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

Minutes of the 142nd Meeting of State Level Expert Appraisal Committee (SEAC) held on 10.06.2024 at 10:30 AM in the Conference Room of DPCC at 5th Floor, ISBT Building, Kashmere Gate, Delhi 110006.

The 142nd Meeting of State Level Expert Appraisal Committee (SEAC) was held on 10.06.2024 in the Conference Room of DPCC, DMRC IT Park, Shashtri Park 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. Ashish Gupta - Member
3. Sh. Chetan Agarwal - Member
4. Dr. Sumit Kumar Gautam - Member
5. ~~Dr. Sirajuddin Ahmed~~ - ~~Member~~ (absent)
6. Dr. Anwar Ali Khan - Member Secretary

Following SEAC Members could not attend the meeting:

1. Sh. Gopal Mohan - Member
2. Ms. Jyoti Mendiratta - Member
3. Sh. Ankit Srivastava - Member
4. Ms. Paromita Roy - Member
5. Dr. Kailash Chandra Tiwari - Member
6. Sh. PranayLal - Member

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

The Minutes of the 141st SEAC Meeting held on 07.03.2024 were confirmed by the Members.

PARIVESH 1.0 Cases

Agenda No.: 01

Case No. C-466

Name of the Project	EC for Nirogi Charitable and Medical Research Trust, At Community Facility Institutional Complex, MandawaliFazalpur, Patparganj, Delhi-110092 by M/s Nirogi Charitable and Medical Research Trust.
Project Proponent	M/s Nirogi Charitable and Medical Research Trust.
Consultant	M/s IND TECH HOUSE CONSULT
EIA Coordinator present during Meeting	Mr. Soumya Dwivedi Mr. Indra Sharma
Representative of PP present during Meeting	Mr. Vijay Kumar Tyagi (GM) Mr. Manvendra Singh (DGM)
Proposal No.	SIA/DL/INFRA2/449804/2023
File No.	DPCC/SEIAA-IV/C-466/DL/2023
Case Type	Case was considered in 137th and 140th SEAC Meeting held on 18.11.2023, 26.02.2024. ADS was sought.

A. Details of the Proposed Project are as under:

1. The proposal is for grant of EC for Nirogi Charitable and Medical Research Trust, At Community Facility Institutional Complex, Mandawali Fazalpur, Patparganj, Delhi-110092 by M/s Nirogi Charitable and Medical Research Trust and details have been updated as per ADS reply submitted.
2. The project is located at **Latitude:** 28°37'40.76"N; **Longitude:** 77°18'53.74"E.
3. **Area Details:**
   The plot area of the project is 8463sqm. Theproposed total Built-up Area is 58729.74sqm. The proposed FAR Area is 23422.31sqm. The proposed Non FAR Area is 35307.22sqm. The proposed Ground Coverage is 3279.53sqm. An old building of built-up area 1224 sqm will be demolished. The proposed number of basements are 3 nos.. The proposed number of hospital beds is 365 nos. The maximum number of floors of Hospital Building will be 3B+G+S+10 and MLCP will be G+24. The total no of expected population will be5185persons. Max. height of the building will be 44.95 m.
4. **Water Details:**
   During Construction Phase, 21.5 KLD will be the total water requirement for labours, out of which 13.5 KLD of Fresh water will be required for drinking and domestic purpose and 8 KLD for flushing. 10.8 KLD treated water will be sourced through nearby STP for construction activities including the spraying/ sprinkling.The quantity of sewage generation will be 13.62 KLD and the sewage will treated in mobile STP.

During Operational Phase, Total water requirement of the project will be 455 KLD which will be met by 220 KLD of fresh water from DJB and 213 KLD of treated water from in-house STP. Total waste water generated from the project will be 245 KLD which will be treated in-house STP of 300 KLD capacity. Waste water generated from laundry and medical uses will be 20 KLD which will be treated in in-house ETP of 25 KLD capacity and treated water from ETP will be discharged into in-house STP for further treatment. Treated water from STP will be 235 KLD which will be recycled and reused for flushing (80 KLD), Cooling tower & DG cooling (125 KLD), gardening (8 KLD) and excess treated water (22 KLD) will be discharged into municipal drain.

Rainwater storage tank of 220 KL will be provided and 2 nos. of RWH pits will be provided.

5. **Solid Waste Details**

   During Construction Phase, 82.5 Kg/Day of municipal solid waste will be generated which will bedisposed at solid waste site through authorized vendor.

   During the Operation Phase, Total solid waste generated from project will be 680 kg/day. Out of which 270 kg/daywill be biodegradable waste and 410 kg/day will be non-biodegradable waste.Bio-medical waste generation will 292 Kg/day which will be given to approved recycler. The biodegradable wastes will be composted in an onsite OWC and will be used as manure. The non-biodegradable will be disposed at designated site through authorized vendors.

6. **Power Details**

   During Operation Phase, Total power requirement will 2300 kVA which will be met from BSES. For power back up, DG sets of Capacity 3000 KVA [2 x 1500 kVA] will be used.

   Solar photovoltaic power panels of 139.4 kWp capacity (6 % of power requirement) will be provided.

7. **Parking Facility Details,**Total Proposed Parking will be 437 ECS. Provision for 131 nos. EV charging will be provided.
8. **Eco-Sensitive Areas Details:** Distance of Okhla Wildlife Sanctuary from project site is 6.17 Km and from Asola Wildlife Sanctuary is 14.70 Km.
9. **Plantation Details:**The proposed total green area is 1307.07 sqm (15.44% of total plot area), out of which 939.46 sqm will be soft green area (11.10 % of plot area) and terrace reen area is 226.76 sqm (2.67 % of plot area). Total number of proposed trees will be 106 nos. Currently, there are 5 nos of trees within the project site which will be transplanted with prior permission of forest department.
10. **Cost Details:** Total Cost of the project is Rs 365 crores.

