



Department of
Environment, GNCTD

Delhi Pollution
Control Committee



7th Meeting of HLC

REJUVENATION OF RIVER YAMUNA

Previous meetings: 20th Jan, 14th Feb, 14th Mar , 21st Apr, 09th June, 10th Aug 2023

**To Review progress in implementation of Action Plan &
Vetting of Status Report to be filed before Hon'ble NGT**

**10th October,
2023**

NGT Case OA No. 21/2023 in matter of “Ashwani Yadav Vs. Govt. of NCT of Delhi”

Directions dated 09.01.23

- *Detailed action plan for Rejuvenation of River Yamuna in Delhi prepared by **High Level Committee constituted vide order 09.01.2023.***
- **Order dated 27.01.2023 issued by HLC** for implementation of Action Plan
- Success of committee will be viewed by outcome in terms of reduction of pollution load and thus targets of the Committee should be measurable and identifiable.
- Now the case is being dealt under OA No. 06/2012 (Nizamuddin West Association Vs UoI) (Earlier Manoj Mishra Case)
- **Status Report filed in NGT on 31.01.2023 & 05.07.2023 | OA No. 21/23 Disposed Off .**
- *W.r.t order dated 05.07.2023, further Status Report is to be filed before NGT after vetting by the HLC.*
- **Next Date of hearing in OA 06/2012 : 17.10.2023**

(Nizamuddin West Association Vs Uol)

"7.DO is nil at most locations. Faecal coliform is very high. Parameters of COD and BOD are also exceeding except at Palla and Wazirabad upstream. Thus, situation continues to be far from satisfactory as far as water quality is concerned.

8.one of the CETP out of 13, is not operational. 22 STPs are non-compliant. Thus, untreated/partially treated sewage and industrial waste is entering into river..... Coercive measures against such serious violations are not in sight.but the fact remains that overall situation is extremely disappointing.....We now expect meaningful prompt penal action in a mission mode not only against violators but also those who are failing to check the violators.

9. DPCC may place it before HLC who may take further action against violators and errant officers as per directions of Tribunal in its order dated 27.1.2021 and subsequent orders., any report, before being filed before the Tribunal, must be vetted by the High Level Committee with comments about coercive measures against violators/erring officers in terms of earlier orders of this Tribunal.

Next Date of Hearing 17.10.2023

Supreme Court's Orders Dated 11.07.2023 & 08.08.2023

Order Dated 11.07.2023 (in Civil Appeal Diary No. 22325/2023 "Govt. of NCT of Delhi Vs. Ashwani Yadav" w.r.t. NGT Order dated 09.01.2023 in OA 21 / 2023 ".....

4. "There shall be a stay of the operation of the direction issued on 9 January 2023 by the National Green Tribunal to the extent that the Lieutenant Governor has been directed to be a member of the Committee and to chair it. The rest of the Committee shall continue to function."

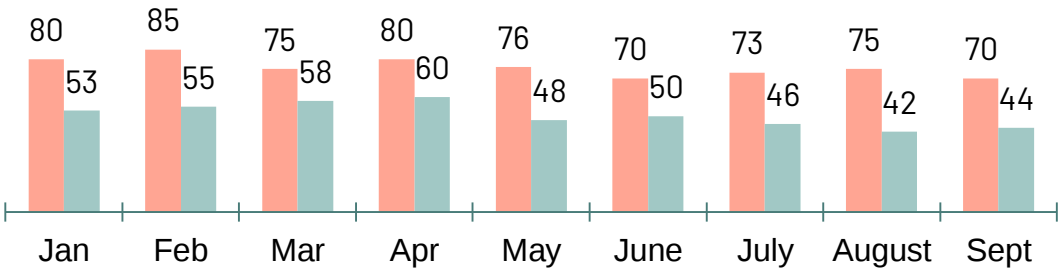
Order Dated 08.08.2023 (in SMW (C) No. 1/2021 "In Re Remediation of Polluted Rivers")

"...In that view, we deem it appropriate to first hear the issue relating to the pollution of the Yamuna River. In that regard, the status report shall separately be filed by the State of Haryana as also by the State of Delhi..."

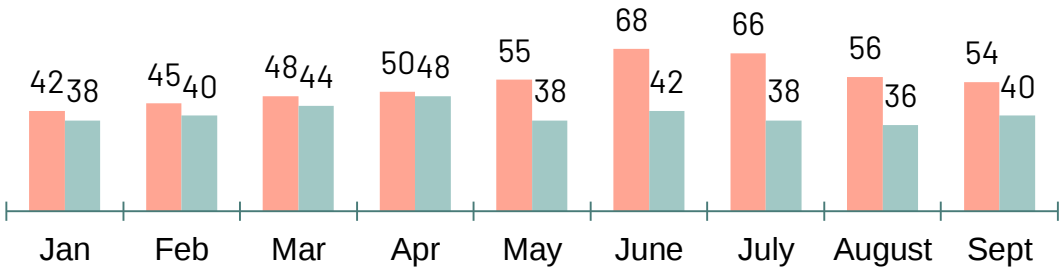
- The date of hearing in the above mentioned case was 03.10.2023 and **Next Date of Hearing is 21.11.2023.**
- Status Report of Delhi prepared & given to Advocate on Record for filing before the Hon'ble Supreme Court.

Yamuna Water Quality : BOD (mg/l) variation [Stds ≤ 3mg/l]

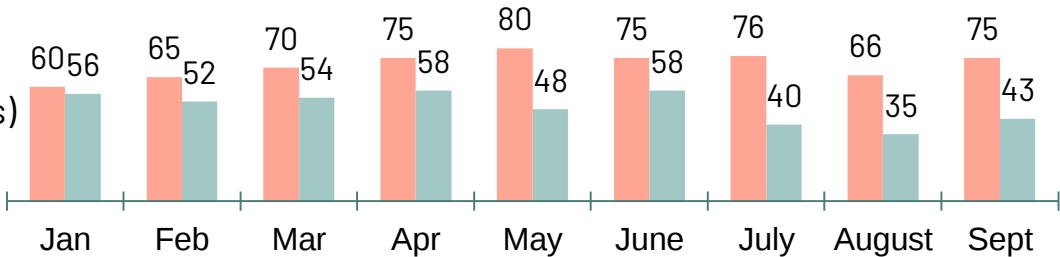
Najafgarh Drain



ISBT (After meeting
Najafgarh Drain)



Asgarpur (D/s of Okhla Barrage after
confluence of Shahdara & Tuglakabad drains)

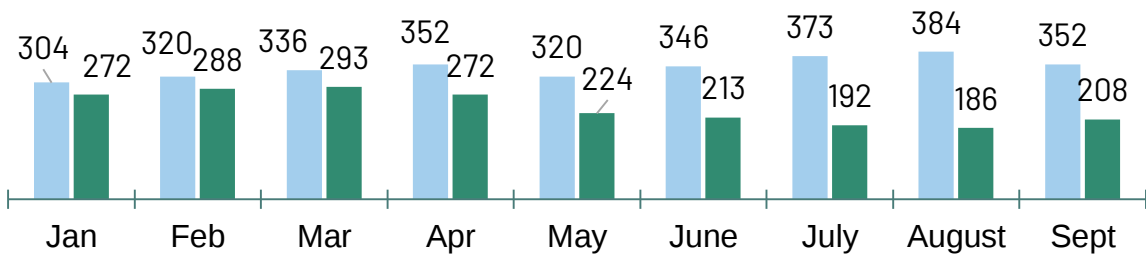


Year: 2022

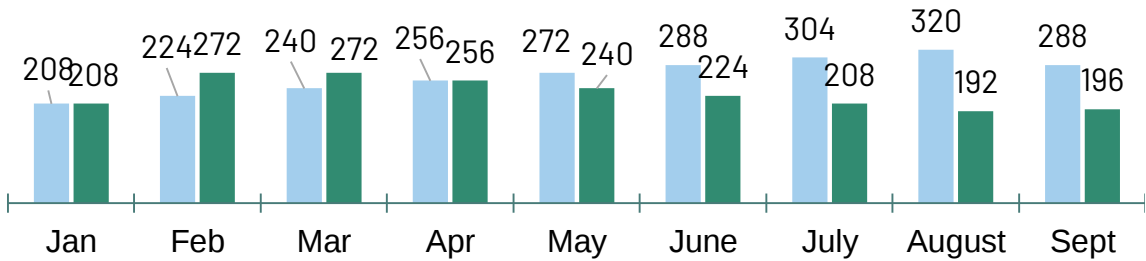
Year: 2023

Yamuna Water Quality : COD (mg/l)

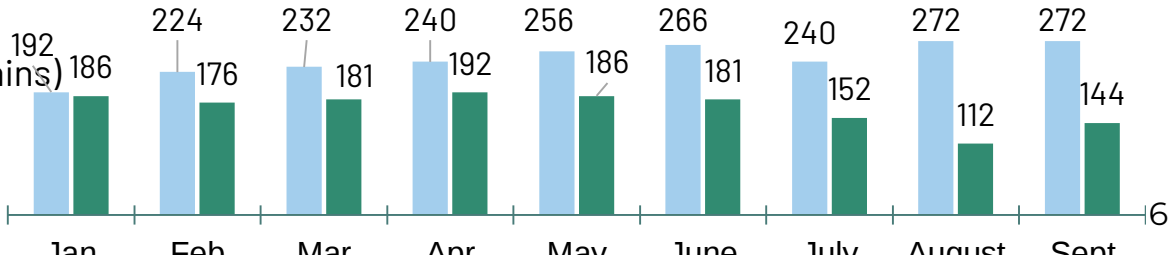
Najafgarh Drain



ISBT (After meeting Najafgarh Drain)



Asgarpur (D/s of Okhla Barrage after confluence of Shahdara & Tuglakabad drains)

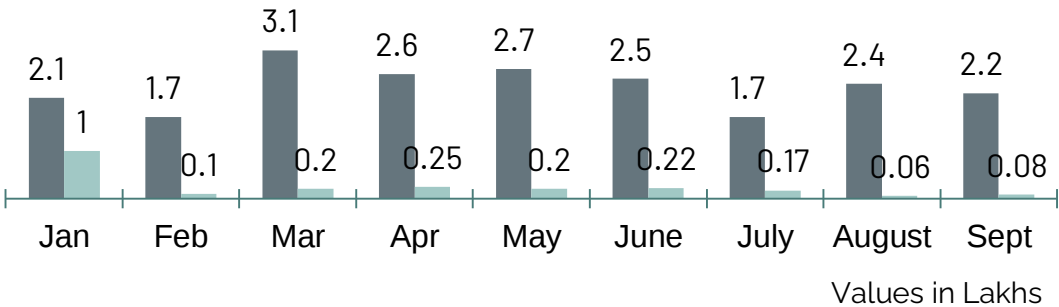


Year: 2022

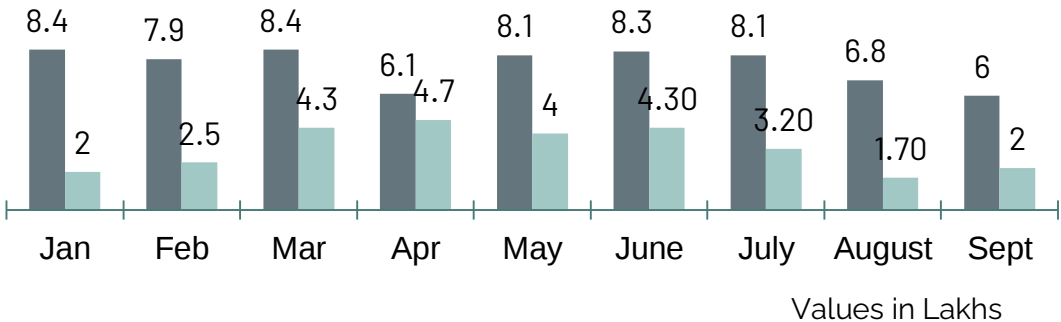
Year: 2023

Yamuna Water Quality : FC (mg/l) variation [Stds ≤ 2500 MPN/100ml]

ISBT (After meeting Najafgarh Drain)



Asgarpur (D/s of Okhla Barrage after confluence of Shahdara & Tuglakabad drains)



Year: 2022

Year: 2023

Dissolved Oxygen was not found at any location

Improvement of water quality in Yamuna

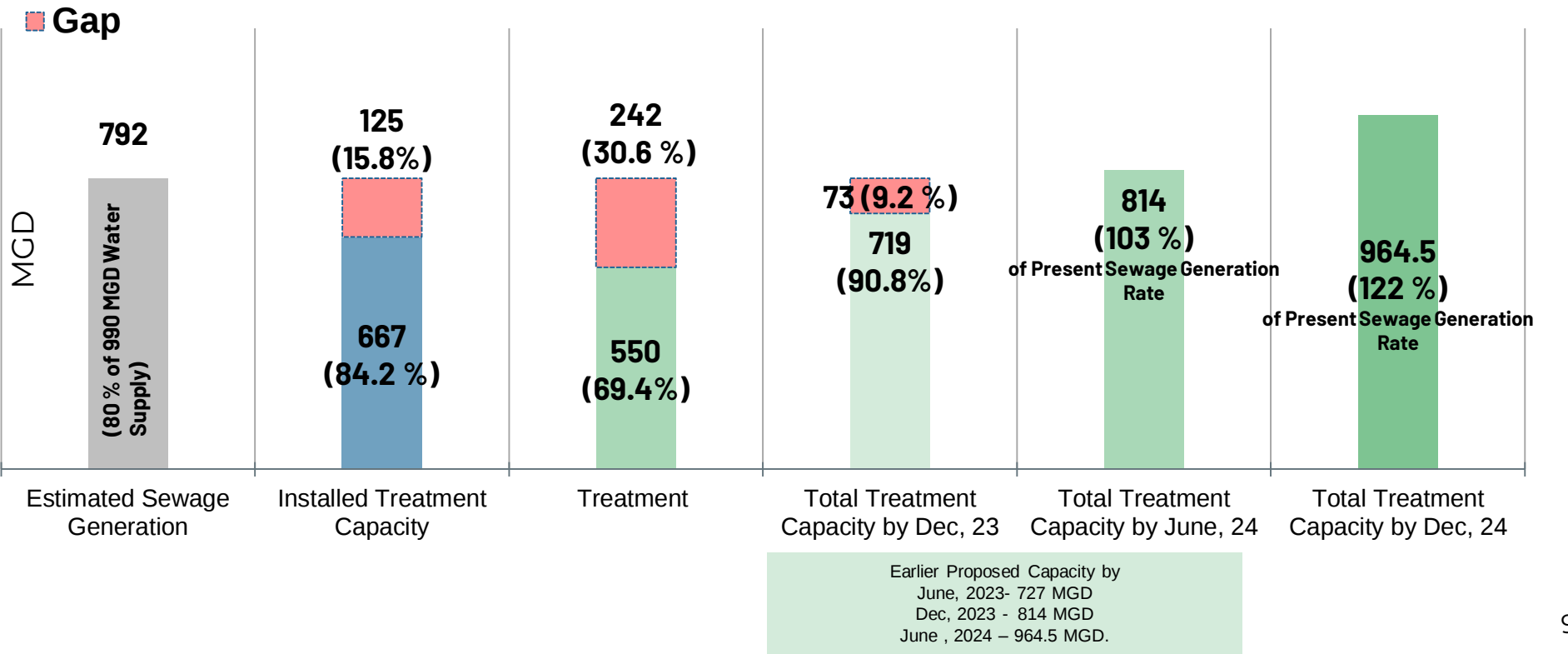
Major Action points

1. 100 Percent Treatment of Sewage
2. Trapping of all Drains
3. Sewerage Network in 1799 Unauthorised Colonies and 639 JJ Clusters
4. Industrial Effluent Management by 13 CETPs
5. Faecal Sludge (Septage) Management
6. Regulation of Floodplain (By DDA)
7. Utilization of Treated Wastewater
8. Other Issues

