NGT MATTER

By Special Messenger / Email

DELHI POLLUTION CONTROL COMMITTEE
DEPARTMENT OF ENVIRONMENT, GOVT. OF NCT OF DELHI
5th FLOOR, ISBT BUILDING, KASHMERE GATE, DELHI-110006
visit us at : http://dpcc.delhigovt.nic.in

F. No. DPCC/WMC-II/MPR/OA 673/2020/ 5440 - 5443 **Dated:** 20-10-2023

To,

The Secretary,
Ministry of Jal Shakti, Govt. of India,
Shram Shakti Bhawan,
New Delhi- 110001

Subject – Monthly Progress Report of Govt. of NCT of Delhi for the Month of September, 2023 w.r.t Orders Dated 06.12.2019, 29.06.2020, 21.09.2020 & 22.02.2021 in OA No. 673 / 2018 in the matter of News item published in 'The Hindu' Authored by Shri Jacob Khoshy Titled "More river stretches are now critically polluted: CPCB"

Sir,

Please find enclosed herewith Monthly Progress Report of Govt. of NCT of Delhi in the Format of NMCG for the **Month of September, 2023** for Rejuvenation of River Yamuna (Priority -I Stretch) w.r.t Orders Dated 06.12.2019, 29.06.2020 21.09.2020 & 22.02.2021 in OA No. 673 / 2018 in the matter of News item published in 'The Hindu' Authored by Shri Jacob Khoshy Titled "More river stretches are now critically polluted: CPCB".

1st Monthly Progress Report of Govt. of NCT of Delhi was submitted vide letter dated 14.02.2020 & last Monthly Progress Report for the month of August, 2023 was submitted vide letter dated 11.09.2023.

Yours Sincerely,

Enclosures: As Above

(Dr.K.S.Jayachandran)
Spl. Secy (Env) cum
Member Secretary, DPCC

Copy to:

1. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi-110032.
2. The Staff Officer to Chief Secretary, 5th Floor, Delhi Secretariat, I.P. Estate, Delhi-110002
3. PS to Chairman, DPCC.

(Dr.K.S.Jayachandran)
Spl. Secy (Env) cum
Member Secretary, DPCC

National Mission for Clean Ganga
Format for Submission of Monthly Progress Report in the NGT Matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of NCT of Delhi

Monthly Progress Report of Govt. of NCT of Delhi for the Month of September, 2023

Overall Status of the State:

I. Total Population: Urban Population & Rural Population separately

	Population as per Census in 2011 (in Lakh)	Population in 2023 (Approx. Estimated) (in Lakh)
Urban Population	163.68899	210
Rural Population	4.19042	
Total	167.87941	210

II. Estimated Sewage Generation (MLD) : 3600 MLD (792 MGD) (80 % of 990 MGD Water Supply)

III. Details of Sewage Treatment Plant:

- Existing No. of Operational STPs of DJB : **35** STPs (at 20 Locations)
  Installed Treatment Capacity of 35 Operational STPs: **3032 MLD (667 MGD)**
  (84.2% of estimated sewage generation)
- Capacity Utilization of existing STPs **: 2500 MLD (550 MGD September, 2023)**
  (69.4 **%** of sewage Generation)
- MLD of sewage being treated through Alternate technology : Nil

• Gap in Treatment Capacity	: **568.3 MLD (125 MGD)** [792 – 667MGD] **(15.8 %)**
• Gap in Treatment	**: 1100 MLD** (242 MGD) [792 – 550 MGD] **(30.6 %)**
• No. of Operational STPs	: **37** (Refer Annexure-1)
• No. of Complying STPs	: 14 w.r.t. Standards prescribed by DPCC (BOD/TSS: 10/10 mg/l) 35 [w.r.t. Design Parameter]
• No. of Non-complying STPs	**: 23** (Letters are issued regularly to DJB for taking rectification measures to meet the prescribed standards).
	Following 10 STPs (Total 185 MGD Capacity) are designed for BOD : TSS 10 :10 mg/l **1.** Pappankalan Phase II (20 MGD) **2.** Nilothi Phase II (20 MGD) **3.** Delhi Gate Phase II (15 MGD) **4.** Kapashera (5 MGD) **5.** Chilla (9MGD) **6.** Common Wealth Games Village (1 MGD) **7.** Coronation Pillar New STP (70 MGD) **8.** Kondli STP Phase-I (10 MGD) **9.** Kondli STP Phase-III (10 MGD) **10.** Kondli STP Phase-II (25 MGD)
	Standards prescribed by DPCC for STPs of DJB in Delhi as per the directions of CPCB (More Stringent than prescribed by MoEF&CC) : *(i) pH - 6.5 - 9.0 (ii) TSS ≤ 10 mg/l (iii) BOD ≤ 10 mg/l (iv) COD ≤ 50 mg/l (v) Ammonical Nitrogen ≤ 5mg/l (vi)Total Nitrogen (N-Total) ≤ 10 mg/l (vii) Phosphate (PO_4 - P)≤ 2 mg/l(viii) Fecal Coliform(FC) (MPN/100ml) < 230*

- **Sewage Treatment Capacity Augmentation Plan of Delhi to meet the Gap and Accommodate future Increase in Sewage Generation:**

  Govt. of NCT of Delhi is primarily working on following 4 Sectors for augmenting the sewage treatment capacity in Delhi and details are given in following Table:

  (i) Rehabilitation of existing 3 STPs at Kondli Ph-II & Rithala Ph-I and Yamuna Vihar Ph -II.
  (ii) Upgradation and increasing capacity of remaining 18 existing STPs
  (iii) Construction of 3 New STPs at Okhla, Delhi Gate and Sonia Vihar
  (iv) Construction of 40 DSTPs [26 DSTPs at various locations of Delhi and 14 DSTPs in Najafgarh Drainage Zone]

Rehabilitations of existing STPs and construction of New STPs/DSTPs

[Present Treatment Capacity: 667 MGD (37 STPs)]

S.No	Name of STP	Capacity Addition (in MGD)	Timelines
	Sewage Treatment Plants		
1	**Coronation Pillar (New STP) of 70 MGD Capacity (Completed and Commissioned)** The Coronation Pillar STP is State of Art STP with latest parameters of BOD/TSS: 10/10 mg/l including removal of Nitrogen and Phosphorus along with power generation through Bio Gas. Salient features of the STP.	-	**Completed and commissioned on 15.03.2022.** Additional capacity of 40 MGD created by commissioning of this STP has already included in total capacity of existing STPs (632 MGD).
2	**Okhla (New STP) of 124 MGD Capacity (Under Construction)** [Physical Progress - **93%** (as on 06.10.2023) Progress in Month of September: 0.8% The new Okhla STP will be Asia's largest STP with State of Art Technology with latest parameters of BOD/TSS: 10/10 mg/l including removal of Nitrogen and Phosphorus along with power generation through Bio gas. The plant will use solar energy based sludge drying process to produce class A pathogen free sludge.	**30**	**March, 2024** (EarlierTimeline June,2023) (Liquid Line to be commissioned by December ,2023)
3	**Sonia Vihar (New STP) of 7 MGD Capacity (Under Construction)** [Physical Progress - **73%** (as on 06.10.2023) Progress in last month : 6.03%	**07**	**December, 2023** (Earlier Timeline September, 2023)
4	**Delhi Gate (New STP) of 10 MGD Capacity** (Land to be allotted by DDA / MOHUA) DO letter dated 13.04.2023 sent by Chief Secretary, Delhi to MoHUA. LASC meeting held on 26.04.2023 in which it is agreed to hand over the requisite land to DJB. MoHUA vide letter dated 20.07.23 requested DJB to remove unauthorized structure from the proposed	**10***	**12 Months after allotment of land (By March, 2024)**

	land/plan. MoHUA vide letter dated 14.09.23 requested to accept allotment of land by DJB "as is where is" basis. Removal of structure is required for construction of STP.		
5	**Kondli Phase- II of 25 MGD Capacity** [Physical Progress: - 95.77 % (as on 06.10.2023) Progress in Month of September : 0.67 %	**-**	**October, 2023** (Earlier Timeline June, 2023) **(Under test and trial run and included in 667 MGD capacity)**
6	**Rithala Phase – I of 40 MGD Capacity (Under Construction for Rehabilitation & Upgradation)** [Physical Progress: 93.41 % (as on 06.10.2023)	**40**	**October, 2023** (Earlier Timeline June, 2023)
7.	**Yamuna Vihar Ph-II of 40 MGD Capacity (From 10 MGD to 15 MGD, Under Construction for Rehabilitation & Upgradation, Presently in operation)** [Physical Progress: 85%] (as on 06.10.2023) Progress in Month of September : 15%	**05**	**December, 2023**
	Total Addition in Capacity of STPs	**93**	
Status of 40 New Proposed Decentralised Sewage Treatment Plants (DSTPs) [92MGD]			
A. 26 DSTPs of total Capacity of 60 MGD			
18 DSTPs (Land already allotted)			29 DSTPs (57.57MGD) – By December, 2024 11DSTPs (34.43 MGD) –12 Months after allocation of land
08 DSTPs (Land is yet to be allotted**)			
B. 14 DSTPs in Najafgarh Drainage Zone of total Capacity of 32 MGD			
11 DSTPs (Land already allotted)			
03 DSTPs (Land yet to be allotted **)			
Upgradation / Augmentation of Remaining 18 Existing STPs of total Capacity of 113.5 MGD		**113.5**	December,, **2024**
Total Addition by December, 2023		**52**	
Total Addition by June, 2024		**147**	
Total Addition by December, 2024		**297.5**	
Grand Total Capacity by December, 2024		**667 + 297.5 =964.5MGD#**	

Total Capacity of STPs by December, 2023 - 719 MGD [667 MGD + 52 MGD]
Total Capacity of STPs by June, 2024 - 814 MGD [667 MGD + 147 MGD]
Total Capacity of STPs by December, 2024 - 964.5 MGD [667 MGD + 297.5 MGD]
 # Will be sufficient to treat the sewage of 924.8 MGD (80% of 1156 MGD Water Supply) in future.
* Timelines are subject to availability of land from DDA/ MOHUA.
**Timelines are subject to availability of land from Land Owning Agencies (DDA/Revenue Deptt.)
All the STPs (existing as well as new) with total capacity of 964.5 MGD are targeted to achieve standards prescribed by DPCC i.e BOD / TSS: 10/10 mg/l by December, 2024.

Details of Each Existing STP of Delhi Jal Board in Delhi

S. No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
	Details of Each Existing STP of Delhi Jal Board in Delhi and Compliance status for the month of **September, 2023 is at Annexure-1**				

Upgradation/ Augmentation of Existing STPs

(Interventions –for Existing STPs to achieve BOD: TSS 10/10)

[Integrated Fixed Film Activated Sludge (IFAS), Increased Aeration, Disc Filter, UV Disinfection & Odour Control]

S. No.	Name of STP	Existing Capacity (In MGD)	Enhanced Capacity (In MGD)	Status (Cumulative Progress as on 06.10.2023)	Timelines
1	Rithala Phase –II	40	40	95%	Oct, 2023 (Earlier Time line March,23)
2	Kondli Phase-IV	45	45	62.5 %	December, 2023 (Earlier Timeline Oct, 23)
3.	Pappan Kalan Phase- I	20	30	21%	December, 2023 (Earlier Timeline March, 2024)
4.	Nilothi Phase –I	40	60	21%	
5.	Najafgarh	5	5	27%	
6.	Keshopur Phase –II	20	20	27%	
7.	Keshopur Phase-III	40	60	27%	
8.	Rohini Sector 25	15	25	25%	
9.	Narela	10	15	25%	
10.	Coronation Pillar Phase -I & II	20	20	25%	
11.	Coronation Pillar Phase –III	10 (Plant is operational)	10	25%	
12.	Okhla Phase- V	16	16	The case has been put on hold due to scarcity of funds.	December, 2024(Earlier Timeline January, 2024)
13.	Mehrauli	5	7.5		
14.	Ghitorni	5	7.5		
15.	Vasant Kunj	5	7.5		
16.	Yamuna Vihar Phase– I	10	15	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.	December, 2024(Earlier Timeline June, 2024)
17.	Keshopur Phase- I	12	18	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.	
	Total	**343**	**456.5**	Addition of 113.5 MGD by December, 2024.	

Details of Proposed STPs of Delhi Jal Board in Delhi

S. No.	Location	Capacity of STPs proposed (in MGD)	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1.	26 Decentralized STPs at various locations in Delhi (Earlier 42)	60	• Requirement of land reassessed • No. of DSTPs reduced from 42 to 26 • Land allotted at 22 locations • For balance DSTPs matter is being pursued with land owing agencies. • At one location of Naya Bans, part of land is allotted and for balance matter is being pursued with land owning agencies. Tenders are being invited for DSTPs /STPs where land has been allotted.	Out of 40 DSTPs, tenders have been received / invited / being invited in case of 32 DSTPs. Out of balance 8 DSTPs, estimate for 2 DSTPs are under approval & land for 6 DSTPs is yet to be allotted by DDA / Revenue Deptt. and expected to be completed after land allotment.
2.	14 (9+5) STPs in Najafgarh Drainage Zone	32	The work of 9+5 DSTP has been rescinded. The scheme under 9+5 DSTP has been reframed to accommodate the maximum nos. of unauthorized colonies in the 12 parcels of land already in possession of DJB. The status of construction of DSTPs and laying of sewer line is as under: • The work of laying of Sewer lines in **11 GOCs** of Jafarpur, Galibpur Sarangpur, Kazipur, Shikarpur, Khera Dabar, Kanganheri, Goyla Vihar, Kair, Mitraon and Dichaon is in progress. • Tender for laying of Sewer lines in **1 GOC** Hasanpur has been received and is under process of award. • Tenders for construction of DSTPs at 7 locations are being re-invited and at 5 locations, where land is available, have been invited and is under process of approval. • Land for construction of DSTP for Tajpur & Tikri Kalan GOC, are not available and under litigation. The tender for laying of Sewer lines in these **2 GOCs** and associated DSTPs will be invited on availability of the land.	