After due deliberations, the SEAC in its 137th Meeting held on 18.11.2023, 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 21.02.2024which is as follows:

<table>
<tr><th>S.No.</th><th>Information sought by SEAC during SEAC Meeting dated 18.11.2023</th><th>Reply submitted on 21.02.2024</th></tr>
<tr><td>1.</td><td>Status of Building Plan approval from DDA, DUAC and Delhi Fire Service.</td><td>PP has informed that they have submitted the building plan approval in MCD and approval is under process.
PP has attached copy of application as annexure.</td></tr>
<tr><td>2.</td><td>Water assurance to meet the water requirement during construction phase. PP is required to clarify the arrangement for reusing the treated water along with the mechanism proposed for making this water fit for use in construction</td><td>PP has attached copy of water assurance for construction purpose from Max Super Specialty Hospital (A unit of Balaji Medical & Diagnostic Research Centre) located at 108-A, I.P. Extension, Delhi 110092 as Annexure.

PP has informed that tertiary treatment will be provided to achieve the desired parameters of water for construction purpose.</td></tr>
<tr><td>3.</td><td>Revised landscape plan with demarcated green area with soft green area. Green area should be demarcated as per building bye laws and minimum consolidated area of 10 % of plot area should be kept as soft green area. Calculation for green area to be submitted.</td><td>PP has attached revised landscape plan with demarcated green area and soft green area along with calculation for green area as annexure.
Details of green area are as follows:
<table>
<tr><td>Plot Area</td><td>8463 sqm</td></tr>
<tr><td>Proposed Green Area (16.37 % of plot area)</td><td>1386.81</td></tr>
<tr><td>Soft Green Area (13.62 % of plot area &> 20% of open area)</td><td>1152.69</td></tr>
<tr><td>Terrace Green Area (2.74% of the plot area)</td><td>232.35</td></tr>
<tr><td>No. of trees to be cut/ transplanted</td><td>5 nos.</td></tr>
<tr><td>No of Trees to be planted on site.</td><td>106 nos.</td></tr>
</table></td></tr>
<tr><td>4.</td><td>Water assurance from DJB including the following details:
i. Whether technical feasibility exists at present to supply water to the above site?
ii. If no, whether DJB is planning to extend supply network to above area in the specific time frame (time frame</td><td>PP has informed that they have applied for approval of water and sewer through OBPs portal of MCD.

PP also informed that they have written letter to DJB regarding water assurance and DJB has suggested them to approach to DDA as the proposed area comes under the DDA jurisdiction not</td></tr>
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<table>
<tr><td></td><td>to be mentioned).
iii. Following details as part of water supply assurance as required for environmental clearance should be provided:
i. Name of the UGR
ii. Capacity of feeding UGR.
iii. Current demand on existing UGR.</td><td>in DJB scope. So, they are approaching to DDA for issuing the approval

PP has attached copy of letter as annexure.</td></tr>
<tr><td>5.</td><td>Proposal to reuse the excess treated water from STP during reduced demand of treated water in winters.</td><td>PP has attached details for the reuse of excess treated water from STP during winter.
PP informed that 110 KLD excess treated water will be generated which will be discharged into sewer.</td></tr>
<tr><td>6.</td><td>Revised scheme for STP with technical justification demonstrating the feasibility of reuse of treated water.</td><td>PP has attached water requirement calculation along with water mass balance for summer, winter, rainy season as annexure.
PP has attached revised water balance chart in STP and water requirement during Operation Phase Summer season)which is as follows:

<table>
<tr><th>S.No</th><th>Particulars</th><th>Quantity</th></tr>
<tr><td>1.</td><td>Total Water Requirement</td><td>413 KLD</td></tr>
<tr><td>2.</td><td>Fresh Water Requirement (Source: DJB)</td><td>220 KLD</td></tr>
<tr><td>3.</td><td>Treated Water Requirement</td><td>213 KLD</td></tr>
<tr><td></td><td>Flushing</td><td>80 KLD</td></tr>
<tr><td></td><td>Gardening</td><td>8 KLD</td></tr>
<tr><td></td><td>Cooling Tower/ DG Cooling</td><td>125 KLD</td></tr>
<tr><td>4.</td><td>Treated Water generation</td><td>235 KLD</td></tr>
<tr><td>5.</td><td>Waste Water Generated</td><td>242 KLD</td></tr>
</table>
</td></tr>
</table>

		6.	**STP Capacity**	300 KLD
		7.	**ETP Capacity**	20 KLD
		8.	**Excess Treated Water**	22 KLD (Flow to Municipal drain)
7.	Status of power assurance.	PP has informed that they have submitted an application in respective DISCOM for providing assurance letter. Approval is awaited.		
8.	Revised proposal for generator sets as per extant directives of CPCB/ CAQM.	PP has informed that they will follow the CAQM directions as applicable and will install CPCB IV compliant DG sets or will install approved RECD		
9.	Rain water storage tank needs to be enlarged to match capacity of min. 1 day of total fresh water requirement. Additional tank is required to be provided for storage of rainwater and storage tank to be shown on layout.	PP has attached revised detail of rain water harvesting capacity along with additional storage tank and location of the storage tank on layout plan as annexure. Proposed Tank Volume Considering on two day storage Capacity: 200 KL		
10.	Proposal for organic waste convertor within premises with minimum capacity of 0.3 Kg/person/day.	PP has informed that organic waste converter is proposed at site with minimum capacity of 0.3 kg/person/ day. PP has attached location of the OWC on the layout plan as annexure.		
11.	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 sensors for monitoring PM 2.5, PM 10.Atleast 04 Anti-Smog Gun shall be installed before starting the construction and water demand needs to be revised accordingly.	PP has attached revised environment management plan for dust mitigation during the construction phase as annexure. PP has informed that during construction phase 4 no. of antismog gun will be provided for dust mitigation and online monitoring system for PM10 and PM2.5 will be installed.		
12.	Management plan for disposal of excavated sand/ soil along with proposed dust mitigation measures.	PP has informed that soil will be disposed as per applicable norms and necessary measures will be taken for		

		safe disposal. PP has attached a letter from Heritage Infrastructure (India) Pvt. Ltd. as annexure.
13.	Revised solar energy utilization to achieve atleast 10 % of power load requirement.	PP has attached revised solar energy utilization to achieve the 6% of the total power load as annexure.
14.	Analysis report for the present ground water quality.	PP has attached latest analysis of the ground water as annexure.
15.	Revised traffic management plan incorporating the requisite infrastructure improvements to be provided/ undertaken by the project proponent to enable direct & comfortable access from bus stops to the hospital entries.	PP has attached revised traffic management plan as annexure.
16.	Daylight and Ventilation simulation to be presented for the building with typical floor-wise details with the objective of minimizing the air-conditioning and artificial lighting loads of the building.	PP has attached daylight and ventilation simulation as annexure.
17.	PP to confirm ground water level at the proposed site along with water quality report as per BIS 10500 standard.	PP has attached ground water level report along with water quality report as annexure.

