by SEIAA, Delhi vide letter no. DPCC/SEIAA-IV/C-381(ToR)/DL/2021/4015-4018 dated 08.07.2022. Accordingly the PP submitted the EIA report.

After due deliberations, the SEAC in its 119th Meeting held on 25.11.2022, based on the information furnished, documents shown & submitted, presentation made by the project proponent recommended to seek the additional information which has been responded back by the project proponent on 03.03.2023 vide letter dated 02.03.2023 which is as follows:.

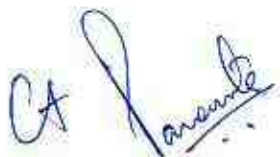




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Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

S.No.	Information Sought by SEAC during SEAC Meeting dated 25.11.2022	Reply dated 02.03.2023 submitted on 03.03.2023
1.	Traffic plan approval by Unified Traffic and Transportation Infrastructure (Planning & Engineering) Centre (UTTIPEC).	PP has attached reply letter of UTTIPEC dated 16.12.2022 received in response of their application for traffic plan approval by UTTIPEC.
2.	Assurance for supply of Treated Sewage during Construction Phase. PP is required to clarify the arrangement for reusing the aforesaid treated water along with the mechanism proposed for making this water fit for use in construction.	PP has attached request letter to DJB during the construction phase. PP has attached characteristics of STP treated water and standards for construction water.
3.	Water assurance from DJB for meeting the quantum of water supply during operational phase with following details. <ul style="list-style-type: none"> • Water assurance specifying the quantity of water to be supplied to the project. • Total water supply availability as per approved scheme of the command area in which the project is proposed to be developed. • The quantity of water already committed and after the quantity of water allotted to the project, the balance water available. 	PP has attached DJB letter dated 10.08.2021 regarding submission of IFC charges calculated by DJB for issuance of NOC.
4.	Power supply assurance from TPDDL/ BSES or the application submitted to the concerned agencies.	PP has attached power feasibility report from TPDDL dated 29.12.2022.
5.	Break up of green area duly demarcating road area, green area, soft green area and hardscape area and Revised landscape plan with design of natural storm water retention capacity in green areas by marginal lowering and gradient management which can enhance natural percolation and indicate the same in m3 with due demarcation.	PP has informed that Total green area provided is 14,706.580 sqm out of which soft green area is 6370.58 sqm & and hard green is 8336 sqm. PP has attached Revised landscape plan with design of natural storm water retention capacity in green areas by marginal lowering and gradient management. PP has informed that there are 8 nos. of existing trees present at site with 62 nos. of shrubs. PP has attached details of the same.
6.	Revised calculation for solid waste generation figures accounting for the	PP has attached revised solid waste generation figures including STP sludge



