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

**Minutes of the 117th Meeting of State Level Expert Appraisal Committee (SEAC) held on 01.11.2022at 11:00 AMin the Conference Room of DPCC, at 5th Floor, ISBT Building, Kashmere Gate, Delhi 110006.**

The 117th Meeting of State Level Expert Appraisal Committee (SEAC) was held on 01.11.2022 in the Conference Room of DPCC under the Chairmanship of Sh. Vijay Garg. The following Members of SEAC were present in the Meeting:

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| 1. | Sh. Vijay Garg | - | In Chair |
| 2. | Sh. Ankit Srivastava | - | Member |
| 3. | Sh. Chetan Agarwal | - | Member |
| 4. | Sh. Pranay Lal | - | Member |
| 5. | Sh. Surinder Kumar Juneja | - | Member |
| 6. | Sh. Gopal Mohan | - | Member |
| 7. | Ms. Paromita Roy | - | Member |
| 8. | Sh. Pankaj Kapil | - | Member Secretary |

Following SEAC Members could not attend the Meeting:

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| 1. | Ms. Jyoti Mendiratta | - | Member |
| 2. | Dr. Sirajuddin Ahmed | - | Member |
| 3. | Sh. Ashish Gupta | - | Member |
| 4. | Dr. Sumit Kumar Gautam | - | Member |
| 5. | Dr. Kailash Chandra Tiwari | - | Member |

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

The Minutes of the 116th SEAC Meeting held on 04.10.2022were confirmed by the Members.

The representative of the Delhi Jal Board (DJB) namely Sh. Sandeep Sharma, Director, (Water Supply), DJB & Sh.Ajay Kumar CE, DJB attended the SEAC Meeting in view of request made to DJB vide letter dated 31.10.2022 regarding feasibility of potable use of treated sewage it was deliberated and opined that DJB can suitably consider if such proposal is received in DJB. In view of aforesaid the SEAC recommended that SEIAA, Delhi may send a reference to DJB on following:

1. Whether any project proponent can be permitted to supply treated sewage for potable use in any building complex.
2. In case it is permitted, what will be the mechanism to check the adequacy of the technology adopted and to monitor the quality of treated water intended to be used for portable purposes keeping in view that potable water supply should be free from risk of transmitting diseases.

## Agenda 01

## Case No C-377

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| **Name of the Project** | EC for Construction of Additional Court At New Plot at Plot FC-17, in front of Existing Karkardooma Court Complex, Karkardooma, East Delhi, Delhi |
| **Project Proponent** | Siddharth Mahajan, Executive Engineer, Public Works Department, Govt. of NCT of Delhi at Office of the Executive Engineer (C) other project Division -II, Central Prison Complex Mandoli Delhi |
| **Consultant** | M/s ATMOS Sustainable Solutions Pvt. Ltd |
| **EIA Coordinator present during Meeting** | Absent |
| **Representative of PP present during Meeting** | Absent |
| **Proposal No.** | SIA/DL/INFRA2/403615/2022 |
| **File No.** | DPCC/SEIAA-IV/C-423/DL/2022 |

***Nobody appeared/responded on behalf of project proponent. The proposal deferred for further consideration.***

## Agenda 02

## Case No C-401

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| **Name of the Project** | EC for Proposed Construction of Safdarjung Staff Colony at Pocket B 6,Phase II, Sector-17, Dwarka, New Delhi by M/s Safdarjang Hospital & VMMC |
| **Project Proponent** | Sng. Mohelas Anal, Estate Officer, M/s Safdarjang Hospital & VMMC, Estate Section, VMMC and Safdarjung Hospital, South,Delhi-110029 |
| **Consultant** | M/s AscensoEnviro Pvt. Ltd. |
| **EIA Coordinator present during Meeting** | Mr. Purushottam K. Sharma (EIA Coordinator)<br>Mr. Kaunain Sidqui (EIA Manager) |
| **Representative of PP present during Meeting** | Mr. Bhawar Singha, Assistant Admin Officer<br>Mr. Sanjay Dhingra, EE (E), CPWD |
| **Proposal No.** | SIA/DL/MIS/272026/2022 |
| **File No.** | DPCC/SEIAA-IV/C-401/DL/2022 |

**A. Details of the Proposed Project are as under:**

1. The Proposal is for grant of EC for Proposed Construction of Safdarjung Staff Colony at Pocket B 6,Phase II, Sector-17, Dwarka, New Delhi by M/s Safdarjang Hospital & VMMC.
2. The Project is located at **Latitude:**28°35'39.11"N; **Longitude:** 77°01'45.13"E.
3. **Area Details:**
   The Total Plot Area of the project is 8000.00 sqm. The Proposed Total Built-up Area (FAR + Non FAR + Service Area) is24591.90 sqm. The Proposed FAR Area is13138.92 sqm. The Proposed Non FAR Area is7611.32 sqm. The Proposed Service Area is3841.66 sqm. The Proposed Ground Coverage is1466.41sqm. The total no. of Basements will be 2 nos. The Total Basement Area will be 5592.64sqm. The total no. of Buildings Blocks will be 3 nos. The total nos. of floors in respective blocks will beTower A - 2B+S+9, Tower B - 2B+S+10, Tower C-2B+S+9. The Proposed Dwelling Units is 140 DUs. The total no of expected population is 790 persons. The max.height of the building will be 39 m.
4. **Water Details:**
   **During Construction Phase,**Water required will be supplied through treated water from CSTP/private water tanker or excess treated water from nearest operational STP. Sewage generated from the labor camps will be disposed of through Soak pit or septic tank.
   **During Operational Phase,** Total Water requirement of the project will be 115 KLD which will be met by 74 KLD of Fresh waterfrom Delhi Jal Board and around 41 KLD of Treated water from in house STP. Out of 74 KLD of Fresh Water, 64 KLD will be used for Domestic Purposes and 10 KLD will be reserved for Firefighting. Total Waste water

generated will be 83 KLD which will be treated in house STP of 100 KLD capacity. Treated Water from STP will be 66 KLD, out of which approx. 41 KLD will be recycled and reused for Flushing (32 KLD), Horticulture (8 KLD), DG Cooling (0.45 KLD). Excess treated water (25.55 KLD) will be discharge into Municipal Sewer.
Number of Rain Water Harvesting (RWH) Pits proposed are3 nos.