1384 Action Points

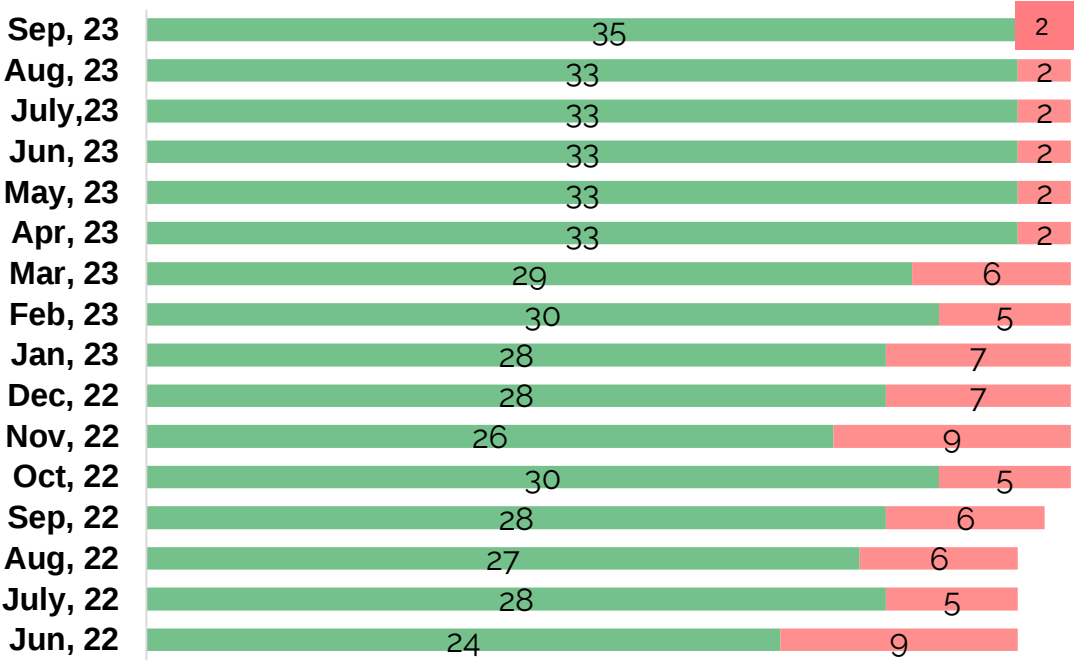
1. 100 Percent Treatment of Sewage

Generation, Treatment and Gap in Sewage Treatment



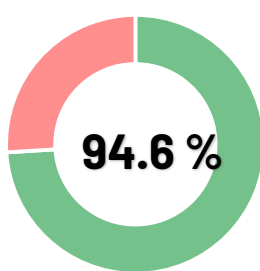
Water quality monitoring of STPs (37* in Sept, 2023)

Compliance with design standards - BOD: TSS(30:50 / 20:30 / 15:20 / 10:15)

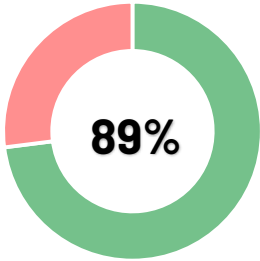


No. of STPs

STPs meeting design standards



35/37 STP



490/550MGD

*: 02 STPs under trial run (Kondli Ph-II, Coronation Pillar Ph-III)

Water quality monitoring of STPs (37* in Sept, 2023)

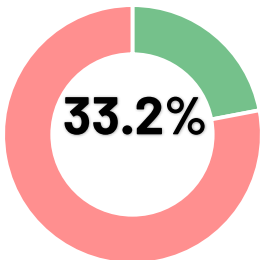
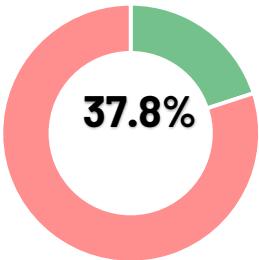
Compliance with prescribed standards BOD:TSS(10:10)



No. of STPs

*: Kondli Ph-II STP under Trial Run

STPs built to prescribed standards

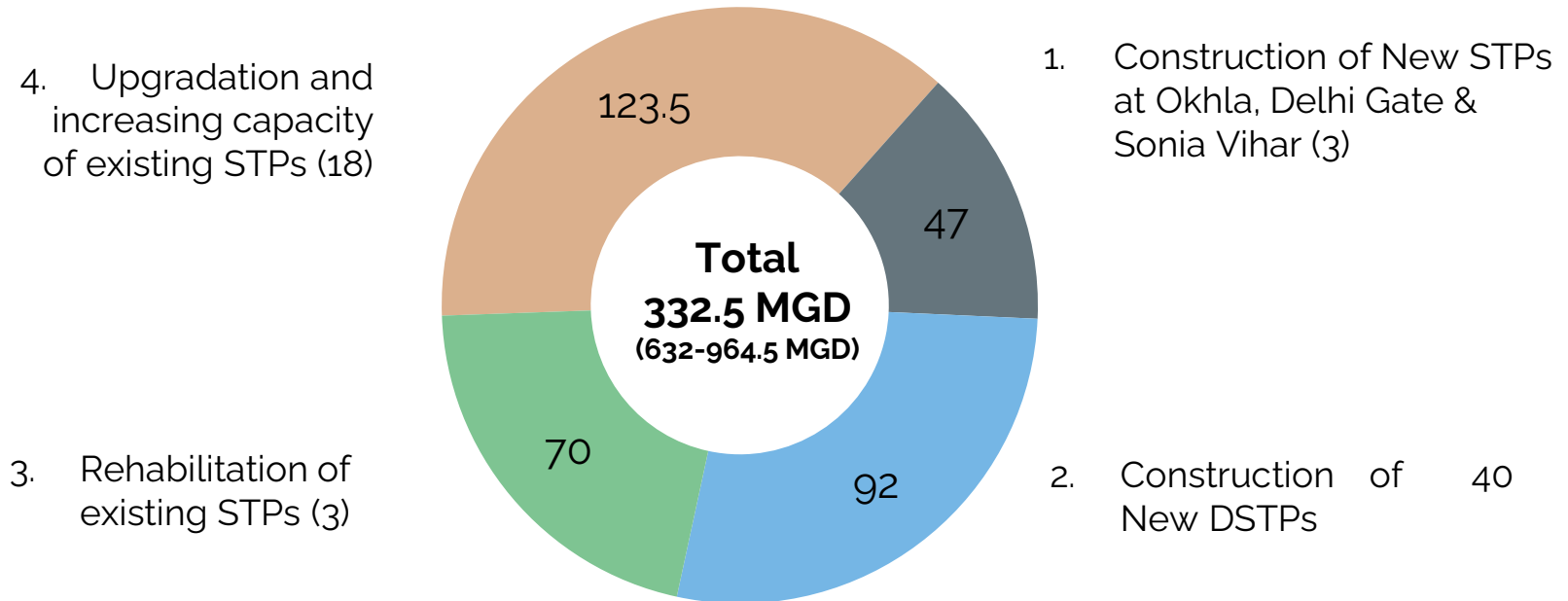


14/37 STP

182.5 / 550 MGD

1. 100 Percent Treatment of Sewage

Focus Areas for Enhancing Sewage Treatment Capacity



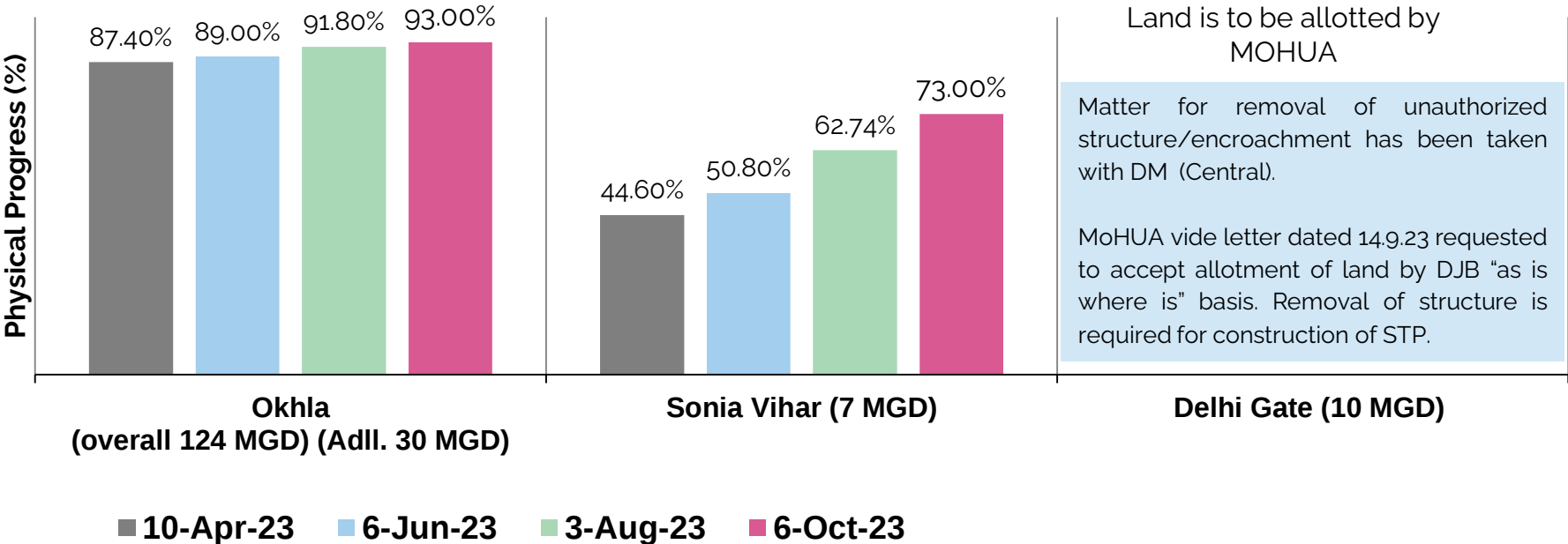
1.1. Progress in Construction of 3 new STPs

Capacity Addition: 47 MGD

"Timeline : Jun, 23"(RT: March, 24)

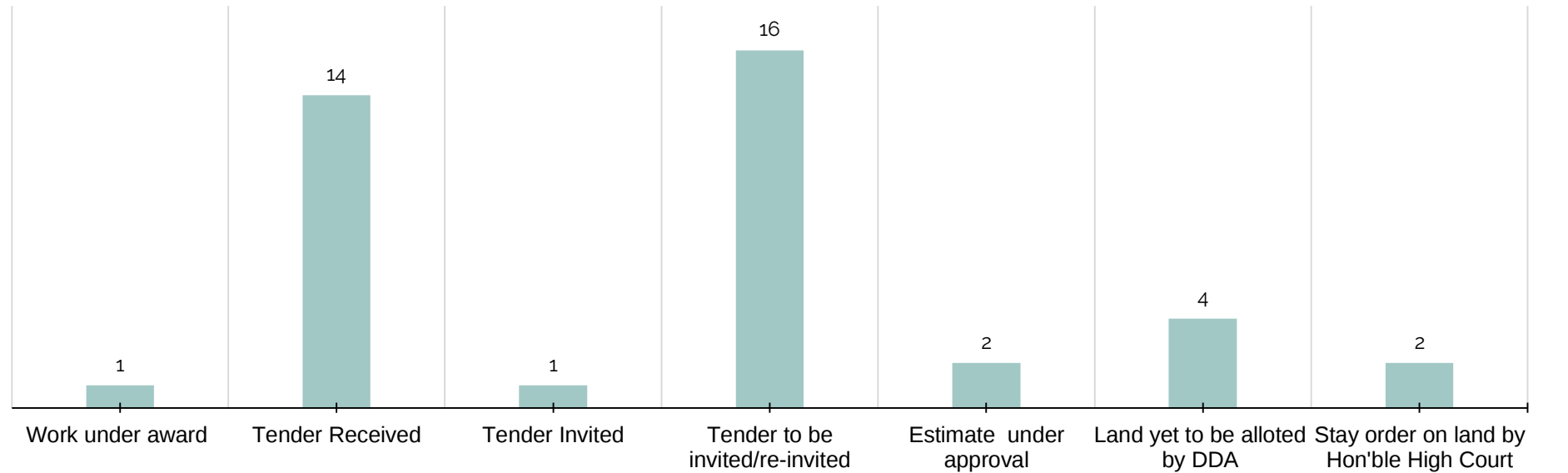
*"Timeline : Sep, 2023"
RT: Dec, 2023*

"Timeline: 12 months and matter of allotment of land shall be resolved by all concerned by 31.01.2023"



1.2. Construction of 40 New DSTPs

40 DSTPs: Capacity Addition: 92 MGD



"Timeline : Dec, 2024"

1.2. Land Issues

Land Issues (19 DSTP & 10 SPS)

S.No.	Particulars	Department	Numbers	Resolved
1	06 DSTP & 06 SPS land	DDA	12	5
2	05 DSTP & 01 SPS land allotted by DDA but not handed over yet	DDA	6	5
4	Gram Sabha Land for DSTP	Revenue	4	3
5	Private Land to be acquired (2 DSTP & 1 SPS)	Revenue	3	0
6	2 DSTP land allotted by Revenue and handed over, but under dispute	Revenue	2	2
7	SPS land	DUSIB	1	1
8	SPS land	Police	1	1
Total			29	17

1.2. Land Issues (DDA)

04 DSTP and 04 SPS

S. N o.	District	Village	Status as on 07.06.2023	Status as on 25.07.2023	Status as on 06.10.2023
1	New Delhi	Rangpuri (DSTP)	Consent for land shown to DJB given, reply from DDA awaited.	Land is yet to be allotted by DDA	A letter has been received from DDA on 27.09.2023 & following information has been sought I. to confirm STP land area as per prescribed norms of DDA. II. mark SPS location in layout plan.
2	South west	Chattarpur Extension (DSTP)	Land is yet to be allotted by DDA		Land is yet to be allotted by DDA (GNCTD has verified the TSS on 22.09.2023)
3	South west	Maidan Garhi (Rajpur Khurd) (DSTP)	Joint inspection with DDA was held on 26.04.23. Land is yet to be allotted by DDA.		
4	South West	Salahpur Khara (SPS)	Development of water body along with construction of DSTP being taken up by DJB. Water body yet to be handed over by DDA.		Complete waterbody is yet to be handed over to DJB DDA informed that matter pertains to Horticulture Deptt..

1.2. Land Issues (DDA)

04 DSTP and 04 SPS

S. N o.	District	Location	Status as on 07.06.2023	Status as on 25.07.2023	Status as on 06.10.2023
5	New Delhi	Shahbad Mohammadpur (SPS)	Development of water body along with construction of DSTP being taken up by DJB. Water body yet to be handed over by DDA.	Land is yet to be allotted by DDA.	Land is yet to be allotted by DDA. DDA informed that matter pertains to Horticulture Deptt.
6	North - West	Adjoining to Maharishi Valmiki Hospital, Pooth Khurd Village / Sultanpur Dabas village (SPS)	Joint inspection of alternate proposed site has been made on 09.05.2023 with DDA. Case under scrutiny of DDA for verification of litigation status. Land is yet to be allotted by DDA.	Land is yet to be allotted by DDA.	Land is yet to be allotted by DDA.
7	North - West	Vijay Colony near Bawana chowk / behind Rajiv Gandhi Stadium Bawana village (for SPS in Bajitput Thakran GOC)(SPS)			
8	North West	Mohamad Pur Majri (DSTP)	Not handed over due to encroachment.	Not handed over due to encroachment.	Not handed over due to encroachment.