After due deliberations, the SEAC in its 140st Meeting held on 26.02.2024, 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 16.04.2024 which is as follows:

S.No.	Information sought by SEAC during SEAC Meeting dated 26.02.2024	Reply submitted on 16.04.2024
1.	Revised tree list to be planted to be produced matching with greening plan.	PP has attached revised landscape plan along with green area calculation which is as follows: Plot Area: 8463 sqm Proposed Green Area (15.44% of plot area): 1307.07 sqm Soft Green Area (11.10% of plot area & >20% of open area): 939.46 sqm Terrace Green Area (2.67% of the plot area): 226.76 sqm No of Trees to be Planted on Site as Per Norms: 106 Nos PP has informed that 5 no. of trees will

<table>
<tr><td></td><td></td><td>get transplanted after prior permission and also informed about the type of species of proposed trees.</td></tr>
<tr><td>2.</td><td>Water assurance from DJB including the following details:
• Whether technical feasibility exists at present to supply water to the above site?
• If no, whether DJB is planning to extend supply network to above area in the specific time frame (time frame to be mentioned).
• Following details as part of water supply assurance as required for environmental clearance should be provided:
i. Name of the UGR
ii. Capacity of feeding UGR.
iii. Current demand on existing UGR.
iv. Surplus allocation available for this project.</td><td>PP has attached fresh water assurance issued vide letter dated 02.04.2024 from DJB.</td></tr>
<tr><td>3.</td><td>Proposal to reuse the excess treated water from STP during reduced demand of treated water in winters. PP required to identify location such as water body low lying areas etc. for disposal of excess 110 KLD treated water instead of discharging into sewer</td><td>PP has informed that they have explored the possibility of discharging excess treated water to parks. However, due to unavailability of the parks nearby they will be discharging the excess treated water to municipal sewer.

PP has attached water requirement calculation along with water mass balance for summer, winter, rainy season as annexure.
PP has attached revised water balance chart in STP and water requirement during operation phase (summer season) which is as follows:

<table>
<tr><th>S.No</th><th>Particulars</th><th>Quantity</th></tr>
<tr><td>1.</td><td>Total Water Requirement</td><td>433 KLD</td></tr>
<tr><td>2.</td><td>Fresh Water Requirement (Source: DJB)</td><td>220 KLD</td></tr>
<tr><td>3.</td><td>Treated</td><td>213 KLD</td></tr>
</table>
</td></tr>
</table>

			Water Requirement	
			Flushing	80 KLD
			Gardening	8 KLD
			Cooling Tower/ DG Cooling	125 KLD
		4.	**Treated Water generation**	235 KLD
		5.	**Waste Water Generated**	245 KLD
		6.	**STP Capacity**	295 KLD
		7.	**ETP Capacity**	25 KLD
		8.	**Excess Treated Water**	22 KLD (Flow to Municipal drain)
4.	Rain water storage tank needs to be enlarged to match capacity of min. 1 day of total fresh water requirement and to be shown on layout plan matching with fresh water requirement.	PP has informed that the storage of rain water storage tank has been increased to match capacity of minimum 1 day of total fresh water requirement i.e. 220 KL.		
5.	PP is required to provide adequate reasons/constraints for providing only 6 % of total power load as against 10 % of total power load from renewable energy.	PP has informed that the terrace is occupied by chiller plant room and other equipments and the entire shadowless area has already been covered by solar panels which are coming out to be 6% of total power requirement i.e (139.4 kWP) PP has attached solar panel layout plan as annexure along with calculation for number of solar panels to be provided and area occupied by them.		
6.	Revised management plan for disposal of excavated sand/ soil along with proposed dust mitigation measures mentioning the distance of disposal site from project site.	PP has informed that they have done an agreement for disposal of excavated earth with Heritage Infraspace India Pvt. Ltd. PP has attached a letter from Heritage Infrastructure (India) Pvt. Ltd. as		

		annexure.
7.	Fresh analysis report for the present ground water quality as few parameters like Fecal Coliform, Conductivity, Nitrate-N + Nitrite-N not analyzed in the uploaded report.	PP has attached fresh analysis report for the present ground water quality as annexure incorporating the analysis of parameters like Fecal Coliform, Conductivity, Nitrite-N.
8.	PP to confirm ground water level at the proposed site as uploaded ground water level report does not indicate the ground water table.	PP has informed that as per soil investigation report, ground water table has been encountered in all the boreholes at a depth of about 18m below the existing ground level, during the period of field investigations i.e February 2023. PP has attached soil investigation report as annexure.
9.	PP is required to submit power assurance.	PP has attached power assurance from BSES as annexure.
10.	Revised water assurance to meet the water requirement during construction phase. PP is required to clarify the arrangement for reusing the treated water along with the mechanism proposed for making this water fit for use in construction.	PP has attached copy of treated waste water assurance for construction purpose from Max Super Specialty Hospital (A unit of Balaji Medical & Diagnostic Research Centre) located at 108-A, I.P. Extension, Delhi 110092 as annexure.

Project proponent during presentation in 142nd SEAC meeting submitted an undertaking dated 10.06.2024 stating that excess treated waste water will not be disposed in public sewer during summe and for the winter and rainy season they will explore the possibility to reuse it through external agency like parks, service centre, bus depots etc.