5. **Solid Waste Details**
   **During Construction Phase,** No demolition waste will be generated as the site is a vacant plot. Most of the construction debris will be used for backfilling and road development to the extent possible & rest will be disposed-off through authorized recyclers.
   **During the Operation Phase,** Total 328.50 Kg/day of Solid Waste will be generated from the project. Bio-Degradable Waste will be subject to composting by Organic waste converter and compost will be used as manure. Recyclable waste will be sold to authorized vendor or govt. approved agency or recycling industry and Non-Recyclable (Inert waste) will be separately collected and will be handed over to authorized vendor.
6. **Power Details**
   **During Construction Phase,** Total Power requirement will be 150 KW which will be supplied by BSES.
   **During Operation Phase,** Total Power requirement will be 1000 KW which will be supplied by BSES. For Power Back up, DG sets of Capacity 2 x 250 kVA will be installed.
7. **Parking Facility Details:** Total Proposed Parking is 209 ECS on surface and in the basements.
8. **Eco-Sensitive Areas Details:** Distance of Okhla Wildlife Sanctuary from project site is 28.2 Km and from Asola Wildlife Sanctuary is 25 Km.
9. **Plantation Details:** The proposed Green Area is 2669.80 sqm. (33.37 % of plot area). Total no. of trees required is100 nos. and Total no. of trees proposed is118nos.Only 1 Tree exists at the site which will be retained.
10. **Cost Details:** Total Cost of the project is NOT GIVEN.

After due deliberations, the SEAC in its 107th Meeting held on 01.07.2022,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 13.10.2022 vide letter dated 13.10.2022 which is as follows:

| S.No. | Information Sought by SEAC during SEAC Meeting dated 01.07.2022 | Reply dated 13.10.2022 submitted on 13.10.2022 |
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| 1. | Assurance for supply of Treated Sewage during Construction Phase along with identification of nearest STP of DJB. 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 informed that assurance for supply of treated sewage water during construction has been obtained from DJB Sec-16 Pappankalan (Dwarka) STP vide letter No. DJB/EE (SDW) VIII/2022-23/920-921 dated 05/09/2022<br>PP has attached Assurance letter of the |

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| | | same.<br>PP has informed that they will install a 40 KLD Water treatment plant/Mobile STP for make STP water fit for construction. Treatment mechanism |
| 2. | The PP is required to quantify the no. of labours and the detailed plan for the proposed labour camps for housing them. With provision made for housing of construction labour with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical healthcare, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. | PP has informed that Total 100 No's of labour required during construction phase.<br>PP has informed that total 4.5 KL water required for construction workers and approx. 3.5 KL waste water generated which will be treated in Mobile STP of 40 KL installed at site for treatment of Treated water.<br>PP has informed that no labour camp proposed at project site as labour hired from nearby project site and facility for Safe Drinking Water, Mobile Toilet, Temporary STP, First Aid room and creche provided at project site for construction worker.<br>PP has attached layout plan showing location of facilities is enclosed. |
| 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. | PP has attached revised water reduction with revised water requirement which is as follows:<br>**Water requirement during Operation Phase (After taking conservation measures):**<br>**S.No** / **Particulars** / **Quantity**<br>1. **Total Water Requirement** — 67KLD<br>2. **Fire Fighting** — 10 KL<br>3. **Fresh Water Requirement** (Source: DJB) — 46KLD<br>4. **Treated Water Requirement** — 21 KLD<br>Flushing — 16 KLD<br>Landscaping — 5 KLD<br>5. **Excess water to be** — 27 KLD |

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| | | | discharged in Sewer | |
| | | 6. | **Treated water generated** | 48 KLD |
| | | 7. | **Waste Water Generated** | 53 KLD |
| | | 8. | **STP Capacity** | 65 KLD |
| 4. | Fresh water mass balance is required to be submitted with revised figures and with duly reconciliation of the figures related to fire fighting. | PP has attached revised water mass balance diagram. | | |
| 5. | Equivalent car space needs to be revised as per extant norms under MPD 2021/ UBBL. | PP has attached Revised ECS calculation with revised Parking Plan.<br>Total Car Parking required: 180 ECS<br>Total Car Parking achieved: 201.52 ECS<br>Total Car Park: 156 Cars<br>Total E-vehicle charging provided: 39 Cars | | |
| 6. | Plan for managing, conserving the top soil excavated during construction and for its reuse. | PP has informed that total top soil excavated will be 1153.51 cum of which 824.73 cum will be used for refilling and rest i.e. 328.78 cum will be donated to Nursery or nearby construction site. | | |
| 7. | Water assurance fromDJB including the following details:<br>• Water assurance specifying the quantity of water to be supplied to the project.<br>• Total water supply availability as per approved scheme of the command area in which the project is proposed to be developed.<br>• 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 water assurance from DJB vide letter No. DJB/Dy.SE(M-37)/ 202223/138/1442A dated 22/09/2022. Letter not specifying the quantity of water required during operation phase.<br>PP has attached Water Assurance Letter. | | |
| 8. | Proposal for a provision of toxic gas (Combustible gas, Carbon dioxide and Hydrogen sulphide, Methane, VOCs, Ammonia) detectors for STP area. | PP has attached proposal for a provision of toxic gas detectors for STP area. | | |
| 9. | The Rain water harvesting pits should be revised taking into the | PP has attached Revised Rain water Harvesting Calculation and informed that | | |

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| | account the recent higher flash rain data along with actual percolation rate of the soil at site | they will provide 3 RWH Pits |
| 10. | 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 Plan for dust mitigation measures |
| 11. | Proportion wise Step Diagram to be provided showing the amount of reduction in net per capita energy demand achieved through (i) Load Reduction Strategies, (ii) Passive Strategies, (iii) Renewables, and (iv) Energy Recovery strategies. At least 2 % of the total energy demand to be sourced from renewables. Percentage reduction through each of the aforesaid strategies to be provided in a consolidated diagram format for easy comprehension. | PP has informed that they will save approx. 2.6 % of total energy by installing capacity of 23000 Litres Per day Solar Heater along with other measures to save energy per annum from renewables.<br>PP has attached energy saving calculation for reference. |
| 12. | Proposal for provisioning the energy audit during operation phase. | PP has informed that they will conduct the energy audit during operation phase by hiring a Green Building consultant, such as GRIHAJ IGBC/ LEED. In this regard, an undertaking has enclosed by the PP. |
| 13. | Provision for electric charging of the e-Vehicles as per Building Bye Laws. | PP has informed that as per revised ECS calculation total proposed ECS is 201 ECS. 20% of total Parking i.e. approx. 39 ECS has been provided with E-charging at stilt floor.<br><br>PP has attached revised ECS calculation with Parking Plan for the same. |
| 14. | Specify name and numbers of the post to be engaged by the proponent | PP has informed about the details related to |