1.2. Land Issues (Revenue)

03 DSTP and 01 SPS

S. N o.	District	Location	Status as on 07.06.2023	Status as on 25.07.2023	Status as on 06.10.2023
9	North	Nayabans (DSTP)	Out of 13,000 Sq.m requirement on land, only 1900 Sq.m land allotted by Revenue Department vide letter dated 24.03.23. Balance land explored at DJB plants/other land owning agencies.		scheme being re-designed in three parts based upon availability of land for DSTPs at Bawana WTP. As advised by NMCG , matter is being pursued for construction of DSTP with innovative technology which requires lesser footprint.
10	South - West	Tajpur Khurd (DSTP)	Matter to be taken by Hon'ble Delhi HC on 14.07.2023.	Matter to be taken by Hon'ble Delhi HC on 28.08.2023	Matter is to be taken by Hon'ble High Court of Delhi on 11.10.2023
11	West	Tikri Kalan (DSTP)		DJB to explore other land including PWD land	
12	Shah dara	Milan Garden Lift station (SPS)	Land is yet to be acquired.	Land is yet to be acquired.	Joint survey has been conducted with Revenue deptt officials on 20.09.2023. Land yet to be acquired by Revenue Department.

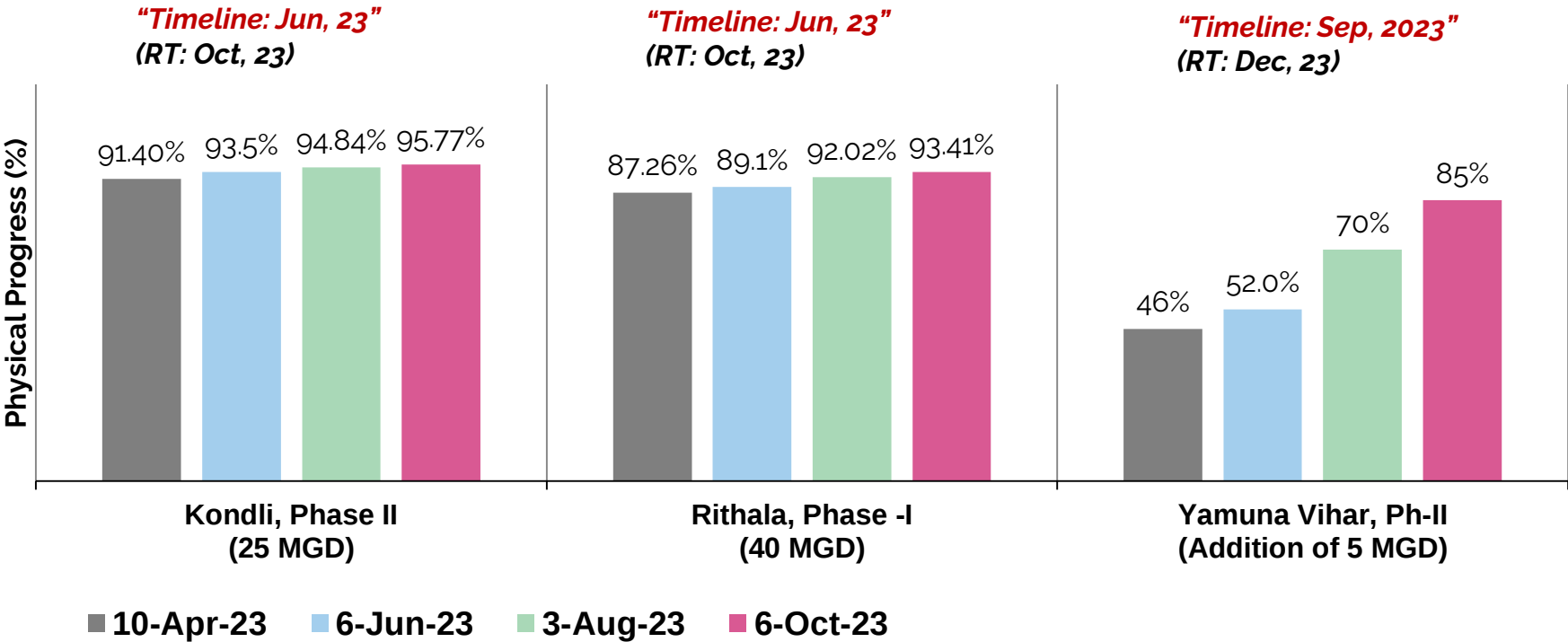
- (i) DDA to resolve land allotment / handing over issues by holding meeting with DJB and provide status in this regard to HLC.
- (ii) DJB to pursue land Allotment / Handing over issues with DDA & Revenue Department and also look for alternative land wherever possible including land available with DDA in Tikri Kalan area for housing complex.

DJB is regularly pursuing land allotment/handing over issues with DDA and revenue department.

- (iii) DJB to request DG NMCG for doing the proposed pilot project at Nayabans (with 20 MLD capacity) instead of some other site selected by NMCG.
 - (iv) DM (South West) to pursue the matter before the High Court for early disposal of the cases and allotment of the land for DSTPs.
- A pilot project at Nayabans has been followed up by DJB with NMCG.
 - Next date of hearing is 11.10.2023.

1.3. Progress in Rehabilitation of existing 3 STPs

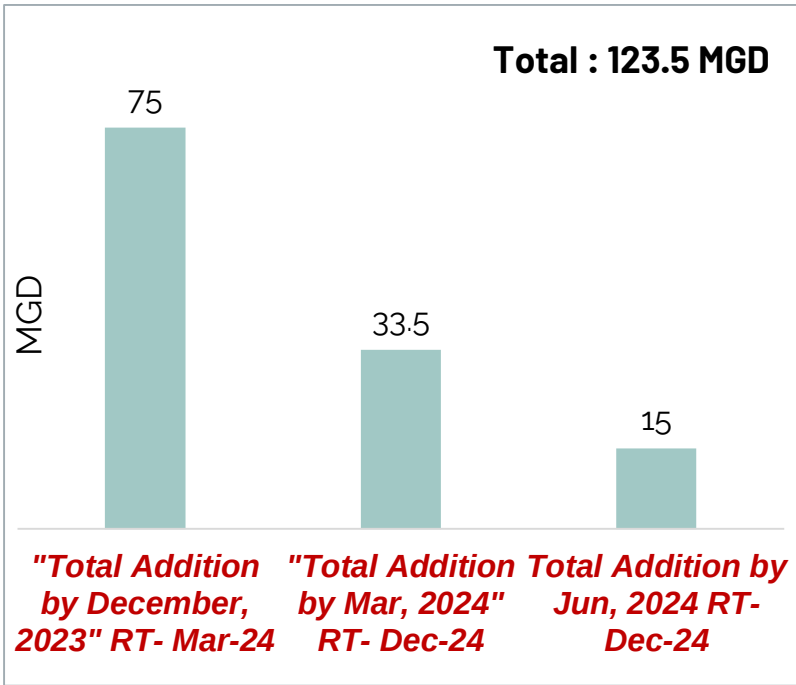
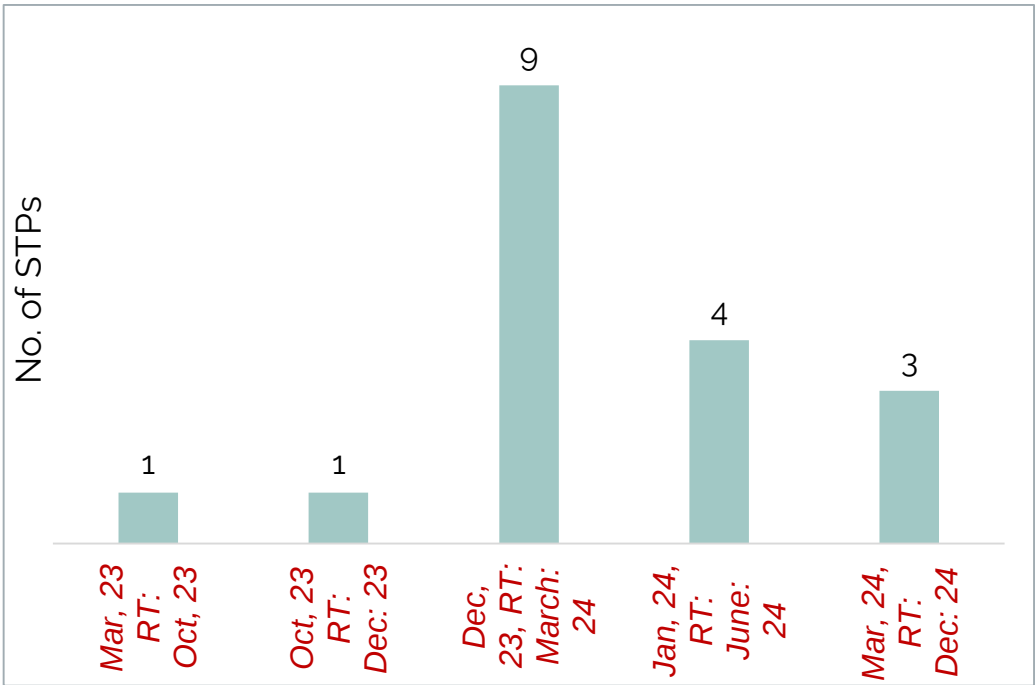
Capacity Addition: 70 MGD



1.4. Upgradation of Existing 18 Sewage Treatment Plants

Capacity Addition: 123.5 MGD

Timeline for completion – June, 2024 RT: Dec, 2024



1.4. Upgradation of Existing 18 Sewage Treatment Plants

Sr. No.	Name of STP	Existing Capacity	Enhanced Capacity (In MGD)	Status as on 6 Jun, 23	Status as on 3 rd Aug, 23	Status as on 25 th Sept, 23	Timelines
1.	Rithala Phase - II	40	40	85% (Complete plant is commissioned and BOD/TSS-12/15)	93 %	95 %	"Mar, 2023" <i>RT: Oct, 23</i>
2.	Kondli Phase- IV	45	45	46.46%	50.5%	62.5%	"Oct, 2023" <i>RT: Dec, 23</i>

1.4. Upgradation of Existing 18 Sewage Treatment Plants

Sr. No.	Name of STP	Existing Capacity	Enhanced Capacity (In MGD)	Status as on 6 Jun, 23	Status as on 3 rd Aug, 23	Status as on 25 th Sept, 23	Timelines
3	Pappan Kalan Phase - I	20	30	15 %	18 %	21 %	"Dec: 2023" RT: March, 2024"
4	Nilothi Phase -II	40	60	15 %	18 %	21%	
5	Najafgarh	5	5	10 %	18 %	27%	
6	Keshopur Phase -II	20	20	11 %	18 %	27 %	
7	Keshopur Phase-III	40	60	11 %	18 %	27 %	
8	Rohini Sector 25	15	25	15 %	19 %	25 %	
9	Narela	10	15	15 %	19 %	25 %	
10	Coronation Pillar Phase -I & II	20	20	15 %	19 %	25 %	
11	Coronation Pillar Phase -III	0 (Plant is non operational)	10	15 %	19 %	25 %	

1.4. Upgradation of Existing 18 Sewage Treatment Plants

Sr. No.	Name of STP	Existing Capacity	Enhanced Capacity (In MGD)	Status as on 6 Jun, 23	Status as on 3 rd Aug, 23	Timelines
12	Okhla Phase- V	16	16	Tenders opened on 06/04/23. single bidder participated in the bid Case is under process of award.	The case has been put on hold due to scarcity of funds.	Jan, 2024 <i>RT: Dec, 24</i>
13	Mehrauli	5	7.5			
14	Ghitorni	5	7.5			
15	Vasant Kunj	5	7.5			

1.4. Upgradation of Existing 18 Sewage Treatment Plants

Sr. No.	Name of STP	Existing Capacity	Enhanced Capacity (In MGD)	Status as on 6 Jun, 23	Status as on 3 rd Aug, 23	Status as on 6 th Oct, 23	Timelines
16	Yamuna Vihar Phase – I	10	15	File has been sent for financial concurrence.	File has been sent for financial concurrence by the competent authority.	4th consecutive call of tender has been done, in the recent the competent authority has been decided to discharge the previous tender and re-invite it with open technology. The Tender is likely to be invited by this week.	June, 2024 , (RT: Dec, 2024)
17.	Keshopur Phase- I	12	18	Technical committee meeting for price negotiation with single bidder held on 19.05.2023. The same is under process and file will be send for financial concurrence afterwards.	Case file is in process for award of work and is currently under financial concurrence.	File sent to competent authority to re-consider the decision of re-inviting of tenders in order to award the work at the earliest	
18.	Yamuna Vihar Phase – III	25	55	File has been sent to the competent authority for administrative approval of Estimate.	File has been sent to the competent authority for administrative approval of Estimate.	File has been sent to the competent authority for administrative approval of Estimate.	

