



Outline

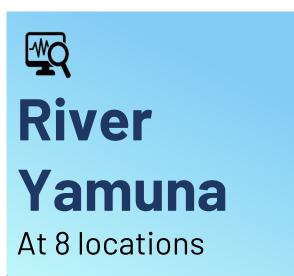
- 1. Water Quality Monitoring by DPCC
- 2. Water Quality of Drains
- 3. Water Quality of Sewage Treatment Plants
- 4. Water Quality of Common Effluent Treatment Plants
- 5. Improvement of Water Quality in Yamuna
- 6. Action Plan for Rejuvenation of River Yamuna



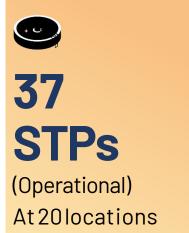


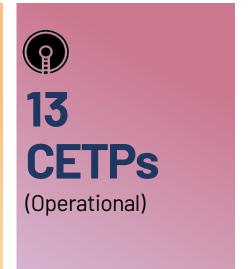
1 Water Quality Monitoring by DPCC Compliances with prescribed standards











1.1 Water Quality of River Yamuna Parameters as per Hon'ble National Green Tribunal

As per the directions of Hon'ble NGT, the three parameters to be considered for determining the water quality of River Yamuna are Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD), and Faecal Coliform (FC).



Dissolved Oxygen

DO is the amount of oxygen available in dissolved form. Fishes can survive at or above DO of 4mg/l

Standards (≥ 5 mg/l): More D0 is good



Biochemical Oxygen Demand

BOD is amount of DO required by aerobic microorganisms to decompose organic material present in a water body.

Standards (≤ 3 mg/l): Less BOD is good

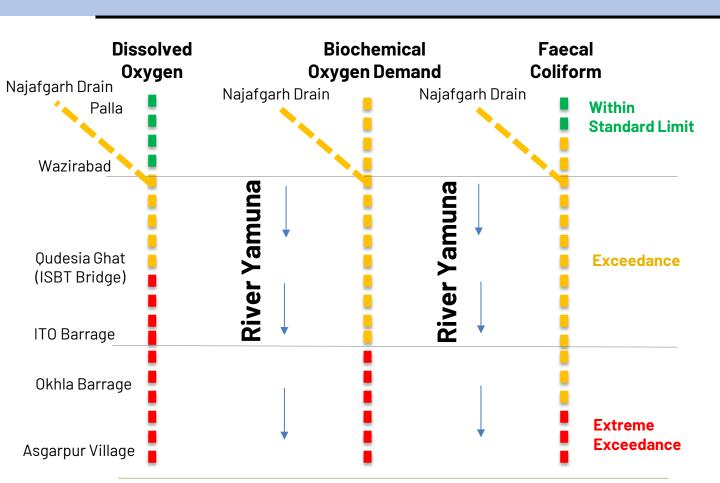


Faecal Coliform

Faecal Coliforms are a group of bacteria present in faeces of humans / homeotherms indicating discharge of untreated sewage in a water body.

Standards: (≤ 500 MPN/100 ml - Desirable | ≤ 2500 MPN/100 ml - Maximum permissible): Less Faecal Coliform is good

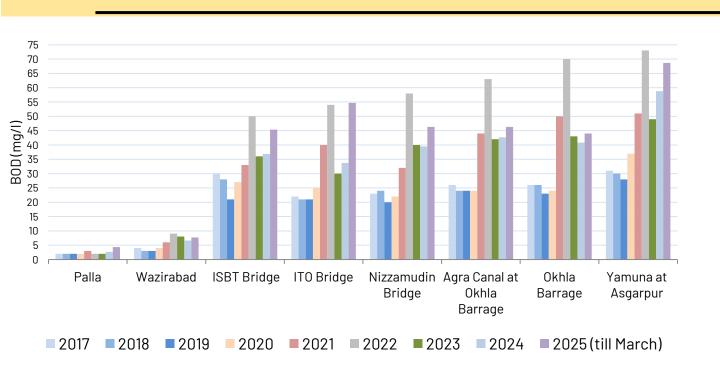
Parameters as per Hon'ble National Green Tribunal Water Quality of River Yamuna