<table>
<tr><td></td><td>for implementation and monitoring of environmental parameters.</td><td>Environment Management Cell.<br>Detail of EMC Cell during Construction Phase:<br>1. Superintendent Engineer<br>2. Executive Engineer<br>3. Assistant Engineer<br>Detail of EMC during operation phase:<br>1. Medial Superintendent<br>2. Assistant Medical Superintendent<br>3. Estate Officer</td></tr>
<tr><td>15.</td><td>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.</td><td>PP has attached details for management of Heat Island & inversion effect</td></tr>
<tr><td>16.</td><td>Revised landscape plan with enhancement of pervious area (at least 20% of the open space shall be pervious) and clear demarcation of green area with soft green area. Landscape details to be provided with measured impact on the micro-climate.Further, wherever treeplantation being done/ proposed, tree-pit size of 6' x 6' / tree to be adopted aspermeable surface of the tree.</td><td>PP has informed that pervious area achieved at site is approx. 37.99% of open area i.e. 2482.63sqm and green area achieved is 816.30 sqm.<br>PP has attached Revised Landscape detail with Landscape Plan.</td></tr>
<tr><td>17.</td><td>Revised figures for the area of basements as the area submitted and area as per drawings shown during presentation not matching.</td><td>PP has attached revised area detail with basement plan.
<table>
<tr><th></th><th>Particulars</th><th>Area</th></tr>
<tr><td>1.</td><td>Total Plot Area</td><td>8000 sqm</td></tr>
<tr><td>2.</td><td>Total FAR Proposed</td><td>13138.486 sqm</td></tr>
<tr><td>3.</td><td>Proposed Ground coverage</td><td>1466.4 sqm</td></tr>
<tr><td>4.</td><td>Open Area (Total Plot Area – Proposed Ground Coverage)</td><td>6533.59 sqm</td></tr>
<tr><td>5.</td><td>Total Non-FAR Area</td><td>9708.76 sqm</td></tr>
<tr><td></td><td>Basement 1</td><td>3845.04 sqm</td></tr>
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| | | | Basement 2 | 3845.04 sqm |
| | | | Stilt Floor | 2018.68 sqm |
| | | 6. | Proposed Service Area | 3842.644 sqm |
| | | 7. | Total Built-up Area | 26689.91 sqm |
| | | 8. | Proposed Green Area | 2482.63 sqm |
| | | 9. | Proposed Building Height | 36.6 m |
| 18. | Approval letter from DUAC is required to be submitted. | PP has attached approved letter from DUAC vide letter no. OL-28022262005 dated 08.03.2022 | | |
| 19. | Revised scheme for sewage treatment plant so as to meet the requirement of reuse with proper justification of technology. | PP has attached revised STP scheme along with schematic diagram. | | |

During the presentation following issues were deliberated:

1. The site has a low covered area - 1466.4 m2, which is just 18.33% of the area – 8000 m2.
2. Despite having a low covered area, the total pervious green/grass area is 816.30 m2, which is just 10.2% of the plot area. The project is stated to have 700 occupants (140 flats @ 5 person occupancy) plus visitor population (70) + staff (20) This works out to per capita pervious green grass area of 1.17 to 1.03 m3. This is a rather low percentage particularly for a project in the public domain – housing for doctors and nurses.
3. It is seen that an additional pervious area of 1666.33 m2 is being allocated (wasted) for surface parking ( P1 + P2 + P3) in the form of pervious grass pavers. This area could be easily transferred to grass area. This will increase pervious grass area from 10.2% to 37.99 %. Parking should be restricted to the stilt area and basements.
4. It is suggested that part of the impervious area (which is included in the basement footprint) should also be covered with grass/vegetation. This can easily be done by putting a layer of soil of 150 mm on top of the basement area.
5. With these steps, the grass/green area both pervious and impervious (on basement) can be increase to over 50% of the open area.

**B. After due deliberations, the SEAC in its 117th meeting held on 01.11.2022 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:***

**SPECIFIC CONDITIONS**

1. The project proponent shall adhere to the revised total water requirement – 67 KLD, Fresh water requirement – 46 KLD, Treated water requirement – 21 KLD (for recycling in flushing – 16 KLD, Horticulture – 5 KLD). The project shall make efforts to follow principle of Zero Liquid Discharge (ZLD) and excess treated water from the STP be utilized for reuse purposes after adequate up-gradation of treated water to reuse standards.
2. Treated water of DJB STP should be used for construction purposes only after tertiary treatment of the same to ensure it is fit for construction use.
3. The project proponent should adhere to the revised cost of Environmental Management Plan as committed during the presentation i.e. capital cost of Rs. 27 Lacs& Recurring cost of Rs. 18.5 Lacs/ year during construction phase and capital cost of Rs. 100 Lacs& Recurring cost of Rs. 50 Lacs/ year during operation phase.
4. At least 2 % of the total energy demand to be sourced from Solar (Renewable) energy.
5. PP shall provide 190 ECS as deliberated and agreed upon during the presentation.
6. PP shall provide electric charging points in parking areas for e-vehicles for at-least 20% of car parking as committed.
7. Ground water should be extracted only after the permission from the competent authority.
8. No of rain water harvesting pits shall be 03 nos. as committed. 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 buffer of atleast10 m above ground water table.
9. 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 final outfall/ sewer connection. Calibration for all the Flow meters shall be maintained on quarterly basis.
10. Minimum 1 tree for every 80 Sq. Mt of plot area (118 Nos.) should be planted within the project site.
11. Green building norms should be followed with a minimum 3 star GRIHA/IGBC/ASSOCHAM GEM rating and Gold rating should be followed up.
12. Construction & Demolition waste should be disposed of at authorized C&D waste processing unit.
13. Wind- breaker of appropriate height i.e. 1/3$^{rd}$ of the building height and maximum up to 10 metres shall be provided all around the project site before the start of construction.
14. 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 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.