Status of Interceptor Sewer Project (ISP) of Delhi Jal Board

Total flow to be trapped	**Provision of trapping made during the month of Feb, 2023**	**Cumulative Status as in September, 2023 Provision of trapping made**	**Time line for completion of work**	**Remarks**
1100.86 MLD **(242 MGD)**	-	1082 MLD **(238 MGD)**	Completed	About 1045 MLD (230 MGD) is being trapped and treated out of 1082 MLD (238 MGD). Entire flow shall be trapped & treated by Sept, 2023 after rehabilitation of Rithala and Kondli STPs under YAP-III.

Status of Sewerage Network in Unauthorized Colonies (As provided by DJB)

S. No	Description	Cumulative Status as in September, 2023 (No.)	Timelines / Remarks
1	Sewer line laid and commissioned	976	Laid and commissioned
2	Work of sewer network is in Progress	359	Nov, 2024
3	Colonies where NOC is awaited / O Zone	161	The work shall be taken up after NOC from Forest Deptt./DDA.
4	Colonies where sewerage network is to be laid along with Decentralized STPs	303	The work shall be taken up after allotment and passion of land for DSTPs by DDA /Revenue Deptt.
	Total	**1799**	

Sewage and Faecal Sludge Management (Septage Management)

"Delhi Water Board Septage Management Regulation 2018" were notified by the Urban Development Department, GNCTD on **12.11.2018 (published in Gazette on 21.11.2018)** and necessary action is to be taken by Delhi Jal Board, District Magistrates and Local Bodies / Municipal Corporations as per the provisions of the said Notification.

DJB has registered 160 licensed vendors (Emptiers) [reduced from 190 vehicles to 160 vehicles in view of orders of the Chief Secretary dated 27.01.2023] for collection and transportation of sewage from the septic tanks and has identified 86 designated SPS/ STPs for receiving the Septage.

Agency	No of Vehicles Authorised by DJB (As on 30.09.2023)	No. of Functional SPSs for collection of septage from vendors	Septage collected & Treated in September, 2023	Septage treated by DJB (As on 30.09.2023)
DJB	**160**	**86**	**4.98 Crore Litres**	**171.28 Crore Litres**

On an average 16.60 Lakh litres septage per day was collected and treated at STPs of DJB in September, 2023. Action Taken Report of District Magistrates w.r.t. "Delhi Water Board Septage Management Regulations, 2018" for collection, transportation and disposal of waste of septic tanks (Septage) as on 05.10.2023 is briefed below.

- 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 - Rs. 15.79 Lakh
- Total Amount of Environmental Compensation Received - Rs. 15.29 Lakh

Joint Committee headed by Hon'ble Justice (Retd.) Sh. S. P. Garg and having members from CPCB, DPCC & DJB constituted by Hon'ble NGT vide Order Dated 22.04.2022 in OA No. 365 / 2021 in the matter of "Shamsher Singh Vs Govt. of NCT of Delhi" has submitted its Interim Progress Report Dated 17.12.2022 to the Hon'ble Tribunal. Necessary action is being taken as per the directions of the Hon'ble Tribunal in the order dated 21.12.2022 in the said matter.

"Vide order dated 27.01.2023, a Committee under the chairmanship of Divisional Commissioner, Revenue Department and consisting of CEO, DJB, Commissioner MCD as member and Secy (UD),

GNCTD as member cum convener has been constituted to revisit the "Delhi Water Board Septage Management Regulations, 2018" to make them more effective enforceable.

Report of the committee of the meeting held on 28.0.2.2023 along with proposed amendments in the existing "Delhi Water Board Septage Management Regulation 2018" has been approved by DJB in its Board meeting on 04.05.2023 and the matter is under process.

DPCC has also issued directions u/s 33 (A) of the Water Act, 1974 on 27.03.2023 including imposition of penalties as give below:
(a) Penalty for deposit of septage by unauthorized (unlicensed) entities shall be Rs. 50,000/- plus confiscation of vehicle.
(b) Penalty for disposal of Septage at place other than the designated places by authorized licensee shall be Rs. 50,000/- per violation.
(c) Penalty on a person who uses the services of unlicensed vendors/ vehicle for discharging the septage shall be Rs. 10,000/- per violation.

An officer not lowers than the rank of Nayab Tehshildar in DM offices & Sub Inspector in Delhi Police and Sanitary Inspector in MCD shall be competent to impose penalty.

Copy of the directions issued by DPCC on 27.03.2023 has already been provided to Ministry of Jal Shakti vide Monthly Progress Report of April, 2023.

Tapping of Drains:

There are 22 drains which are out falling into river Yamuna in the Delhi. Out of 22 Drains, 09 drains have been tapped, following two drains are partially tapped

(i) **Delhi Gate Drain** - STP of 10 MGD is proposed for treating the remaining Flow. MoHUA vide letter dated 14.09.2023 has requested DJB to accept allotment of land by DJB "as is where is" basis. Removal of structure is required for construction of STP. Land requested by DJB is yet to be allotted by DDA / MoHUA)

(ii) Sen Nursing Home Drain –

- Sen Nursing Home Drain 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 is under construction and expected to be commissioned by June ,2024.
- Timeline for trapping of this drain is June, 2024.

Two Drains i.e. Najafgarh & Shahdara are large drains and technically not feasible to trap whole drain however these drains are included in the Interceptor Sewer Project where substantial flow of sub-drains under their command areas has been / will be tapped and treated after tapping of sub drains.

Flow is yet to be tapped / diverted to Sewer / STPs for treatment in case of 09 drains and the status is briefed in following Table:

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 31.8 MLD (7 MGD) STP for tapping and treating waste water of Sonia Vihar Drain is under progress (Cumulative Progress about 73% as on 06.10.2023) and revised timeline for completion is December, 2023.

2	ISBT Drain (Qudsia Bagh / Mori Gate Drain)	MCD	Waste water of this drain will be carried to Nehru Vihar SPS by laying a rising main from proposed SPS at ISBT Kashmere Gate for treatment in the Coronation Pillar STP. Work order has been issued on 23.12.2022 & Work is under progress (Cumulative Progress was about 31 % as on 06.10.2023) and likely to be completed by March, 2024 (Earlier Timeline was Sept, 2023).
3	Barapulla Drain	IFCD	Flow is proposed to be diverted by laying of interceptor sewer through micro tunneling for conveying to Okhla STP for treatment. Work is under progress (Cumulative Progress was about 51% as on 06.10.2023) and to be completed by December, 2023 (Earlier Timeline Sept, 2023).
4	Maharani Bagh Drain	MCD	Work of tapping of 9-10 MLD flow in C.V. Raman Marg Trunk sewer has been completed. The balance flow of about 20 MLD will be tapped in the proposed scheme of Barapullah Drain for treatment in Okhla STP. Work is under progress (Cumulative Progress was about 51 % as on 06.10.2023) and to be completed by March, 2024 (Earlier Timeline was Sept, 2023).
5	Kailash Nagar Drain (On Eastern Bank of Yamuna)	MCD	DJB has requested MCD to stop unchecked waste water being pumped in this drain finally discharging effluent into river Yamuna.
6	Shastri Park Drain (On Eastern Bank of Yamuna)	MCD	Partially tapped by DJB, finally going into Buland Masjid SPS. Balance discharge of storm water Pump House will be tapped by MCD.
7	Jaitpur Drain	MCD	The flow in this drain will be tapped by DJB in the Sewerage System being laid in Batla House Phase II scheme in the upstream of this drain.
8	Tuglakabad Drain (Kalka Ji Drain merged in this drain)	MCD	-
9	Abul Fazal Drain	MCD	The flow in this drain will be tapped by DJB in the Sewerage System being laid in Batla House Phase II scheme.

In the 5th meeting of the High Level Committee held on 09.06.2023 it was decided that I&FC Department and DJB to jointly verify the status of drains. Report is awaited.

Status of 22 Drains out falling into River Yamuna is at **Annexure -2**

IV. Details of Industrial Pollution [Industries/Units in 28 Approved Industrial Areas (Planned Industrial Areas) in Delhi] (As per the Consent Records of DPCC) (As on 20.08.2023):

- No. of Industries / Units in 28 Approved Industrial Areas : 29330
- No. of Industries / Units in 17 Approved Industrial Areas (out of 28 Approved Industrial Areas) connected with 13 CETPs : 26011
- No. of Industries / Units in 11 Approved Industrial Areas (out of 28 Approved Industrial Areas) not having CETPs (Having Individual ETPs). : 3319
- No. of Water Polluting Industries / Units in 28 Approved Indl. Areas : 1369
- No. of Water Polluting Industries/ Units in 17 Approved Indl. Areas (out of 28 Approved Indl. Areas) connected with 13 CETPs : 1097
- No. of Water Polluting Industries/ Units in 11 Approved Indl. Areas (out of 28 Approved Indl. Areas) not having CETPs (Having Individual ETPs) : 272
- Quantity of Effluent generated from the Industries / Units : 29.65 MLD

in 28 Approved Indl. Areas (Excluding White Category Industries/Units, Shops & Other Establishments not requiring Consent from DPCC)

- Quantity of Effluent generated from the Industries / Units in 17 Approved Industrial Areas (out of 28 Approved Indl. Areas) Not having CETPs (Excluding White Category Industries/Units, Shops & Other Establishments not requiring Consent from DPCC) : 25.57 MLD
- Quantity of Effluent generated from the Industries / Units in 11 Approved Industrial Areas (out of 28 Approved Indl. Areas) Not having CETPs (Excluding White Category Industries/Units, Shops & Other Establishments not requiring Consent from DPCC) : 4.08 MLD
- Quantity of Hazardous Waste generated from the Industries in TPD (including CETPs) : 11.36 TPD
- Number and total capacity of ETPs (details of Existing/ Under Construction / Proposed) : 1369 ETPs
- Compliance Status of the ETPs : -
- Number and Total Capacity of CETPs (Details of Existing/ Under Construction / Proposed) : Existing CETPs–13(List at **Annexure-3**) Capacity – 212.3 MLD (Utilization – 66.5 MLD) (31.3%) Under Construction/Proposed – Nil

Redevelopment Areas

Besides 28 Approved Industrial Areas, there are 26 Areas Notified for Re-development (non-conforming clusters of industries for redevelopment) by the Industries Department, Govt. of NCT of Delhi. Details regarding no. of industries/units in these 26 redevelopment areas are not available. Most of the industries/ units in these areas are dry and there not much water polluting industries / units in these Redevelopment Areas. List of 26 Redevelopment Areas Notified for Re-development has already been provided through Monthly Progress Report of August, 2023.

These Redevelopment Areas are lacking infrastructural facilities which are to be developed as per the norms for redevelopment of clusters of Industrial Concentration in Non-Conforming Areas as given in point no. 7.6.2.1. of MPD- 2021. The redevelopment scheme of these unplanned Industrial Areas will have to be prepared by the concerned local body / land owning agency in consultation with the Society (to be formed by the land owners). Accordingly, the redevelopment of these 26 industrial areas is to be done by concerned local body/landowning agency.

Delhi Jal Board vide Letter dated 27.12.2021 had engaged Jamia Millia Islamia University for conducting survey of Redevelopment Areas in Delhi for identifying Water Polluting Industries. Report of Jamia Millia Islamia University is awaited.

Status of Compliance and Operation of the CETPs

Town	No. of Industries/ Units (in 28 Approved Industrial Areas)	Industrial Discharge	Status of ETPs	Status of CETPs (Existing, Under Construction &Proposed)
Delhi	29330	29.65 MLD	-	Existing – 13 CETPs List along with Compliance Status of September, 2023 is at **Annexure-3** Under Construction / Proposed - **Nil** Complying - 13 Not Complying – Nil
				Brief of Action Taken by DPCC against CETPs in the past is as follows :

				• Environmental Compensation (Total EC Amount Rupees 12.05 Crores) was imposed by DPCC on the 10 CETP Societies and 2 Operators of CETPs at Narela & Bawana on 07.07.2021. • Letter issued to concerned District Magistrates for recovery of the said amount of Environmental Compensation on 27.10.2021 followed by Reminder on 12.01.2022. • CETP Societies of Okhla, SMA, Mayapuri, Mangolpuri, GTK Road, Naraina, Jhilmil & Lawrence Road (Total 8 Cases) filed Writ Petition in the High Court of Delhi against the Directions issued by DPCC on 07.07.2021 regarding imposition of Environmental Compensation. • Order / Directions have been issued by DPCC on 07.12.2022 (in case of Okhla CETP) and on 13th & 16th January, 2023 in case of Mayapuri & SMA CETPs for Deposition of Environmental Compensation of Rs. 95 Lakh, Rs.80 Lakh & Rs. 1.05 Crore respectively, for not meeting the prescribed standards in the period of Feb, 2019 to Feb, 2021 after considering the Hon'ble High Court orders. • In rest of 5 cases viz. Mangolpuri, GTK Road, Naraina, Jhilmil & Lawrence Road CETPs matter of EC imposed by DPCCon 07.07.2021 is pending before Hon'ble High Court. • For the violations in the subsequent period from March, 2021 to December, 2022, Environmental Compensation of Total Rs 6.05 Crores have been imposed by DPCC on all the 13 CETPs and Directions have been issued in this regard in the month of January, 2023. • Letters are issued regularly to the concerned CETP Societies based on the Effluent Analysis Reports of DPCC Lab for taking necessary action to ensure that CETPs meet the prescribed standards.