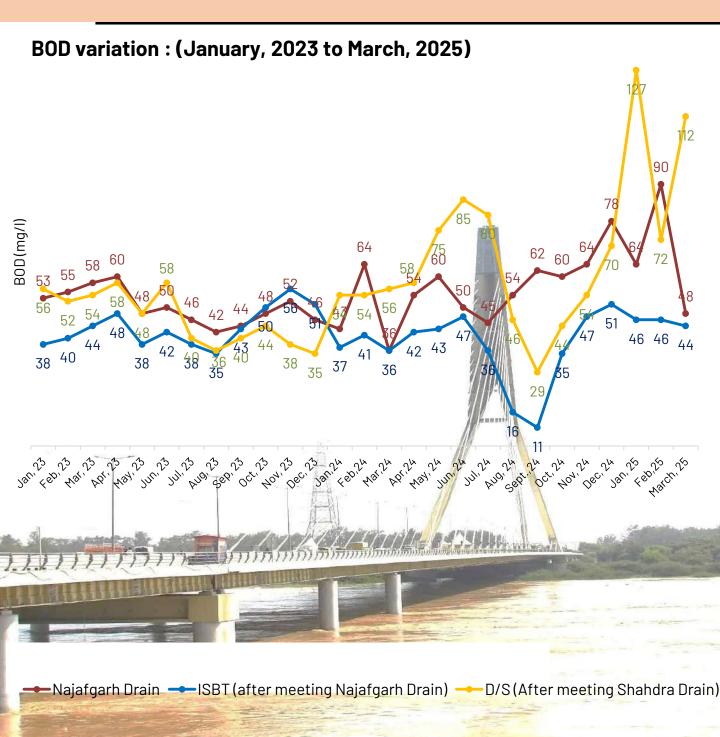
1.3

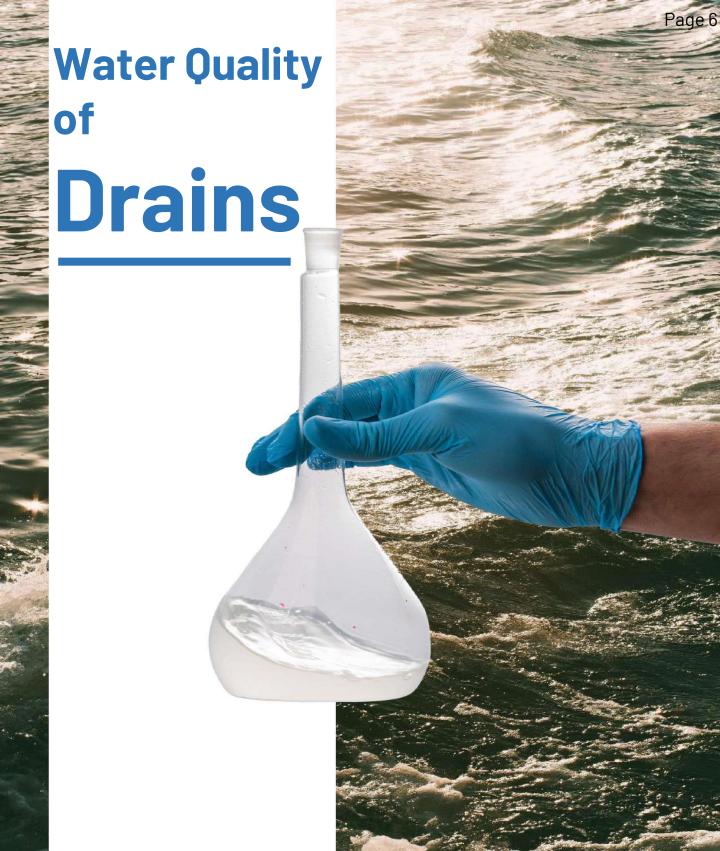
Water Quality of River Yamuna Annual Average



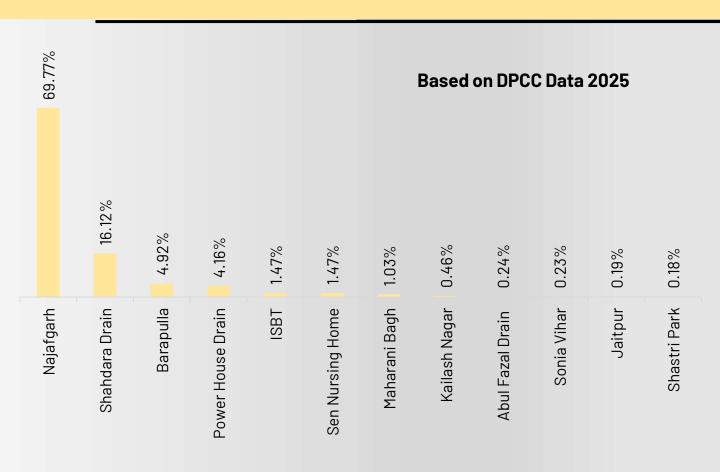


1.4 Monthly Average Water Quality of River Yamuna





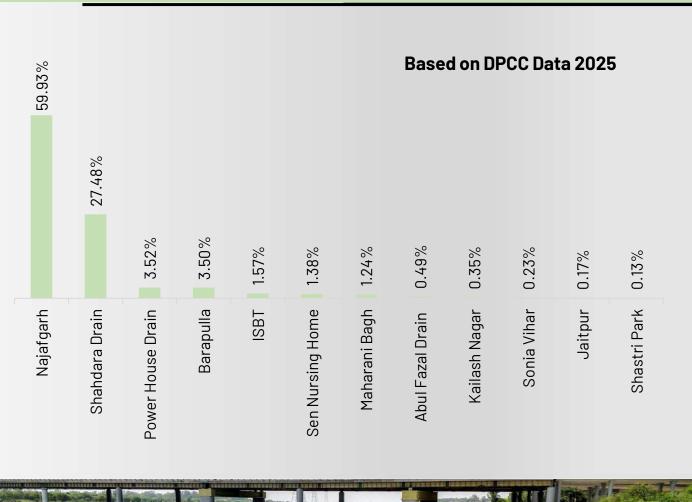
Discharge of wastewater from major drains Into River Yamuna at Delhi