15. Project proponent shall be responsible for establishment, operation and maintenance of all common facilities and also for compliance of EC conditions during operation stage.
16. 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.
17. 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.
18. 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 assured water supply of DJB/ New Delhi Municipal Council / other such local civic authority (as the case may be).
19. 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.
20. 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.
21. The PP shall store all the construction material within the project site as committed. Provision shall be made for providing facilities such as mobile toilets, safe drinking water, medical healthcare, crèche etc for the construction workers hired locally.
22. As proposed, fresh water requirement from municipal supply shall not exceed 42 KLD as per water assurance obtained from DJB. Occupancy Certificate shall be issued only after getting necessary permission for required water supply from DJB/ concerned Authority.
23. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/ reused for flushing, AC makeup water and gardening.
24. The PP shall provide toxic gas (Combustible gas, Carbon dioxide and Hydrogen sulphide, Methane, VOCs, Ammonia) detectors for STP area.
25. Possibility to install gas based generator shall be explored and the generator sets shall be operated as per extant directions of CAQM/ CPCB guidelines
26. Energy audit shall be carried out periodically to review energy conservation measures.

27. All sensor/meters based equipment should be calibrated on quarterly basis.
28. The green building audit shall be done on annual basis since inception of the project. Further, the audit report shall be included in six monthly compliance report.
29. Occupancy of the premises would be allowed only after getting Electric supply from concerned power supply agencies to restrict the use of generator sets.
30. Additional pervious area of 1666.33 m2 being allocated (wasted) for surface parking ( P1 + P2 + P3) in the form of pervious grass pavers shall be transferred to grass area which will increase pervious grass area from 10.2% to 37.99 %. Also parking should be restricted to the stilt area and basements.
31. Part of the impervious area (which is included in the basement footprint) should be covered with grass/vegetation by putting a layer of soil of 150 mm on top of the basement area.
32. The grass/green area both pervious and impervious (on basement) shall be increased to over 50% of the open area.

**Agenda: 03**

**Case No C-420**

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| **Name of the Project** | EC for Proposed Kiran Nadar Museum of Art & Kiran Nadar Centre Project at Plot no. – 3, 4 & 5, Village – Samalkha. Tehsil- Vasant Vihar, New Delhi by M/s Vama Sundari Investments Delhi Pvt. Ltd |
| **Project Proponent** | Sunil Kumar Shrivastava, M/s Vama Sundari Investments Delhi Pvt. Ltd, CP-3, Sector 8, IMT Manesar, Gurugram, Haryana Haryana 122051 |
| **Consultant** | M/s AscensoEnviro Pvt. Ltd. |
| **EIA Coordinator present during Meeting** | Mr. Purushottam K. Sharma (EIA Coordinator)<br>Mr. Kaunain Sidqui (EIA Manager) |
| **Representative of PP present during Meeting** | Mr. Yadvinder Singh (AGM)<br>Mr. Anoop Negi (Sr. Manager) |
| **Proposal No.** | SIA/DL/MIS/283409/2022 |
| **File No.** | DPCC/SEIAA-IV/C-420/DL/2022 |

**A. Details of the Proposed Project are as under:**

1. The Proposal is for grant of EC for Proposed Kiran Nadar Museum of Art &Kiran Nadar Centre Project at Plot no. – 3, 4 & 5, Village –Samalkha. Tehsil- Vasant Vihar, New Delhi by M/s Vama Sundari Investments Delhi Pvt. Ltd.
   The Kiran Nadar Museum of Art & Cultural Centre provides an opportunity to embolden the rise of contemporary Indian art, releasing a new cultural offering for both the people of India, as well as for the wider global arts landscape.
2. The Project is located at **Latitude:** 28°31'54.66"N; **Longitude:** 77° 6'20.70"E
3. **Area Details:**
   The Total Plot Area of the project is 32,089.411 sqm. The Proposed Total Built-up Area will be 1,16,781.12sqm. The Proposed FAR Area will be 35,242.25 sqm. The Proposed Total Non FAR Area will be 81,538.87 sqm. The Total Basement Area will be 81,075.52 sqm. The Proposed Ground Coverage will be 12,072.22 sqm. The total no. of Basements will be 3 nos. The total nos. of floors will be 3B+G+3. The total no of expected population is 7350 in normal days & 12620 persons in peak. The Max. Height of the building will be 19.28 m.
4. **Water Details:**
   **During Construction Phase,** During Construction stage, total water requirement will be approx. 85 KLD which will be met through tankers arranged by the contractor out of which 42.5 KLD will be used as labours, 35 KLD for construction purposes and 7.50 KLD for Dust control. Total sewage generation will be treated in mobile STP installed at site. Mobile toilets and potable water facilities will be provided at site for labor and staff.
   **During Operational Phase,** Total Water requirement of the project will be 382 KLD which will be met by 207 KLD of Fresh water from Delhi Jal Board and 175 KLD of Treated water from in house STP. Out of 207 KLD of Fresh Water, 106 KLD will be used

for Cooling Towers, 38 KLD for restaurant & Café, 3 KLD for filter backwash and 60 KLD for domestic use.Total Waste water generated will be 184 KLD which will be treated in house STP of 220 KLD capacity. Treated Water from STP will be 175 KLD which will be recycled and reused for Flushing (106 KLD), DG Cooling (49 KLD), & landscaping (20 KLD).

06 Nos. of RWH pits proposed with RWH tank capacity of 150 KLD capacity.

5. **Solid Waste Details**

   **During Construction Phase,** The waste from construction activities will be reused for backfilling and road development after manual segregation.

   **During the Operation Phase,** approx. 1893 Kg/day of Solid Waste will be generated from the project. Bio-Degradable Waste will be treated in House OWC of 585 kg capacity. Non-Biodegradable Waste (Recyclable and Non-Recyclable) will be disposed through approved Recyclers.

6. **Power Details**

   **During Construction** Total Power requirement will be 50 kVA which will be supplied by state electricity board.

   **During Operation Phase,** Total Power requirement will be 3900 kVA which will be supplied by state electricity board. For Power Back up, 05 DG sets of Capacity 3 x 2000 kVA and 2 x1000 kVA will be installed.

   750 kWpwill be met from Solar Energy.

7. **Parking Facility Details:** Total Parking required is 798 ECS and Total Proposed Parking is 844 ECS. Total 169 No's (20% of total Parking proposed) of E-Vehicle Parking will be provided in Basement 2 (30 No's) & in Basement-3 (59 No's).
8. **Eco-Sensitive Areas Details:** Distance of Okhla Wildlife Sanctuary from project site is 20.4 Km and from AsolaBhati Wildlife Sanctuary is 15.4 Km SE.
9. **Plantation Details:** The proposed Green Area is 11971.88 sqm. (37 % of plot area). Total no. of trees required are 94 nos. out of which 25 Nos. will be cut, 24 Nos will be transplanted within the site and remaining 45 nos. will be retained. Total no. of trees proposed are 406 nos.
10. **Cost Details:** Total Cost of the project is Rs 1134 Crores.