Common Effluent Treatment Plants (CETPs)

All the existing 13 CETPs are being monitored by DPCC Laboratory on monthly basis and Analysis Reports are placed on the website of DPCC and also conveyed to the CETP Societies/ Operator of CETPs for rectification of the deficiencies, if any, to meet the prescribed standards. Sufficient treatment capacity (212.3 MLD) is available with existing 13 CETPs for management of industrial effluent generated from 17 approved industrial areas. The units which are operational in Non-CETP Industrial Areas have individual waste water treatment facilities (ETP etc). Online Monitoring System (OLMS) have been installed on all the 13 CETPs for measuring the pH, TSS, BOD & COD at the outlet of the CETPs. OLMS are connected to servers of DPCC and CPCB.

DSIIDC had engaged CSIR-NEERI vide letter dated 05.11.2019 for providing consultancy w.r.t various issues related to CETPs including up gradation of CETPs.

NEERI carried out Overall Performance Evaluation of all the 13 CETPs in Delhi and Draft Integrated Report titled "Status, Gap Analysis and Suggestions for Improvement and Upgradation in existing 13 CETPs of Delhi" submitted to DSIIDC on 16.03.2022. Meetings were held to review the progress.

Quotations used by NEERI while preparing the estimates for the CETPs were shared with DSIIDC on 22.03.2022. A meeting was also held on 21.03.2022 with NEERI regarding cost estimation for 13 CETPs.

As per the Order dated 27.01.2023 of Chief Secretary, GNCTD issued w.r.t NGT Order dated 09.01.2023 in OA No. 21 / 2023, Out of 13 CETPs, 02 CETPs at Narela and Bawana will be upgraded by DSIIDC by December, 2023 and w.r.t other 11 CETPs DSIIDC shall discuss the issue with DJB once again to decide finally who (DSIIDC / DJB) is the appropriate authority for upgradation and O&M of these CETPs, especially after considering the fact that sewage to be treated in STPs and CETPs is of different nature and composition.

11 out of 13 CETPs are to be handed over to DJB for their upgradation and operation & maintenance.

V. Solid Waste Management:

- Total Number of Urban Local Bodies (ULBs) and their Population :3 [MCD, NDMC & DCB] Total Population – About 2.1 Crores
- Current Municipal Solid Waste Generation : **11376 TPD**

(Status of Solid Waste Management including Legacy Waste in Delhi is given at **Annexure-4)**

S. No.	Particulars	Information
1.	Number, Installed Capacity and Utilization of Existing MSW Processing Facilities in TPD (Bifurcated by type of processing e.g.Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, Decentralized, Pit Composting), Biomethanation, MRF etc.	• **Total Capacity of Existing MSW Processing Facilities (Including MRFs) - 8224.475TPD (72.3%)** • **Total MSW Processing (Fresh MSW + MRFs) - 7538.965 TPD (66.3%)** • Disposal through Compost Pits (258 No) - 549.42 TPD • Recycling through MRFs - 306 TPD • **Gap in MSW Processing Capacity - 3151.525 TPD (27.7%)** • **Gap in MSW Processing - 3837.035 TPD (33.7 %)** • Capacity of 4 Existing WTE Plants - 6550 TPD (Power generation capacity – 84 MW) • One Operational Centralised Compost Plants - 700 TPD [200 TPD at Okhla Closed due to upgradation into Bio-CNG plant of 300 TPD] • 08 Bio-methanation Plants of 5 TPD each - 40 TPD [Not Operational] • 20 Decentralized Composter Plants of 1 TPD each - 20 TPD
2.	Action Plan to bridge gap between Installed Capacity and Current Utilization of Processing Facilities (if Gap > 20%)	Not Applicable since installed capacity of Existing MSW Processing Facilities in Delhi is being utilized.
3.	No. and capacity of C&D Waste Processing Plants in TPD (Existing, Proposed and under construction)	• Existing operational C&D Waste Processing Facilities - 5 Capacity - 5150 TPD • Proposed New C&D Waste Processing Facilities - 1 Capacity - 1000 TPD **Existing operational C&D Waste Processing Facilities are located at** (i) Jahangirpuri (Burari) (2000 TPD) (ii) Rani Khera (1000TPD) (iii) Shastri Park (1000 TPD) (iv) Bakkarwala (1000 TPD) (v) Rani Khera (Mundka) (150 TPD) **Proposed C&D Waste Processing Facility (One No):** At Tehkhand Okhla of 1000 TPD capacity. However since

		land allotted by DDA is part of morphological ridge, therefore alternative site is being explored.	
4.	Total No. of Wards, No. of Wards having Door to Door Collection Service, No. of Wards practicing segregation at source	**No. of Wards** - 272 [MCD-250, DCB-08 & NDMC-14 circles] **Door to Door collection** in all wards and circles of MCD, NDMC & DCB. **Segregation of Waste** : • NDMC - 100% (in all 14 Circles) • DCB - 90 % in Civilian Area (Timeline for 100 % segregation at source – December, 2023) • MCD - 100 % (in 12 Wards) 80 - 100% (in 70 Wards) 60-80% (in 12 Wards) 40-60% (in 81 Wards) 20-40% (in 46 Wards) 10-20% (in 29 Wards) MCD has given timeline of December, 2024 for 100 % segregation of MSW at source.	
5.	Details of MSW Treatment Facilities proposed and under construction (No., Capacity and technology)	Proposed Waste Processing & Disposal Facilities in Delhi is given at **Annexure -4**	
6.	No. and Area (in Acres) of uncontrolled garbage dumpsites and Sanitary Landfills.	Name of Dumpsite	Dumpsite Area in Acres (As per Drone Survey in June, 2022)
		Ghazipur Dump Site	75.08
		Bhalaswa Dump Site	78.47
		Okhla Dump Site	62.74
7.	No. and Area (in Acres) of Legacy Waste within 1 km buffer of both side of the rivers	Nil	
8.	No. of Drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers:	22 Drains out falling into river Yamuna. I&FC Department has provided Floating Rafters in its 2 major Drains (Najafgarh & Shahdara Outfall Drains) to prevent solid waste falling into the river.	

Status of ULB wise Management of Solid Waste .

Please Refer **Annexure – 4** (Existing & Proposed Municipal Solid Waste Processing Facilities in Delhi)

VI. Bio-medical Waste Management:

- Total Bio-medical Waste Generation : **29.155 TPD** (Average of Bio-medical waste generation excluding Covid waste)
- No. of Hospitals and Health Care Facilities :**10591**
- No. of Beds with HCEs : **60344**
- Status of Treatment Facility/ CBMWTF : Treatment & Disposal through existing 2 CBMWTFs

There are following 2 CBMWTFs having Capacity of about 63 TPD for collection and Treatment of the Bio-medical waste generated from the Health Care Establishments in Delhi:

1. M/s Biotic Waste Solutions Pvt. Ltd., 46 SSI Industrial Area, G.T.Karnal Road, Delhi -110033
2. M/s SMS Water Grace BMW Pvt. Ltd., Nilothi Sewage Treatment Plant Complex of DJB, Nilothi, Delhi -110041.

Both the CBMWTFs are having Incinerators, Autoclaves & Shredders for the treatment of Bio Medical Waste collected from the Health Care Establishments in Delhi and have installed Air Pollution Control System and Online Monitoring System. Bio-medical Waste including COVID-19 waste is being dealt as per the provisions of the Bio Medical Waste Management Rules, 2016 and Guidelines issued by CPCB from time to time.

VII. Hazardous Waste Management:

- Total Hazardous Waste Generation : 4146.535 MT/year (11.36 TPD)
- No. of Industries generating Hazardous Waste : 2714
- Treatment Capacity of all TSDFs
  (There is Only one TSDF in Delhi at Bawana) : 178 TPD (Secured Landfill)
  54.79 TPD (Landfill after Treatment /Stabilisation)
  12 (Incineration)
- Average Quantity of Hazardous Waste reaching TSDFs: 44.511 TPD in September, 2023.

- **TSDF for Hazardous Waste at Bawana :**

Common Hazardous Waste, Treatment, Storage & Disposal Facility (TSDF) has been developed at Bawana in Delhi. Consent to operate under the Air & Water Acts and Authorisation under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 have been issued by DPCC to the Project Proponent on 04.03.2022 for Secured Land Fill (SLF), Incinerator and Associated Activities. TSDF is in operation.

VIII. Plastic Waste Management:

- Total Plastic Waste generation: 1105 TPD (About 9.7 % of Total MSW)
- Processing of Plastic Waste : 858 TPD (77.6 %)
- Gap in Processing : 247 TPD (22.4 %)
- Registration under the Plastic Waste Management Rules, 2016 (as amended) issued to 1831 units as briefed below:
  - Producers : 292
  - Importer : 1140
  - Brand Owner : 09
  - Plastic Waste Processor : 390

IX. Details of Alternate Treatment Technology being adopted by the State/UT:

In-situ Bioremediation / Phytoremediation of Sewage in Drains:

- Integrated Drain Management Cell (IDMC) headed by Chief Secy, GNCTD has been constituted vide order dated 17.03.2020 for remediation and management of all drains of Delhi as per the orders of Hon'ble NGT in OA No.06/2012.
- IDMC is having members from all the Drain Owning Agencies (DOAs).
- Meetings of IDMC are held and 15 Meetings have been held so far. Minutes of the last meeting (15^{th}) has already been submitted in Monthly Progress Report of March, 2023.
- DOAs have submitted / are submitting their Action Plan with time line subject to availability of fund.

Measures taken by the Drain Owning Agencies in Delhi for In-situ Bioremediation/ Phytoremediation of sewage in their drains is briefed in following table:

S. No	Drain Owning Agencies	Measures Taken / Projects	Timeline
1	MCD	• Constructed Wetland / Treatment System of 3 MLD designed by NEERI at Jheel Park for treatment of incoming drains. The treatment system is functional. • Pushp Vihar Drain (1.9 Km stretch of Chirag Delhi Drain) as pilot project. • Pilot project for Phyto / Bio-Remediation of Qudesia Nallah in 350 m length. About 20 % work completed. New proposal is under consideration similar to work carried out in Pushp Vihar Drain.	Functional Work completed. Under Planning Stage.
2	NDMC	Waste water in portion of Kushak Nallah falling under NDMC area is under Bio-remediation.	Functional
3	DCB	In-situ treatment in 6 Drains through chemical dosing since discharge is less (in the range of 1.5 MLD).	Functional
4	DDA	• Kalindi Biodiversity Park is being developed in 200 Hectares area in 6 kilometer length & 1-3 kilometer wide. • 11 Constructed Wet Lands are being developed to treat sewage. • 2 Wetlands-one at Kilokari drain (10-12 MLD) and another at Dhobighat drain (12-15 MLD) have been constructed & are functional. • The third Constructed Wet Land on Maharani Bagh drain is nearly completed. Work of 8 Constructed Wet Lands held up due to construction of high speed road of NHAI from Sarai Kale Khan to Faridabad.	02 out of 11 Constructed Wet Lands are Functional
5	PWD	• Bio-remediation Plant of 2.5 MLD capacity has been installed at Chattarpur. • Work of installation of Bio-remediation Plant of 0.75 MLD capacity between main gate of Chattarsal Stadium and Azadpur Metro Station is under progress. • Bio-remediation of remaining drains of PWD are not feasible due to space constraint and smaller size of drains.	Completed
6	I&FCDeptt	As per the feasibility report of the consultants, Phyto / Bio remediation is not feasible in the two major drains (Najafgarh drain and Shahdara drain) under I&FC Dept. due to heavy discharge , land constraint etc.	
7	DSIIDC	Bioremediation/Phytoremediation is not possible for drains since smaller in size.	

X. Identification of Polluting Sources including Drains contributing to river pollution and action as per NGT order on in-situ treatment:

Refer Information provided at **IX** regarding In-situ Bioremediation / Phytoremediation of Sewage in Drains.

Prevention of Dumping of Solid Waste in Drains:

Directions issued by Chief Secretary vide order dated 09.01.2019 and Urban Development Department, GNCTD vide order dated 15.01.2019 for prevention of the dumping of solid waste in the drains are to be complied by all the Drain Owning Agencies in Delhi. The matter is being coordinated by the Urban Development Department, GNCTD.