1.5. Desilting (Trunk/peripheral Sewer : Approx 200 Km)

S.No	Particulars	Total length (Km)	Cumulative Length Desilted as on 06.07.23 (Km)	Cumulative Length Desilted as on 25.07.23 (Km)	Cumulative Length Desilted as on 25.09.23 (Km)	Timelines
1.	Desilting of 90.34 Km	94.93	48 (45.6 %)	59.176 (62.3%)	60.516 (66.98%)	June 23
a	Yamuna Vihar STP	7.65	4.40	5.5	6.5	RT: Oct-23
b	Rithala-Rohini STP	19.21	13.3	19.21	19.21	Completed
c	Narela STP & Coronation Pillar STP	8.05	8.026	8.026	8.026	
d	Keshopur STP	2.84	1.1	2.84	2.84	
e	Nilothi STP	4.61	1.1	1.34	1.34	RT: Dec-23
f	Kondli STP in east zone	8.76	1.195	1.66	1.90	
g	Dwarka STP	27.10	5.22	6.0	6.0	
h	Okhla STP	11.51	4.4	9.5	9.5	RT: Oct-23
i	Desilting of gravity duct no. 1	5.20	4.55	5.1	5.2	Completed
	Total	94.93	48 (45.6 %)	59.176 (62.3%)	60.516 (66.98%)	
2.	Desilting of remaining 110 Km	110 (RT 56 km)	Estimates under approval.			“Mar, 24”

Desilting Before After Images

BEFORE



AFTER



Brahmpuri Desilting

BEFORE



AFTER



Dwarka Desilting

1.5. Desilting of sewer line below 1000 mm Dia (Approx 442.63 Km)

New Action Point

S.N o	Particulars	Total length (Km)	Cumulative Length Desilted as on 30.05.23 (Km)	Cumulative Length Desilted as on 03.08.23 (Km)	Cumulative Length Desilted (Km)	Timelines
3.	<i>Desilting of Sewerlines (below 1000 mm Dia)</i>	<i>Earlier: 442.63 Now: 529.5</i>	<i>26.08</i>	<i>94.4 (17.8%)</i>	<i>111.54 (25.2%)</i>	<i>Dec, 23</i>

4. Interconnections between storm water drains and sewerage system (both way)

ATR w.r.t 5th HLC

DoAs to take action for plugging/ closing points of discharge through their storm water drains into sewerage system of DJB & submit report along with list of such Points / Drains to HLC within 15 days

S. No.	Dept.	Status	No. of Drains	Remarks
1.a.	MCD	Drain Disconnected	183	
1.b.		Drain Not Disconnected	13	Action plan prepared for 13 drains
1.c.		Pertains to PWD/IFCD/DSI IDC	52	
1.d.		Not Traceable	5	
1.e.		Not Feasible	56	
		Total	309	
2	IFCD	As per Info., received on 09.08.2023, no drain pertains to IFCD		
3	DSI IDC	As per Info., received on 09.07.2023, no drain pertains to DSI IDC		

4. Interconnections between storm water drains and sewerage system (both way)

Chief Secy. reviewed on 16.06.2023 & directed "DOAs (MCD, PWD, DSIIDC & IFCD) to prepare list of their storm water drains which are connected with Sewerage System in consultation with DJB & take urgent necessary action for disconnection / plugging of such drains"

Data Awaited from DoAs (except MCD)

4. Interconnections between storm water drains and sewerage system (both way)

5th HLC Decision

“DOAs need to survey points at which sewers are punctured into storm water drains”

Data Awaited from DoAs

4. Interconnections between storm water drains and sewerage system (both way)

MoM 6th HLC

- DoAs to take urgent necessary action for plugging / closing points of discharge through storm water drains into sewerage system of DJB and submit report along with list of such Points / Drains to HLC along with timelines within 10 days.
- All DoAs shall survey and submit list of points where sewage from DJB's sewerage system is entering storm water drains within 10 days to HLC

Data Awaited from DoAs

1.7. Prevention of dumping of waste from the Bridges across River Yamuna

New Action Point

S. No.	Name of Bridge	Length of Bridge (in Km)	Wire mesh/ Net Provided	Status of wire mesh/net	Timeline for repair of broken wire mesh/net	Bridge owning/ maintaining agency	Action Taken
			Yes/No	Intact/ Broken			
1	Wazirabad Barrage Road Bridge	0.50	Yes	Partially Damaged	30- June-2023	PWD	Mesh Repaired, Work Completed
2	ISBT Road Bridge (Near Kashmeri Gate)	0.57	Yes	Partially Damaged	30- June-2023	PWD	Mesh Repaired, Work Completed
3	Old Iron Railway Bridge	0.93	Yes	Intact	NA	Northern Railway Bridge Dept.	-
4	Geeta Colony Road Bridge	0.55	Yes	12 Sqm. Missing/ Theft	1 Month	PWD	Mesh Repaired, work completed
5	Signature Road Bridge				Data awaited	DTTDC/PWD	Work of clearing debris/ concrete piles: Work started, however stopped due to flooding. To be restarted after decrease of water level

1.7. Prevention of dumping of waste form the bridges across River Yamuna

New Action Point

S. No.	Name of Bridge	Length of Bridge (in Km)	Wire mesh/ Net Provided	Timeline for providing wire mesh/net (if not provided)	Status of wire mesh/net	Timeline for repair of broken wire mesh/net	Bridge owning/ maintaining agency	Action Taken (as on 20.09.2023)
			Yes/No		Intact/ Broken			
6	ITO Road Bridge	0.6	Yes	NA	50 Sqm. Missing/ Theft	1 Month	PWD	Mesh Repaired, work completed
7	Railway Bridge Downsteam of ITO	0.55	NO	Mar-24		NA	Northern Railway	-
8	Nizammudin Road Bridge					Data awaited	NHAI / PWD	
9	DND Flyway Road Bridge					Data awaited	NHAI / PWD/ DND	

4. Prevention of dumping of waste form the bridges across River Yamuna

6th HLC Decision

“Revenue Department, GNCTD shall depute 04 Civil Defense Volunteers on each of Bridges across River Yamuna in Delhi to check and prevent the illegal dumping of Pooja material etc into River Yamuna.”

Status Awaited

Trapping of partially trapped Sen Nursing Home Drain

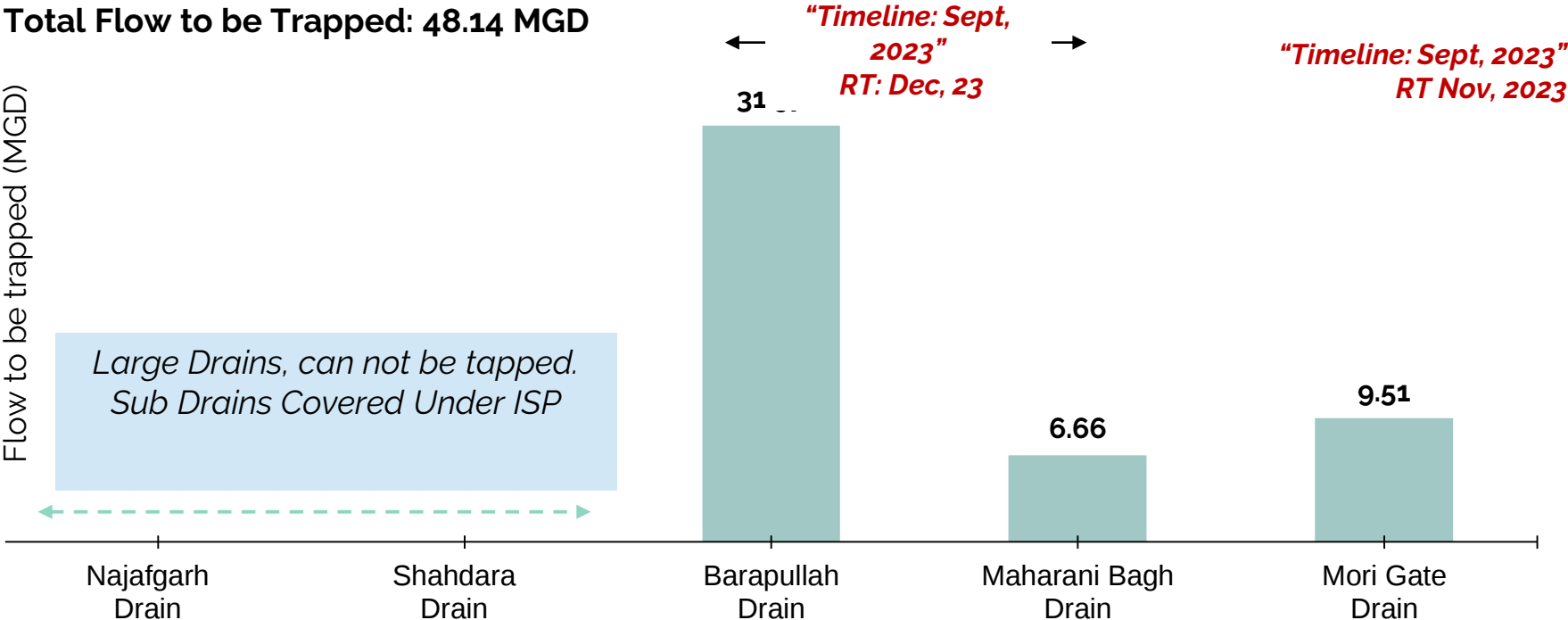
- *Sen Nursing Home Drain has been trapped into Sen Nursing Home STP as well as into the Ring Road trunk sewer. However, some marginal flow/ overflow still passes during peak hours.*

Timeline	Status as on 08.08.2023	Status as on 09.10.2023
Action Plan: Mar, 23	• Work at WHO complex still in-progress & underground water is pumped into drains. • During the recent floods in Yamuna River w.e.f. 12th & 13th July 2023, a drain got damaged causing high level of water due to back flow from Yamuna River resulting in flood in U/S area upto ITO / IP state	• Sen Nursing Home nallah is trapped into Ring Road Trunk Sewer. • Ring Road Trunk Sewer is badly silted up due to trapping of this storm water drain. Overflow of Sewage is frequently noticed at IIPA, ITO. • Action Plan for desilting of ring road sewer has been prepared and timeline is June-2024. • Ring Road Pumping Station (Under Construction) is also to be commissioned by June-2024. • Timeline for trapping of this drain is June-2024.

2. Trapping of all Drains

Trapping of Drains (Remaining 3 untapped major drains)

Total Flow to be Trapped: 48.14 MGD



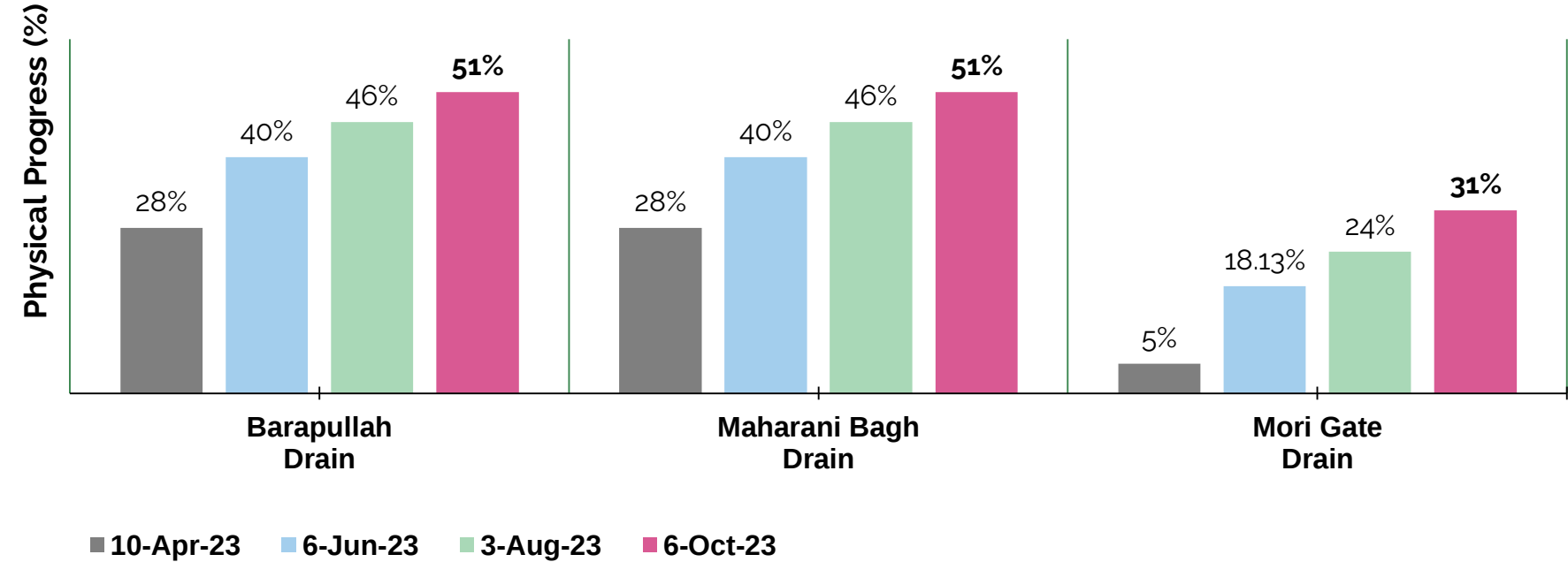
2. Trapping of all Drains

Trapping 3 untapped major drains : Total Flow to be Trapped: 48.14 MGD

"Timeline: Sept, 2023"
RT: March, 24

"Timeline: Sept, 2023"
RT: March, 24

"Timeline: Sept, 2023"
RT: March, 24



Status of 09 Drains Outfalling into River Yamuna to be Trapped :

New Action Point

S. No.	Name/Location of Drain	Drain Owning Agency	Brief Status
1	Sonia Vihar Drain (On Eastern Bank of Yamuna)	MCD	Work for construction of 7 MGD STP is under progress (Cumulative Progress 73 % as on 06.10.2023) and timeline is December, 2023.
2	ISBT Drain (Qudsia Bagh / Mori Gate Drain)	MCD	Waste water of this drain to be diverted to Coronation Pillar STP. Cumulative Progress is 31 % and revised timeline is March,2024.
3	Barapulla Drain	IFCD	Waste water of this drain to be diverted to Okhla STP . Cumulative Progress is 51 % and revised timeline is March, 2024.
4	Maharani Bagh Drain	MCD	Waste water of this drain to be diverted to Okhla STP . Cumulative Progress is 51 % and revised timeline is March, 2024.

Status of 09 Drains Outfalling into River Yamuna to be Tapped :

S. No.	Name/ Location of Drain	Drain Owning Agency	Brief Status
5	Kailash Nagar Drain (On Eastern Bank of Yamuna)	MCD	Technical feasibility is being worked out to trap these drains into Geeta Colony SPS jointly with MCD. Alternatively, construction of STP will be required near Kailash Nagar for which land from DDA will be required.
6	Shastri Park Drain (On Eastern Bank of Yamuna)	MCD	
7	Abul Fazal Drain	MCD	Flow in this drain will be trapped by DJB in Sewerage System being laid in Batla House Phase II scheme in upstream of this drain.
8	New Drain 01 (Khadar Kalindi Kunj road)	MCD	This drain brings discharge from Madanpur Khadar area and shall be trapped after completion of Madanpur Khadar GOC scheme (Land for SPS has been recently allotted by DDA)
9	New Drain 02	MCD	Trapping is not required as it doesn't outfall into river Yamuna.