B. After due deliberations, the SEAC in its 142nd meeting held on 10.06.2024 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. Only the treated water of STP should be used for construction purposes
2. During construction phase, the fresh waster shall be used for potable purpose for Anti-Smog Gun supplied through tankers.
3. Bills/Receipt issued by Max Super Speciality Hospital (A Unit of Balaji Medical & Diagnostic Research Centre) against purchase of treated water from STP should be part of six monthly EC compliance report.

4. The project proponent shall adhere to the total water requirement – 433 KLD, Fresh water requirement – 220 KLD, Treated water requirement –213 KLD from in-house STP shall be used for reuse & recycling in Flushing (80 KLD), DG Cooling/ HVAC (125 KLD), Gardening (8 KLD)) and excess treated water (22 KLD) shall not be discharged into municipal sewer and PP shall explore the possibility to give excess treated waste water to nearby parks, service stations, bus depots, other construction projects etc.
5. As proposed, fresh water requirement shall not exceed 220 KLD. Occupancy Certificate shall be issued only after getting necessary permission for required water supply from Concerned Authority.
6. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/ reused for flushing, gardening, cooling etc.
7. Advanced oxidation process should be used in STP and ETP to ensure proper treatment of drug residues and its metabolites.
8. The PP shall provide toxic gas (Combustible gas, Carbon dioxide and Hydrogen sulphide, Methane, VOCs, Ammonia) detectors for STP area.
9. Internet of Things (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.
10. All sensor/meters based equipments should be calibrated on quarterly basis.
11. Sensors to measure ground water level/Piezometers certified by CGWB should be installed by the PP immediately. These piezometers should have IoT facility and send data to the server for storage. Weekly data from these piezometers should be submitted along with EC compliance report. Calibration of these sensors should be done once in 6 months. Data of these piezometers should be also be
    a) Highlighted on PP website with monthly updation.
    b) Shared with DJB (ground water division) on quarterly basis.
12. No. of Rain water harvesting pit shall be 2 nos. and Rain water storage tank of capacity of min. 1 day of total fresh water requirement shall be provided. 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.
13. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in organic waste converter. Adequate area shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from the project will be sent to dumping site.
14. PP shall dispose Bio-medical waste as per Bio Medical Waste Management Rules, 2016. Necessary agreement to be reached with thr BMW waste mangemnt facility.

15. Sludge from ETP to be sent to hazardous waste management service provider and necessary agreement has to be taken prior to operation of the project. Necessary agreement to be reached with thr HWM waste mangemnt facility
16. Construction & Demolition waste should be disposed of at authorized C&D waste collection centre/ processing unit. PP shall ensure compliance of C&D waste Management rules, 2016. Necessary agreement to be reached with thr C&D waste mangemnt facility
17. PP shall purchase RMC from Ready-mix Concrete plant consented by DPCC
18. The PP shall store all the construction material within the project site. Provision shall be made for providing facilities such as mobile toilets, safe drinking water, medical healthcare, crèche etc for the construction workers hired locally.
19. Construction activities will be allowed only during day-time period.
20. PP to comply with with Plastic Waste Management Rules 2016.
21. 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 sensors for monitoring PM 2.5, PM 10. Atleast 04 Anti-Smog Gun shall be installed before starting the construction,
22. 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. Regenerating plastic panels should be used instead of GI sheets.
23. The generator sets shall be installed as per extant directions of CPCB/ CAQM with due compliances of directions issued under GRAP for Delhi & NCR.
24. PP should install the air filters in the basement consisting of advanced adsorption technologies.
25. Air Pollution Mitigation Plan for all points and non points should be implemented.
26. PP to provide minimum 30% of total car parking requirement 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.
27. At least 6 % (139.4 kWP) of the total energy demand to be sourced from Solar (Renewable) energy and PP shall try to enhance it further to 10 % of the total energy demand.
28. Green building norms should be followed with a minimum 4 star GRIHA/IGBC/ASSOCHAM-GEM rating.
29. Climate responsive design as per Green Building Guidelines in practice should be ensured to the maximum extent.
30. Energy audit shall be carried out periodically to review energy conservation measures.
31. Exposed roof area and covered parking should be covered with material having high solar reflective index.

32. The sufficient mitigation measures must be taken by the PP to mitigate the effect of heat island.
33. Minimum 1 tree for every 80 Sq. Mt of plot area should be planted within the project site. PP shall plant saplings of minimum 10 ft. height.
34. Vegetation should be adopted appropriately on the ground as well as over built structures such as roofs, basements, podiums etc.
35. Green belt development surrounding the site, 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.
36. 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 and shall keep atleast 10 % of the plot area as pervious.
37. The project proponent should adhere to the Cost of Environmental Monitoring as committed i.e. capital cost of Rs. 43 Lacs and recurring cost of Rs. 6 Lacs/ year during construction phase and capital cost of Rs. 286.7 Lacs and recurring cost of Rs. 49.87 Lacs/ year during operation phase.
38. 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.
39. The Environment Management Cell consisting of 1 Director, 1 Senior Environment Expert, 1 Junior Environment Expert having specific knowledge and experience related to environmental safeguards/ air/ water pollution shall be created and made functional before commissioning of the proposed development.
40. PP shall be responsible for establishment, operation and maintenance of all common facilities and also for compliance of EC conditions during operation stage.
41. 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.
42. 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 DIAL/ DJB/ New Delhi Municipal Council / other such local civic authority (as the case may be) regarding supply of adequate water for the residents/ occupiers.
43. 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.
44. 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.
45. All the vibrating parts will be checked periodically and serviced to reduce the noise generation and sound producing equipment.

46. Lubrication will be carried out periodically for plant machinery.
47. Building design should cater to the differently-abled citizens.