XI. Details of Nodal Officer appointed by Chief Secretary in the State / UT:

- Chief Secretary, GNCTD is taking meetings regularly with the concerned departments to review the progress w.r.t. various projects and matters related to control of pollution in river Yamuna in Delhi including below mentioned NGT cases.
- Vide order dated 09.01.2023, Hon'ble NGT has constituted a High Level Committee (HLC) of concerned authorities in Delhi with the Chief Secretary, Delhi, as Convener; and consisting of Secretaries of Irrigation, Forest & Environment, Agriculture and Finance, GNCTD ; CEO, DJB; Vice Chairman, DDA; Secy or his nominee (not below the rank of Addl. Secy), Ministry of Agriculture, GoI; DG Forest or his nominee (not below the rank of DDG), MoEF&CC, GoI; Secy, MoJS or his nominee not below the rank of Addl. Secy, Secy, MoEF&CC or his nominee not below the rank of Addl. Secy, DG NMCG and Chairman CPCB. The Committee is to deal with all issues as set out in order dated 27.01.2021 of Hon'ble NGT in OA No. 06/2012 in the matter of Manoj Mishra Vs. Union of India & Ors and other ancillary matters.
- High Level Committee has prepared Department wise detailed Action Plan for Rejuvenation of river Yamuna including Nodal Officer for each project after its first meeting on 20.01.2023 and submitted to Hon'ble NGT on 31.01.2023. Copy of the said Action Plan has already been submitted to Secretary, Ministry of Jal Shakti and DG NMCG. 2nd, 3rd, 4th, 5th, 6th and 7th meetings of the HLC were held on 14.02.2023, 14.03.2023, 21.04.2023, 09.06.2023, 10.08.2023 & 10.10.2023 respectively.

XII. Details of Meetings carried under the Chairmanship of Chief Secretary in the State / UT:

The matter related to control of pollution in river Yamuna is being monitored by Chief Secretary through various meetings e.g. meetings of Integrated Drain Management Cell (IDMC), Meetings on the Interceptor Sewer Project (ISP) and Meetings related to above mentioned NGT cases related to control of pollution and rejuvenation of river Yamuna in Delhi including above mentioned order dated 09.01.2023 in OA No. 21 / 2023.

Meetings of High Level Committee were held on 20.01.2023, 14.02.2023, 14.03.2023, 21.04.2023, 09.06.2023, 10.08.2023 & 10.10.2023 w.r.t NGT Case OA No. 21 / 2023 and Department wise detailed Action Plan for Rejuvenation of river Yamuna has been submitted to Hon'ble NGT on 31.01.2023.

Status Reports were also filed in the aforementioned matter before the Hon'ble National Green Tribunal on 31.01.2023, 05.07.2023, 16.10.2023.

XIII. Latest Water Quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river :

Water Quality of River Yamuna at 8 Locations for the samples collected by DPCC Water Laboratory in the Month of September, 2023 is at **Annexure-5.**

Water Quality of major Drains for the samples collected by DPCC Water Laboratory in the Month of September, 2023 is at **Annexure-6.**

Ground Water Quality near the 3 Dumpsites (Bhalaswa, Ghazipur & Okhla) and Engineered Sanitary Landfill at Bawana for the samples collected in December, 2021 has already been provided with the Monthly Progress Report of March, 2022.

XIV. Ground Water Regulation:

Ground water extraction and management in NCT of Delhi is regulated as per the provisions of the Notification Dated 12.07.2010 issued by Environment Department, Govt. of NCT of Delhi. As per the said Notification, it is mandatory to take permission of the Competent Authority, i.e., DJB & NDMC (as per area of jurisdiction) prior to groundwater drawl. The Deputy Commissioner (Revenue) / District Magistrate (Revenue) of each revenue area, Govt. of NCT of Delhi, has been appointed as the "Authorized Officer" and delegated with the power of dealing with issues such as checking violation, sealing illegal wells etc. including grievance redressal related to ground water, based on the recommendations of the Advisory Committee, as constituted vide said Notification dated 12.07.2010.

The issue of illegal extraction of ground water is being overseen by Hon'ble NGT in OA No 25/2019 (Abdul Farukh Vs GNCTD and Ors). The said matter deals with closure of 19661 illegal bore wells as per the list submitted by DJB to Hon'ble NGT. As per the decision taken by the Chief Secretary, GNCTD, Revenue Department is sealing the illegal bore wells based on the lists provided by DJB. DPCC has already imposed Environmental Compensation (EC) based on the formula devised by CPCB for illegal extraction of ground water for different purposes.

Out of list of 19661 illegal Borewells provided by DJB, 11364 illegal Borewells have been sealed by Revenue Deptt. till 25.10.2021. Environmental Compensation of Rs. 70.658 Crore has been imposed by DPCC on 19661 Units. Environmental Compensation received by DPCC is Rs. 54.30 Lakh till 25.10.2021.

XV. Good Irrigation Practices being adopted by the State:

Not applicable in case of NCT of Delhi since there is very less Agricultural Land available however Farmers are being made aware of the following good irrigation practices for water conservation by Development Department, Govt. of NCT of Delhi :-

1. Farmers are being advised to adopt inter-cropping and multiple-cropping to get maximum returns per unit of area and per unit of time with optimum use of water.
2. Farmers are being advised to grow crop which requires less water.
3. Farmers are being advised to adopt Sprinkler and drip irrigation system to irrigate their crops for conservation of water.
4. Farmers are being advised to use water, as per crop-wise prevailing package of practices to conserve water.
5. Farmers are being advised to conserve rain water, by adopting deep ploughing and bunding etc. of their fields for conservation of water.

XVI. Rain Water Harvesting:

Progress of Rain Water Harvesting System installed / monitored by DJB (As on 30.09.2023)

S. No.	Departments	Total	Installed	Target to be installed upto 31.10.2023	Remarks
1.	DJB Installations	594	594	0	
2.	By DJB for other Departments	89	89	0	

3.	Monitored by DJB for other Government Departments	5298	3966	1332	The departments are pursued continuously to update the progress but due to scarcity of funds progress could not be updated as reported by them.
4.	Schools	4549	4144	405	The School Authorities are pursued continuously to update the progress but due to scarcity of funds progress could not be updated as reported by them.
	Total	**10530**	**8793**	**1737**	

XVII. Demarcation of Floodplain and Removal of Illegal Encroachments:

(i). Demarcation of 1 in 25 years Flood Plains & Fixing up of Bollards and Fencing :

The demarcation of 1: 25 years flood plain of River Yamuna pertains from Wazirabad to Jaitpur on both banks. 100% work for demarcation of flood plains completed. 591 Bollards (marked with GPS Coordinates), 375 Flag Posts & 27 sign boards for the entire stretch from Wazirabad barrage to Jaitpur have been installed.

(ii). Engagement of Private Security to stop illegal Dumping:

125 Security Guards have been deployed by DDA round the clock in three shifts at vulnerable points, with 4 patrolling vehicles in the Yamuna Flood Plain area from Wazirabad Barrage to Okhla Barrage to check illegal dumping of malba and to prevent encroachment. GPS monitoring of security guards & patrolling vehicles is being done.

(iii). Installation of Electronic Surveillance System:

93 No. CCTV cameras have been installed at 27 locations from Wazirabad Barrage to Okhla Barrage to check the illegal dumping of Malba in the Yamuna Flood Plain area.

(iv). Demolition Program & Removal of Encroachment from the Flood Plain:

661.22 Hectares area has been retrieved from the encroachment by DDA in the floodplains of River Yamuna. Details of removal of encroachment by DDA are given at **Annexure- 07**

(v). Removal of C&D Waste :

54,160 metric tonnes of C&D waste lying in floodplain has been lifted to IL&FS site or utilized for development of Yamuna Project by DDA. Details of Challans issued by DDA as on 30.09.2023 are given at **Annexure- 08**

(vi). Restoration and Rejuvenation of the Floodplains of River Yamuna

DDA is going ahead with the Restoration and rejuvenation of floodplains of River Yamuna. The complete stretch of Zone-'O' falling under the jurisdiction of DDA has been subdivided into 10 projects including the development of Bio-diversity Park near Kalindi Kunj Colony. Brief status of 10 projects taken up / to be taken up by DDA for development of Yamuna River Front (Restoration and Rejuvenation of River Yamuna Flood Plains Status as on 30.09.2023) is at **Annexure –09**

XVIII. Maintaining Minimum e-flow of River:

Minimum Environmental Flow for the dilution of the polluted water in river Yamuna in Delhi is required to meet the desired water quality levels in river Yamuna for bathing purpose i.e. BOD < 3 mg/l & DO >5 mg/l.

To assess the minimum required environmental 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.

Final Draft Report has been submitted by NIH to NMCG. E-flow of 23 cumecs in the lean season has been recommended in the NIH study. Ministry of Jal Shakti (MoJS) is to take necessary action for maintaining the E-flow as recommended in the said Report of NIH. MoJS / NMCG has observed that the water sharing agreement of 1994 among the riparian states of Uttarakhand, HP, UP, Haryana, Rajasthan and NCT Delhi is due for revision only in 2025 unless any of the states so demand implying that no revision of water sharing will be possible to achieve the E-flow in river Yamuna.

XIX. Plantation activities along the river:

(i) Details of Old Plantation at Garhi Mandu and Sonia Vihar:

- Total **384.60 ha** of land has been handed over by DDA to Forest Department, Delhi in phases during the period w.e.f. 1975 to 2022 for plantation purpose.
- In **384.60** ha of land **2,41,184** saplings have been planted by Forest Department, Delhi.

(ii) Details of plantations under DPTA, 1994 against tree felling permissions issued in various projects:

- Total **139.5** ha of land has been handed over by DDA to Forest Department, Delhi for the purpose in phases during the period w.e.f. 2014 to 2020 for plantation purpose.
- In **139.5** ha of land **1,70,876** saplings have been planted by Forest Department, Delhi.

(iii) Details of plantations carried out as Compensatory Afforestation against the Forest land diverted under Compensatory Afforestation Act (FCA), 1980:

- Total **105.368 ha** of land has been handed over by DDA to Forest Department, Delhi for the plantation purpose in phases during the period w.e.f. 2014 to 2021.
- Out of **105.368** ha land, **102.418** ha of land has been afforested with **1,20,104** plant saplings by Forest Department, Delhi.

(iv) Plantation during World Forestry Day, 2023:

- 81,827 plants and 4,04,500 grass have been planted in 5 km stretch of DDA Land from Garhi Mandu to Shastri park near Yudhister setu along Yamuna Flood Plains (Not handed over to Forest Department)

(v) Plantation during April-June, 2023 under Yamuna Cleaning Drive:

- Plantation of 1,702 saplings on island 1, 2, and 3.
- Plantation of 1,100 saplings at Shastri Park Metro Station.
- Plantation of 2,500 saplings at Garhi Mandu track.
- Plantation of 450 saplings around pond near wazirabad near Signature Bridge.
- Plantation of 7000 saplings along Yamuna path.

- **Total land handed over till date = 629.468 ha**
- **The area that has been afforested till date = 626ha**
- **Total no. of saplings planted= 6,26,743**
- **Total no. of grass planted= 4,04,500**

XX. Development of Biodiversity Park (on Yamuna Flood Plain) :

- **Yamuna Biodiversity Park is already existing** and located in Jagatpur Khadar Yamuna Flood Plains in 9770 Hectares (upstream of Wazirabad).

- **South Biodiversity Park is being developed by Delhi Development Authority in the 115 Hectares area in Yamuna Flood Plains near Kalindi Colony.** The project has been awarded to CEMDE on 13.12.2019 and the work is under progress. 6 out of 9 wetlands have been completed. The balance 3 wetlands will be completed soon. Following works have been done under the said project :
  - **Greenway and recreational park development**:
    A small stretch of 500 m long and 10 m wide stripe along the Ashram Road has been planted with 300 plants. A large solid waste dump behind the Kalindi Colony has been landscaped and this is being developed into a recreational park.
  - **Development of Nature Trails:**
    Two nature trails - one trail from Ashram Road to DND Flyover has been made; both sides of this nature trail are being developed into a greenway.
  - **Development of Terrestrial Communities:**
    About 20 Hectare of elevated portion beneath the DND flyover has been processed for planting 15000 saplings of native trees. 3-5 in-situ constructed wetland system are to be taken up for treatment of sewage water entering into wetlands and finally into river Yamuna.