2. Trapping of all Drains

Action plan of 76 un-trapped sub drains

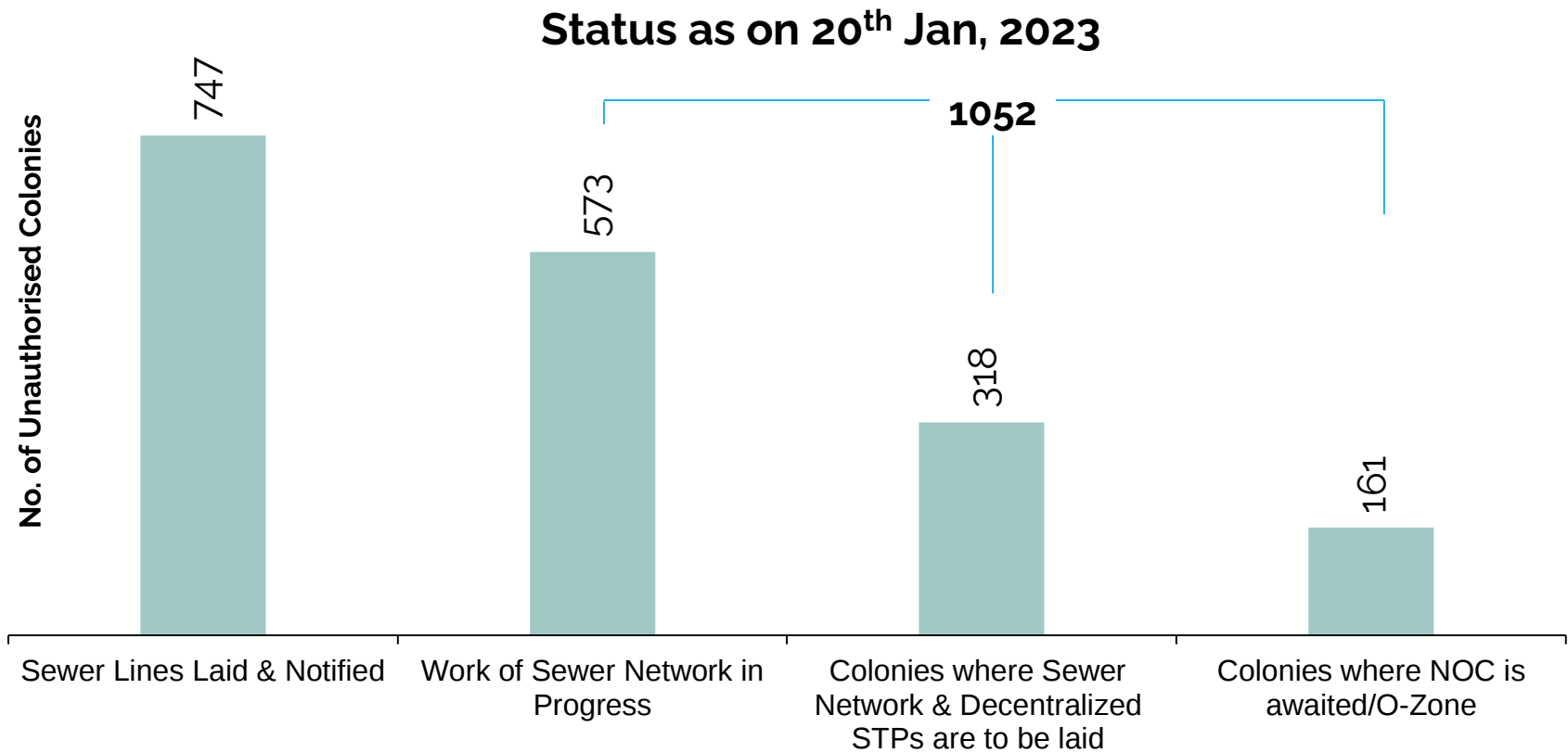
Sr. No.	Name of major Drain	Total No.s of un-trapped drains	Number of sub drains	Timeline	Present Status (as on 25.09.2023)		
1.	Najafgarh Drain	44	18	May, 23	Trapped		
			04	Jun, 23 RT: Dec, 23	03- Trapped	01- 99 %	
			22	Oct, 23	17 3- Under Progress 14- linked with DSTPs (Dec, 23)	2-Action to be taken by DDA	3- DSTPs land sub-judice
2	Shahdara Outfall Drain	02	02	Jun, 23 RT: Dec, 23	73.4 %		
3	Supplementary Drain	30	14	Apr, 23	Trapped		
			1	May, 23	Trapped		
			14	Jun, 23 RT: Dec, 23	11-Trapped	02-Drains 75-80 %	1-DSTP Estimate prepared
			01	Jun, 23	Trapped		

2.1. Performance Audit of completely trapped 11 major drains and all sub-drains

Order
Para No.
3.2.3

Direction	Timeline	Status
<i>DJB to undertake Performance Audit of completely trapped 11 major drains and all sub-drains through an independent agency</i>	Feb, 2023	Basic survey of 63 sub drains done by WAPCOS. Work stopped during monsoon period. Survey work restarted from 03.10.2023.

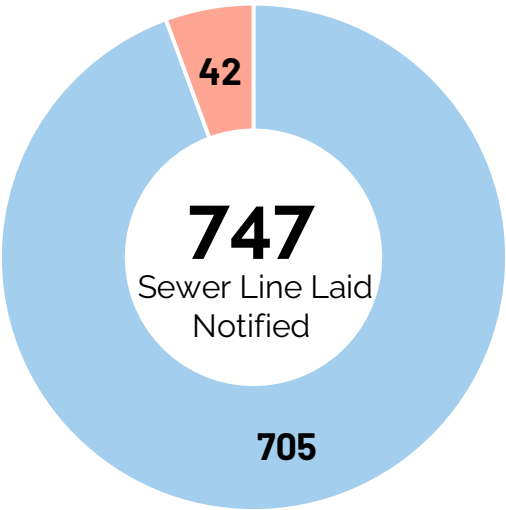
3. Sewerage Network in unauthorized colonies (1799)



3rd Meeting Decision : on Sewer Lines Laid & Notified in 747 UCs

Connection to all households

“DJB to complete survey and submit timeline by which DJB will provide connection to all households in unauthorized colonies where sewer network has been laid. ”

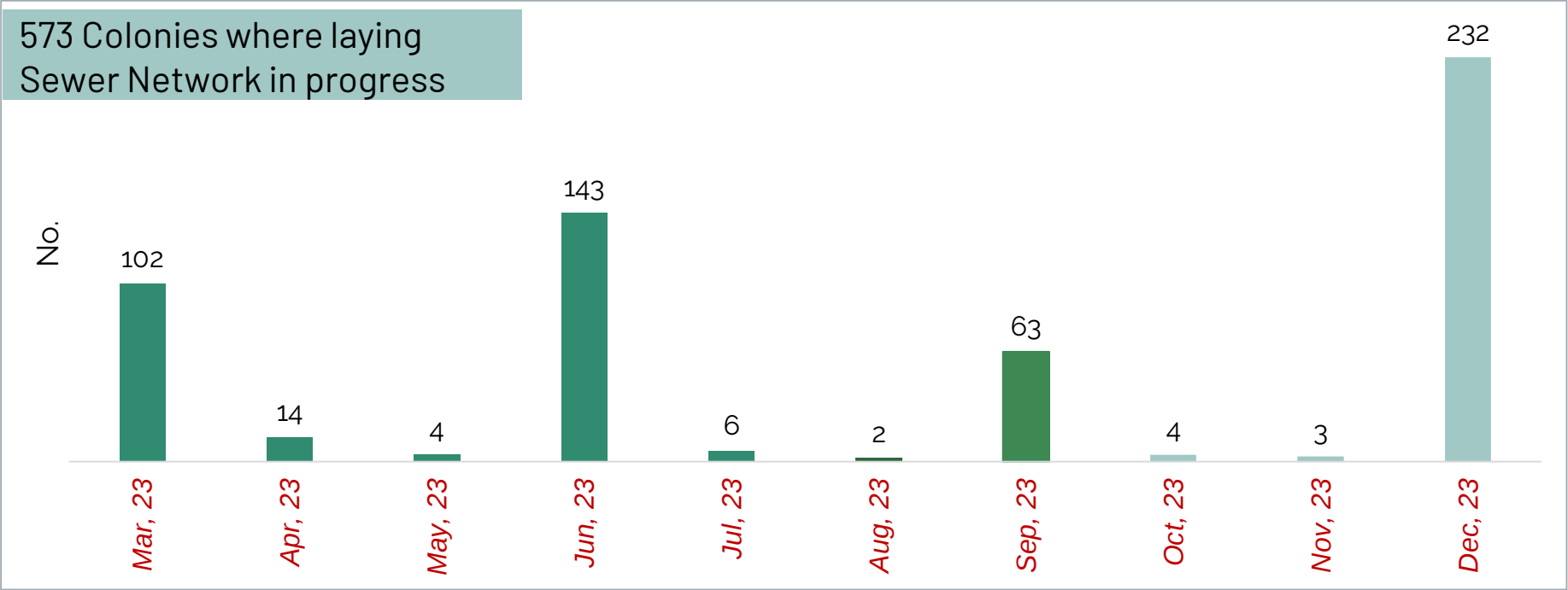


- Sewer connections in colonies completed
- House Sewer Connections to be done

Timeline : Sep. 2023, RT: June. 2024

3.1. Status of Sewerage Networks in Progress

573 Colonies –Timeline Targets

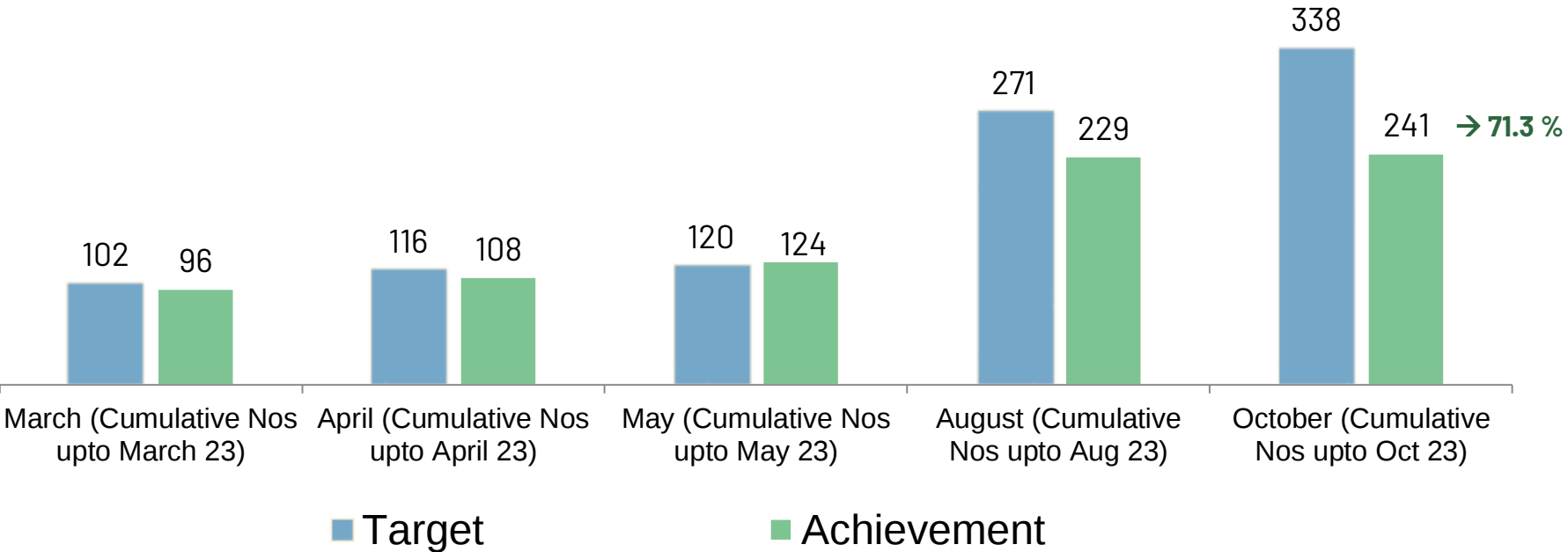


3.1.1. Status of Sewerage Networks in Progress

573 Colonies where laying Sewer Network in progress

Cumulative Physical Progress of 338 Colonies
(Completed- 241, In progress- 97)

“Timeline: October, 23”

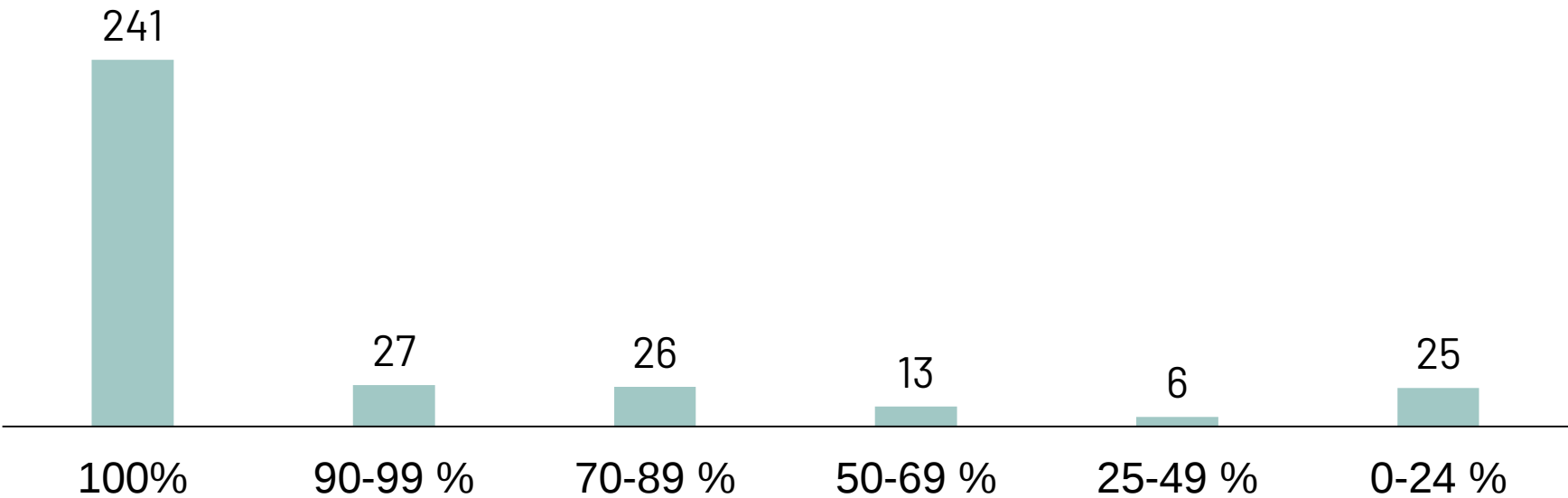


3.1.1. Status of Sewerage Networks in Progress

573 Colonies where laying Sewer Network in progress

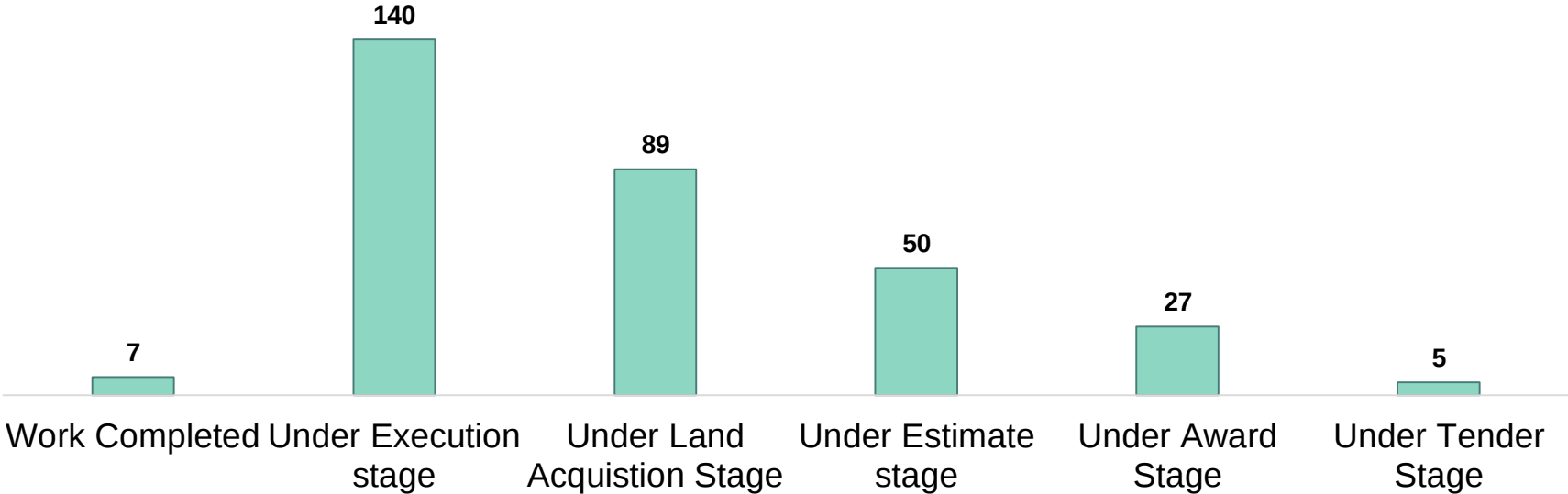
Physical Progress of 338 Colonies

"Timeline: Oct., 23"