	sludge generated from STP and its disposal methodology.	<p>which are as follows:</p> <table><tr><th>Type of waste</th><th>Quantity (kg/day)</th></tr><tr><td>Biodegradable waste</td><td>998</td></tr><tr><td>Non-Biodegradable waste</td><td>666</td></tr><tr><td>STP Sludge</td><td>227.54</td></tr><tr><td>Total Waste</td><td>1891.4</td></tr></table> <p>PP has informed that 1 no. of OWC is proposed of total capacity 1250 kg/day.</p>	Type of waste	Quantity (kg/day)	Biodegradable waste	998	Non-Biodegradable waste	666	STP Sludge	227.54	Total Waste	1891.4																																
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7.	Revised water mass balance chart with reduced fresh water demand reviewing demand reduction strategies, recycling/ reuse.	<p>PP has attached revised water mass balance after water conservation measures which is as follows:</p> <p>During Operation Phase (After taking conservation measures):</p> <table><tr><th>S.No.</th><th>Particulars</th><th>Quantity</th></tr><tr><td>1.</td><td>Total Water Requirement</td><td>605 KLD</td></tr><tr><td>2.</td><td>One time Fresh Water Requirement (Source: DJB)</td><td>283 KLD</td></tr><tr><td></td><td>Fresh water requirement (daily)</td><td>273 KLD</td></tr><tr><td></td><td>Swimming Pool</td><td>10 KLD</td></tr><tr><td>3.</td><td>Treated Water Requirement (Source: in House STP)</td><td>322 KLD</td></tr><tr><td></td><td>Flushing</td><td>138 KLD</td></tr><tr><td></td><td>Cooling</td><td>138 KLD</td></tr><tr><td></td><td>Misc.</td><td>2</td></tr><tr><td></td><td>Gardening</td><td>44 KLD</td></tr><tr><td>4.</td><td>Waste Water Generated</td><td>370 KLD</td></tr><tr><td>5.</td><td>STP Capacity</td><td>550 KLD</td></tr><tr><td>6.</td><td>Treated Water Generated</td><td>333 KLD</td></tr><tr><td>7.</td><td>Treated water discharged into sewer</td><td>11 KLD</td></tr></table>	S.No.	Particulars	Quantity	1.	Total Water Requirement	605 KLD	2.	One time Fresh Water Requirement (Source: DJB)	283 KLD		Fresh water requirement (daily)	273 KLD		Swimming Pool	10 KLD	3.	Treated Water Requirement (Source: in House STP)	322 KLD		Flushing	138 KLD		Cooling	138 KLD		Misc.	2		Gardening	44 KLD	4.	Waste Water Generated	370 KLD	5.	STP Capacity	550 KLD	6.	Treated Water Generated	333 KLD	7.	Treated water discharged into sewer	11 KLD
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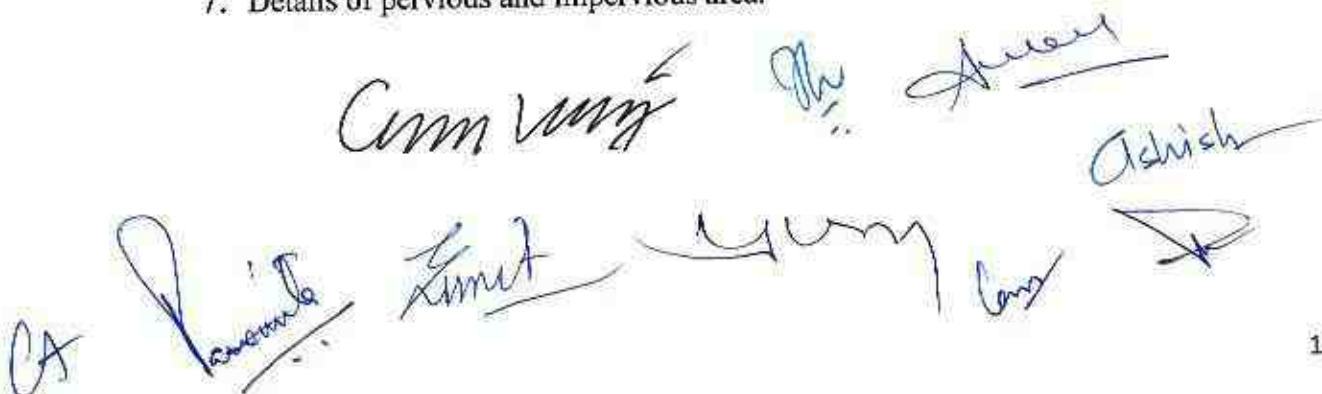
Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

8.	Revised solar energy utilization to achieve atleast 10 % of power load requirement.	PP has informed that they will provide 5% of the total power load (7686 KW) through renewable resources i.e 384.3 KW.
9.	Revised parking proposal to achieve 30 % of the ECS for electric vehicle. In addition, provision should be made to allow extension of electric charging facility to all parking slots in the future.	PP has informed that they will provide 30% of the total parking provision of 426 ECS for electric vehicles in parking.
10.	Revised details with respect to point no. 31 of ToR related to trees by submission of revised landscape plan showing the details (species and girth) of existing trees.	PP has attached Revised landscape plan showing the details (species and girth) of existing trees.
11.	Revised details with respect to point no 35 & 36 of ToR related to water requirement and STP.	PP has attached outlet parameters of proposed STP.
12.	PP is required to submit heat island effect supported with modeling.	PP has attached heat island effect with modeling
13.	Air pollution abatement plan for the air pollutants like PM _{2.5} , PM ₁₀ , SO _x , No _x etc.	PP has attached air pollution abatement plan.