XXI. Reuse of Treated Water:

<table>
<tr><th>S.No.</th><th>Particular</th><th>Quantum in MGD</th></tr>
<tr><td>1</td><td>Quantum of Available Treated STP Water</td><td>550 (September, 2023)</td></tr>
<tr><td>2</td><td>Mandatory Return Flow in River Yamuna</td><td>267
(As per the orders of Hon'ble Supreme Court)</td></tr>
<tr><td>3</td><td>Present Use of Treated STP Water</td><td>About 145 MGD
[90 MGD for Horticulture in various parks in Delhi including Millennium Park in I.P Estate, Japanese Garden in Rohini and various parks in NDMC area and DTC Depots, PPCL etc. + 55 MGD in Development / Rejuvenation of Lakes / Water Bodies (Pappankalan, Nilothi & Najafgarh, Sanjay Van)]</td></tr>
<tr><td>4</td><td>Proposed Use of Treated STP Water</td><td>Presently, 100 MGD Treated Effluent is generated from Coronation Pillar Ph I & II STPs.
Following is the breakup of use of 100 MGD Treated Effluent :
21.5 MGD is currently used by IFCD for horticulture / farming purposes.
Regarding balance 88.5 MGD plans as follows:
a. 28.5 MGD to be used in marshy land of Coronation Pillar STP,
b. 30 MGD to be used in Jahangir puri drain for ground water recharge and
c. 20 MGD to be used in Bhalaswa Lake & DDA Golf Course.
Regarding the proposed usage of 88.5 MGD Treated Effluent in principle approval from Hon'ble (Minister) received and estimates are to be prepared.</td></tr>
<tr><td>5</td><td>Balance Available Treated STP Water</td><td>38 MGD
DJB has following projects for use of remaining treated STP Water for Development / Rejuvenation of Lakes :
<table>
<tr><th>Project</th><th>Treated Water Use (in MGD)</th><th>Progress Cumulative</th><th>Timelines</th></tr>
<tr><td>Smiriti Van / Lake</td><td>10</td><td>91%</td><td>December,</td></tr>
</table></td></tr>
</table>

		and nearby areas from Kondli STP.			2023 (Timeline was March, 2023)
		Rohini Lake No.1	15	98%	December, 2023 (Timeline was August, 2023)
		NTPC Eco Park	5	43%	December, 2023 (Timeline was July , 2023)
		Okhla	20	Work allotment under process	December, 2023
		Rohini Lake No.-2	15	10%	January , 2024
		Total	**65**		
		DJB has approved the policy of supplying treated effluent for irrigation purposes, for supply to farmhouses for horticulture and recharging of ground water schemes are in progress for supply to farmhouses from Mehrauli, Kapashera, Narela and Okhla STPs. Further schemes of recharging ground water are also in progress from Yamuna Vihar, Pappankalan, Najafgarh, Keshopur, Rithala, Kondli, Okhla, Coronation Piller STPs			

Number of Tankers Deployed:

The details of tanker deployment by various stakeholders departments during the month of September, 2023 are as under:-

S.No.	Agency	No. of Tankers Engaged
1	DTC	05
2	PWD	164
3	EDMC	9
4	DDA	7
5	Private Agencies	110
6	SDMC	22
7	Forest Department	05
8	CPWD	01
9	NHAI	01
10	M/s L&T	09
11	NBCC	08
12	DJB internal Horticulture use	30
13	NCRTC	01
14	IL & FS	01
	TOTAL	**373**

Order dated 25.02.2021 of Hon'ble National Green Tribunal in OA No. 386/2017 in the matter of "Rear Admiral A P Revi IN (Retd.) Vs Delhi Jal Board & Ors." regarding use of treated water for gardening in public parks:

Operative part of the said order is reproduced below:

"We are of the view that even though the steps are reported to have been taken, the matter needs to be taken forward, after due consideration of the objections of the applicant to ensure that fresh water is not used for gardening in public parks by the DDA and the South Delhi Municipal Corporation and instead only treated water is so used. The order of this Tribunal dated 27.01.2021 in OA No. 6/2012, Manoj Mishra v. Union of India & Ors. Approving the recommendations of the Yamuna Monitoring Committee may be duly followed. The DJB may ensure supply of such treated water with adequate pressure and wherever piped supply is not available, supply may be ensured by tankers. DPCC may monitor similar action by other agencies in Delhi owning parks and by bulk users, including other Municipal Corporations for adopting similar course of action to save drinking water for drinking purposes to fulfill basic need of maximum people. This may be overseen by the Secretary, Environment, Delhi."

In view of the above said order of Hon'ble NGT, DPCC sent a letter on 09.03.2021 to all the park Owning Agencies & concerned Authorities to take necessary action w.r.t said order of Hon'ble NGT and ensure that only treated water [from Sewage Treatment Plants (STPs) etc] is used in the parks under the jurisdiction of their departments and fresh water is not used for gardening in public parks.

All the concerned Departments / Agencies have also been requested to nominate concerned Senior Officer as Nodal Officer & provide information regarding use of treated water in the Parks / Bulk Use on monthly basis to DPCC.

A meeting was taken by the Chief Secretary, Delhi on 13.04.2021 regarding Hon'ble NGT order dated 26.03.2021 in OA no 06/2012 in MA no 25/2021 titled Manoj Mishra Vs South Delhi Municipal Corporation & Union of India & Ors. After detailed deliberations and discussions on the various aspects of the issue, Chief Secretary Delhi, directed that a long term perspective plan should be prepared for the optimum use of treated effluent in Delhi, which must include the maximum utilization of treated water for horticulture purpose including the coverage of all parks and gardens in Delhi, to replace the extraction of precious ground water through bore-wells for this purpose. Delhi Jal Board is to carry out the survey, preparation of DPR, cost estimates, etc. of the complete scheme by providing piped network up to each park. Accordingly M/s WAPCOS has been directed by DJB to submit the revised proposal for feeding through pipe line network up-to all parks provided by the stakeholders. M/s WAPCOS is carrying out survey work.

XXII. <u>Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:</u>

In case of Delhi there is only one river i.e. Yamuna river and efforts are being made to comply with the directions of Hon'ble NGT in OA No. 673/2018, OA No. 06/2012 in the matter of Manoj Mishra Vs. Union of India & others and OA 21/2023 in the matter of Ashwani Yadav Vs. Govt. of NCT of Delhi [Now OA No. 06/2012 (Nizamuddin West Association Vs Union of India & Ors)] . In absence of minimum Environmental Flow of river Yamuna in Delhi it is very difficult to achieve the bathing quality standards.

XXIII. <u>Status of Preparation of Action Plan by the 13 Coastal States</u>: Not applicable in case of Delhi

XXIV. <u>Regulation of Mining Activities in the State/UT</u>: Not applicable in case of Delhi

XXV. <u>Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring:</u>

DPCC takes action against the violating Industries/ Units including Water Polluting Industries /Units and imposes Environmental Compensation (EC) on the Polluter Pays Principle regularly.

A Joint Team consisting of MCD, DPCC, Revenue Dept., Power Companies, DJB has been constituted for taking action taken against Dyeing units in non-conforming areas of Delhi and inspections were carried out from 28.04.2023 to 08.10.2023 and action taken is briefed below :

- Total No. of Dyeing industries found during inspection : 258
- No. of Industries / Units Close down / Sealed / Electricity Disconnected : 113

DPCC has also issued directions 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.

Action taken by DPCC against Water Polluting Industries / Units u/s 33(A) of Water from 01.01.2022 to 20.08.2023:

S. No.	Action Taken	
1	No of Industries/Units Against which action was taken	399
2	No of Show Cause Notice issued	282
3	No of Directions for Closure issued	113
4	Environmental Compensation Imposed	Rs. 8.83 Crores
5	Environmental Compensation Received	Rs. 3.26 Crores

XXVI. Conservation of Water Bodies in Delhi

- Wetland Authority for Delhi has been constituted vide notification dated 25.04.2019 of Govt. of NCT of Delhi for conservation and management of Wetlands in Delhi.
- There are 1045 wetlands in Delhi which have been allotted UID numbers. District and Agency - wise details of water bodies is available on the website of Delhi Parks and Gardens Society (DPGS). Out of 1045 water bodies 1018 have been mapped on GIS platform.
- MoEF&CC, Govt. of India has notified Rules for conservation and management of wetlands vide notification dated 26.09.2017. As per the said notification, a Brief Document for each of the wetland identified for notification and Action Plan are to be prepared for conservation / restoration of each water body.
- **Details of Status of receipt of Brief Documents are given in the following Table :**

Sl. Nos.	Water Body Owning Agencies	Reconciled No. of Water Bodies (Till date)	Brief Documents received	Request for deletion of water bodies	Pertains to other Deptt. as requested by DDA	Yet to be handed over to DDA by GNCTD	Water Bodies not traceable due to non availability of Kh. Nos./ encroached	Balance (Yet to be received)
1.	**DDA**	822	506	223	32	35	25	1
2.	**BDO/REV.**	130	118	3			9	0
3.	**MCD**	1	1					0
4.	**DJB**	24	24	6				0
5.	**PWD**	6	0					0
6.	**CPWD**	1	1					0
7.	**ASI**	5	5					0

8.	**Forest**	16	16					1
9.	**Delhi Arch. Deptt.**	28	27					1
10.	**Delhi Wakf Board**	1	1					0
11.	**DUSIB**	1	1					0
12.	**DSIIDC**	1	1					0
13.	**JNU**	4	4					0
14.	**IIT**	3	3					0
15.	**NTPC**	1	1					0
		1045	**710**	**232**	**32**	**35**	**34**	**3**

- Technical Committee under Chairmanship of Dr. Madhu Verma, Chief Economist at the World Resources Institute at Delhi and comprising of 6 wetland experts has been formed on 01.07.2021. Grievance Committees have also been formed on 01.07.2021 for every district. 1st, 2nd, 3rd and 4th meetings of the Technical Committee were held on 05.08.2021, 09.11.2021 18.02.2022 and 09.06.2022. Prioritized 20 water bodies for immediate notification

1. Sanjay Lake
2. Hauz khas Lake
3. Bhalswa Lake
4. Smriti Van (Kondli)
5. Smriti Van (Vasant Kunj)
6. Tikri Khurd Lake
7. Najafgarh Jheel
8. Welcome Jheel
9. Daryapur Kalan
10. Poth Kalan (Sardar Sarovar Lake)
11. Mungeshpur Kh. No. 22/34 (15-11
12. (Wetland) Dheerpur (b)
13. M.P. Green Area at Sanjay Van
14. Distt. Park at Avantika, Sec-1, Rohini(B)
15. Water Body at Kh. No. 87/4 (26-6), Barwala
16. West Vinod Nagar, behind mother dairy, Mandawali Fazalpur
17. Mandawali Village
18. Park, Lake and woodland area G-8, area Rajouri Garden (Near Tihar Village) Andawali Village
19. Water Body at Kh. No. 28/13(02-15) & 28/18(4-03), Barwala
20. Jhatikra Kh. No. 84 (19-4)

- Citizen engagement and public participation in the conservation of wetlands is done through declaring Wetland Mitras, who are assisting the authority in protection and restoration of wetlands, thus deepening government's engagement with stakeholders. Presently 112 wetland mitras carry out probono wetland conservation activities.
- Seven Districts has identified model ponds (North, North West, South, South West, New Delhi, North East and West). Bench marks for Model Ponds prepared and sent to all District Magistrates by Wetland Authority of Delhi.
- In pursuance of Wetlands (Conservation and Management) Rules, 2017 a "Grievance Committee under Wetland Authority of Delhi was constituted on 01.07.2021 as a mechanism for hearing and forwarding grievances raised by the public to the Wetland Authority on Wetlands falling under their respective jurisdiction.

1. Mamoor pur Award No. 202/86-87 DDA
2. Mundka
3. Hiranki
4. Ashoka Park, New Friends Colony
5. Prasad Nagar Lake
6. Mayapuri
7. Holambi Khurd
8. Pooth Khurd
9. Najafgarh Jheel
10. Ghewara
11. Lam Pur
12. Ghewara
13. Rampura
14. Sakur pur
15. Bhalswa Lake
16. Mahipalpur
17. Jhatikra
18. Ambarhai
19. Smriti Van Lake

- The future plan of the Wetland Authority is to prepare a protocol for catchment area management, evolving low cost restoration techniques, and actively engage, coordinate and help land owning agencies to prioritize wetlands based on the brief documents prepared and notify them, thus ensuring long term protection and conservation of wetlands in Delhi.

Brief of Analysis Reports (Compliance Status) in respect of Functional STPs of Delhi Jal Board for the month September, 2023 **Annexure-1**

S. No.	Name of STP	Capacity (in MGD)	Existing STP Capacity (in MLD)	Capacity Being Utilized (in MLD)	Design Parameters BOD/TSS (in mg/l)	Date of Sampling	Brief of Analysis Reports (Compliance status) [Prescribed Standards by DPCC : *pH - 6.5 - 9.0, , TSS≤ 10 mg/l, BOD ≤ 10 mg/l , COD ≤ 50 mg/l, Ammonical Nitrogen≤ 5mg/l, Total Nitrogen (N-Total) ≤ 10 mg/l, Phosphate (PO_4 - P)≤ 2 mg/l , Fecal Coliform(FC) (MPN/100ml)< 230*]	Compliance w.r.t. Design parameters
1.	Mehrauli	5	22.73	22.5	20/30	06.09.2023	**Not Meeting the Prescribed standard in respect of TSS (36 mg/l against the prescribed standard of ≤ 10 mg/l), COD (64 mg/l against the prescribed standard of ≤ 50 mg/l) and BOD (24 mg/l against the prescribed standard of ≤ 10 mg/l)**	**No**
2.	Okhla, Phase -II	12	54.552	53.5	30/50	21.09.2023	**Not Meeting the Prescribed standard in respect of TSS (18 mg/l against the prescribed standard of ≤ 10 mg/l) , BOD (13 mg/l against the prescribed standard of ≤ 10 mg/l) and COD (56 mg/l against the prescribed standard of ≤ 50 mg/l. However meeting the Design Parameters (BOD/TSS:30/50).**	Yes
3.	Okhla Phase -III	37	168.20	165.5	30/50	21.09.2023	**Not Meeting the Prescribed standard in respect of TSS (26 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (18 mg/l against the prescribed standard of ≤ 10 mg/l), COD (80 mg/l against the prescribed standard of ≤ 50 mg/l . However meeting the Design Parameters (BOD/TSS:30/50).**	Yes
4.	Okhla Phase -IV	45	204.57	198.4	30/50	21.09.2023	**Not Meeting the Prescribed standard in respect of TSS (30 mg/l against the prescribed standard of ≤ 10 mg/l) and BOD (26 mg/l against the prescribed standard of ≤ 10 mg/l), COD (72 mg/l against the prescribed standard of ≤ 50 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).**	**Yes**
5.	Okhla Phase -V	16	72.73	72.4	30/50	21.09.2023	Meeting the Prescribed standards.	Yes
6.	Okhla Phase -VI	30	136.38	136.2	20/30	21.09.2023	Meeting the Prescribed standards.	Yes
7.	Molar Band	0.66	03	2.9	30/50	21.09.2023	**Not Meeting the Prescribed standard in respect of TSS (38 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (19 mg/l against the prescribed standard of ≤ 10 mg/l), COD (72 mg/l against the prescribed standard of ≤ 50 mg/l) and Dissolved Phosphate as P (2.1 mg/l against the prescribed standard of ≤ 2 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).**	Yes
8.	Sen Nursing Home Nallah	2.2	10	10.85	**10/15**	11.09.2023	Meeting the Prescribed standards.	Yes