2.1

Discharge of BOD load from Major Drains Into River Yamuna at Delhi

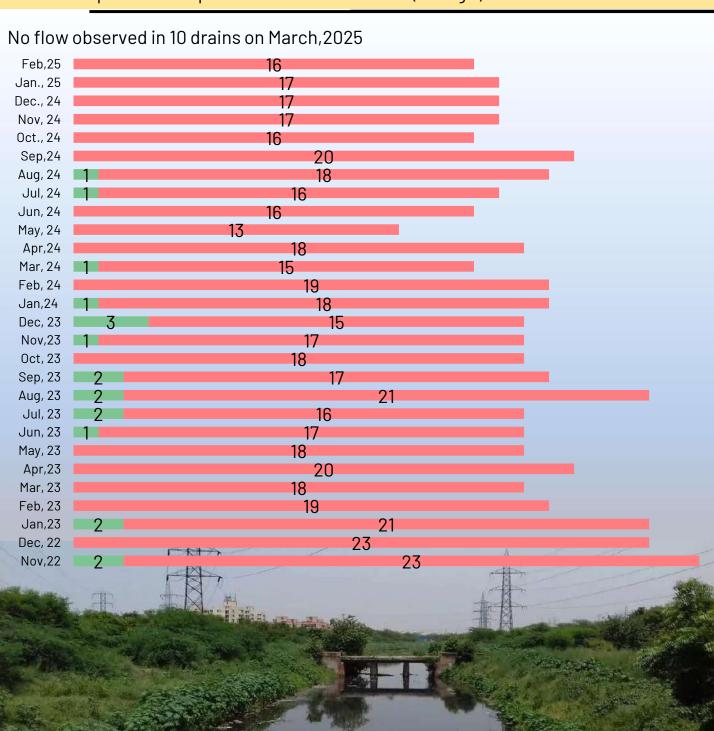




2.2 27 Drains Water Ou

Water Quality Monitoring

Compliance with prescribed standards BOD (30 mg/l)



Water Quality of Sewage Treatment Plants



03

Nov, 23 Oct, 23

Sep, 23 Aug, 23

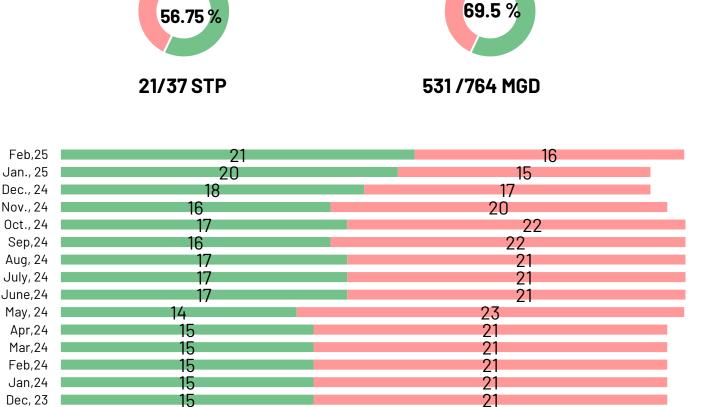
July,23 Jun, 23

May, 23

Apr, 23 Mar, 23

37 Sewage Treatment Plants Water Quality Monitoring

Compliance with prescribed standards BOD:TSS (10:10)



22

22 23

21 22

22

22 22

23

No. of STPs

Water Quality of Common Effluent Treatment Plants



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13 Common Effluent Treatment Plants Water Quality Monitoring

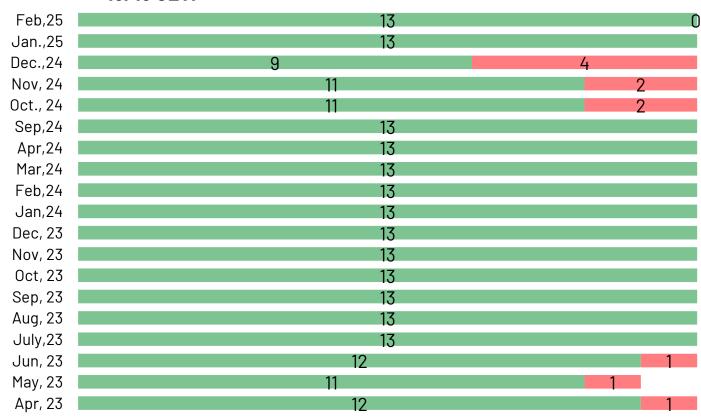
CETP: Treatment systems specifically designed for collective treatment of effluent generated from small-scale industrial facilities in an industrial cluster.



Utilization Capacity (Feb, 2025):

65.161 MLD /212.3 MLD (30.7%)

13/13 CETP



No. of CETPs

Improvement of Water Quality in Yamuna



05

Minimum

Environmental Flow (e-flow)

E- Flow: Minimum quantity of flow of water that a river must have in order to preserve its ecosystems.



Average Monthly Release from Hathnikund Barrage



Minimum e-flow for dilution of polluted water in river Yamuna in Delhi is required to meet desired water quality levels in river Yamuna for bathing purpose i.e. $BOD \le 3 \text{ mg/l} \& DO \ge 5 \text{ mg/l}$.

To assess minimum required e-flow of river Yamuna for stretch between Hathini Kund to Okhla, a comprehensive study was assigned by NMCG to National Institute of Hydrology (NIH), Roorkee on 24.12.2018.