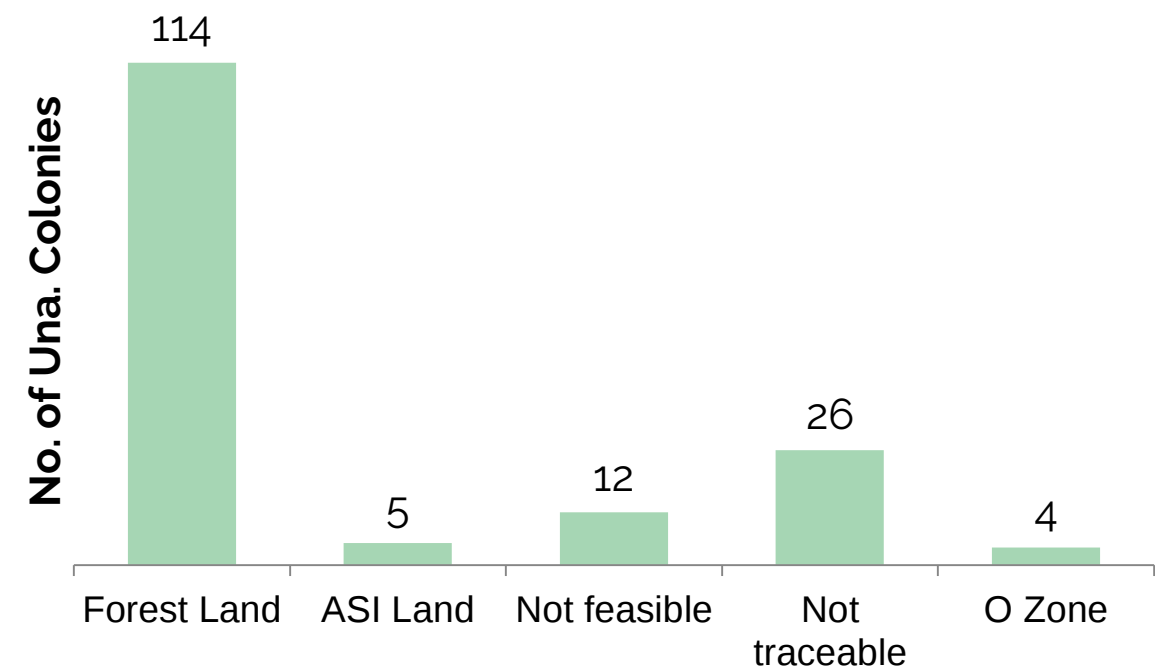
3.2. Status of Sewerage Networks sewerage network is to be laid along with Decentralized STPs

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



3.3. Status of Sewerage Networks sewerage network is to be laid along with Decentralized STPs

161 colonies where NOC is awaited/O-Zone



“Timeline for 161 Colonies where NOC is awaited / O Zone : 12 months after receipt of NOC but not later than June, 2024”

3.3. Status of Sewerage Networks sewerage network is to be laid along with Decentralized STPs

161 colonies where NOC is awaited/O-Zone

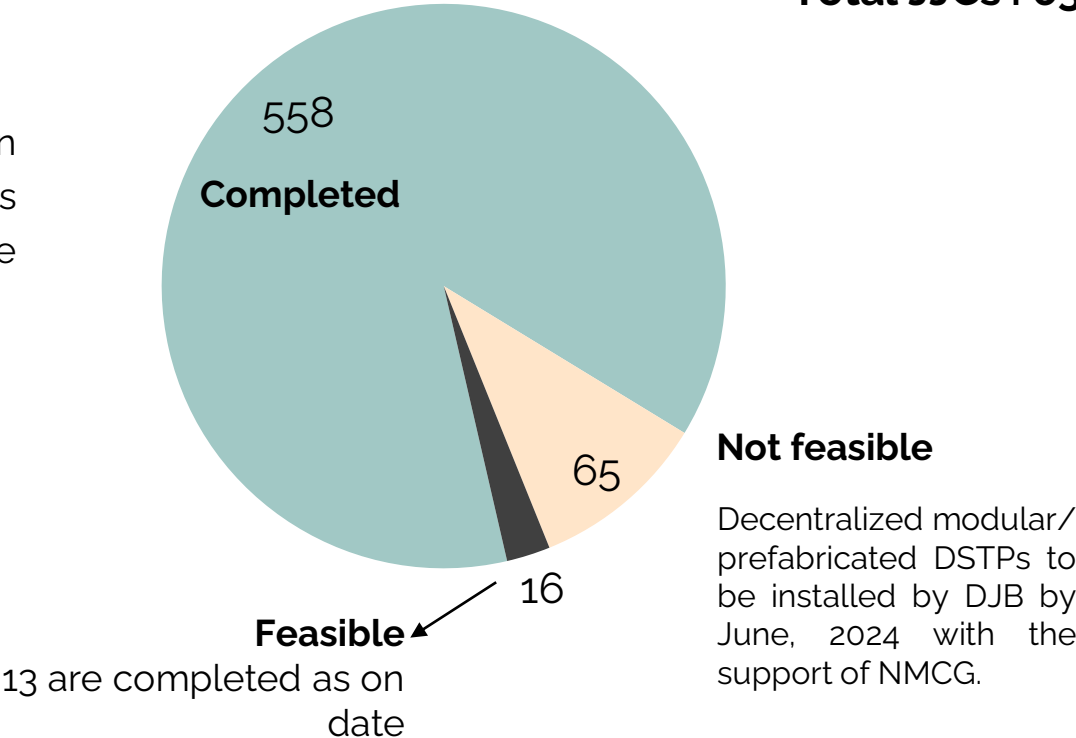
S.No	Dept.	UC (No.)	Decision Taken
1	Forest Land	114	DJB prepared a list and Google Earth file of 78 UCs and forwarded the same to forest department on 21.07.2023. 5 UCs are not falling within forestland.
2	ASI	05	ASI gave permission to DJB to one UC in Mehrauli. - At one UC (Tuglakabad Area) matter is pending in HC 3 UC don't fall under their jurisdiction
3	O-zone (DDA)	04	01 UC at Majnu ka Tila removed by DDA Comments in 3 cases of UC falling under "O Zone" awaited
4	Not feasible	12	-
5	Not traceable	26 (now 22 traced)	Details being prepared for 22 UCs
	Total	161	

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

Total JJC's : 639

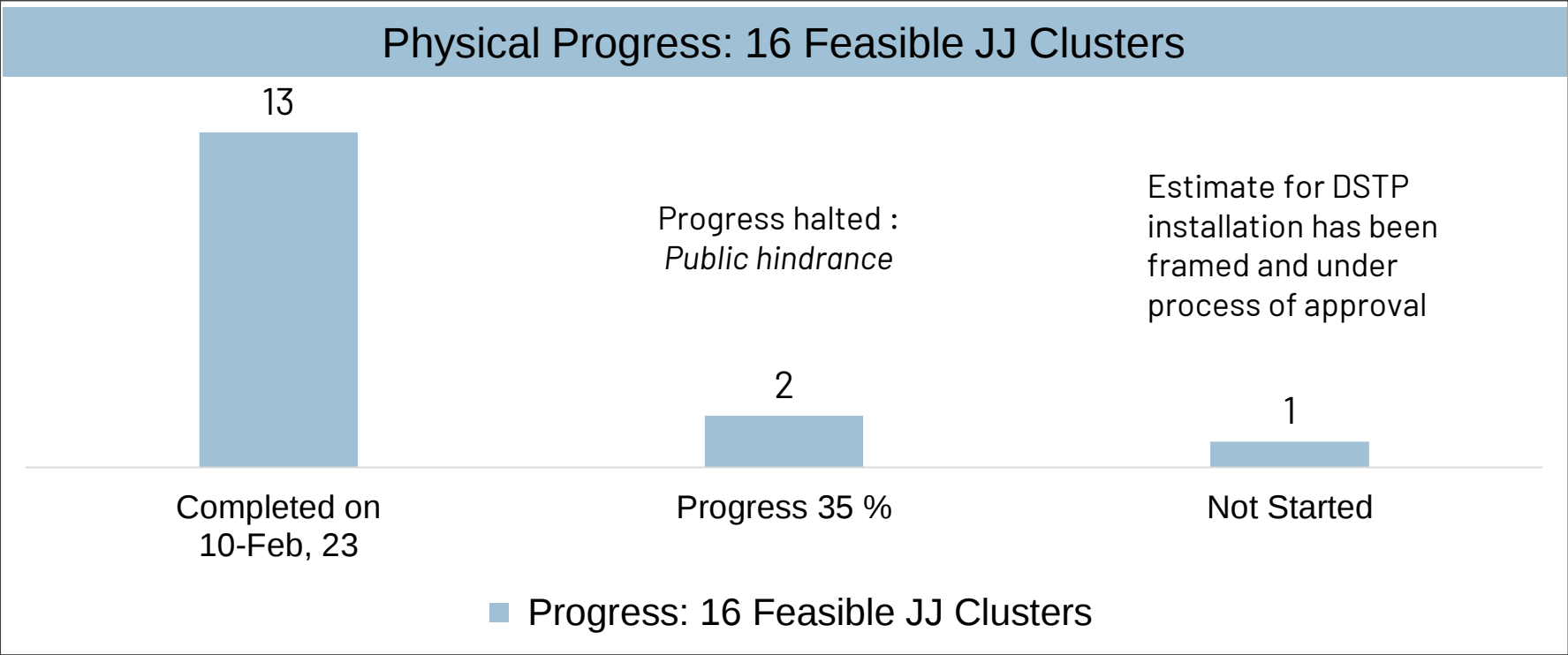
- Connection of storm water drain at outfall points/ points of JJC's into nearest DJB sewerage system.

Timeline: Jun, 2023
RT: Jun, 2024



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

Progress in 16 JJ Clusters

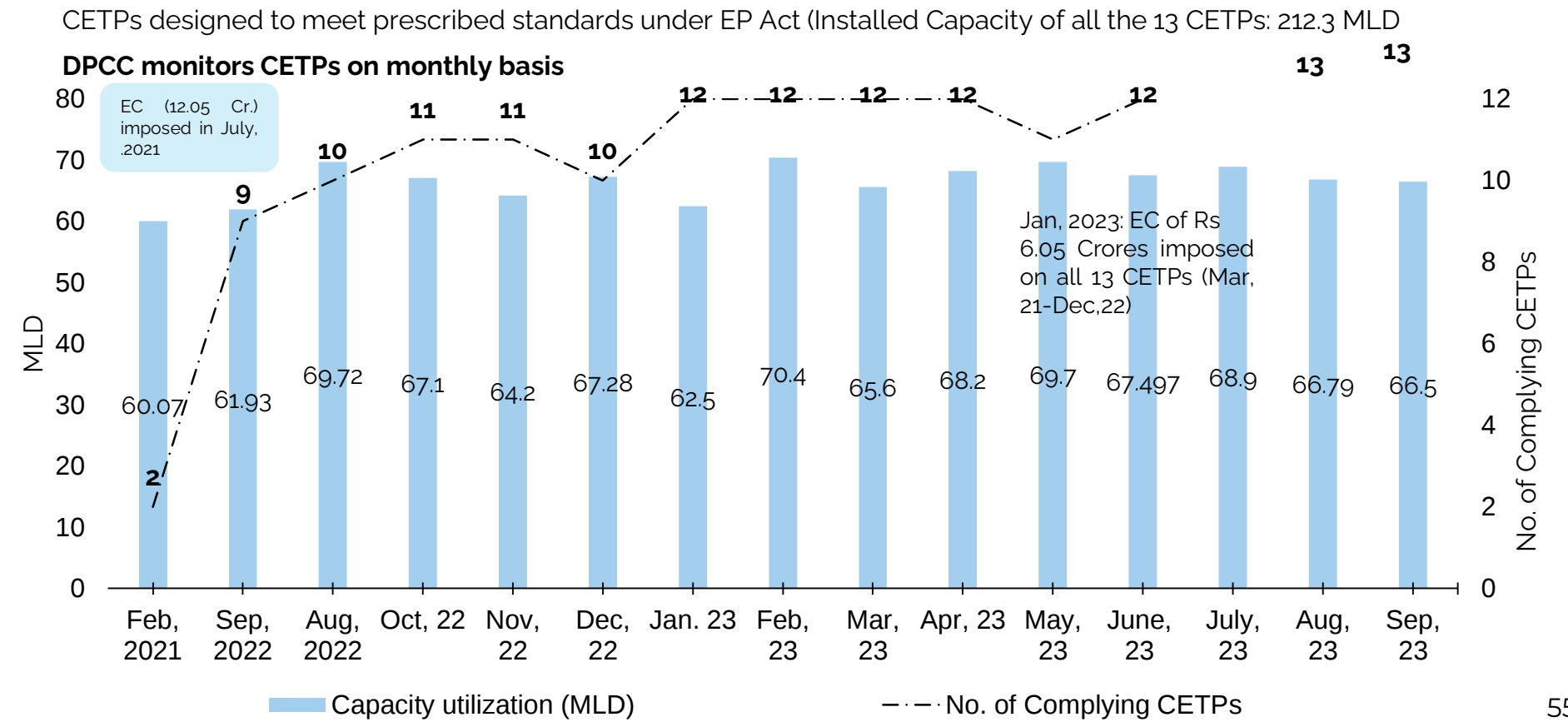


3.4. Connection of Drains/ Drainage system of JJ Clusters (639 Nos) with sewerage network.

Progress in 65 JJ Clusters

S.No	Status	No. of JJ Clusters
1	Connected/Trapped in DJB network	7
2	Drains to be trapped in sewer line (work in progress)	7
3	Drains will be trapped after commission of proposed sewer. network in nearby U/A col.	18
4	Drains which can be trapped in to sewerage network by installing lift station as per NMCG	2
5	Feasible sites approved by NMCG for which demand has been raised for funds from NMCG	15
6	Trapped in STP through major storm water drain/trapping work are in progress	8
7	Not feasible due to space constraints and multiple outfalls etc.	6
8	JJC cluster does not exist as per NMCG report	1
9	Site does not exist	1
	Total	65

4. Industrial Effluent Management by CETPs (13)

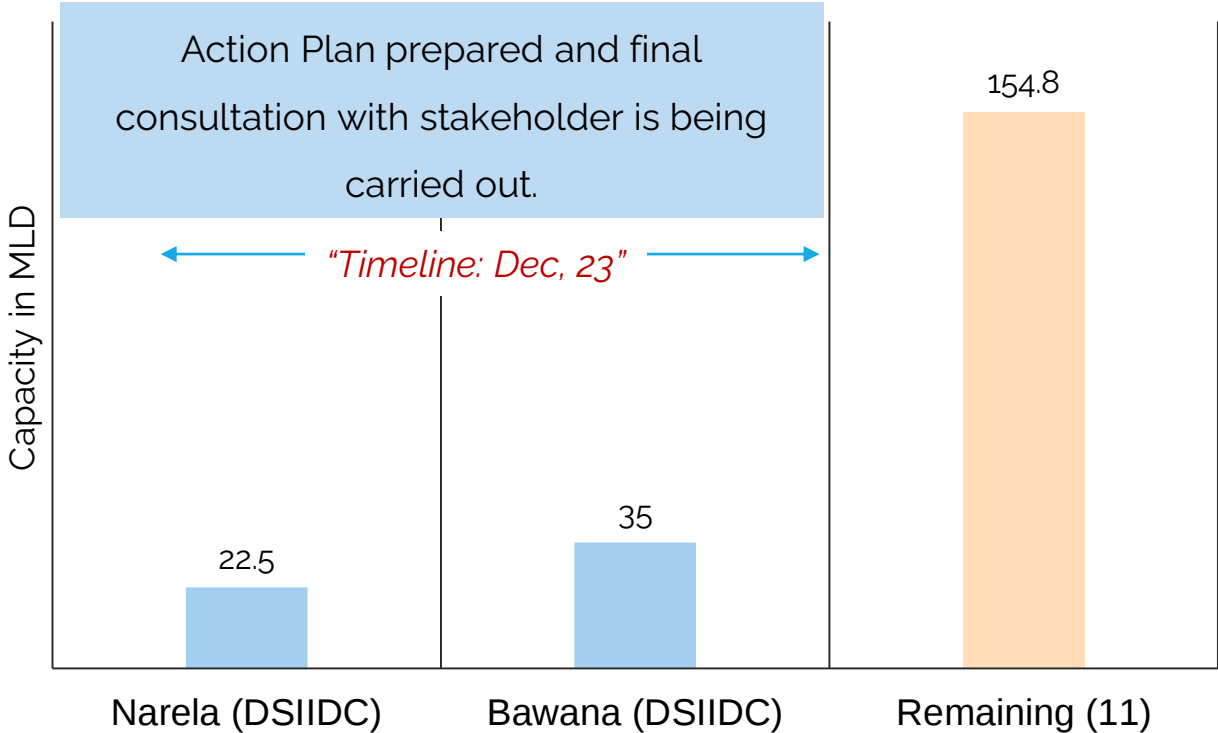


4.1. Action against Dyeing units

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 08.10.2023)