Brief of Analysis Reports (Compliance Status) in respect of Functional STPs of Delhi Jal Board for the month September, 2023 **Annexure-1**

9.	Vasant Kunj (Old) Phase-I	2.2	10	7.50	30/50	06.09.2023	**Not Meeting the Prescribed standard in respect of TSS (36 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (23 mg/l against the prescribed standard of ≤ 10 mg/l), COD (64 mg/l against the prescribed standard of ≤ 50 mg/l) and Dissolved Phosphate as P (3.1 mg/l against the prescribed standard of ≤ 2 mg/l).However meeting the Design Parameters (BOD/TSS:30/50).**	Yes
10.	Vasant Kunj (New) Phase-II	3	13.64	7.72	30/50	06.09.2023	**Not Meeting the Prescribed standard in respect of TSS (30 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (20 mg/l against the prescribed standard of ≤ 10 mg/l), COD (56 mg/l against the prescribed standard of ≤ 50 mg/l),. However meeting the Design Parameters (BOD/TSS:30/50).**	Yes
11.	Ghitorni	5	22.73	11.36	30/50	06.09.2023	**Not Meeting the Prescribed standard in respect of TSS (32 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (17 mg/l against the prescribed standard of ≤ 10 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).**	Yes
12.	Delhi Gate Nallah (Old) Phase-I	2.2	10	**10.62**	**10/15**	11.09.2023	Meeting the Prescribed standards.	Yes
13.	Delhi Gate Nallah (New) Phase-II	15	68.20	**68.2**	**10/10**	11.09.2023	Meeting the Prescribed standards.	Yes
14.	Kondli Phase - I	10	45.46	**43.4**	**10/10**	18.09.2023	Meeting the Prescribed standards.	Yes
15.	Kondli Phase - II	25		**114**	**10/10**	11.09.2023	Meeting the Prescribed standards.	**Yes**
16.	Kondli Phase - III	10	45.46	44.4	10/10	18.09.2023	Meeting the Prescribed standards.	**Yes**
17.	Kondli Phase - IV	45	204.57	**108.6**	20/30	18.09.2023	**Not Meeting the Prescribed standard in respect of TSS (28 mg/l against the prescribed standard of ≤ 10 mg/l), COD (60 mg/l against the prescribed standard of ≤ 50 mg/l) and BOD (14 mg/l against the prescribed standard of ≤ 10 mg/l). However meeting the Design Parameters (BOD/TSS:20/30).**	Yes
18.	Chilla	9	40.91	38	**10/10**	11.09.2023	Meeting the Prescribed standards.	Yes
19.	Yamuna Vihar Phase-I	10	45.46	43.4	30/50	13.09.2023	**Not Meeting the Prescribed standard in respect of TSS (20 mg/l against the prescribed standard of ≤ 10 mg/l) and BOD (12 mg/l against the prescribed standard of ≤ 10 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).**	Yes
20.	Yamuna Vihar Phase-II	10	45.46	38.89	30/50	13.09.2023	**Not Meeting the Prescribed standard in respect of TSS (20 mg/l against the prescribed standard of ≤ 10 mg/l) and BOD (14 mg/l against the prescribed standard of ≤ 10 mg/l) and Dissolved Phosphate as P (2.6 mg/l against the prescribed standard of ≤ 2**	Yes

Brief of Analysis Reports (Compliance Status) in respect of Functional STPs of Delhi Jal Board for the month September, 2023 **Annexure-1**

							mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	
21.	Yamuna Vihar Ph-III	25	113.65	**111.22**	20/30	13.09.2023	**Not Meeting the Prescribed standard in respect of TSS (28 mg/l against the prescribed standard of ≤ 10 mg/l) , BOD (17 mg/l against the prescribed standard of ≤ 10 mg/l) . However meeting the Design Parameters (BOD/TSS:20/30).**	Yes
22.	Akshardham / CWG Village	1	4.55	0.4	**02/01**	11.09.2023	Meeting the Prescribed standards.	Yes
23.	Coronation Pillar Phase- I&II	20	90.92	**88.05**	30/50	18.09.2023	**Not Meeting the Prescribed standard in respect of TSS (30 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (19 mg/l against the prescribed standard of ≤ 10 mg/l) and COD (56 mg/l against the prescribed standard of ≤ 50 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).**	Yes
24.	Coronation Pillar Phase- III	10	45.46	9.08	**30/50**	18.09.2023	**Not Meeting the Prescribed standard in respect of TSS (24 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (13 mg/l against the prescribed standard of ≤ 10 mg/l) and COD (52 mg/l against the prescribed standard of ≤ 50 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).**	Yes
25.	New Coronation Pillar	70	318.22	103.37	**10/10**	22.09.2023	Meeting the Prescribed standards.	**Yes**
26.	Narela	10	45.46	45.5	30/50	12.09.2023	**Not Meeting the Prescribed standard in respect of TSS (22 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (13 mg/l against the prescribed standard of ≤ 10 mg/l) and COD (52 mg/l against the prescribed standard of ≤ 50 mg/l) . However meeting the Design Parameters (BOD/TSS:30/50).**	Yes
27.	Rithala Phase -II	40	181.60	179.44	15/20	12.09.2023	Meeting the Prescribed standards.	Yes
28.	Rohini	15	68.19	54.48	30/50	12.09.2023	**Not Meeting the Prescribed standard in respect of TSS (28 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (16 mg/l against the prescribed standard of ≤ 10 mg/l), COD (64 mg/l against the prescribed standard of ≤ 50 mg/l) . However meeting the Design Parameters (BOD/TSS:30/50).**	**Yes**
29.	Keshopur Phase - I (New)	12	54.55	54.33	20/30	18.09.2023	**Not Meeting the Prescribed standard in respect of TSS (18 mg/l against the prescribed standard of ≤ 10 mg/l) and BOD (12 mg/l against the prescribed standard of ≤ 10 mg/l) &COD (52 mg/l against the prescribed standard of ≤ 50 mg/l). However meeting the Design Parameters (BOD/TSS:20/30).**	**Yes**

Brief of Analysis Reports (Compliance Status) in respect of Functional STPs of Delhi Jal Board for the month September, 2023 **Annexure-1**

30.	Keshopur Phase-II	20	90.92	90.6	30/50	18.09.2023	**Not Meeting the Prescribed standard in respect of TSS (20 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (14 mg/l against the prescribed standard of ≤ 10 mg/l) and COD (56 mg/l against the prescribed standard of ≤ 50 mg/l) . However meeting the Design Parameters (BOD/TSS:30/50).**	Yes
31.	Keshopur Phase - III	40	181.84	**181.2**	30/50	18.09.2023	**Not Meeting the Prescribed standard in respect of TSS (24 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (16 mg/l against the prescribed standard of ≤ 10 mg/l) and COD (68 mg/l against the prescribed standard of ≤ 50 mg/l) . However meeting the Design Parameters (BOD/TSS:30/50).**	Yes
32.	Nilothi Phase-I	40	181.84	112.1	30/50	18.09.2023	**Not Meeting the Prescribed standard in respect of TSS (40 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (27 mg/l against the prescribed standard of ≤ 10 mg/l) and COD (72 mg/l against the prescribed standard of ≤ 50 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).**	Yes
33.	Nilothi Phase-II	20	90.92	**90.8**	**10/10**	18.09.2023	Meeting the Prescribed standards.	Yes
34.	Pappankalan Phase - I	20	90.92	45.2	30/50	14.09.2023	**Not Meeting the Prescribed standard in respect of TSS (22 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (15 mg/l against the prescribed standard of ≤ 10 mg/l), COD (64 mg/l against the prescribed standard of ≤ 50 mg/l) and Dissolved Phosphate as P (2.4 mg/l against the prescribed standard of ≤ 2 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).**	Yes
35.	Pappankalan Phase - II	20	90.92	**90.8**	**10/10**	14.09.2023	Meeting the Prescribed standards.	Yes
36.	Najafgarh	5	22.73	**21.16**	30/50	14.09.2023	**Not Meeting the Prescribed standard in respect of TSS (30 mg/l against the prescribed standard of ≤ 10 mg/l), COD (76 mg/l against the prescribed standard of ≤ 50 mg/l) and BOD (24 mg/l against the prescribed standard of ≤ 10 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).**	Yes
37.	Kapashera	5	22.73	**22.4**	**10/10**	06.09.2023	**Not Meeting the Prescribed standard in respect of TSS (18 mg/l against the prescribed standard of ≤ 10 mg/l) and BOD (14 mg/l against the prescribed standard of ≤ 10 mg/l)**	No
	Total		**3028 (in MLD) 667 MGD**	**2498 (in MLD)550 MGD**				

Brief of Analysis Reports (Compliance Status) in respect of Functional STPs of Delhi Jal Board for the month September, 2023 **Annexure-1**

Note:-

1. As per the Analysis Reports of DPCC Water Laboratory for September, 2023, out of 37 operational STPs of DJB, 14 STPs were found complying with the standards prescribed by DPCC.
2. Out of 37 STPs, 35 STPs were found Complying w.r.t. Design parameters (BOD/TSS).

Annexure - 2

Information about Out Falling Drains into River Yamuna in Delhi and their Water Quality (September, 2023)

S. No.	Drain Owning Agency	Name of Drain	Flow in MLD (As per DJB)	Water Quality of Discharge into River Yamuna (Parameters) (September, 2023)				Point of Sampling (Before Outfall into river) (Latitude , Longitude*)	Status
				pH	TSS (mg/l)	COD (mg/l)	BOD (mg/l)		
1.	Municipal Corporation of Delhi (MCD)	Metcalf House Drain		No Flow				28.6803991, 77.2291258	Drain Tapped
2.		Khyber Pass Drain	1.7	No Flow				28.6953254, 77.2279064	Drain Tapped
3.		Sweeper Colony Drain	8.6	No Flow				28.6900959, 77.2282293	Drain Tapped
4.		Magazine Road Drain	7.8	No Flow				28.6977573, 77.2274876	Drain Tapped
5.		Tonga Stand Drain	7.8	No Flow				28.6629212, 77.2407143	Drain Tapped
6.		Moat Drain (Vijay Ghat)	-	Dry				-	Drain Tapped/ Dry
7.		Drain No. 14	25.87	No Flow				28.6115925, 77.2517744	Drain Tapped
8.		Tehkhand Drain	39.74	-					Drain Tapped
9.		Abul Fazal Drain		No Flow				28.5458359, 77.2982617	**No Flow observed by DPCC Lab on 04.09.2023** (The flow in this drain to be tapped by DJB in the Sewerage System being laid in Batla House Phase II Scheme).

S.No.	Drain Owning Agency	Name of Drain	Flow in MLD (As per DJB)	Water Quality of Discharge into River Yamuna (Parameters) (September, 2023)				Point of Sampling (Before Outfall into river) (Latitude , Longitude*)	Status
				pH	TSS (mg/l)	COD (mg/l)	BOD (mg/l)		
10.	MCD	Sen Nursing Home Drain	43.20	7.3	96	234	46	28.6205472, 77.2516466	**Drain Partially Tapped.** There is one operational STP of 10 MLD (2.2 MGD) capacity for treatment of tapped waste water of this drain. Over flow is observed from this drain. Sen Nursing Home Drain 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 is under construction and expected to be commissioned by June ,2024. Timeline for trapping of this drain is June, 2024
11		ISBT Drain (Qudsia Bagh/ Mori Gate Drain)	43.2	7.5	80	196	40	28.6694576, 77.2336664	**Drain to be tapped** Waste water of this drain will be carried to Nehru Vihar SPS by laying a rising main from proposed SPS at ISBT Kashmere Gate for treatment in the Coronation Pillar STP. Work order has been issued on 23.12.2022 & Work is under progress (Cumulative Progress was about 31 % as on 06.10.2023) and likely to be completed by March, 2024 (Earlier Timeline was Sept, 2023).
12		Delhi Gate Drain / Power House Drain	75.16	7.2	78	176	38	28.6350404, 77.255442	**Drain Partially Tapped.** There are 2 operational STPs of 68.2 MLD (15 MGD) capacity and 10 MLD (2.2 MGD) capacity for treatment of tapped waste water of this drain. Another STP of 45.46 MLD (10 MGD) is proposed for the treatment of remaining untapped waste water of this drain. MoHUA vide letter dated 14.09.2023 requested to accept allotment of land by DJB "as is where is" basis. Removal of structure is required for construction of STP.
13		Sonia Vihar Drain (On Eastern Bank of Yamuna)		6.9	82	256	39	28.7084002, 77.2360452	**Drain to be tapped** Work for construction of 31.8 MLD (7 MGD) STP for trapping and treating waste water of Sonia Vihar Drain is under progress (Cumulative Progress about 73 % as on 06.10.2023) and revised timeline for completion is December, 2023.