Minimum 5.1 **Environmental Flow (E-flow)**

- As per Final Draft Report submitted by NIH to NMCG. E-flow of 23 Cumecs (437 MGD) in lean season (May) has been recommended in NIH study. **Hathnikund Barrage**
 - Points: Hathnikund to Okhla Barrage
 - Present E flow: Approx. 10 Cumecs (190 MGD)
 - Gap: Approx. 13 Cumecs (247 MGD)



- **Possibilities**: Early construction and completion of below mentioned dams/Canals.
 - Renuka Dam project (Gol) Approx. 13 Cumecs (Expected drinking water share of Delhi)
 - Lakhawar Dam project (Gol)
 - Kishau Dam project (Gol)
- Water sharing agreement of 1994 among riparian states of Uttarakhand, HP, UP, Haryana, Rajasthan and NCT Delhi is due for revision only in 2025.
- Under E-flow of 23 Cumecs, BOD would come from 25 to 12 mg/l (Ideal BOD : 3 mg/l)
- Bathing standards of BOD 3 mg/l E-flow required is more than 390 Cumecs (7410 MGD).



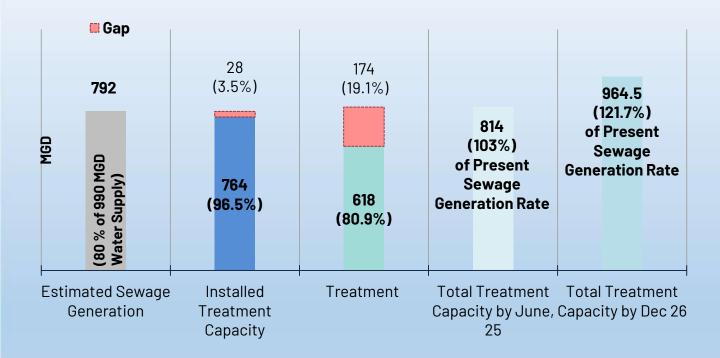
Action Plan for Rejuvenation of River Yamuna



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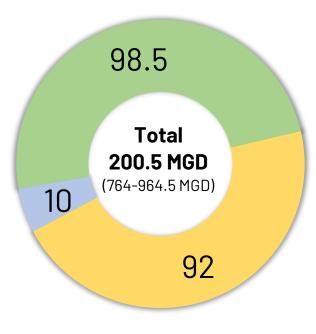
Augmentation & Rehabilitation of Sewage Treatment Plants

Generation, Treatment and Gap in Sewage Treatment





6.1 Augmentation & Rehabilitation of Sewage Treatment Plants



- Upgradation and increasing capacity of existing STPs (11)
- Construction of 40 New DSTPs
- Construction of New STPs at Delhi Gate



Progress in Construction of 3 new STPs Capacity Addition: 47 MGD

Focus Areas for Enhancing Sewage Treatment Capacity

Completed & commissioning

Commissioned & under stabilization

Completed & commissioning

Completed & commissioning

DDA/ MoHUA has allotted the land however yet to be handed over to DJB).

Okhla Sonia Vihar (7 MGD)

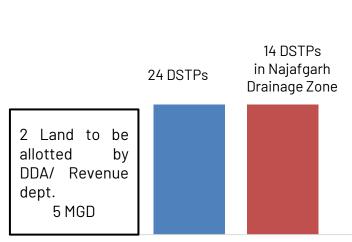
Delhi Gate (10 MGD)



6.3 Construction of 40 New DSTPs

Focus Areas for Enhancing Sewage Treatment Capacity

Timeline: December, 2026



Construction of 40 New DSTPs

(Capacity Addition: 92 MGD)





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Construction of 40 New DSTPs Capacity Addition: 92 MGD

Sr. No.	Name of STP	Capacity (MGD)	Status as on 04.04.2025
1.	Mitraon	10.89	
2. 3	Ghewra	0.44	
3	Kair	1.1	
4	Kakrola	2.64	
5	Khanganheri	0.77	
6	Dichaon Kalan	1.98	
7	Punjab Khor	0.22	
8	Jat Khor	0.22	Tenders re-
9	Qutubgarh	0.66	invited on
10	Auchandi	0.88	EPC Model
11	Mohammadpur	2.86	after
	Majri & Karala		receiving of
12	Kanjhawala &	1.1	AA&ES
12	Ladpur		from UD
13	Nizampur and	1.32	Department
10	Sawda		, GNCTD
14	Garhi Rindhala	0.22	
15	Jaunti	0.44	
16	Khera Khurd	0.6	
17.	Zindpur	15	
18.	Sarangpur Village	1.32	
19.	Galibpur Village 0.55		
20	Kazipur Village	0.55	

Tenders re-
invited on
EPC Model
after
receiving of
AA&ES
from UD
Department
, GNCTD

	Timeline: December, 2026						
Sr. No.	Name of STP Capacity (MGD)		Status as on 04.04.2025				
21	Jafarpur Village	1.32					
22	Khera Dabar Village	0.55					
23	Hasanpur Village	1.32					
24	Shikarpur Village	0.66					
25	Chandanhola Satbari	0.44					
26	Tajpur Pahari	10	Tenders re-				
27	Jauna Pur-I		invited on EPC Model after				
28	Jauna Pur-II	3.18	receiving of				
29	Dera Mandi , Bhati	3.10	AA&ES from				
30	Fatehpur Beri & Asola		UD Department,				
31	Salapur Majra	1.38	GNCTD				
32.	Bajitpur Thakran	2.2					
33	Palla (Sungarpur)	1.1					
34	Tajpur	0.66					
35	Rangpuri	5					



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Construction of 40 New DSTPs Capacity Addition: 92 MGD

Sr. No.	Name of STP	Capacity (MGD)	Status as on 04.04.2025
36	Chattarpur Extension	0.38	1525.25 sqm land allotted on 05.03.2024 out of 4 Bigha 4 Biswa. Payment done, Possession of land is yet to be handed over by DDA.
37	Maidan Garhi (Rajpur Khurd)	0.95	Land is yet to be allocated by DDA
38	Nayabans	4.4	
39	Tajpur Khurd	7.92	Land handed over on 21.06.2024. Estimates being prepared. Tenders shall be invited on EPC Model after receiving of AA&ES from UD Department, GNCTD as per guidelines issued from the UD Department, GNCTD.
40	Tikri Kalan	1.32	Land handed over on 01.07.2024. Estimates being prepared. Tenders shall be invited on EPC Model after receiving of AA&ES from UD Department, GNCTD as per guidelines issued from the UD Department, GNCTD.