After due deliberations, the SEAC in its 115th Meeting held on 17.09.2022,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 04.10.2022 vide letter dated 04.10.2022 which is as follows:

| S.No. | Information Sought by SEAC during SEAC Meeting dated 17.09.2022 | Reply dated 04.10.2022 submitted on 04.10.2022 |
|---|---|---|
| 1. | Water assurance from DJB for operational phase should be provided with clear timelines. In case, DJB is not ensuring supply then PP is required to submit detailed scheme along with shortlisted technology, | PP has informed that they have obtained DJB Water/Sewer NOC for Proposed project vide letter no. DJB/AEE(M)-36/2022/85, dated: 20.05.2022, and deposited total amount INR 9,38,97,246. PP has attached copy of NOC from DJB. |

| | | |
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| | proposed water quality parameter to be achieved, associated power requirement, waste/reject management and proposed financial expenditure for upgradation of STP treated water to different reuse quality. | PP has informed that in case of non-availability of DJB water connection to their project site, they will purchase 100 KLD potable water through tanker from DJB only for all domestic purposes.<br>PP has also informed that request letter has also been submitted to DJB on dated: 28/09/2022 regarding assurance of 100 KLD fresh water through potable tanker water.<br>PP has attached copy of the same.<br><br>PP has informed that in case of non-availability of DJB water connection to their project site, they will also require water for their HVAC system. Total water requirement for their HVAC system is 105 KLD. Out of this 50 KLD treated water is available with us from their in-house STP and they will purchase 55 KLD treated sewage water from DJB sewage treatment plant.<br>PP has attached request letter submitted to DJB on dated 28/09/2022 regarding assurance of 55 KLD recycled water from STP for HVAC.<br><br>PP has informed that they will use softener for STP treated water to meet the HVAC water quality requirement<br><br>PP has attached revised water balance diagram which is as follows:<br>**Water requirement during Operation Phase (After taking conservation measures):**<br>**S.No** \| **Particulars** \| **Quantity**<br>1. \| **Total Water Requirement** \| 330 KLD<br>2. \| **Fresh Water Requirement** (Source: DJB) \| 100 KLD<br>3. \| **Treated** \| 230 KLD |

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| | | | **Water Requirement** | |
| | | | **Treated water requirement to be met by in house STP** | 175 KLD |
| | | | **Treated water requirement to be met from DJB STP** | 55 KLD |
| | | | Flushing | 105 KLD |
| | | | HVAC | 105 KLD |
| | | | Cooling Tower | 20 KLD |
| | | 4. | **Waste Water Generated** | 190 KLD |
| | | 5. | **STP Capacity** | 220 KLD |
| 2. | 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/treatment mechanism proposed for making this water fit for use in construction. | PP has informed that total water requirement during construction phase is 90 KLD which will be sourced from PappanKalan DJB STP.<br>PP has attached request letter dated 29/09/2022 to DJB for assurance of the same.<br><br>PP has also informed that to meet the requirement of water quality for building construction (IS 456), they will install onsite water filtration plant of 90 KLD capacity. | | |
| 3. | 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 total 1200 no. of labours have been estimated to be deployed during peak construction phase of the project.<br><br>PP has informed that a separate plot of area about 1.5 to 2 Acres will be taken on rent/lease by the construction contractor | | |

<table>
<tr><td></td><td></td><td>nearby to the construction site.<br>PP has attached Proposed Infrastructure plan for construction labours.</td></tr>
<tr><td>4.</td><td>Proposal for a provision of toxic gas (Combustible gas, Carbon dioxide and Hydrogen sulphide, Methane, VOCs, Ammonia) detectors for STP area.</td><td>PP has informed that 2 No. of toxic gas detectors have been proposed in the STP Plant room covering the tanks and pump room area which will be integrated with Fire Detection and Alarm system as well as Ventilation system.<br><br>PP has attached Location of Toxic gas detectors in STP Plant room.</td></tr>
<tr><td>5.</td><td>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.</td><td>PP has attached Revised EMP (Environment Management Plan) for dust mitigation measures which is as follows:<br><table><tr><th>Phase</th><th>Capital Cost</th><th>Recurring Cost</th></tr><tr><td>Construction Phase</td><td>162 Lakhs</td><td>47 Lakhs</td></tr><tr><td>Operation Phase</td><td>420 Lakhs</td><td>65 Lakhs</td></tr></table>PP has attached undertaking for the same.</td></tr>
<tr><td>6.</td><td>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.</td><td>PP has attached Detailed Traffic Study Report along with Traffic impact assessment and mitigation measures.</td></tr>
<tr><td>7.</td><td>Proportion wise Step Diagram to be provided showing the amount of reduction in net per capita energy</td><td>PP has attached Proportion wise Step Diagram along with Strategies Adopted for Leed Platinum Rating for the proposed</td></tr>
</table>

| | | |
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| | demand achieved through (i) Load Reduction Strategies, (ii) Passive Strategies, (iii) Renewables, and (iv) Energy Recovery strategies. At least 2 % of the total energy demand to be sourced from renewables. Percentage reduction through each of the aforesaid strategies to be provided in a consolidated diagram format for easy comprehension. | Project.<br>PP has also attached LEED Feasibility Report. |
| 8. | The PP should submit the proposal for installation of gas based generator sets as a first option, hybrid generator sets (with 70 % gas based fuel and 30 % diesel) as a second option. The diesel generator sets are not be operated during GRAP in compliances of directions issued for Delhi & NCR. | PP has informed that 2 No. 1000 kVA & 2 No. 2000 kVA Hybrid Dual fuel based Generators for critical power loads and 1 No. 2000 kVA Hybrid Dual fuel-based Generator as standby will be installed.<br><br>PP has sought relaxation for the stack height of DG set to 1.5 m from roof level due to overall height restriction imposed by Airport Authority in its NOC for the project, the approved building height is 23 meters and proposed building height is 19.28 m. |
| 9. | Plan for managing, conserving the top soil excavated during construction and for its reuse. | PP has informed that total top soil excavated will be 8442 cum of which 2580 cum will be used for refilling and rest i.e. 5862 cum will be preserved at separate plot nearby site and will be donated to Nursery or nearby construction site/Other Shiv Nadar Foundation (SNF) sites as and when the requirement arise. |
| 10. | Revised geotechnical information report for strata upto 40 metres, percolation rate, soil information and detailed contour map of the site should be submitted. The groundwater level should be ascertained via trial boring. | PP has attached Geotechnical Investigation Report in response to the query. |
| 11. | Elaborated effects of the building activity in altering the microclimates | PP has informed that assessment and simulation for heat island & inversion |