- Total No. of Dyeing units inspected : **258**
- Close down/Sealed/ Disconnection of electricity : **113**
- Chairman, DPCC issued direction on 22.06.2023 to Local Bodies, DDA, DJB & Discoms (BSES/ NDPL) for closure / sealing & disconnection of Electricity and Water Supply of all Dyeing units and Jeans / Denim washing units operating outside the Approved Industrial Areas / Industrial Estates / Redevelopment Areas or operating without mandatory consent of DPCC.
- **DISCOMS directed on 22.06.2023 to disconnect all connections to illegal units in NC areas**

4.2. Upgradation of CETPs with Timelines



DJB: Meeting of Hon'ble Minister, Industries: CETPs to be handed over to DJB for upgradation and Maintenance

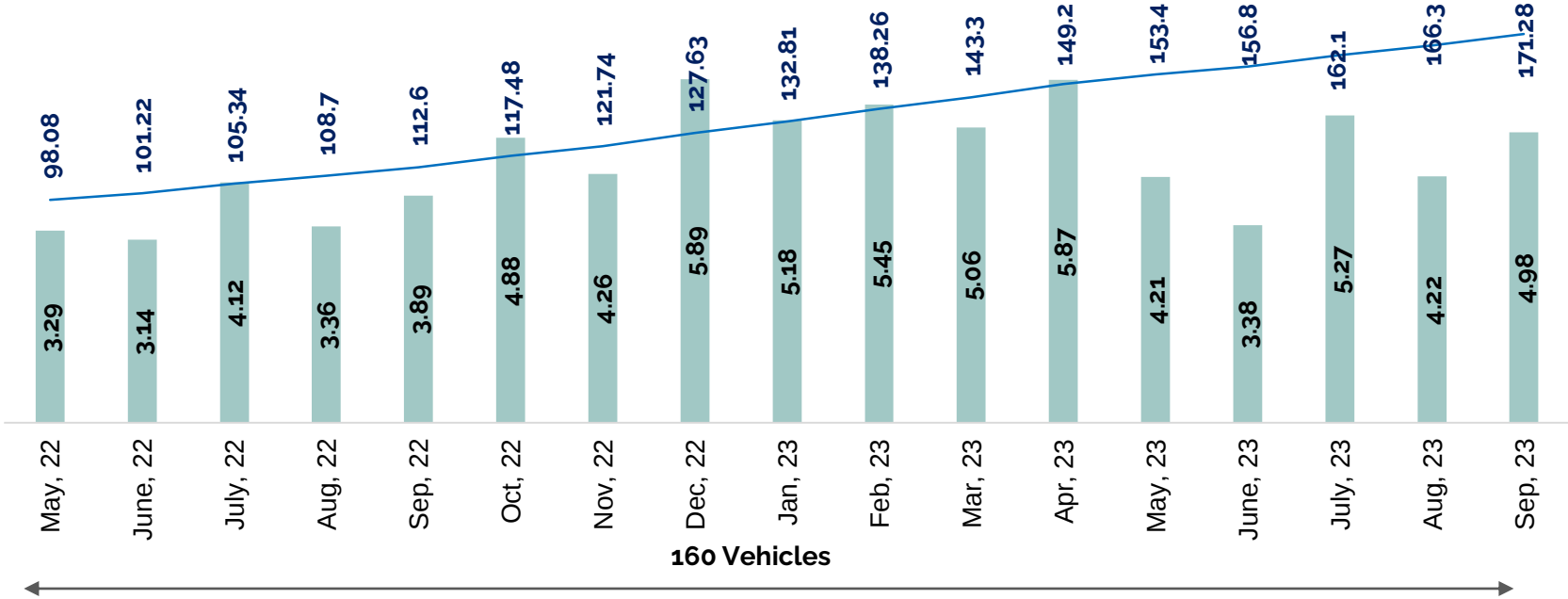
5. Faecal Sludge (Septage) Management

- **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
 - **Septage Management Committees headed by concerned District Magistrates**

Action Taken Report	Cumulative (12.11.2018 - 05.10.2023)
Total No. of Meetings of Septage Management Committees held	128
No. of Vehicles/ Tankers found unauthorizedly discharging septage into Drains etc.	69
No. of Vehicles/ Tankers impounded	64
No. of Challans/notices issued	43
Total Amount of Environmental Compensation Imposed (in Lakhs)	15.79Lakhs
Total Amount of Environmental Compensation received (in Lakhs)	15.29 Lakhs

5.1. Faecal Sludge (Septage) Collection & Treatment

171.28Cr. Ltrs collected/treated till Sept, 23



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

“196 Vehicles to be reduced to 150 by June, 2023” now reduced to 160 (as on 30.09.2023)

5.2. Septage Management Regulations 2018

“A Committee under chairmanship of Div. Comm, Revenue Department and consisting of CEO, DJB, Comm. MCD as member and Secy. UD as member cum-convenor, to revisit the Delhi Water Board Septage Management Regulations 2018 to make them more effective & enforceable.”

Direction	Timeline	Status
<i>Report to be submitted</i>	15 Feb, 2023	Recommendation of the Committee placed before Board meeting of DJB on 13.06..2023 and was approved. Notification of amendment in Regulations is awaited from UD Department.

Decision Taken in 5th Meeting

5th MoM

Incentives to drivers of authorized tankers for disposal of septage at designated SPSs / STPs to be provided by DJB

DJB to review the amount of Incentive proposed in the scheme and increase amount to minimize Rs. 500/- per trip.

Draft Preamble for placing the proposal of providing incentives @Rs 500/- per trip is under approval for placing the case before the upcoming board meeting of DJB.

6. Status of 10 Projects of DDA (Restoration & Rejuvenation of Flood Plains and Removal of Encroachment)

Order
Para No.
3.6

S.No	Name of Project	Area (Ha)	Timeline	Status As on 30.09.2023
1	Kalindi Aviral (Baansera) (Part B)	163	Feb, 23 (RT: To be provided)	- Civil & Horticulture - 99 % completed - Restoration work in progress 17 Ha under litigation - NDoH: 23.01.2024
2	Asita East (Part B)	107	Mar, 23 (RT: 31.03.2024)	- Civil-74%, Horticulture- 80% Completed (site is sludgy due to rise of water level in river Yamuna) 1.5 Ha encroachment - NDoH: not decided
3	Amrut Bio Diversity (116.5 Ha)			
	Part A	90	22.05.2024	Civil-79%, Horticulture- 20% Completed (site is sludgy due to rise of water level in river Yamuna)
	Part B	18		1 Ha Under litigation, Demolition programme scheduled on 17th October - NDoH: 04.03.2024
	Part C	8.25		Handed over to CPWD

6. Status of 10 Projects of DDA (Restoration & Rejuvenation of Flood Plains and Removal of Encroachment)

S.No	Name of Project	Area (Ha)	Timeline	Status As on 30.09.2023
4	Asita West / Yamuna Vatika (Part B)	107	June, 23 (RT: 30.12.2023)	- Civil-83%, Horticulture- 55% work completed (cleaning work under progress) - Encroachment Free (proposal being revised) - NDoH: not decided
5	Kalindi Biodiversity Park	115	Within 9 months after completion of NHAI project	- Progress: 27% (Work held up due to NHAI work) 2.83 Ha. Area of encroachment cleared on 08.08.2023. DJB is initiating a project to tap the drains. - Assessment of project area under litigation and encroachment underway. - DoH: 21.11.2023, 11.12.2023,18.10.2023
6	Ghat Area (66Ha)			
	Part A: (Qudsia Ghat/ Vasudev Ghat)	16	Apr, 23 (RT: 30.11.2023)	- Civil-71%, Horticulture- 71% Completed - Site is sludgy due to rise in water level of Yamuna.
	Part B: (Surghat)	13.6	Dec, 23	- Tender for 50 Ha awarded & work to be undertaken - Site is sludgy due to rise of water level in river Yamuna, 4.90 Ha Encroached
	Part C: Eco Trail Yamuna Bazar	33 3.4		NDoH: 13.10.2023, 20.11.2023, 11.12..2023,01.11.2023, 08.11.2023,16.11.2023

6. Status of 10 Projects of DDA (Restoration & Rejuvenation of Flood Plains and Removal of Encroachment)

Order
Para No.
3.6

S.No	Name of Project	Area	Timeline	Status As on 30.09.2023
	Yamuna Vanasthali:	236.5	May, 23 (RT: 31.12.2023)	- Civil: 87.5%, Horticulture 59% completed 15.7 Ha encroached 13 Ha. under litigation. - NDoH: 22.04.2024,17.10.2023
8	Mayur Nature Park	397.75	-	100Ha land denotified, physical demarcation completed - Revised landscape proposal is ready - Next date of hearing : 30.10.2023 & 07.02.2024
	Part A	235		Work to be done by UP Irrigation
	Part B	162.75		
9	Hindan Sarovar:	45	Dec, 23	- Detailed Survey under progress. - Site is sludgy due to rise of water in Yamuna River
	Part A	15	Dec, 23	
	Part B	30	Dec, 23	
10	Eco-Tourism area	30	-	- Area falls outside 1 in 25 Year floodplain. - Proposal will be taken once the O-II is finalised after notification of MPD 2041 - NDoH: 11.10.2023
	Part A	22.7		land is with DTC
	Part B	7.3		

6.1. Land at River Yamuna flood plain to NMCG

Direction	Timeline	5 th HLC Minutes	Status as on 08.08.2023
<i>To identify and allot a piece of land at River Yamuna Flood Plain to NMCG for development of a biodiversity park by NMCG</i>	Feb, 2023	Instead of Bio diversity park NMCG asked for development of one ghat at Kalindi Kunj In 5th HLC meeting, it was decided that DDA may continue with ghat development work. NMCG to assist DDA by funding for its various projects on the Yamuna flood plain. DDA to identify a site and move a note to NMCG asking for fund sharing.	• DDA identified approx. 9-10 Ha b/w ITO Barrage & DMRC blue line bridge on eastern bank near Yamuna Bank Metro Station • A letter informing the location of the Ghat area to NMCG is sent on 11th July 2023 • Reply from NMCG is awaited

7. Utilization of Treated Wastewater

Action Plan by DJB(550MGD)

145 (90+55) MGD

Being used in Horticulture and Lake rejuvenation & Water Bodies etc.



267 MGD

Mandatory Return Flow in Yamuna



550 MGD

Total Treated Sewage

70 MGD + 30 MGD

Proposed : Ground water recharge at DJB Marshy land near coronation pillar,Bhalwasa lake, Jhangirpuri Drain "**March 24**"