		Kailash Nagar Drain (On Eastern Bank of Yamuna)		7.0	68	168	34	28.6640877, 77.2494362	**Drain to be tapped** DJB has requested MCD to stop unchecked waste water being pumped in this drain finally discharging effluent into river Yamuna.
15		Shastri Park Drain(On Eastern Bank of Yamuna)		7.4	56	160	28	28.6621096, 77.2546735	**Drain to be tapped** Partially tapped by DJB, finally going into Buland Masjid SPS. Balance discharge of storm water Pump House will be tapped by MCD.
16		Maharani Bagh Drain	30.24	7.1	84	266	47	28.5723966, 77.2686193	Work of tapping of 9-10 MLD flow in C.V. Raman Marg Trunk sewer has been completed. The balance flow of about 20 MLD will be tapped in the proposed scheme of Barapullah Drain for treatment in Okhla STP. Work is under progress (Cumulative Progress was about 51% as on 06.10.2023) and to be completed by March, 2024 (Earlier Timeline Sept, 2023).
17		Jaitpur Drain	-	7.6	72	192	40	28.5419379, 77.3083086	**Drain to be tapped** The flow in this drain will be tapped by DJB in the Sewerage System being laid in Batla House Phase II scheme in the upstream of this drain.
18		Tuglakabad Drain (Kalka Ji Drain merged in this drain)	25.05	7.0	66	179	37	28.5419317, 77.3082674	**Drain to be tapped**
19		Civil Mill Drain	-	7.1	94	248	42	28.6507572, 77.2525033	No flow was observed by DPCC Laboratory during the past visits however flow was observed during site visit on 04.09.2023.
20	Irrigation & Flood Control Deptt. (IFCD)	Barapulla Drain	145.15	7.2	70	248	37	28.5831727, 77.2640264	**Drain to be tapped** Flow is proposed to be diverted by laying of interceptor sewer through micro tunneling for conveying to Okhla STP for treatment. Work is under progress (Cumulative Progress was about 51 % as on 06.10.2023) and to be completed by March, 2024 (Earlier Timeline Sept, 2023).
21		Najafgarh Drain	2097	7.4	88	208	44	28.7090142, 77.2286028	**Being a large drain not feasible to tap.** This is a large drain and technically not feasible to tap the whole drain. There is about 462 MGD flow in the Najafgarh drain. 252 MGD comprises of treated effluent from STPs of DJB.

									About 187 MGD is discharge from the drains of Haryana [Badshahpur Drain L III, L II from Dharampur & L I from Bajgera, Palam Vihar from Gurugram, Drain No. 6 from Sonipat and Mungeshpur & Bhupania Drains from Bahadur Garh & Bhupania region]. There is Interceptor Sewer Project in which the waste water of most of the sub drains of Najafgarh Drain has been tapped for the treatment in nearest STPs. There are 126 sub drains out falling into Najafgarh Drain including Supplementary drain. Out of 126 sub-drains, 26 sub-drains are un tapped and these will be tapped by December, 2023 in phased manner. Tapping of the balance 4 sub drains are dependent on the availability of land. 2 sub drains pertain to DDA. There are 110 sub drains out falling into Supplementary Drain. Out of 110 sub drains, 29 sub drains are un tapped and these will be tapped by Dec., 2023 in phased manner. One sub drain will be tapped within two months after high court decision.
22		Shahdara Drain	475	7.4	102	293	56	28.5588984, 77.3207987	**Being a large drain not feasible to tap.** This is a large drain and technically not feasible to tap the whole drain. Total discharge in Shahdara drain is about 105 MGD. About 50 MGD is discharge from UP through Shahibabad, Indira puri and Banthala drains. There is Interceptor Sewer Project in which the waste water of sub drains of Shahdara Drain has been tapped for treatment in nearest STPs. Remaining 2 sub drains are also proposed to be tapped (Progress - 73.4 % , Timeline was Dec., 2023).

Brief Status of Common Effluent Treatment Plants (CETPs) in Delhi

Annexure -3

(Based on the Analysis Reports of DPCC Laboratory for the Month of September, 2023)

S. No.	Name of CETP	Industrial Areas Connected with CETP	Capacity (in MLD)	Monthly Average Flow (in MLD)	Date of Sampling	Influent Quality at Inlet (in mg/l)	Effluent Quality at Outlet (in mg/l)	Brief of Analysis Report (For Treated Effluent)
1	**Jhilmil CETP**	Jhilmil and Friends Colony Indl. Areas	**16.8**	**3.157**	13.09.2023	pH - 6.9 TSS - 440 COD - 536 BOD - 170 Oil & Grease – 15.6 Ammonical Nitrogen (N) – 21.9 Phosphate-13.2 Sulphide – 4.7	pH - 7.8 TSS - 68 COD - 108 BOD - 24 Oil & Grease – 4.4 Ammonical Nitrogen (N) – 4.4 Phosphate-3.2 Sulphide – 1.5	**Meeting the Prescribed Standards.**
2	**Badli CETP**	Badli Industrial Estate	**12**	**4.77**	15.09.2023	pH - 7.1 TSS - 276 COD - 368 BOD - 140 Oil & Grease – 16 Ammonical Nitrogen (N) – 35.6 Phosphate-13.8 Sulphide – 4.3	pH - 7.9 TSS - 92 COD - 104 BOD - 28 Oil & Grease – 6.0 Ammonical Nitrogen (N) – 7.1 Phosphate-4.5 Sulphide – 1.2	**Meeting the Prescribed Standards.**
3	**Mayapuri CETP**	Mayapuri Indl. Area	**12**	**3.915**	05.09.2023	pH - 6.4 TSS - 484 COD - 576 BOD - 220 Oil & Grease – 16.0 Ammonical Nitrogen (N) – 21.6 Phosphate-13.7 Sulphide –2.2	pH - 7.7 TSS - 50 COD - 76 BOD - 19 Oil & Grease – 2.8 Ammonical Nitrogen (N) – 5.4 Phosphate-3.4 Sulphide – 1.3	**Meeting the Prescribed Standards.**

Annexure -3

Brief Status of Common Effluent Treatment Plants (CETPs) in Delhi
(Based on the Analysis Reports of DPCC Laboratory for the Month of September, 2023)

S. No.	Name of CETP	Industrial Areas Connected with CETP	Capacity (in MLD)	Monthly Average Flow (in MLD)	Da4te of Sampling	Influent Quality at Inlet (in mg/l)	Effluent Quality at Outlet (in mg/l)	Brief of Analysis Report (For Treated Effluent)
4	**Mangolpuri CETP**	Mangolpuri Indl. Area	**2.4**	**1.62**	05.09.2023	pH -6.9 TSS - 428 COD - 600 BOD - 210 Oil & Grease – 13.2 Ammonical Nitrogen (N) – 22.5 Phosphate-11.8 Sulphide – 5.0	pH - 7.1 TSS - 36 COD - 84 BOD - 22 Oil & Grease –5.6 Ammonical Nitrogen (N) – 1.3 Phosphate-1.2 Sulphide – 1.1	**Meeting the Prescribed Standards.**
5	**Wazirpur CETP**	Wazirpur Indl Area	**24**	**3.161**	15.09.2023	pH -6.8 TSS - 348 COD - 448 BOD - 150 Oil & Grease –10.8 Ammonical Nitrogen (N) – 35.8 Phosphate-8.0 Sulphide – 5.7	pH -7.0 TSS - 52 COD - 64 BOD - 18 Oil & Grease – 2.4 Ammonical Nitrogen (N) – 10.1 Phosphate-1.2 Sulphide – 1.4	**Meeting the Prescribed Standards.**
6	**Nangloi CETP**	Nangloi& Udyog Nagar Indl Areas	**12**	**2.714**	05.09.2023	pH -6.4 TSS - 424 COD - 440 BOD - 146 Oil & Grease – 13.6 Ammonical Nitrogen (N) – 26.4 Phosphate-13.8 Sulphide – 4.9	pH -7.2 TSS - 48 COD - 88 BOD - 26 Oil & Grease – 4.0 Ammonical Nitrogen (N) – 3.7 Phosphate-2.1 Sulphide – 1.2	**Meeting the Prescribed Standards.**

Annexure -3

Brief Status of Common Effluent Treatment Plants (CETPs) in Delhi
(Based on the Analysis Reports of DPCC Laboratory for the Month of September, 2023)

S. No.	Name of CETP	Industrial Areas Connected with CETP	Capacity (in MLD)	Monthly Average Flow (in MLD)	Date of Sampling	Influent Quality at Inlet (in mg/l)	Effluent Quality at Outlet (in mg/l)	Brief of Analysis Report (For Treated Effluent)
7	**SMA CETP**	SMA, Rajasthani Udyog Nagar and SSI Industrial Areas	**12**	**3.908**	15.09.2023	pH -6.4 TSS - 360 COD - 416 BOD - 145 Oil & Grease – 14 Ammonical Nitrogen (N) –25.3 Phosphate-11.6 Sulphide – 5.0	pH -7.3 TSS - 62 COD - 104 BOD - 18 Oil & Grease -- 3.2 Ammonical Nitrogen (N) –4.6 Phosphate-1.9 Sulphide – 1.0	**Meeting the Prescribed Standards.**
8	**Okhla CETP**	Okhla Indl. Area	**24**	**2.274**	21.09.2023	pH -6.4 TSS - 472 COD - 640 BOD - 236 Oil & Grease – 16.8 Ammonical Nitrogen (N) –34.2 Phosphate-12.9 Sulphide – 4.8	pH -7.2 TSS - 64 COD - 84 BOD - 29 Oil & Grease – 3.6 Ammonical Nitrogen (N)–10.3 Phosphate-1.7 Sulphide – 1.3	**Meeting the Prescribed Standards.**
9	**Narela CETP**	Narela Indl. Area	**22.5**	**10.107**	15.09.2023	pH -6.6 TSS – 344 COD - 344 BOD - 110 Oil & Grease – 16 Ammonical Nitrogen (N) –15.8 Phosphate-14.4 Sulphide – 4.5	pH -7.3 TSS - 40 COD - 96 BOD - 20 Oil & Grease – 5.2 Ammonical Nitrogen (N) –2.9 Phosphate-2.2 Sulphide – 1.6	**Meeting the Prescribed Standards.**
10	**Bawana CETP**	Bawana Indl. Area	**35**	**21.45**	12.09.2023	pH -6.5 TSS - 452 COD - 560 BOD - 205 Oil & Grease – 15.2 Ammonical Nitrogen (N) –14.1 Phosphate-12.6 Sulphide – 4.8	pH -7.9 TSS - 72 COD - 80 BOD - 26 Oil & Grease –4.4 Ammonical Nitrogen (N) –3.2 Phosphate-4.0 Sulphide – 1.1	**Meeting the Prescribed Standards.**

Annexure -3

Brief Status of Common Effluent Treatment Plants (CETPs) in Delhi
(Based on the Analysis Reports of DPCC Laboratory for the Month of September, 2023)

S. No.	Name of CETP	Industrial Areas Connected with CETP	Capacity (in MLD)	Monthly Average Flow (in MLD)	Date of Sampling	Influent Quality at Inlet (in mg/l)	Effluent Quality at Outlet (in mg/l)	Brief of Analysis Report (For Treated Effluent)
11	**Naraina CETP**	Naraina Indl. Area	**21.6**	**4.97**	05.09.2023	pH - 6.2 TSS - 420 COD - 536 BOD - 180 Oil & Grease -16 Ammonical Nitrogen (N)-27.1 Phosphate-12.1 Sulphide – 5.2	pH - 7.5 TSS - 54 COD - 80 BOD - 24 Oil & Grease -3.2 Ammonical Nitrogen (N)-4.0 Phosphate-1.9 Sulphide – 1.4	**Meeting the Prescribed Standards.**
12	**GTK CETP**	GTK Road Indl. Area	**6**	**2.38**	15.09.2023	pH - 6.3 TSS - 428 COD - 608 BOD - 200 Oil & Grease -14 Ammonical Nitrogen (N)-31.1 Phosphate-14.4 Sulphide –4.5	pH - 7.5 TSS - 60 COD - 76 BOD - 20 Oil & Grease -2.4 Ammonical Nitrogen (N)-12.7 Phosphate-2.0 Sulphide – 0.8	**Meeting the Prescribed Standards.**
13	**Lawrence Road CETP**	Lawrence Road Indl. Area	**12**	**2.06**	15.09.2023	pH - 7.3 TSS - 360 COD - 584 BOD - 210 Oil & Grease -15.6 Ammonical Nitrogen (N)-23.3 Phosphate-14.8 Sulphide – 4.2	pH - 7.5 TSS - 80 COD - 128 BOD - 26 Oil & Grease -5.2 Ammonical Nitrogen (N)- 11.6 Phosphate-2.8 Sulphide – 1.8	**Meeting the Prescribed Standards**
		Total	**212.3**	**66.486**				

Annexure-4

Existing & Proposed Municipal Solid Waste Processing Facilities in Delhi (As on 30.09.2023)

Total Municipal Solid Waste (MSW) Generation– 11376 TPD

[MCD- 11000 TPD, NDMC- 311 TPD, DCB- 65 TPD]

S.No	MSW Processing Facility	Capacity (in TPD)	Processing of MSW (in TPD)
1.	Waste to Energy Plant at Okhla	1950 [MCD – 1550 + 400 (NDMC & DCB)]	1653* (Fresh MSW- 1653 + RDF – 0)
2.	Waste to Energy Plant at Ghazipur	1300 (MCD)	875* (Fresh MSW- 728+ RDF–147)
3.	Integrated MSW Facility at Bawana (1300 TPD Waste to Energy Plant & 700 TPD Compost Plant)	2000 (MCD) (As per Consent of DPCC)	2340* (Fresh MSW- 2340 + RDF – 0)
4.	Waste to Energy Plant at Tehkhand	2000 (MCD)	1933* (Fresh MSW- 1933 + RDF – 0)
5.	8 Bio Methanation Plants of 05 TPD each at various locations	40 (MCD)	0
6.	20 Composters of 1 TPD each	20 (MCD)	20
7.	One Sorting Cum Composter Plant of 20 TPD at Tigris Road (in DCB area)	20 (DCB)	0
8.	Food Composter Plant at Tigris Road (in DCB area)	0.175 (DCB)	0.175
9.	06 Bio-Gas Plants in NDMC Area	7.5 (NDMC)	2.9
10.	29 Organic Waste Convertors (OWCs) in NDMC Area	15.15 [NDMC]	6.47
11.	258 Compost Pits including one Community Composting Pit of NDMC [MCD-211+ NDMC-47 + DCB - 0]	549.65 [MCD – 543 + NDMC-6.65 + DCB-0]	549.42 [MCD – 543 + NDMC-6.42+DCB-0]
Total		**7902.475**	**7379.965** **[Fresh MSW–7232.965 + RDF–147]**
12	Recycling through 170MRFs [MCD– 156 + NDMC- 03 +DCB-11]	**322TPD** [MCD- 258 (40+218) + NDMC–14+ DCB - 50]	**Recycling - 306 TPD** [MCD - 258+ NDMC - 14+ DCB – 34]
Grand Total (in TPD) [Processing Fresh MSW+Recycling]		**8224.475 (72.3 %)**	**7538.965 (66.3 %)**
11	**Gap in Processing** [Disposal of Fresh MSW at the Dumpsites]	**3837.035 TPD (33.73 %)** [11376 TPD - 7232.965 TPD (Fresh MSW Processed) - 306 TPD (Recycled through MRFs)]	

Note - *Based on the information provided by the operator of the Waste to Energy Plant.