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| | with revised self-assessment on the likely impacts of the proposed construction on creation of heat island & inversion effects, demonstrated proof simulated model study. | effects has been done for the proposed project.<br>PP has attached External Temperature Profiles for reference. |
| 12. | Of the total plot area of 32089 m2, the project basement footprint is 28142.96 m2, which is around 87.7% of the total plot area. This is an extraordinarily high percentage. As a result the pervious green area that will remain is 2787.78 m2 which is just 8.69% of the plot. The pervious green area should be at least 15%. | PP has informed that Total Soft green Area proposed is 3582.8 sqm (11.16% of Plot Area), and Total pervious green Area proposed is 4043 sqm (12.6% of Plot Area) which cumulatively accounts for 23.76 % of the total plot area (32089 sqm).<br>PP has informed about the additional green area which is as follows:<br>1. Green roof on Terrace Level: 9259 sqm<br>2. Green roof on Canopy level: 270 sqm<br>3. Green roof of ancillary building level: 595.5 sqm<br>Total roof top green area: 10120.5 sqm (31.5% of total plot Area).<br><br>Vertical Green Wall has also been proposed for the project.<br><br>PP has attached detailed Green area calculation and plan. |
| 13. | The compacted soil excavation calculation reported as 46,000 m3 seems to be an underestimate by an order of magnitude for excavation of area of 28142.96 m2 x 18 m depth. | PP has informed that total volume of earth to be excavated will be 4,20,000 cum.<br>The tentative location for where the earth will be utilized are:<br>1. Mandi Farmhouse<br>2. Chatarpur farmhouse<br>3. Jhangirpuri<br>4. Okhala Godrej<br>5. Aerocity |
| 14. | Tree number at serial number 13 of FicusBengalensis of reported girth of 90 inches or five feet is proposed to be cut, but should instead be retained | PP has informed that no tree will be cut at site. All the tree purposed to be cut will be transplant at project site along the boundaries. |

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| | or transplanted. | PP has attached existing Trees marked on Site plan. |
| 15. | The PP has not submitted an existing tree map as per the Delhi Tree Transplantation Policy. The PP is required to submit existing tree map – which shows the location of the trees being retained (green), transplanted (brown) and cut (red). | PP has informed that total 49 trees will be transplanted at the site as per the Delhi Tree Transplantation policy.<br>PP has attached existing Trees marked on Site plan showing the location of the existing trees marked as being retained in green, transplanted in brown. |
| 16. | PP may submit a proposed landscape plan – showing the location of retained trees (green), new location of transplanted trees (brown) and location of the trees to be planted (yellow). | PP has attached Revised Landscape plan showing the location of retained trees (green), new location of transplanted trees (brown) and location of the trees to be planted (yellow). |
| 17. | In the landscape map – the pervious green, the soft green (on the basement), and the hard green (green road pavers area, on the basement) should be shown separately | PP has attached Landscape Plan showing the pervious green, the soft green (on the basement), and the hard green (green road pavers area, on the basement). |
| 18. | The rainfall runoff calculation co-efficients may be reviewed. The peak rainfall calculation be taken at 115 mm per hr. | PP has attached Revised rainfall runoff calculation and Rainwater Harvesting System. |
| 19. | The holding tank for rain water proposed at 150 KL is much less than the 15 minute rainfall runoff of around 500 KLD as per shared calculations. PP may review the size of the holding tank and increase it substantially preferably to one hour of peak rainfall so as to have an adequate backup of water for its daily usage. | PP has informed that Proposed Harvesting Pit & Holding Tanks has been revised. Now, proposed Rainwater harvesting pits will be 6 nos. and 3 Rain water holding tanks of 200 cum, 150 cum, 100 cum capacity respectively will be provided (total capacity 450 cum, 2 days of total water requirement / 4.5 days of fresh water requirement.). |

**B. <u>After due deliberations, the SEAC in its 117th Meeting held on 01.11.2022 recommended as follows:</u>**

***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:***

**SPECIFIC CONDITIONS**

1. The project proponent shall obtain firm water supply permission/ assurance or ground water extraction permission before starting construction as per submission given during the presentation.
2. The project proponent shall adhere to the revised total water requirement – 330 KLD, Fresh water requirement – 100 KLD, Treated water requirement – 230 KLD (175 KLD from inhouse STP and 55 KLD from nearby STP) for recycling in flushing – 105 KLD, HVAC- 105 KLD, Cooling Tower- 20 KLD). The project shall follow principle of Zero Liquid Discharge (ZLD). Excess treated water from the STP will not be discharged to sewer line but the same shall be utilized for reuse purposes after adequate up-gradation of treated water to reuse standards.
3. Treated water of DJB STP should be used for designated purposes only after tertiary treatment of the same to ensure it is fit for construction use.
4. The project proponent should adhere to the revised cost of Environmental Management Plan as committed during the presentation i.e. capital cost of Rs. 162 Lacs & Recurring cost of Rs. 47 Lacs/ year during construction phase and capital cost of Rs. 420 Lacs & Recurring cost of Rs. 65 Lacs/ year during operation phase.
5. At least 750 kWp to be sourced from Solar (Renewable) energy as commited.
6. PP shall provide 844 ECS as committed.
7. PP shall provide electric charging points in parking areas for e-vehicles for at-least 20% (169 nos) of car parking as committed.
8. Ground water should be extracted only after the permission from the competent authority.
9. No of rain water harvesting pits shall be 06 nos. with RWH tank of capacity 450 KLD shall be provided as committed. 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 buffer of atleast10 m above ground water table.
10. 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 final outfall/ sewer connection. Calibration for all the Flow meters shall be maintained on quarterly basis.
11. Minimum 1 tree for every 80 Sq. Mt of plot area (118 Nos.) should be planted within the project site.