Agenda 02
Case No C-440

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 IND Tech House Consult
EIA Coordinator present during Meeting	Mr. Soumya Dwivedi Mr. Indra Sharma
Representative of PP present during Meeting	Mr. Gurmeet (DFI) Mr. Roobin Punjathia (EE)
Proposal No.	SIA/DL/INFRA2/409692/2022
File No.	DPCC/SEIAA-IV/C-440/DL/2023
Case Type	Case was considered in 123rd SEAC Meeting held on 01.02.2023. ADS was sought.

A. Details of the Proposed Project are as under:

1. The Proposal is for grant of EC for Construction of Additional Court at New Plot at Plot FC-17, in front of Existing Karkardooma Court Complex, Karkardooma, East Delhi, Delhi by M/s Public Works Department (PWD), New Delhi and details have been updated as per ADS reply submitted.
2. The Project is located at **Latitude:**28°39'15.46"N; **Longitude:** 77°17'38.68"E
3. **Area Details:**
   The Total Plot Area of the project is 4952.420 sqm. The Proposed Total Built-up Area (FAR + Non-FAR) is 29,450.646 sqm. The Proposed FAR Area is 13,953.223 sqm and Proposed Total Non-FAR Area is 15,497.424 sqm. The Proposed Ground Coverage is 2,476.21 sqm. The total no. of Basements will be 2 nos. The total nos. of floors will be 2B+G/SF+8. The total no of expected population is 4316 persons. The Max. Height of the building (upto the terrace level) is 39.15 m.
4. **Water Details:**
   During Construction Phase, total water requirement for labours will be 7.5 KLD, out of which ~~fresh water~~ will be 4.75 KLD and treated water will be 2.75 KLD. Sewage generation from the project will be 6 KLD which will be treated in mobile STP. Fresh water requirement for Anti-smog guns will be 4.8 KLD and treated waste water for construction purposes will be 6 KLD. Mobile toilets will be provided for labours at site.
   During Operational Phase, Total water requirement will be 190 KLD which will be met by 54 KLD of Fresh water from DJB and 91 KLD of treated waste water from in house STP and additional 45 KLD of treated waste water from nearby DJB STP. Total waste water generated from the project will be 101 KLD which will be treated in-house STP of

125 KLD capacity. Treated waste water from in house STP will be 91 KLD and treated water to be taken from DJB STP will be 45 KLD which will be recycled and reused for flushing (58 KLD), gardening (3 KLD), HVAC (75 KLD).

2 number of Rain Water Harvesting (RWH) Pits are proposed.

5. **Solid Waste Details**

   During Construction Phase, about 36.00 kg/day of municipal solid waste will be generated which will be disposed to MCD designated site through authorized vendor.

   During the Operation Phase, Total 1000 kg/day of Solid Waste will be generated from the project. Out of which, Bio-Degradable Waste generated will be 380 kg/day and Non-Biodegradable Waste generated will be 620 kg/day which will be disposed through govt. approved agency/recyclers.

6. **Power Details**

   During Operation Phase, Total Power requirement will be 1316 kW which will be supplied by BSES Rajdhani. For Power Back up, 1 x 1010, 1 x 1500 kVA GG Sets will be installed.

   Solar photovoltaic power panels of 131 kWP capacity will be installed.

7. **Parking Facility Details:** Total Proposed Parking is 255 ECS (Stilt: 50 ECS, Basements: 205 ECS), out of which parking for 76 ECS will be provided with EV charging facility.
8. **Eco-Sensitive Areas Details:** Distance of Okhla Wildlife Sanctuary from project site is 11.6 Km SE and from Asola Wildlife Sanctuary is 18.90 Km SSW.
9. **Plantation Details:** The proposed Green Area is 1,574.06 sqm (31.78 % of plot area) of which open green area is 932.00 sqm and hardscape area is 642.06 sqm. At present there are 25 numbers of trees present at site.
10. **Cost Details:** Total Cost of the project is Rs.173.94 Crores.

The earlier Proposal No. SIA/DL/MIS/67418/2021 for the above said project was filed by the Project Proponent i.e. M/s Public Works Department, New Delhi and was considered by SEAC in its 99th Meeting held on 22.02.2022 in which SEAC deferred the case for resubmission of Form 1& Form-1A for want of information required for designed parameters /STP details/ Rainwater Harvesting/ Green area/ Traffic management. Accordingly, ADS was raised to the Project Proponent which Project Proponent did not reply and as a result the Proposal got delisted from the Parivesh Portal.

PP again applied for EC vide Proposal no. SIA/DL/INFRA2/403615/2022 for the above said project and subsequently, the project proponent submitted a letter dated 07.11.2022 requesting to withdraw the case in view of the demise of the environment consultant engaged by them. Accordingly, SEAC in its 118th meeting held on 18.11.2022 recommended to delist the case in view of the request made by the Project Proponent which was approved by SEIAA in meeting dated 23.12.2022. Now, Project proponent has applied again for EC for the same project vide Proposal No. SIA/DL/INFRA2/409692/2022.

In lieu of water supply assurance of fresh water and treated water during operation phase, the PP has submitted letters dated 30.09.2022 and 05.09.2022 respectively.

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 18.04.2024 which is as follows:

S.No.	Information sought by SEAC during SEAC Meeting dated 01.02.2023	Reply submitted on 18.04.2024
1.	Tree site report which should include site map with location of existing trees, a physical tree count of all trees on site along with trees girths with local and scientific names of trees with geo-tagging of all trees.	PP has attached revised tree survey report as annexure. PP has informed that there are 25 nos. of trees present in the plot area.
2.	Revised water assurances for treated water during operation phase and 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 treatment mechanism proposed for making this water fit for use in construction	PP has informed that fresh water and treated water will be sourced from DJB during operation phase and construction phase. However, PP has only attached treated waste water asurance and fresh water assurance as annexure. PP has informed that suitable filter mechanism will be installed to make the treated water fit during construction and operation phase.
3.	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 sensors for monitoring PM 2.5, PM 10.	PP has attached Revised EMP as annexure.
4.	Revised water mass balance taking into account the water required for Anti-Smog Guns to be deployed during construction phase.	PP has attached water requirement during construction phase as annexure. Details of water requirement during construction phase is as follows: **S.No** | **Particulars** | **Quant**