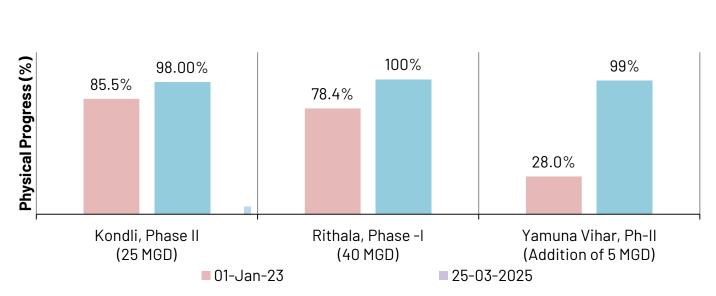


6.4 Rehabilitation of Existing 3 STPs Capacity Addition: 70 MGD

Focus Areas for Enhancing Sewage Treatment Capacity

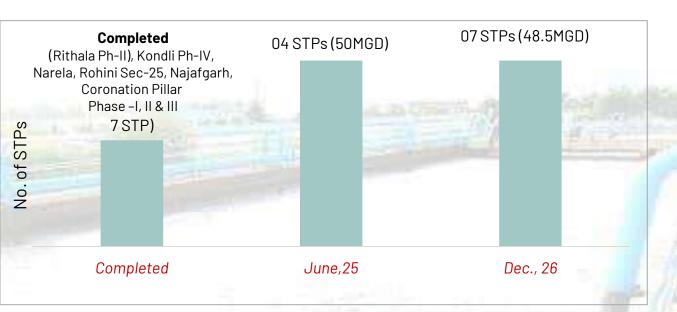
Revised Timeline: Completed (under test and trial run)

"Timeline: Sep, 2023" "Timeline: Jun, 23" "Timeline: Sep, 23" Under test and trial run Under test and trial run (RT: To be informed)





6.5 Upgradation of Existing 18 STPs Capacity Addition: 113.5 MGD



Sr. No.	Name of STP	Existing Capacity	Enhanced Capacity (In MGD)	Status as on 25th Mar, 25	Timelines
1.	Rithala Phase -II	40	40	100%	Completed
2.	Kondli Phase-IV	45	45	98.5%	Completed

6.5 Upgradation of Existing 18 STPs Capacity Addition: 113.5 MGD

Sr. No.	Name of STP	Existing Capacity	Enhanced Capacity (In MGD)	Doth Sent	Status as on 25th Mar, 25	
3	Rohini Sector 25	15	25	25 %	98%	
4	Narela	10	15	25 %	98%	Completed & Under Trial Run
5	Najafgarh	5	5	27%	100%	Onder markum
6	Coronation Pillar Phase -I &	20	20	25 %	98%	
7	Coronation Pillar Phase-III	10	10	25 %	98%	
8	Pappan Kalan Phase - I	20	30	21 %	71 %	June,
9	Nilothi Phase -l	40	60	21%	53%	2025
10	Keshopur Phase -II	20	20	27 %	95%	
11	Keshopur Phase-III	40	60	27 %	93%	
12	Okhla Phase- V	16	16			
13	Mehrauli	5	7.5			
14	Ghitorni	5	7.5	tondorvotto	Proposal under process	
15	Vasant Kunj	5	7.5	tender yet to be invited	under EPC Model	December, 2026
16	Yamuna Vihar Phase – I	10	15			

6.5 Upgradation of Existing 18 STPs Capacity Addition: 113.5 MGD

Sr. No.	Name of STP	Existing Capacity	Enhanced Capacity (In MGD)	Status as on 6th Oct, 23	Status as on 25th Mar, 25	Timelines
17.	Keshopur Phase- I	12	18	File sent to competent authority for approval work at earliest	Tender re- invited	Dec, 2026
18.	Yamuna Vihar Phase – III	25	55	File has been sent to competent authority for administrative approval of Estimate.	Proposal under process under EPC Model	Dec, 2026