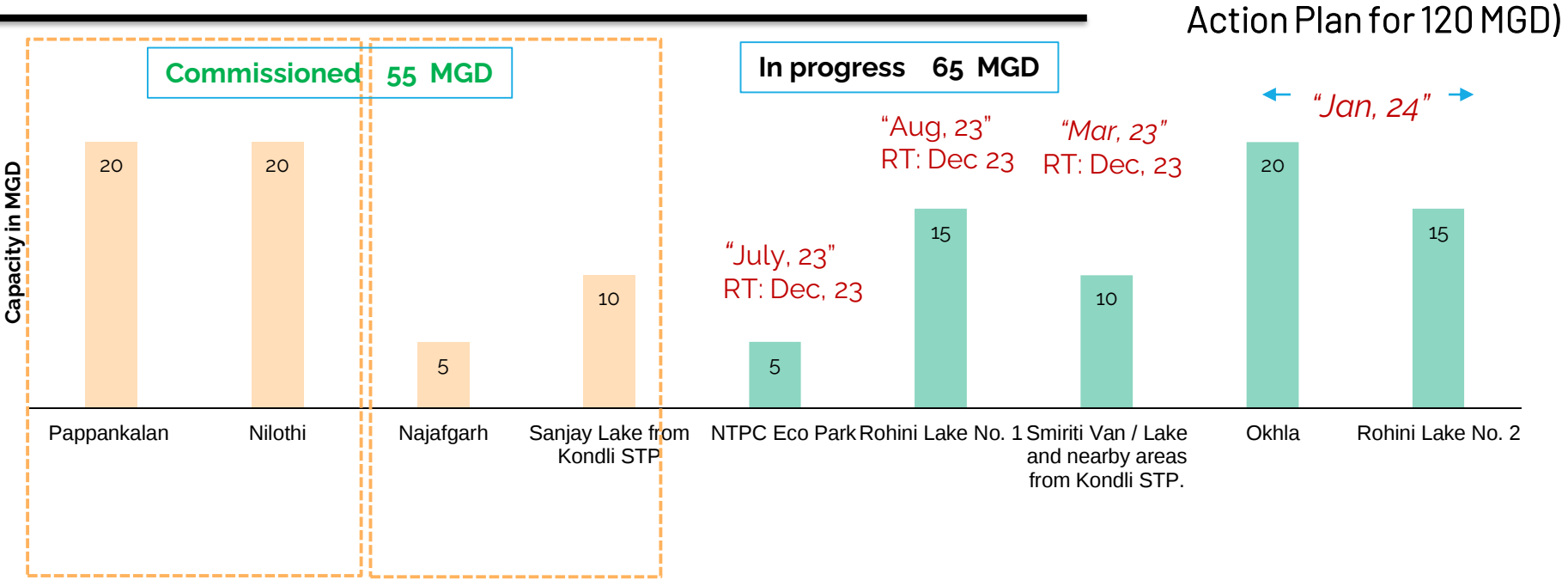


38 MGD

Gap

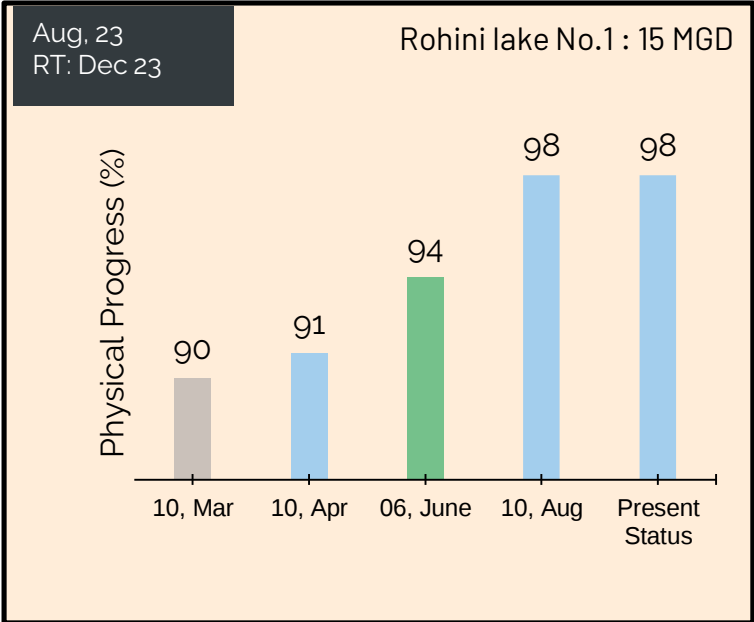
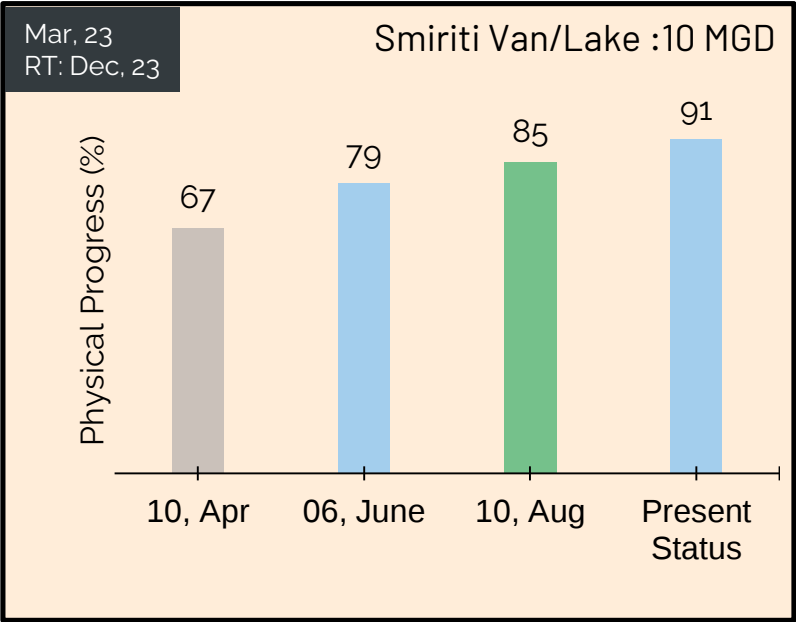


7.1. Action Plan for Utilization 120 MGD Treated Wastewater



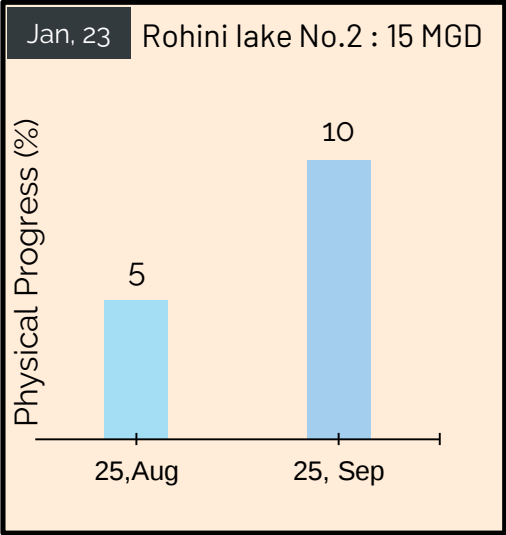
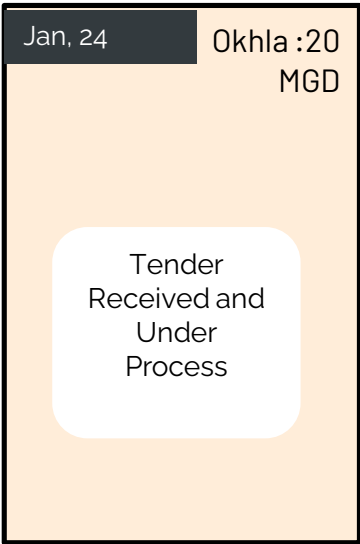
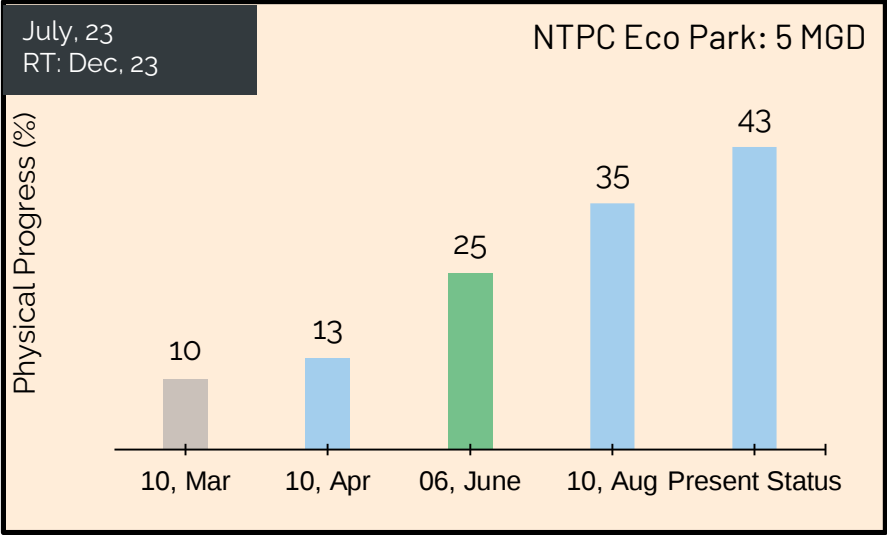
7.1. Action Plan for Utilization 120 MGD Treated Wastewater

Action Plan for 120 MGD)



7.1. Action Plan for Utilization 120 MGD Treated Wastewater

Action Plan for 120 MGD)



7.1. Action Plan for Utilization 120 MGD Treated Wastewater

(MOM 6th HLC)

Chief Secretary directed DPCC to obtain the list of 83 Parks from DDA and get these parks mapped on Delhi Map through GSDL

Mapped prepared by GSDL of 83 Parks from DDA

7.3. Froth / Foam formation in river Yamuna (Chhath Puja : 17-20 Nov)

Reasons

- **Phosphates & Detergents/Surfactants** present in Waste Water [from House Hold & industrial discharges (Dyeing etc)]
- **Ammonical Nitrogen** (from untreated sewage & fertilizers).

Main Location

D/S of Okhla Barrage (due to **turbulence caused by fall of water** from Okhla Barrage)

Solution

- Complete treatment of sewage by Delhi, Haryana & UP
- Prevention of discharge containing **Phosphates, Detergents/Surfactants & Ammonical Nitrogen**
- Rescheduling of **Cleaning of Agra Canal** prior to Chhath Puja
- Control over flow regulation through opening of Gates of Okhla Barrage particularly during Chhath Puja



Action taken by DPCC for prevention / minimising the Froth / Foam formation in river Yamuna

Letters & Reminders in 2020 & 2021 followed by DO Letters on 05.01.2022 & 22.03.2022 issued to Irrigation and Water Resources Department, UP for necessary action including following :

- (i) Removal of water hyacinth from pondage area of Okhla Barrage.
- (ii) To provide gentle slope at Okhla barrage for smooth flow to avoid turbulence at the downstream.
- (iii) Gates of the barrage should be opened in such a manner that free fall of discharge is prevented.
- (iv) Arrangements of smooth discharge spill way provision for smooth discharge instead of vertical fall at Okhla Barrage to be examined. Hydraulic Experts may be consulted in this regard.
- (v) Change in cleaning schedule of Agra canal (being maintained by Irrigation Department of UP) to avoid excessive Foam / Froth formation at D/S of Okhla Barrage during Chattha Puja.
- (vi) Opening and closing of gates of Okhla barrage should be regulated in consultation with concerned Depts. of GNCT of Delhi (IFCD & DJB)

Action taken by DPCC for prevention / minimising the Froth / Foam formation in river Yamuna

- Letters & Reminders in 2020 & 2021 followed by DO Letters on 05.01.2022 & 22.03.2022 issued to HSPCB) & UPPCB for up-gradation of STPs and treatment of Untreated Sewage / Waste Water to meet standards of BOD:SS<10:10 mg/litre with bio nutrient removal and to ensure that no discharge of Untreated sewage / Waste Water into river Yamuna through drains.
- A Joint Committee comprising of NMCG, UYRB, UP Irrigation Deptt. DJB , IF&CD & DPCC was constituted by NMCG vide Office Memorandum Dated 13.10.2022 to oversee and coordinate efforts being made by all concerned agencies to control / minimize froth formation D/s of Okhla barrage in River Yamuna during Chhath Puja in 2022.
- Meeting of the committee was held on 21.10.2022.
- As decided, DJB sprayed anti surfactants at the downstream of Okhla Barrage 2- 3 days before Chattha Pooja in 2022 due to which Foam / Froth Formation was minimal.

Directions of DPCC in respect of Soap & Detergents

Following Directions under Section 33 (A) of the Water Act, 1974, were issued by DPCC on 14.06.2021 :

- (i) Sale, Storage, Transportation & Marketing of Soaps & Detergents not conforming to revised BIS Standards shall be completely prohibited in NCT of Delhi.
- (ii) All concerned Deptts. including Municipal Corporation / Local Bodies, Civil Supplies Department and District Administrations having control over Shops and other Establishments (Suppliers, Stockiest, Transporters etc.) having Sale, Storage, Transportation and Marketing facilities for Soaps and Detergents in NCT of Delhi shall ensure compliance of directions at (i) above through strict vigil and surprise checks on such establishments.

Public Notice was also issued on 17.11.2021 :

Najafgarh Jheel (Environmental Management Plan)



Najafgarh Jheel (Environmental Management Plan)

The Hon'ble Tribunal on 21.01.2022 disposed of the matter with following directions:-

"Further action of preparing integrated EMP by the MoEF&CC be taken and till it is done, EMPs prepared for rejuvenation and protection of the lake be enforced by the State of Haryana and the NCT Delhi. Wetland (Conservation and Management) Rules, 2017 be strictly followed" and constituted Inter Ministerial Expert Group in GOI



Najafgarh Jheel (Environmental Management Plan)

- EMP broken into action points and circulated to eight stakeholder departments on 02.03.2022 for ground actions.
- Hon'ble Tribunal further on 16.02.2023 in related cases disposed of the matter with following directions:-

"...that since issue of control of pollution of drains and water bodies impacting Yamuna is now being dealt with in Delhi by a high level Committee headed by L.G. and issue of rejuvenation of Najafgarh Lake is integral to rejuvenation of Yamuna, the same can also be dealt with by the same Committee as far as Delhi is concerned and by the Chief Secretary, Haryana for the areas in Haryana".

- Civil Appeal No. 4100/2023 filed in Hon'ble Supreme Court of India against final order dated 16.02.2023 passed by Hon'ble NGT in Execution Application - disposed off on 31.07.2023 by Hon'ble SCI with directions that the matter be dealt with by existing high level Committee.

Najafgarh Jheel (Environmental Management Plan)

Departments	EMP Actions
1. IFCD	1. Hydrological assessment to determine water sediment, GW recharge, critical siltation. [IM]
2. Forest	2. Species inventory, creation of interpretation center, education of visitors . [LTM]
3. Delhi Jal Board	3. In-situ treatment of inflowing drains. [MTM]
4. Municipal Corporation of Delhi	4. Desilting of 6 inflowing drains [MTM]
5. DPCC	5. Water quality monitoring [Data Needs]
6. Power Department	6. Relocating flow obstructions-power sub stations. [MTM]
7. Development Department	7. Initiatives towards organic agriculture. [MTM]
8. Revenue	8. Najafgarh Wetland Committee to oversee compliance with extant regulations , & to formulate a land acquisition model for submerged land near Najafgarh Jheel. [MTM]

Najafgarh Jheel (Environmental Management Plan)

Following requests from IFCD Department, GNCTD:-

- (i) Road Widening on the existing road.
- (ii) Deposition of silt extracted from Najafgarh Jheel filled around road on embankment.

EMP says :

- Providing alternate road connectivity to the settlements at the two ends of the Najafgarh Jheel, thus reducing vehicular traffic on embankment especially during peak migration season of waterbirds.
- Commissioning hydrological assessment to determine water sediment, and nutrient fluxes; groundwater recharge; and critically silted up areas needing desiltation.

Decision Taken in 4th Meeting

4th MoM

Hon'ble Lt. Governor directed IFCD to explore the solar power generation along the Najafgarh Drain by providing pillars on its Banks to install Solar Panels. Chief Secretary suggested that Power Department Solar Corporation of India can be involved for exploring the suitable options / funding for Solar Power Generation.

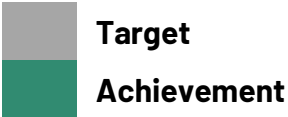
- Survey of Najafgarh Drain from Dhansa to Ambrhai done by SECI and I&FC on 01.08.2023.
- Site from Dhansa to Ghummanhera in length of 6 Km is under consideration for Installation of solar panel on right bank of Najafgarh Drain.
- Meeting of I&FC, Power, BSES done on 18.08.2023 to know nearest grid, BSES assures SEBI to provide updated information on connectivity feasibility along with distance.
- Site visit held on 05.10.2023, to finalise grid feasibility out of 06 pockets initially submitted, 05 MW electricity generation is expected.
- SEBI to submit pre feasibility before starting of work.



Summary of progress in projects (Oct 2023)

Desilting (KM)	Trapping of 70 sub Drains	Sewerage Network to UAC-1052	Connection of 81 JJ Clusters To Sewerage Network	Reuse of Treated Water (MGD)	Flood Plain Regulations DDA's Projects (Ha)	Encroachment Removal in DDA Projects (Ha)
94.93 60.516	56 48	338 241	81 20	60 55	630 83 % 5 Projects (Civil Progress)	48.35 14.65 4 Projects

Timeline: 31st Oct, 23





Way Forward

S.No.	Action Point	Intervention required
1	Allocation of Land by DDA/Revenue for construction of New DSTPs	DDA- 08 parcels Revenue- 04 parcels to allot land in all pending cases by this month.
2	Desilting of Sewer	To achieve target : 03 month after withdrawal of monsoon in Delhi.
3	Sewerage network in 117 Unauthorized Colonies where it has to be laid along with DSTPs	Expedite tender process to achieve revised targets of Dec, 2024
4	Utilization of Treated Wastewater	Smiriti Van/Lake :10 MGD, NTPC Eco Park: 5 MGD, Rohini lake No.1 : 15 MGD



Way Forward

S.No.	Action Point	Intervention required
5	Lagging Projects requiring immediate attention	1. Construction of New STP at Okhla (RT : March, 2024). 2. Upgradation of Rithala Phase -II 3. Restoration Projects ▪ Kalindi Aviral (Part B) ▪ Asita East (Part B) ▪ Amrut Bio Diversity Park (Part A and Part B) ▪ Qudsia Ghat ▪ Yamuna Vanasthali 4. Encroachment Removal ▪ Amrut Bio Diversity Park ▪ Yamuna Vanasthali ▪ Eco tourism area ▪ Kalindi Aviral

Department of
Environment, GNCTD



Delhi Pollution
Control Committee



Thank you