		<table><tr><td></td><td></td><td>ity</td></tr><tr><td>1.</td><td>**Total Water Requirement for labours**</td><td>7.5 KLD</td></tr><tr><td>2.</td><td>**Fresh Water Requirement for labours**</td><td>4.75 KLD</td></tr><tr><td>3.</td><td>**Treated Water Requirement for labours**</td><td>2.75 KLD</td></tr><tr><td>4.</td><td>**Waste Water Generated**</td><td>6 KLD</td></tr><tr><td>5.</td><td>**Fresh Water for Anti Smog Gun**</td><td>4.8 KLD</td></tr><tr><td>6.</td><td>**Treated water for sprinkling for dust suppression at construction site**</td><td>2 KLD</td></tr><tr><td>7.</td><td>**Treated waste water for Construction Purpose**</td><td>4 KLD</td></tr></table>
5.	Dewatering aspect to be further elaborated taking into account the depth of basement/ foundation.	PP has informed that ground water table is 7.9 m to 11 m at site and depth of foundation is more than 11.5 m so dewatering will be done at site. PP has informed that dewatrering will be done after getting prior permission.
6.	Revised latest geotechnical investigation report is required to be submitted.	PP has attached revised geotechnical investigation report as annexure.
7.	Proposal to provide minimum 30% of total parking arrangement with electric charging facility.	PP has informed that 30 % of the total parking will be provided for electric vehicles charging facility. Details of parking is as follows: <table><tr><td>**Total Car parking**</td><td>255 ECS</td></tr><tr><td>**Total EV parking provided**</td><td>76 ECS</td></tr></table>
8.	Proposal for solar energy utilization to achieve atleast 10 % of power load	PP has informed that solar power of 131 kWP (10 % of the total power load) will be

<table>
<tr><td></td><td>requirement with due demarcation of nos. of Solar PV.</td><td>provided.
PP has attached layout plan of solar PVs as annexure.</td></tr>
<tr><td>9.</td><td>Traffic Impact Assessment study considering the latest traffic scenario. Further PP is required to submit mitigation measures to handle critical entry and exit scenarios inside and outside the site minimizing the impact on the city roads.</td><td>PP has attached details related to traffic assessment as annexure.</td></tr>
<tr><td>10.</td><td>PP is required to submit the revised Capital and Recurring cost of EMP with inclusion of cost of environmental monitoring during construction & operation phase.</td><td>PP has attached revised EMP with inclusion of cost environmental monitoring during construction and operation phase which is as follows:
<table><tr><th>Phase</th><th>Capital Cost</th><th>Recurring Cost</th></tr><tr><td>Construction Phase</td><td>23.26 Lakhs</td><td>12.49 Lakhs</td></tr><tr><td>Operation Phase</td><td>60.10 Lakhs</td><td>21.19 Lakhs</td></tr></table></td></tr>
<tr><td>11.</td><td>Quantification of excavated earth and its management plan.</td><td>PP has informed that approx. 49500 cum soil will be excavated and will be used for site leveling and backfiling. Excess soil will be disposed through authorized contractor within 5 km of the project site.</td></tr>
<tr><td>12.</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 measures to reduce heat island effect & inversion effect as annexure.</td></tr>
<tr><td>13.</td><td>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.</td><td>PP has attached water balance chart in STP and water requirement during operation phase which is as follows:
<table><tr><th>S.No</th><th>Particulars</th><th>Quantity</th></tr><tr><td>1.</td><td>Total Water Requirement</td><td>190 KLD</td></tr><tr><td>2.</td><td>Fresh Water Requirement (Source: DJB)</td><td>54 KLD</td></tr><tr><td>3.</td><td>Treated Water</td><td>136 KLD</td></tr></table></td></tr>
</table>

		<table><tr><td></td><td>**Requirement**</td><td></td></tr><tr><td></td><td>Flushing</td><td>58 KLD</td></tr><tr><td></td><td>Gardening</td><td>3 KLD</td></tr><tr><td></td><td>HVAC</td><td>75 KLD</td></tr><tr><td>4.</td><td>**Treated Water generation**</td><td>91 KLD</td></tr><tr><td>5.</td><td>**Waste Water Generated**</td><td>101 KLD</td></tr><tr><td>6.</td><td>**STP Capacity**</td><td>125 KLD</td></tr><tr><td>7.</td><td>**Additional Treated Water to be required**</td><td>45 KLD</td></tr></table>
14.	Specify name and numbers of the post to be engaged by the proponent for implementation and monitoring of environmental parameters.	PP has informed that Sh. Deepak Hatila, Assistant Engineer, PWD will be engaged for implementation and monitoring of environmental parameters.
15.	Pedestrian skywalk needs to be provided connecting to Metro at concourse/ platform level of the nearest Metro station.	PP has attached details related to pedestrian skywalk as annexuree.
16.	Energy simulation to be done to demonstrate compliance of Lighting levels as per ECBC standards and that Natural Ventilation is being enabled in all habitable areas.	PP has informed that ECBC norms will be followed and all the habitable areas will be well lit with natural lightning.
17.	Air-conditioning load reduction strategies to be clearly enumerated and quantified and provided as a Step diagram.	PP has attached air conditioning load reduction strategies as annexure.

B. After due deliberations, the SEAC in its 142nd meeting held on 10.06.2024 has recommended the following:

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

1. Assurance letter from concerned authority for supply of treated water during construction phase.
2. Structural safety certificate from structural engineer stating that structure is safe having considered uplift pressure from dewatering. Dewatering plan be submitted with

Agenda No: 03
Case No. 442

Name of the Project	EC for Construction of District Court at Sector-26 Rohini, New Delhi by M/s Public Works Department.
Project Proponent	Executive Engineer, Public Works Department, GNCTD at Office of Executive Engineer, Other Project Division-1, PWD, Rouse Avenue Court Complex, DDU Marg, New Delhi
Consultant	Ind Tech House Consult
EIA Coordinator present during Meeting	Mr. Soumya Dwivedi Mr. Indra Sharma
Representatives of PP present during Meeting	Mr. Rajesh Kumar (EE) Mr. Anuj Prabhakar (Architect)
Proposal No.	SIA/DL/INFRA2/408499/2022
File No.	DPCC/SEIAA-IV/C-442/DL/2023
Case Type	Case was considered in 98th and 124th SEAC Meeting held on 02.02.2024, 24.02.2023. ADS was sought.