6.6 Tapping of Drains 22 Major Drains

drains tapped out of 22 major drains, 02 are partially tapped

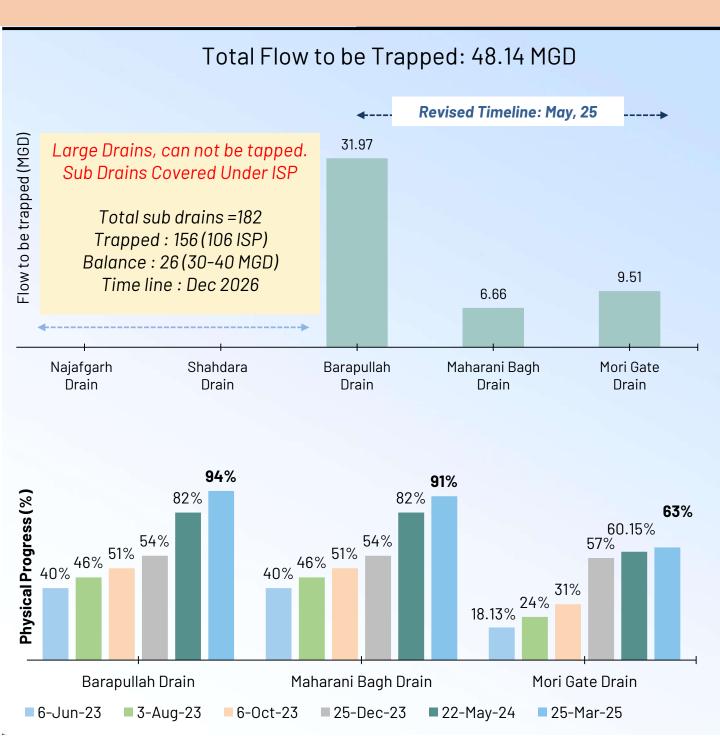
S.N o	Drain	Status	
1	Metcalf House Drain	Tapped	
2	Khyber Pass Drain		
3	Sweeper Colony Drain		
4	Magazine Road Drain		
5	Tonga Stand Drain		
6	Moat Drain (Vijay Ghat)		
7	Drain No. 14		
8	Tehkhand Drain		
9	Civil Mill Drain		
10	Tuglakabad Drain (Kalka Ji Drain merged in this drain)		

S.N o	Drain	Status
11	Sen Nursing Home Drain	Partially Tapped
12	Delhi Gate Drain / Power House Drain	
13	Najafgarh Drain	
14	Barapulla Drain	
15	Maharani Bagh Drain	
16	ISBT Drain (Qudsia Bagh/ Mori Gate Drain)	Work in Progress
17	Sonia Vihar Drain (On Eastern Bank of Yamuna)	
18	Shahdara Drain	

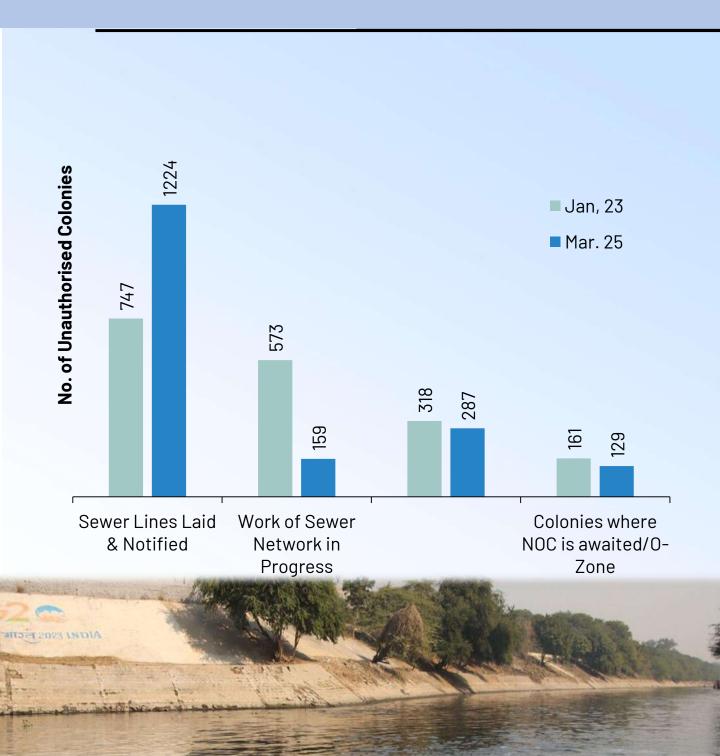
S.No	Drain	Status
19	Kailash Nagar Drain (On Eastern Bank of Yamuna)	
20	Shastri Park Drain (On Eastern Bank of Yamuna)	To be tapped
21	Jaitpur Drain	
22	Abul Fazal Drain	



6.6 Tapping of all Drains Remaining 03 untapped major drains



6.7 Sewerage Network in Unauthorized Colonies (1799)



6.7 Sewerage Network in Unauthorised Colonies (1799)

100%

573 Colonies where laying Sewer Network in progress "Timeline: December, 26" **Achievement** 414 335 241 96 March., 2023 Oct., 2023 Apr., 2024 Mar, 2025 414 Physical Progress of 573 Colonies 48 48 44 10 9