B. After due deliberations, the SEAC in its 125th meeting held on 18.03.2023 recommended as follows:

Based on the information furnished, documents shown & submitted, presentation made by the project proponent SEAC sought the following information:

1. Tree report of the site with details of physical tree count of all trees including shrubs on site alongwith tree girth with local and scientific names of trees.
2. Site map with locations of existing trees color coded to show trees that will be preserved.
3. Revised realistic quantification of STP sludge.
4. Revised details of power load in view of provisioning of charging of e-vehicles.
5. Using output of the simulation tools demonstrate that the lowest habitable floor has the exposure of direct sunlight atleast of 2 hrs as on 21st December.
6. Revised air pollution abatement plan for air pollutants like PM_{2.5} , PM₁₀, SO_x , NO_x , etc with realistic pollution load from traffic/ car parking.
7. Details of pervious and impervious area.



Agenda No. 03

Case No. C-411

Name of the Project	EC for Construction of EWS Housing at Dev Nagar, Karol Bagh, New Delhi by M/s Delhi Urban Shelter Improvement Board.
Project Proponent	Mr. Kishan Pal Singh, Engineer, M/s Delhi Urban Shelter Improvement Board, Engineer C-11, DUSIB Office, PunervasBhawan, I.P. Estate, New Delhi
Consultant	M/s IND TECH HOUSE CONSULT
EIA Coordinator present during Meeting	Soumya Drivedi (EIA Coordinator) Indra Kumar Sharma
Representative of PP present during Meeting	Tarun Gaur (EE, DUSIB) Gagan Garg (Architect)
Proposal No.	SIA/DL/MIS/284940/2022
File No.	DPCC/SEIAA-IV/C-411/DL/2022

A. Details of the Proposed Project are as under:

1. The Proposal is for grant of EC for Construction of Construction of EWS Housing at Dev Nagar, Karol Bagh, New Delhi by Delhi Urban Shelter Improvement Board and details have been updated/ modified in view of appraisal by SEAC.
2. The Project is located at **Latitude:** 28°39'35.73"N"; **Longitude:** 77°11'11.65"E.
3. **Area Details:**

The Plot Area of the project is 8460 sqm. The Proposed Total Built-up Area is 37068.174 sqm. The Proposed FAR Area is 23222.24 sqm. The Proposed Non FAR Area is 13845.94 sqm. The Proposed Ground Coverage is 2321.531 sqm. The total no. of floors will be St+14. The total no of expected population is 3466 persons. The Max. Height of the building is 42.65 m.

4. **Water Details:**

During Construction Phase, Water requirement will be met from treated water supply from Delhi Jal Board (DJB) and Waste water generated from the labour camp will be 5.57 KLD.

During Operational Phase, Total Water requirement of the project will be 286 KLD which will be met by 202 KLD of Fresh water from Delhi Jal Board and 84 KLD of Treated water from in house STP. No groundwater will be extracted. Total Waste water generated from the project will be 230 KLD which will be treated up to tertiary level in house STP of 280 KLD capacity. Treated Water from STP will be 207 KLD out of which 84 KLD treated water will be reused for Flushing (68 KLD), landscape (4 KLD) DG Cooling (1 KLD), Road Wash (11 KLD) and the rest amount of 123 KLD surplus treated water will be supplied to govt. approved water agency for uses.

Number of Rain Water Harvesting (RWH) Pit proposed is 3 nos.

5. **Solid Waste Details**

During Construction Phase, Total 29.25 kg/day of solid waste will be generated. MSW generated will be disposed at designated dumping site through authorized vendors.