A. Details of the Proposed Project are as under:

1. The Proposal is for grant of EC for Construction of District Court at Sector-26 Rohini, New Delhi by M/s Public Works Department (PWD), New Delhi and details have been updated as per ADS reply submitted.
2. The Project is located at Latitude: 28°4434.54" N; Longitude: 77°05'09.34"E
3. **Area Details :**
   The Total Plot Area of the project is 17,415 sqm. The Proposed Total Built-up Area (FAR + Non-FAR) is 1,09,208.7 sqm. The Proposed FAR Area is 51596.08 sqm and Proposed Total Non-FAR Area is 57612.6 sqm. The Proposed Ground Coverage is 5855.19sqm. The total no. of Basements will be 1 nos. The total nos. of floors will be B+G+12. The total no. of expected population is 11225 persons including floating population. The Max. Height of the building (upto the terrace level) is 59.7 m.
4. **Water Details:**
   During Construction Phase: total water requirement will be 10.4 KLD, out of which fresh water will be 6.60 KLD and treated water will be 3.80 KLD. Sewage generation from the project will be 9.08 KLD . Fresh water requirement for Anti-smog guns will be 4.8 KLD and treated waste water for construction purposes will be 6 KLD.
   During Operational Phase: Total Water requirement of the project will be 670 KLD which will be met by 170 KLD of Fresh water from DJB and 272 KLD of Treated waste

water from in house STP and additional 228 KLD of treated waste water from nearby DJB STP. Total waste water generated from the project will be 302 KLD which will be treated inhouse STP of 400 KLD capacity. Treated waste water from in house STP will be 272 KLD and treated waste water to be taken from DJB STP will be 228 KLD which will be recycled and reused for flushing (166 KLD), gardening (14 KLD), HVAC (320 KLD).

5 number of Rain Water Harvesting (RWH) Pits are proposed.

5. **Solid Waste Details** :

   During Construction Phase, about 48.00 kg/day of municipal solid waste which will be disposed through authorized vendor.

   During the Operation Phase, Total 2470 kg/day of solid waste will be generated from the project consisting of biodegradable waste 990 kg/day and Non-Biodegradable Waste of 1480 kg/day. About 27.6 kg/day of sewage sludge will be generated which will be used as manure .

6. **Power Details:**

   During Operation Phase: Total Power requirement will be 5632 kW which will be supplied by TPDDL. For Power Back up, 3 x 2000, 1 × 800 kVA GG Sets will be installed.

   Solar photovoltaic power panels of 385 kWP capacity i.e. 7 % of total power demand will be installed.

7. **Parking Facility Details:** Total Proposed Parking is 1187 ECS (Surface: 4 ECS, Basements: 700 ECS, MLCP: 483 ECS), out of which parking for 360 ECS will be provided with EV cahrging facility.
8. **Eco-Sensitive Areas Details:** Distance of Okla Wildlife Sanctuary from project site is 30.28 Km SE and from Asola Wildlife Sanctuarv is 31.25 Km SE.
9. **Plantation Details:** The proposed Green Area is 5089.44 sqm (29.22 % of plot area. Total no. of trees proposed is 220 nos.
10. **Cost Details:** Total Cost of the project is Rs. 568.56 Crores.

The earlier Proposal No. SIA/DL/MIS/244263/2021 for the above said project was filed by the Project Proponent i.e. M/s Public Works Department, New Delhi and was considered by SEAC in its 98th Meeting (IInd Seating) held on 02.02.2022 in which SEAC sought additional information from PP based on the information furnished, documents shown & submitted, presentation made by PP. Accordingly, ADS was raised to the Project Proponent which Project Proponent did not reply and as a result the Proposal got delisted from the Parivesh Portal.

With reference to the water supply assurances the PP has submitted a letter dated 16.01.2023 issued by DJB showing the non-availability of fresh water supply to the project and the issue of treated water supply from DJB STP has not been addressed.

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 along with point wise reply of the

ADS raised in view of 98th Meeting (IInd Sitting) of SEAC held on 02.02.2022. In its response, Project proponent has submitted its reply on 22.04.2024 which is as follows:

<table>
<tr><th>S.No.</th><th>Information sought by SEAC during SEAC Meeting dated 24.02.2023</th><th>Reply submitted on 22.04.2024</th></tr>
<tr><td>1.</td><td>Point wise reply of the ADS raised in view of 98th Meeting (IInd Sitting) of SEAC held on 02.02.2022</td><td>No reply submitted.</td></tr>
<tr><td>2.</td><td>Tree site report including physical tree count of all trees invasive or non-invasive alongwith tree girths with local and scientific names of trees.</td><td>PP has attached tree survey report as annexure.
PP has informed that there are no trees inside the plot boundary. However, bushes namely Kikar are present there.</td></tr>
<tr><td>3.</td><td>Revised Capital and Recurring cost of EMP with inclusion of cost of environmental monitoring. PP should ensure that presentation should not be in deviation of the details mentioned in proposal.</td><td>PP has attached revised EMP with inclusion of cost environmental monitoring during construction and operation phase which is as follows:
<table><tr><th>Phase</th><th>Capital Cost</th><th>Recurring Cost</th></tr><tr><td>Construction Phase</td><td>42.4 Lakhs</td><td>20.598 Lakhs</td></tr><tr><td>Operation Phase</td><td>435.03 Lakhs</td><td>53.16 Lakhs</td></tr></table></td></tr>
<tr><td>4.</td><td>Revised calculation for solid waste generation figures accounting for the sludge generated from STP and its disposal methodology.</td><td>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>Bio-degradable Waste</td><td>990 kg/day</td></tr><tr><td>Non-Biodegradable Waste</td><td>1480 kg/day</td></tr><tr><td>Total Solid Waste generation</td><td>~2470 kg/day</td></tr><tr><td>STP Sludge</td><td>27.6 kg/day</td></tr></table></td></tr>
<tr><td>5.</td><td>Proposal for solar energy utilization to achieve atleast 10 % of power load requirement.</td><td>PP has informed that they have explored all the possibilities to achieve 10 % of power load from solar energy. However, they will be able to provide maximum 385 kWP i.e. 7 % of total power demand from solar energy.