70-89%

90-99%

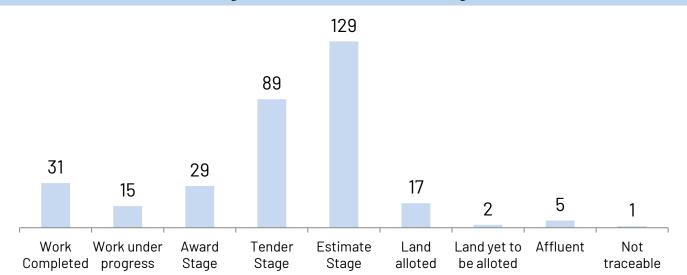
50-69%

25-49%

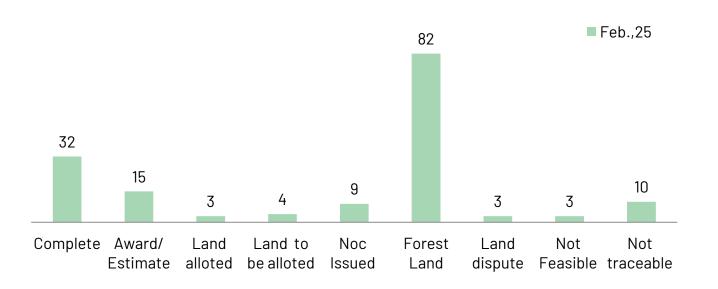
0-24%

6.7 Sewerage Network in Unauthorised Colonies (1799)

318 Colonies where sewerage network is to be laid along with Decentralized STPs

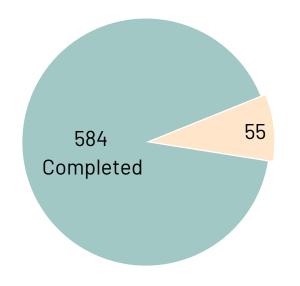


161 colonies where NOC is awaited/O-Zone



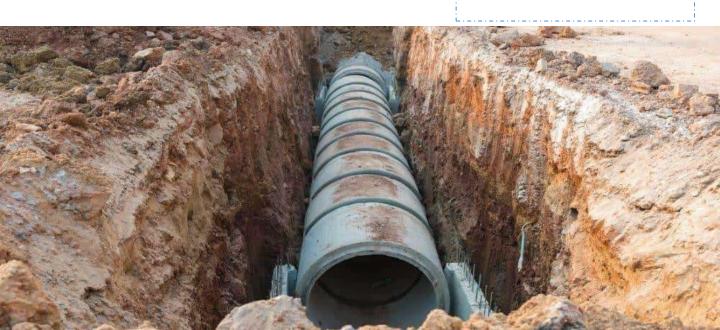
Connection of Drains/ Drainage system of JJ Clusters (639 Nos) with sewerage network

Connection of storm water drain at outfall points/ points of JJCs into nearest DJB sewerage system. Timeline: December, 2026



Total JJCs: 639

Remaining 55 JJCs (Total discharge: 2 MGD)



6.9 Management of Faecal Sludge (Septage)

- Delhi Water Board Septage Management Regulations 2018 dated 12.11.2018 for collection, transportation and disposal of waste of septic tanks (Septage).
- Necessary action to be taken by DJB, District Magistrates & Local Bodies
- DM authorized to ensure enforcement as well as compliance of these regulations.
 License issued by DJB to vendors for Collection, Transportation & Disposal at designated SPSs/STPs
- Septage Management Committees headed by concerned District Magistrates
- Divisional Commissioner taking review meetings with DMs on weekly basis

17.19 Lakhs

Total Amount of Environmental Compensation Imposed & 17.19 Lakhs received

153

Total No. of Meetings of Septage Management Committees held 64

No. of Vehicles/ Tankers found unauthorizedly discharging septage into Drains etc. 63

No. of Vehicles/ Tankers impounded

57

No. of Challans/notices issued

DPCC: Direction issued u/s 33(A) of Water Act on 27.03.2023

- Penalty for deposit of septage by unauthorized (unlicensed) entity: 50,000/-
- Penalty for disposal of Septage at places other than designated places: 50,000/-
- Penalty on person who uses services of unlicensed vendor/vehicles: 10,000/-

Competent Authority: DM, Delhi Police, MCD, IFCD and DJB

6.9 Management of Faecal Sludge (Septage)

Faecal Sludge (Septage) Collection & Treatment



Month wise septage collected/treated (in Cr. Ltrs.)
Cumulative septage collected/treated (in Cr. Ltrs.) (Since 2018)



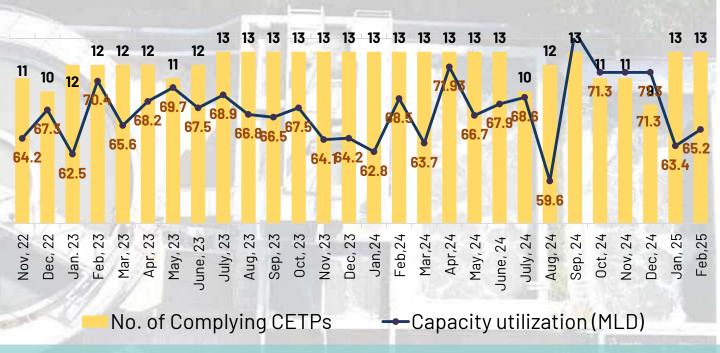
239.4 Crore Litres septage collected/treated till Mar.,25

6.10 Industrial Effluent Management by Common Effluent Treatment Plants (13)

CETPs designed to meet prescribed standards under EP Act (Installed Capacity of all the 13 CETPs: 212.3 MLD.

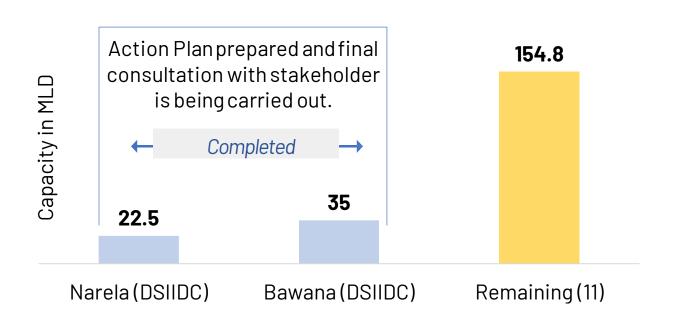
DPCC monitors CETPs on monthly basis.