12. Green building norms should be followed with a minimum 3 star GRIHA/IGBC/ASSOCHAM GEM rating and Gold rating should be followed up.
13. Construction & Demolition waste should be disposed of at authorized C&D waste processing unit.
14. 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.
15. 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 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/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.
16. The project proponent shall implement the revised Traffic Management Plan as committed.
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 assured water supply of DJB/ New Delhi Municipal Council / other such local civic authority (as the case may be).
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. The PP shall store all the construction material within the project site as committed. Provision shall be made for providing facilities such as mobile toilets, safe drinking water, medical healthcare, crèche etc for the construction workers hired locally.
24. As proposed, fresh water requirement from municipal supply shall not exceed 42 KLD as per water assurance obtained from DJB. Occupancy Certificate shall be issued only after getting necessary permission for required water supply from DJB/ concerned Authority.
25. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/ reused for flushing, AC makeup water and gardening.
26. The PP shall provide toxic gas (Combustible gas, Carbon dioxide and Hydrogen sulphide, Methane, VOCs, Ammonia) detectors for STP area.
27. Possibility to install gas based generator shall be explored and the generator sets shall be operated as per extant directions of CAQM/ CPCB guidelines
28. Energy audit shall be carried out periodically to review energy conservation measures.
29. All sensor/meters based equipment should be calibrated on quarterly basis.
30. The green building audit shall be done on annual basis since inception of the project. Further, the audit report shall be included in six monthly compliance report.
31. Occupancy of the premises would be allowed only after getting Electric supply from concerned power supply agencies to restrict the use of generator sets.
32. At least 60% of the top soil should be used within the project site.
33. Excavated earth should be disposed/ utilized within 10 km of the project site.

**Agenda No. 04**

**Case No. C-416**

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|---|---|
| **Name of the Project** | Amendment in Environment Clearance (EC) for Construction of "Group Housing Colony" with Built-up area 3,47,102 sqm at Ashok Vihar, plot-B, District- North west, Delhi |
| **Project Proponent** | Mr. Rahul Kumar, Senior Manager, M/s Godrej Green Woods Private Limited at Godrej One, 5th Floor, Pirojsha Nagar, Eastern Express Highway, Vikhroli East Maharashtra 400079. |
| **Consultant** | Ind Tech House Consult, G 8/6, Ground Floor, Rohini Sector 11, New Delhi 110085 |
| **EIA Coordinator present during Meeting** | Mr.Anand Kr. Dubey (EIA Coordinator)<br>Mrs. SupritiGuha |
| **Representative of PP present during Meeting** | Mr.Vikas Tarachandani (Sr. Manager)<br>Mr. Himanshu Goyal (Sr. Manager) |
| **Proposal No.** | SIA/DL/MIS/291449/2022 |
| **File No.** | 21-57/2021-IA-III |

**A. Details of the Proposed Project are as under:**

1. The Proposal is for grant of Amendment in Environment Clearance for the project Construction of "Group Housing Colony" with builtup area 3,47,102 sqm at Ashok Vihar, plot-B, District- North West, Delhi by M/s Godrej Green Woods Private Limited. The amendment is required only for the nos. of trees exists at site and trees to be retained.
2. The said project has obtained Environment Clearance vide File no. 21-57/2021-IA-III dated 22nd November 2021 by MoEF& CC for the plot area 78710 sqm and built-up area of 3,47,102 sqm. The project is located at Ashok vihar, Plot-B, District, North West, Delhi with coordinates $28^0$ 41'14.29 N Latitude & $77^0$ 10'47.55 E Latitude. The project was issued ToR vide letter no. 21-33/2021-IA-III dated 17th June, 2021 by MoEF&CC, GoI.
3. As per Environmental Clearance issued the land parcel belongs to Rail Land Development Authority (RLDA). The land has been given to M/s Godrej Green Woods Private Limited for the development of a group housing colony under the lease agreement. The project has two plots- A & B with a road dividing the two plots. Plot A has already been granted Environmental Clearance vide letter No. 21-85/2020-IA-III dated 05.01.2021 for the construction of Group Housing Colony at Total Plot area of 28,888 sqm and total built-up area of 1,48,863.3 sqm and for Plot B there is development of Group Housing Colony ( 08 Residential towers, 3 Clubs in lower

ground floor and 1 separate club block, 26 Villas, 4 Retail Blocks, 1 Milk Booth and 4 watch ward cabins) at Plot-B having plot area of 78,710 sqm.

4. As per Environmental Clearance issued, total green area of 19677.5 sqm will be developed within the plot area of the project. Plantation of native plants will be done, 2337 trees are present at the site out of which 305 nos. of trees will be retained and 946 nos. of trees will be transplanted within the site and 1086 nos. of invasive trees will be cut/ trimmed for the construction of residential buildings. Additional 39 new trees will be planted at the site. Thus, total 1290 trees will be maintained at the site (i.e. 305 + 946 + 39)
5. Details of configuration is as follows for which amendment is proposed:

| S.no | Plant/ Equipment/ Facility | Existing Configuration | Proposed Configuration | Final configuration after Amendment | Remarks if Any |
|---|---|---|---|---|---|
| 1. | Plot Area | 78,710 Sqm | Nil | 78,710 Sqm | No Change |
| 2. | Built Up Area | 3,47,102 Sqm | Nil | 3,47,102 Sqm | No Change |
| 3. | Total No of Existing Trees on site | 2,337 Nos of trees as per EC letter | -376 Nos | 1,961 Nos of Trees present actual | PP stated that they mistakenly represented/ included 376 nos of trees of adjoining plot in the proposal. PP has attached an order of Department of Forest & Wildlife, GNCTD empaneling the Green Morning Horticulture Pvt.Ltd and three others to carry out the work of tree plantation in the NCT of Delhi. PP has attached tree survey summary report of proposed project conducted by Green Morning Horticulture Pvt. Ltd. dated 27.01.2022 showing total 1961 nos. of trees existing at site. |
| 4. | Trees to be retained | As per EC letter 305 trees to be retained | Only 84 Nos of trees will be retained | Only 84 Nos. of trees will be retained | |

The PP has stated that in the Environmental Clearance there was a clerical error on the tree count at site. By mistake they have included trees 376 nos. on adjoining plots owned by our lessors (RLDA) due to a calculation mistake it was represented that there were 2337 trees on site and 305 trees were being retained, while the actual count is 1961 and 84 trees will be retained. The survey, done by a Forest Department of Delhi empanelled agency "Green Morning" is also attached, along with their empanelment letter.