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Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

Municipal solid wastes from construction site will be disposed at designated dumping site through authorized vendors.

During the Operation Phase, Total solid waste generated from project will be 1.87 TPD. Out of which 1.11 TPD will be Biodegradable waste and 0.76 TPD will be Non-Biodegradable waste. Solid wastes generated will be segregated into biodegradable and non-biodegradable components and collected in separate bins. The biodegradable wastes will be composted in an onsite OWC with minimum capacity of 0.3 Kg/person/day and the manure will be used for landscaping. The non-biodegradable/ recyclable wastes will be disposed at designated site through authorized vendors.

6. Power Details

During Operation Phase, Total Power requirement will be 1608 kVA and will be met from Grid supply of BSES Rajdhani Power Ltd. For Power Back up, DG sets of Capacity 200 KVA will be installed.

Solar photovoltaic power panels of 46 KWp capacity (2.86 % of total power requirement) will be provided.

7. Parking Facility Details: Total Proposed Parking is 121 ECS.

8. Eco-Sensitive Areas Details: Distance of Okhla Wildlife Sanctuary from project site is 17.5 Km and from Asola Wildlife Sanctuary is 19.6 km.

9. Plantation Details: The proposed Green Area is 1279 sqm. (15.15 % of plot area). The Project site has 80 nos. of trees out of which 11 trees will be saved, 05 trees will be cut and remaining 64 trees will be transplanted. Total no. of trees proposed is 110 nos.

10. Cost Details: Total Cost of the project is Rs 102.28 Crores.

During presentation the PP clarified the revised tree figures and submitted information that 89 trees are existing at site out of which 69 trees will either be cut or transplanted.

After due deliberations, the SEAC in its 113th Meeting held on 29.08.2022 decided to defer the case to the next forthcoming SEAC meeting due to paucity of time.

After due deliberations, the SEAC in its 114th Meeting held on 09.09.2022, based on the Information furnished, documents shown & submitted, presentation made by the project proponent recommended to seek the additional information which has been responded back by the project proponent on 03.03.2023 which is as follows:

S.NO	Information Sought by SEAC during 114 th Meeting dated 09.09.2022	Reply dated 03.03.2023
1.	Building Plan approval from competent authority and revised Delhi Fire Service clearance with revised tree planning.	PP submitted that the issue was addressed to the Delhi Fire Services Department but they denied our proposal. PP has attached copy of the letter issued by Delhi Fire Service, GNCTD dated 09.11.2022 for the same. PP further stated that the Delhi Fire Services Department, the current scheme will be followed, for which the NOC from DFS is already received. PP has attached Fire NOC dated 08.06.2022.
2.	Water assurance from	PP has attached a letter dated 29.04.2022 issued by DJB to submit IFC charges.

Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

	DDA/DJB/NDMC/DCB including the following details: <ul style="list-style-type: none"> • Water assurance specifying the quantity of water to be supplied to the project. • Total water supply availability as per approved scheme of the command area in which the project is proposed to be developed. • The quantity of water already committed and after the quantity of water allotted to the project, the balance water available. 	PP has attached undertaking as annexure for depositing the IFC charges after getting EC.
3.	Assurance for supply of Treated water from STP during Construction Phase. PP is required to clarify the arrangement for reusing the aforesaid treated water along with the mechanism proposed for making this water fit for use in construction.	PP submitted that during construction phase treated water for construction purpose will be sourced from Vikash Water supply agency which is approved by DJB. Copy of the same is attached as annexure. PP stated that 60 KLD WTP will be installed during construction phase.
4.	PP is required to submit provisions of necessary infrastructure and facilities made for construction labors at site such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical healthcare, crèche etc.	PP submitted that during construction phase all necessary facilities for labour like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical healthcare, creche etc will be provided. Undertaking in this regard is attached as Annexure . PP has attached layout plan marking the location of the facilities like labour camp, medical facilities etc as Annexure
5.	PP is required to identify the nearby Park for using the surplus treated water and submit the proposal for connecting the same through fixed pipeline.	PP submitted that all surplus water from the Sewage Treatment Plant during operational phase will be supplied regularly to govt. approved water agency for uses as per relevant guidelines. Undertaking for the same is attached as annexure.
6.	Provision for Rainwater collection tank of storage capacity of min. 1 day of total fresh water requirement along with layout and location plan.	PP has submitted that they will provide Rainwater collection tank of storage capacity of min. 1 day of total fresh water requirement. Location of the same is attached as annexure.
7.	Provision for organic waste compost/ vermiculture pit/ organic waste	PP has attached the undertaking dated 24.02.2023 for installation of Organic Waste Converter with minimum capacity

Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

	converter (OWC) within premises with minimum capacity of 0.3 Kg/person/day.	of 0.3 Kg/person/day.									
8.	PP is required to submit power supply assurance from BSES.	PP has attached a letter dated 24.02.2023 stating that the power requirement of approx. 1608 kW for the EWS housing project will be met through the power supply agency BSES (Rajdhani).									
9.	Provision for electric charging of the e-Vehicles as per Building Bye Laws.	PP informed that they will provide 30 % electric charging i.e 36 ECS for e-vehicles of total parking (ECS). PP has attached Plan showing the location of the same as annexure.									
10.	Basis of ECS proposed needs to be justified.	PP has attached the parking plan for 121 ECS with calculation as annexure.									
11.	An existing tree inventory with species and girth of each tree may be prepared, along with a baseline green area map, showing all trees – (a) trees to be retained, (b) trees to be removed due to building ground coverage, (c) trees to be removed due to additional paved area (d) trees to be transplanted, minimum 80% of the effected trees are required to be transplanted. Attempt may be made to increase the trees to be retained.	<p>PP informed that the issue was addressed to the Delhi Fire Services Department, and it was concluded that the current scheme will be followed, for which the NOC from DFS is already received.</p> <p>Enumeration list of Trees to be cut/transplanted that is applied in Delhi Forest Department.</p> <p>PP has attached list of trees with details of Lat, Long., Girth of the tree and Proposal of Cut/ transplant / retained as annexure.</p> <p>As per Enumeration list of Trees uploaded total trees present at site are 80 out of which 11 trees will be saved, 05 trees will be cut and remaining 64 trees will be transplanted.</p>									
12.	Revised cost of EMP needs to be submitted as the same has not been found realistic. PP is required to submit the Capital and Recurring cost of EMP with inclusion of cost of environmental monitoring during construction & operation phase.	<p>PP has attached Revised EMP (Environment Management Plan Cost) as follows:</p> <table border="1"> <thead> <tr> <th>Phase</th><th>Capital Cost</th><th>Recurring Cost</th></tr> </thead> <tbody> <tr> <td>Construction Phase</td><td>54.23 Lakhs</td><td>25.64 Lakhs</td></tr> <tr> <td>Operation Phase</td><td>123.23 Lakhs</td><td>31.41 Lakhs</td></tr> </tbody> </table>	Phase	Capital Cost	Recurring Cost	Construction Phase	54.23 Lakhs	25.64 Lakhs	Operation Phase	123.23 Lakhs	31.41 Lakhs
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Construction Phase	54.23 Lakhs	25.64 Lakhs									
Operation Phase	123.23 Lakhs	31.41 Lakhs									
13.	Specify name and numbers of the post to be engaged by the proponent for implementation and monitoring of environmental parameters.	PP has informed that Third Party agencies for Quarterly Environment audit and for Environment Monitoring Half yearly / as per DPCC / CPCB guidelines will be engaged under Executive Engineer of DUSIB.									

Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

14.	Revised EMP (Environment Management Plan) for dust mitigation measures during construction as per MoEF Notification No. GSR 94 (E) dated 25.01.2018/Hon'ble National Green Tribunal order in O.A. No.21 of 2014 and O.A. No. 95 of 2014 in the matter of VardhamanKaushik Vs. Union of India & others and Sanjay KulshreshthaVs Union of India & others/ CAQM Directions issued time to time including registration on Dust Pollution Control Self-Assessment Portal with provision of video fencing and low cost sensors for monitoring PM 2.5, PM 10.	PP has attached revised EMP for dust mitigation measures during construction indicating some of the dust mitigation measures.
15.	Elaborated effects of the building activity in altering the microclimates with revised self- assessment on the likely impacts of the proposed construction on creation of heat island & inversion effects.	PP has attached strategies to be incorporated in the project to mitigate the Urban heat island effect, UHIE as annexure.
16.	Approval of Building Height from Airport Authority of India.	PP has attached NOC dated 03.06.2022 obtained from Airport Authority of India and the copy of the same is attached as Annexure
17.	Sludge generation projections from STP needs to be revisited and solid waste generation figures.	Annexure not found uploaded.

B. After due deliberations, the SEAC in its 125th meeting held on 18.03.2023 recommended as follows:

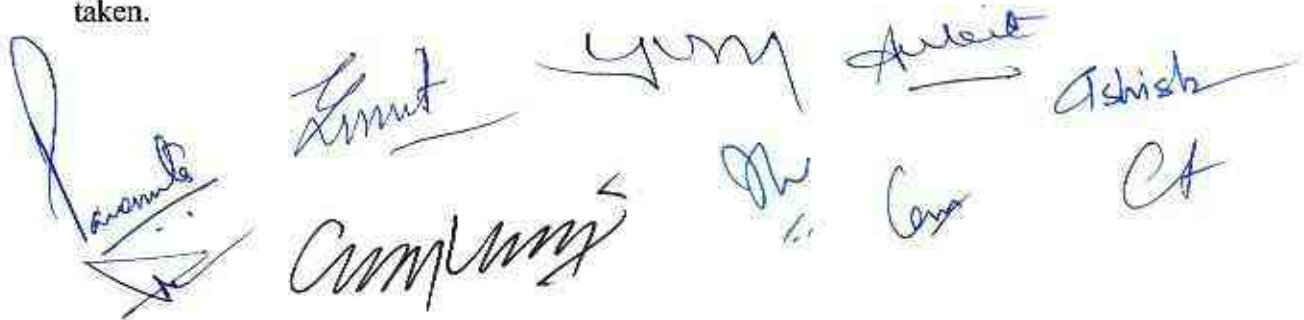
Based on the information furnished, documents shown & submitted, presentation made by the project proponent SEAC sought the following information:

1. PP to approach DJB to obtain assurance letter for supply of treated water from nearby DJB STP.
2. PP to explore alternative strategy to reuse/ recycle the surplus treated water to nearby potential users/ parks/ CPWD projects and submit the revised proposal in view of substantial surplus treated wastewater generated.
3. Disposal of manure generated from Organic Waste Composter needs to be addressed with suitable proposal for its use,
4. The power requirement needs to be revised taking into account the proposed electric charging for e-vehicle.
5. Revised landscape plan showing the proposed tree plantation keeping in view the required tree pit size to be adopted as permeable surface of the tree.

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Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

6. Quantification calculation for excavated earth and its disposal/ use plan with top soil conservation.
7. Revised proposal with mobile STP to be provided for labour camp during construction phase.
8. Revised cost of EMP to be submitted after revisiting the cost components.
9. Provision of solar power utilization needs to be revisited and enhanced.
10. Revised dust mitigation measures as per DPCC/ Govt. of Delhi guidelines.
11. Using output of the simulation tools demonstrate that the lowest habitable floor has the exposure of direct sunlight atleast of 2 hrs as on 21st December.
12. Revised proposal for installation of gas based generator sets.
13. Resubmission of information wrt heat island effect with due indication of rise in temperature after operationalizing the building and its remedial measures proposed to be taken.

The block contains several handwritten signatures in blue ink. From left to right, the signatures are: a large stylized signature, a signature that appears to be 'Smit', a signature that appears to be 'Gurpreet', a signature that appears to be 'Amit', a signature that appears to be 'Ashish', and a signature that appears to be 'Ch'. Below these, there are more signatures: 'Ranvika', 'Complimentary', 'Sh', 'Cora', and 'CA'.

Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

Agenda No: 04

Case No. 443

Name of the Project	Proposed Hospital for Vikrant Children Foundation and Research Center, on land measuring 1.4 hectare in Saket, New Delhi
Project Proponent	M/s Vikrant Children Foundation and Research Center
Consultant	M/s Ind Tech House Consult
EIA Coordinator present during Meeting	Soumya Drivedi Indra Kumar Sharma
Representatives of PP present during Meeting	Vijay Kumar Tyagi (GM. Projects) Manvendra Singh (AGM, ENGG)
Proposal No.	SIA/DL/INFRA2/418770/2023
File No.	DPCC/SEIAA-IV/C-443/DL/2023

A. Details of the Proposed Project are as under:

1. The Proposal is for grant of EC for Construction of Proposed Hospital for Vikrant Children Foundation and Research Center, on land measuring 1.4 hectare in Saket, New Delhi by M/s Vikrant Children Foundation and Research Center.

2. The Project is located at **Latitude** 28°31'39.01"N; **Longitude:** 77°12'46.11"E.

3. Area Details:

The Total Plot Area of the project is 14,000 sqm. The Proposed Total Built-up Area is 65,720.48 sqm. The Proposed FAR Area is 24,197.73 sqm. The Proposed Non-FAR Area is 41,522.76 sqm. The Proposed Ground Coverage for Hospital is 2,858.62 sqm and proposed ground coverage area for MLCP is 349.075 sqm. Maximum numbers of beds are 359 numbers and Maximum numbers of floors will be 4B +G+ 10F+ 1S. Total no. of expected population will be 3199 persons (359 -Patient beds, 240 -consultant Room Staff, 2400 -Consultant room visitors and 200- security & Maintenance & other staff). The maximum height of the building will be 47.65 m (MLCP).

4. Water Details:

During Construction Phase: Water requirement will be met through treated tanker water supply

During Operational Phase: Total Water requirement of the project will be 515 KLD which will be met by 235 KLD of Fresh water from DJB and 280 KLD (250 KLD from on-site STP and 30 KLD excess treated water from nearby places). Total Waste water generated from the project will be 268 KLD (260 KLD flow to STP and 8 KLD Flow to ETP) which will be treated in house STP of 315 KLD capacity & ETP of 10 KLD

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Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

capacity. Treated Water from STP will be 250 KLD which will be recycled and reused for Flushing (85 KLD), Gardening (15 KLD) & Cooling tower & DG cooling 150 KLD. 30 KLD of excess treated water from tanker water supply will be used for cooling tower & DG cooling. 7 KLD treated water from ETP will be discharged to municipal sewer. 5 RWH pits and 1 Rain water collection tank of capacity 100 KL have been proposed.

5. Solid Waste Details:

During Construction Phase, Municipal solid waste will be 82.5 kg/day

During the Operation Phase, Solid waste generation from the facility will be approximately 1.03 TPD, Bio-Medical waste generated will be 0.28 TPD, Organic waste will be 0.41 TPD, Quantity of Hazardous waste Generation will be 2.33 LPD and 22.05 Kg/day sludge will be generated from STP and ETP.

6. Power Details

During Construction Phase, DG set of 1 x 100 kVA will be operated.

During Operation Phase, Total Power requirement will be approx. 2900 kW which will be met by the BSES. For Power Back up, 3 no. of DG sets of total capacity 4500 kVA (3 x 1500 kVA) will be installed.

Solar PV power panels of minimum 87 kWp will be provided. Solar water heating system will be provided.

7. **Parking Facility Details:** Total Proposed Parking is 798 ECS (81 ECS Surface parking, 323 ECS MLCP & 394 ECS Basement parking).

8. **Eco-Sensitive Areas Details:** Distance of Okhla Wildlife Sanctuary from project site is 9.8 Km and from Asola Wildlife Sanctuary is 4.8 Km.