Total EC Amount of Rupees 19.10 Crores has been imposed by DPCC on the 11 CETP Societies and 2 Operators of CETPs at Narela & Bawana from time to time for violations / not meeting the prescribed standards in the past.



Action taken against Dyeing units in non-conforming areas of Delhi by Joint Team consisting of MCD, DPCC, Revenue Dept., Power Companies, DJB (28.04.2023 to 05.03.2025)

6.11 Upgradation of Common Effluent Treatment Plants (13)



- Narela and Bawana CETPs has been upgraded by DSIIDC.
- Govt. of NCT of Delhi vide notification dated 01.01.2024 has given powers in respect of 11 CETPs presently being operated and maintained by CETPs Societies to DJB

Regulation of Flood plain Delhi Development Authority



Enforcement

1536 acres of land has been reclaimed since 2 years 3 months

80,713 MT of C&D waste lifted & utilized



Protection Measures

369 Security Guards 90 CCTV cameras at 27 location



Demarcation

1: 25 YEAR FREQUENCY - (206 MSL)

Fencing with 591 bollards 375 Flag Posts 27 Sign Boards

1: 100 YEAR FREQUENCY - (208.66 MSL)



Restoration projects

Landscaping
Wetland construction
Public Utilities-pedestrian
Entrance Plaza, Signages

Pathways, Cycling Tracks, Bio-toilets,

Restoration & Rejuvenation of Flood Plains (Status of 10 Projects)



- ✓ Asita East (Part A: 90 Ha)
- ✓ Asita West (Part A: 93 Ha)
- ✓ Asita East (Part B: 107 Ha) Ph-I Completed
- ✓ Kalindi Aviral (Part A: 100 Ha)
- ✓ Asita West (Part A: 107 Ha)
- √ Ghat Area (Part A: 16 Ha)
- √ Yamuna Vanasthali (Ph-I): 236.5 Ha
- ✓ Amrut Bio Diversity Park- (Part A: 90 Ha)



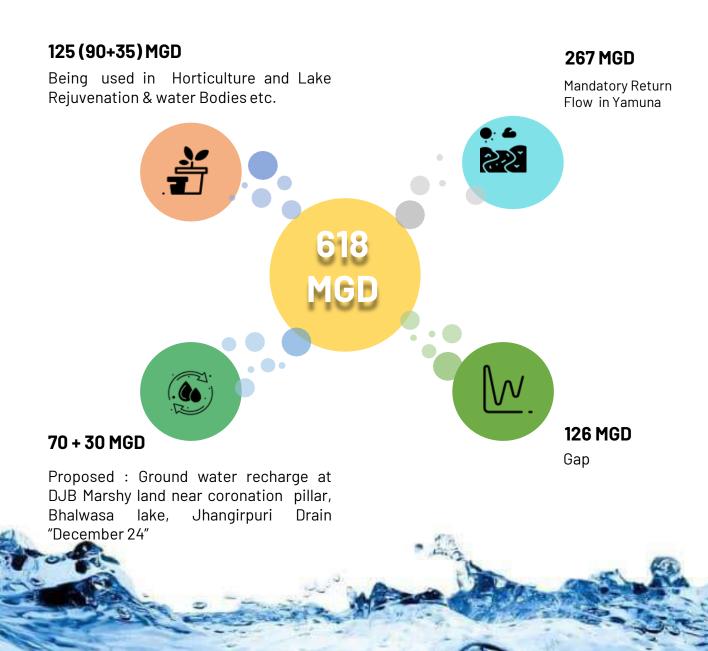
- > Asita East (Part B: 107 Ha) Ph-II in Progress
- Kalindi Aviral Extension 163 Ha
- Kalindi Biodiversity Park: 115 Ha



- Ghat Area (Part B/C/Yamuna Bazar: 50 Ha)
- Amrut Bio Diversity Park-(Part B/C 26.5 Ha)
- Mayur Nature Park (Part A/B): 397.75 Ha
- Hindan Sarovar (Part A/B): 45 Ha
- Eco-Tourism area: (Part A & B: 30Ha)

Utilization of Treated Wastewater

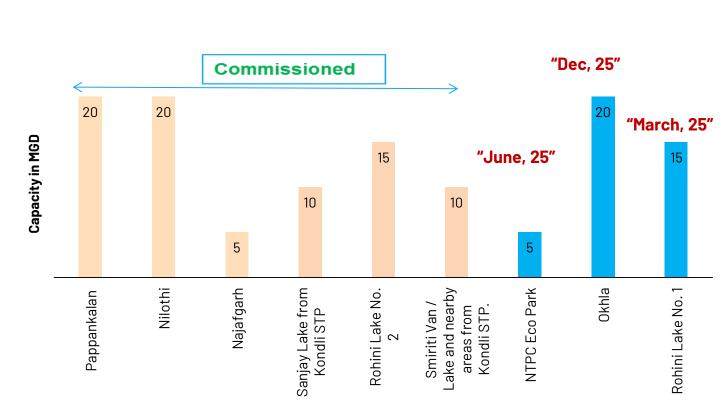
Action Plan by DJB (611 MGD)



6.14 Utilization of Treated Wastewater

Progress of work for Utilization 120 MGD Treated Wastewater





DJB is also exploring the possibility of using treated STP Water in other usages like in Farm houses, Golf courses, Construction activities etc. and have already made available treated water at its STPs @ Rs 7/ Kilolitres.