By virtue of the proposed amendment sought and clarification submitted during presentation the revised scenario wrt trees will be as follows:

| | **Earlier survey** | **New Survey** |
|---|---|---|
| Total Trees | 2337 | 1961 |
| Trees to be cut (invasive or dry) | 1086 | 996 |
| Net trees ( excluding invasive or dry) | 1251 | 965 |
| Trees to be retained | 305 | 84 |
| Trees to be transplanted | 946 | 881 |
| % of retention of total trees | 13.1% | 4.3% |
| % of retention of net trees | 24.4% | 8.7% |

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 24.09.2022 vide letter dated 23.09.2022 which is as follows:

<table>
<tr><th>S.No.</th><th>Information Sought by SEAC during SEAC Meeting dated 09.09.2022</th><th>Reply dated 23.09.2022 submitted on 24.09.2022</th></tr>
<tr><td>1.</td><td>PP shall indicate the steps taken if any to incorporate the trees on site in the planning stage as required by section 4(1) of the Tree Transplantation Policy including existing tree survey site report.</td><td>PP has informed that they have conducted survey by the empanelled agency of Department of Environment, Forest and Wildlife and the tree transplantation will be done by the empanelled agency according to the tree transplantation policy section 4 (1). PP has enclosed survey summary tree list.</td></tr>
<tr><td>2.</td><td>The percentage of trees being retained is just 4.3% of the total trees. Even if the trees being cut (subabul + dry) are excluded (net trees), the retention is just 8.7%. The earlier EC was granted on the basis that at least 13.1 % of total trees, and 24.4% of net trees were being retained. This is an</td><td>PP has informed that earlier retained trees i.e. 305 had 111 invasive trees which after excluding from retained trees gives the following outcome:
<table>
<tr><th></th><th>Earlier Survey</th><th>New Survey</th></tr>
<tr><td>Total Trees (A)</td><td>2337</td><td>1961</td></tr>
<tr><td>Trees to be</td><td>1086</td><td>996</td></tr>
</table>
</td></tr>
</table>

| | | | | |
|---|---|---|---|---|
| | extraordinarily low percentage of trees being retained, especially for a project that has "Green Wood" in its name. | cut (Invasive or Dry) | | |
| | | Invasive Trees marked under retained | 111 | |
| | | Net Trees (excluding invasive or Dry) (B) | 1140 | 965 |
| | | Retained Trees including invasive | 305 | 203 |
| | | Retained Trees (only non-invasive) (C) | 194 | 203 |
| | | Retained % w.r.t. total trees (C/A) | 8.30 % | 10.35 % |
| | | Retained % w.r.t Net Trees (C/B) | 17.02 % | 21.04 % |
| 3. | The Tree and building planning needs to be revised so that the percentage of trees to be retained should not decrease in comparison to the earlier scenario proposed in earlier environmental clearance dated 22.11.2021. That is the bare minimum. Attempt should be made to increase the total trees being retained to 30%. | PP has informed that they have revisited the same and now they have increased the number of retained trees from 84 to 203.<br><br>PP has informed that retention rate w.r.t. net trees in the earlier EC was 17.02 % which have been increased to 21.04 %. | | |
| 4. | Trees to be transplanted within the site and outside the site with clear demarcation in the list. | PP has enclosed details of survey tree list and survey plan. | | |
| 5. | Categorical information wrtnumber | PP has informed that 203 no. of trees will be | | |

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| | of trees to be maintained/ planted within project site. | retained on project site and 51 nos. of trees will be transplanted within site.<br>PP has informed that 711 trees will be transplanted outside the site. |
| 6. | Revised assessment of heat Island effect and change in ambient air pollution levels due to change in number of trees should be provided by the project proponent. | PP has informed that due to no change in landscape design and total proposed trees (1290), the heat island effect and change in ambient air pollution levels will remain same.<br>PP has enclosed report for the same. |

The committee deliberated that tree survey should have been carried out at the time of project feasibility assessment and site identification and the project is now in fate-accompli situation in view of EC issued in 2021 as far as Tree Transplantation Policy 2020 clause 4 (1) is concerned.

After due deliberations, the SEAC in its 116th Meeting held on 04.10.2022,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 24.09.2022 vide letter dated 23.09.2022 which is as follows:

| S.No. | **Information Sought by SEAC during SEAC Meeting dated 09.09.2022** | **Reply dated 23.09.2022 submitted on 24.09.2022** |
|---|---|---|
| 1. | The tree list does not show the unique id for each tree. PP is requested to include the unique ID for each tree in the tree list so that the list may be correlated with the existing tree map. | PP has attached list and drawings comprising of unique id of each tree. |
| 2. | The PP has stated that they are increasing the green area. The PP may show the green areas on map and in the table as follows:<br>1. Consolidated soft central Green area<br>2. Other soft earth green area<br>3. Hard green areas (on top of basement etc) | PP has attached revised landscape plan.<br>The Area detail as provided by PP is as follows:<br>1. Consolidated Soft green area: 10336 sqm<br>2. Proposed additional consolidated central green area: 2744 sqm<br>3. Proposed other soft green area: 1217 sqm<br>4. Proposed Hard Green Area (on top of basement etc.): 15384.42 sqm<br>Total Proposed Green Area: 29681.42 sqm |

It was deliberated during the meeting that Delhi Transplantation Policy, 2020 is complied with in the revised Amendment by increasing green area by dropping some building blocks and tree retention of 20 % and transplantation

**B. <u>After due deliberations, the SEAC in its 117th Meeting held on 01.11.2022 recommended as follows:</u>**

Amendment of Environmental Clearance vide File no. 21-57/2021-IA-III dated 22nd November 2021 by MoEF& CC recommended to the effect that fact and figures with respect to trees will be as follows:

"Total green area of 29681.42 sqm will be developed within the plot area of the project. Plantation of native plants will be done, 1961 trees are present at the site out of which 203 nos. of trees will be retained and 51 nos. of trees will be transplanted within the site and 711 no of trees will be transplanted off-site and 996 nos. of invasive trees will be cut/ trimmed for the construction of residential buildings. Additional 1036 new trees will be planted at the site. Thus, total 1290 trees will be maintained at the site. Rest of the conditions will remain same as per the Environmental Clearance issued on 22nd November 2021 by MoEF& CC.

***Meeting ended with thanks to the chair.***

(Vijay Garg)
Chairman

(Pankaj Kapil)
Member Secretary

Chetan Agarwal
Member

(Gopal Mohan)
Member

(Paromita Roy)
Member

(S.K. Juneja)
Member

(Ankit Srivastava)
Member

(Pranay Lal)
Member