9. **Plantation Details:** The proposed Green Area is 2309 sqm (16.5 % of plot area). Total numbers of trees present at site 145 numbers (50 Nos will be retained and 95 will be transplanted). Total no of trees proposed are 177 nos.

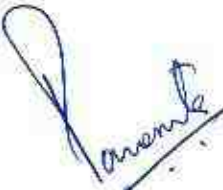



10. **Cost Details:** Total Cost of the project is approx. INR 344 Crore.

B. After due deliberations, the SEAC in its 125th meeting held on 18.03.2023 recommended as follows:

Based on the information furnished, documents shown & submitted, presentation made by the project proponent SEAC sought the following information:

1. Water assurance from DDA/DJB/NDMC/DCB including the following details:

- Water assurance specifying the quantity of water to be supplied to the project.
- Total water supply availability as per approved scheme of the command area in which the project is proposed to be developed.

CA    

Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

- The quantity of water already committed and after the quantity of water allotted to the project, the balance water available.
- 2. Assurance for supply of Treated Sewage during Construction Phase. PP is required to clarify the arrangement for reusing the aforesaid treated water along with the mechanism proposed for making this water fit for use in construction.
- 3. Proportion wise Step Diagram showing the amount of reduction in net Per Capita Water Demand achieved through (1) Each Demand reduction strategy (eg. Low flow fixtures, Xeriscaping etc.), (2) Recycling and Reuse, (3) Minimizing the demand of excess treated water from outside.
- 4. Revised proposal for waste water treatment system after reviewing the capacities of ETP & STP. Treated waste water from ETP needs to be channelized to STP.
- 5. Outlet parameters of STP needs to be revisited.
- 6. Proposal for a provision of toxic gas (Combustible gas, Carbon dioxide and Hydrogen sulphide, Methane, VOCs, Ammonia) detectors for STP area.
- 7. PP is required to submit Traffic Management Plan taking into consideration the latest traffic scenario. Detailed calculation of roads, bicycle paths, pedestrian spaces are to be provided with remedial measures.
- 8. Air pollution abatement plan for the air pollutants like PM 2.5 , PM10, SOx , Nox etc.
- 9. Revised EMP (Environment Management Plan) for dust mitigation measures during construction as per MoEF Notification No. GSR 94 (E) dated 25.01.2018/Hon'ble National Green Tribunal order in O.A. No.21 of 2014 and O.A. No. 95 of 2014 in the matter of Vardhaman Kaushik Vs. Union of India & others and Sanjay Kulshreshtha Vs Union of India & others/ CAQM Directions issued time to time including registration on Dust Pollution Control Self-Assessment Portal with provision of video fencing and low cost sensors for monitoring PM 2.5, PM 10.
- 10. Revised proposal with name and numbers of the post to be engaged by the proponent for implementation and monitoring of environmental parameters.
- 11. Revised calculation for solid waste generation figures accounting for the sludge generated from STP and its disposal methodology.
- 12. Parking proposal to achieve 30 % of the ECS for electric vehicle. In addition, provision should be made to allow extension of electric charging facility to all parking slots in the future.
- 13. MoU needs to be entered with appropriate agency for handling/ disposal of excavated earth of substantial quantity.

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Minutes of Meeting of 125th SEAC Meeting dated 18.03.2023

14. Green cover needs to be increased to 20 % of the plot area.
15. Revised proposal to maximise solar energy utilization.
16. Revised organic waste calculation based on actual solid waste generation with proposal of OWC proportionately.
17. Revised Environment Management Plan in view of revised information/ proposal being sought.

Meeting ended with the vote of thanks to the Chair


(Vijay Garg)
Chairman


(Pankaj Kapil)
Member secretary


(Chetan Agarwal)
Member


(Pranay Lal)
Member


(Gopal Mohan)
Member


(Ankit Srivastava)
Member


(Jyoti Mendiratta)
Member


(Paromita Roy)
Member


(Sumit Kumar
Gautam)
Member


(Ashish Gupta)
Member