PP has attached layout plan for SPV as annexure.</td></tr>
</table>

<table>
<tr><td></td><td></td><td></td></tr>
<tr><td>6.</td><td>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</td><td>PP has informed that 30 % of the total parking will be provided for electric vehicles charging facility. Details of parking is as follows:
<table><tr><td>Total Car parking</td><td>1187 ECS</td></tr><tr><td>Basement</td><td>700 ECS</td></tr><tr><td>MLCP</td><td>483 ECS</td></tr><tr><td>Surface car parking</td><td>4 ECS</td></tr><tr><td>Total EV parking provided (30 % of total parking)</td><td>360 ECS</td></tr></table></td></tr>
<tr><td>7.</td><td>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.</td><td>PP has attached water requirement calculation along with water mass balance as annexure.

PP has attached revised water balance chart in STP and water requirement during operation phase which is as follows:
<table><tr><th>S.No</th><th>Particulars</th><th>Quantity</th></tr><tr><td>1.</td><td>Total Water Requirement</td><td>670 KLD</td></tr><tr><td>2.</td><td>Fresh Water Requirement (Source: DJB)</td><td>170 KLD</td></tr><tr><td>3.</td><td>Treated Water Requirement</td><td>500 KLD</td></tr><tr><td></td><td>Flushing</td><td>166 KLD</td></tr><tr><td></td><td>Gardening</td><td>14 KLD</td></tr><tr><td></td><td>HVAC</td><td>320 KLD</td></tr><tr><td>4.</td><td>Treated Water generation</td><td>272 KLD</td></tr><tr><td>5.</td><td>Waste Water Generated</td><td>302 KLD</td></tr><tr><td>6.</td><td>STP Capacity</td><td>400 KLD</td></tr><tr><td>7.</td><td>Additional Treated Water to be</td><td>228 KLD</td></tr></table></td></tr>
</table>

		required
8.	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 provide toxic gas (Combustible gas, Carbon dioxide and Hydrogen sulphide, Methane, VOCs, Ammonia) detectors for STP area.
9.	Pollution load and abatement plan during construction and operation phase for point and non-point sources with detailed calculation	PP has attached pollution load and abatement plan as annexure.
10.	Air pollution abatement plan for the air pollutants like PM2.5 , PM10, SOx , NOx etc. from parking and traffic due to project.	PP has attached air pollution abatement plan as annexure.
11.	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 EMP (Environment Management Plan) as annexure.
12.	Water requirement for Anti-Smog Gun needs to be accounted for in fresh water requirement during construction phase.	PP has attached water requirement during construction phase as annexure. Details of water requirement during construction phase is as follows: **S.No** / **Particulars** / **Quantity** 1. **Total Water Requirement for labours** — 10.40 KLD 2. **Fresh Water Requirement for labours** — 6.60 KLD 3. **Treated Water Requirement for labours** — 3.80 KLD 4. **Waste Water Generated** — 9.08 KLD

		5.	**Fresh Water for Anti Smog Gun**	10 KLD
		6.	**Treated water for sprinkling for dust suppression at construction site**	2 KLD
		7.	**Treated waste water for Construction Purpose**	4 KLD
13.	Provide season wise simulation of Heat Island effect.	PP has attached mitigation measures for heat island effect as annexure.		

B. After due deliberations, the SEAC in its 142nd meeting held on 10.06.2024 has recommended the following:

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

1. Assurance from concerned authority for supply of treated water during construction phase.
2. Tree site report including physical tree count of all trees invasive or non-invasive alongwith tree girths with local and scientific names of trees.
3. Structural safety certificate from structural engineer stating that structure is safe having considered uplift pressure from dewatering.
4. Specify name and numbers of the post to be engaged by the proponent for implementation and monitoring of environmental parameters. Environmntal Mangment Cell compostion be submiited and cost be included in EMP for functioning of this cell.
5. Heat island effect report shall be supported by proper calculation so that plan given by the PP is factual annd auditable.
6. PP to submit dewatering mechanism of ground water alongwith its proper disposal plan and shall identify location for its disposal.
7. Agreement for disposal of excavated earth with vendor and disposal thereof.
8. PP to submit revised EMP cost after taking into account the cost involved in terms of dust mitigation measures including dust portal compliance, solid waste management, plastic waste management, Environment management cell.
9. Proposal for installation of organic waste composter clearing stating the capacity and quantity of waste to be processed in it. Disposal of excess compost to nearby areas.
10. Rain water harvesting needs to be revised taking into account the recent flash rain data and actual percolation rate of the soil at site. Calculate runoff from (a) roof top, (b) other

paved areas; and (c) green areas separately. Review peak rainfall runoff threshold used in the calculation -- given the experience of last 5 years with extreme rainfall events and likely increase in frequency with climate change in the next 50 years and create adaptive strategy accordingly.

11. Prepare management strategy for each of these (a) roof top, (b) other paved areas, and (c) green areas

    a. Design natural storm water retention capacity in the green areas by marginal lowering, and gradient management, which can enhance natural percolation, and indicate the same in m3,
    b. Design separate storm water retention and recharge or reuse capacity for rooftop runoff and paved areas.

Meeting ended with the vote of thanks to the Chair

(Vijay Garg)
Chairman

(Dr. Anwar Ali Khan)
Member secretary

(Ashish Gupta)
Member

(Chetan Agarwal)
Member

(Dr. Sirajuddin Ahmed)
Member

(Dr. Sumit Kumar Gautam)
Member