Generation (in TPD) (1)	Total Capacity of Existing MSW Processing Facilities + MRF (in TPD)(2)	Processing of Fresh MSW + MRF (in TPD) (3)	Gap in Processing Capacity (in TPD) (4) = (1)-(2)	Gap in Processing (in TPD) (5)= (1)–(3)	Additional Proposed Capacity of Facilities by December, 2027 (in TPD)	Total Capacity of Facilities by December, 2027 (in TPD)
11376	**8224.475 (72.3 %)**	**7538.965 (66.3 %)**	**3151.525 (27.7 %)**	**3837.035 TPD (33.7 %)**	**6410**	**14634.475 (128.6%)**

Proposed Waste Processing & Disposal Facilities in Delhi

S. No.	MSW Facility	No(s)	Location	Local Body	Capacity Addition (in TPD)	Timeline for Completion
1.	New Waste to Energy Plant at Narela-Bawana	1	Narela-Bawana	MCD	3000	December, 2026
2	New Waste to Energy Plant at Ghazipur	1	Ghazipur	MCD	2000	December, 2027
3	Expansion of Existing Waste to Energy Plant at Okhla	1	Okhla	MCD	1000 (From 1950 TPD to 2950 TPD)	December, 2024 (Environmental Clearance issued)
4.	Bio CNG Plant	1	Okhla	MCD	300 TPD (In place of existing Closed Compost plant of 200 TPD)	June, 2024
5.	Compressed Bio Gas (CBG) Plant	1	Ghogha Dairy	MCD	100 TPD	December, 2024 (IGL awarded the work)
6.	Organic Waste Convertor	8	NDMC Area	NDMC	8 (8 Plants of 1TPD each)	December, 2023
7.	Decentralised Composter Plants	1	Vishwas Nagar	MCD	1TPD	October, 2023
		1	New Ashok Nagar		1TPD	
	Total	**15**			**6410 TPD (MCD- 6402 &NDMC- 8)**	

Note : 1. Bio Gas / Bio-CNG Plants at Nangli Dairy (215 TPD) is under test commissioning, Goyla Dairy (215 TPD) proposed to be completed by **March, 2024** and Ghogha Dairy (290 TPD) proposed to be completed by **March, 2024** (These are mainly for the Waste generated from Dairies and not included in total MSW Generation of 11000 TPD

2. One Engineered Sanitary Landfill (SLF) at Tehkhand is under construction (Timeline – November, 2023)

Status of Bio-Mining of Legacy Waste at 3 Dumpsites at Okhla, Ghazipur & Bhalaswa (As on 30.09.2023)

Dumpsite	Quantity of Legacy Waste Dumped (July, 2019) (Lakh Ton)	Total Quantity of Legacy Waste Bio-mined/ Processed Till 30.08.2023) (Lakh Ton)	Total Quantity of Legacy Waste Bio-mined/ Processed Till 30.09.2023) (Lakh Ton)	Legacy Waste (Volumetric Assessment* through Drone in June, 2022) (Lakh Ton) *Above ground level	Quantity of fresh MSW/Silt/ Malba dumped from July 2022 to 30.09.2023 (Lakh Ton)	Total Quantity of Legacy Waste Bio-mined from July 2022 to 30.09.2023 (Lakh Ton)	Balance Quantity of Waste at Dumpsite (Lakh Ton)	No. of Operational Trommels	Timeline for 100% Remediation
Bhalaswa	80	42.42	45.12 (56.4%)	73	11.39	20.13	64.26	22	2024 (Earlier May-24)
Ghazipur	140	20.50	20.81 (14.9 %)	85	8.06	9.57	83.49	25	
Okhla	60	32.28	33.26 (55.4 %)	45	7.64	15.00	37.64	11	
Total	**280**	**95.20**	**99.19 (35.4 %)**	**203**	**27.09**	**44.70**	**185.39**	**58**	

MCD has awarded integrated work for Bio-mining of Total 90 Lakh MT [30 Lakh MT(extendable upto 45 Lakh MT) @ Rs. 745 per MT under SBM 2.0 to separate Concessionaires in respect of each of the Dumpsites (Ghazipur, Bhalaswa & Okhla)] in November, 2022 and work of Bio-ming of Legacy Waste is in progress.

To enhance the Bio-mining process MCD has invited fresh bids of 30 Lakh MT and 20 Lakh MT for Ghazipur & Okhla Dumpsites respectively. Case for sanction of another tender of 30 Lakh MT for Bhalaswa Dumpsite is under process.

Segregation of Waste at Source

- NDMC - 100% (in all 14 Circles)
- DCB - 90 % in Civilian Area (segregation at source by December, 2023)
- MCD - 100 % (12 Wards), 80 - 100% (70 Wards), 60-80% (12 Wards) 40-60% (81 Wards), 20-40% (46 Wards), 10-20% (29 Wards)

(75% segregation at source by December 2023 and 100 % segregation at source by December, 2024)

4306/WMC-I
22/09/2023

Annexure - 05

DELHI POLLUTION CONTROL COMMITTEE
WATER LABORATORY
4th FLOOR, ISBT BUILDING, KASHMERE GATE, DELHI-06
visit us at : http://dpcc.delhigovt.nic.in

WATER QUALITY STATUS OF RIVER YAMUNA

REPORT NO: DPCC/W/Y/2023/ 286
DATE OF SAMPLING: 04.09.2023

Dated:- 21/9/2023

S. No.	Locations	Latitude Longitude	pH	COD (mg/l)	BOD (mg/l)	DO (mg/l)	Fecal Coliform MPN/100ml	Phosphate
Water Quality Criteria ('C' Class)			6.5-8.5	-	3mg/l or less	5mg/l or more	500(desirable) 2500 (max permissible)	-
1	Palla	28.8138023, 77.2100181	7.32	26	2.0	8.8	3.6×10^2	1.3
2	Wazirabad	28.7131310, 77.2319304	7.49	40	7.3	5.3	4.0×10^2	2.8
3	ISBT Bridge	28.6713533, 77.2338207	7.38	96	27	2.1	8.2×10^3	14.7
4	ITO Bridge	28.6284288, 77.2534977	7.28	72	23	3.5	6.1×10^3	8.1
5	Nizamudin Bridge	28.5915608, 77.2715342	7.20	106	33	1.6	14×10^3	16.8
6	Okhla Barrage	77°18'49" 28°32'40"	7.34	128	36	1.2	17×10^4	20.3
7	Agra Canal at Okhla Barrage	28.545414, 77.311075	7.15	133	38	1.0	20×10^4	22.4
8	River Yamuna at Asgarpur (After confluence of Shahdara & Tuglakabad drains)	28.4657003, 77.33905231	7.25	144	43	0.5	22×10^4	27.9

I/C Water Lab

Dr. Nandita Moitra
Scientist 'D'

4305/WMCG
22/09/23

ANNEXURE- 6

DELHI POLLUTION CONTROL COMMITTEE
WATER LABORATORY
4th FLOOR, ISBT BUILDING, KASHMERE GATE, DELHI-06
visit us at : http://dpcc.delhigovt.nic.in

WATER QUALITY STATUS OF DRAIN

REPORT NO: DPCC/W/D/2023/ 287 Dated:- 21/09/2023
Date of Sampling: -04.09.2023

S.No.	Name of Sample	pH	TSS (mg/l)	COD (mg/l)	BOD (mg/l)
	Standards	5.5- 9.0	100	250	30
1.	Najafgarh Drain	7.4	88	208	44
2.	Metcalf House Drain	NO FLOW	NO FLOW	NO FLOW	NO FLOW
3.	Khyber Pass Drain	NO FLOW	NO FLOW	NO FLOW	NO FLOW
4.	Sweeper Colony Drain	NO FLOW	NO FLOW	NO FLOW	NO FLOW
5.	Magazine Road Drain	NO FLOW	NO FLOW	NO FLOW	NO FLOW
6.	ISBT Drain	7.5	80	196	40
7.	Tonga Stand Drain	NO FLOW	NO FLOW	NO FLOW	NO FLOW
8.	Civil Mill Drain	7.1	94	248	42
9.	SEN Nursing Home Drain	7.3	96	234	46
10.	Drain No. 14	NO FLOW	NO FLOW	NO FLOW	NO FLOW
11.	Power House Drain	7.2	78	176	38
12.	Indrapuri Drain	6.7	90	266	45
13.	Sonia Vihar Drain	6.9	82	256	39
14.	Kailash Nagar Drain	7.0	68	168	34
15.	Shastri Park Drain	7.4	56	160	28
16.	Barapulla Drain	7.2	70	248	37
17.	Maharani Bagh Drain	7.1	84	266	47
18.	Old Agra Canal Drain	NO FLOW	NO FLOW	NO FLOW	NO FLOW
19.	Jaitpur Drain	7.6	72	192	40
20.	Sarita Vihar Pool	7.2	60	170	35
21.	Tuglakabad Drain	7.0	66	179	37
22.	Drain Near LPG Bottling Plant	NO FLOW	NO FLOW	NO FLOW	NO FLOW
23.	Drain Near Sarita Vihar Bridge (Mathura Road)	7.5	56	144	29
24.	Shahdara Drain	7.4	102	293	56
25.	Sahibabad Drain	7.2	98	280	50
26.	Molarband Drain	7.5	60	176	33
27.	Abul Fazal Drain	NO FLOW	NO FLOW	NO FLOW	NO FLOW
28.	Supplementary Drain	7.3	74	186	40

N Moitra

I/C Water Lab

Dr. Nandita Moitra
Scientist 'D'

Status of 'Restoration and Rejuvenation of River Yamuna floodplains' as on 30th September, 2023

Annexure-07

S. No.	Project Area	Total Site Area (In Ha)	Area repossessed (In Ha)	Area to be repossessed (In Ha)	Details
1.	Asita East (DDA)	90	90	Nil	-
	Asita East(UP)	107	75.09	*4.00	21 Hectares area has Already been transferred to PWD by UP irrigation Deptt.
2.	Kalindi Aviral	263	39.81	17	17 Ha under litigation.
3.	Kalindi Biodivdersity Park	115	2.5	-	-
4.	Asita West	200	181.89	-	-
5.	Amrut Biodiversity Park (DDA)	108	91.5	1	-
	Amrut Biodiversity Park (CPWD)	8.25	-		
6.	Yamuna Vansathali	236.5	105.36	15.7	
7.	Mayur Nature Park (DDA)	235	67.77	*55.25	Part land is under litigation. 100 Ha land de-notified.
	Mayur Nature Park (UP)	162.75			
8.	Eco-Tourism (DDA)	22.7*	7.3	0.00	
	Eco-Tourism (DTC)	7.3			
Total		1555.5	661.22	92.95	Regular demolition programmes are being organized to remove the encroachments in time bound manner.

Status of 'Restoration and Rejuvenation of River Yamuna floodplains' as on 30th September, 2023

Annexure-08

S. No.	Project Area	Total Site Area (In Ha)	Area repossessed (In Ha)	Area to be repossessed (In Ha)	Details
1.	Asita East (DDA)	90	90	Nil	-
	Asita East(UP)	107	75.09	*4.00	21 Hectares area has Already been transferred to PWD by UP irrigation Deptt.
2.	Kalindi Aviral	263	39.81	17	17 Ha under litigation.
3.	Kalindi Biodivdersity Park	115	2.5	-	-
4.	Asita West	200	181.89	-	-
5.	Amrut Biodiversity Park (DDA)	108	91.5	1	-
	Amrut Biodiversity Park (CPWD)	8.25	-		
6.	Yamuna Vansathali	236.5	105.36	15.7	
7.	Mayur Nature Park (DDA)	235	67.77	*55.25	Part land is under litigation. 100 Ha land de-notified.
	Mayur Nature Park (UP)	162.75			
8.	Eco-Tourism (DDA)	22.7*	7.3	0.00	
	Eco-Tourism (DTC)	7.3			
Total		1555.5	661.22	92.95	Regular demolition programmes are being organized to remove the encroachments in time bound manner.

Status of 'Restoration and Rejuvenation of River Yamuna floodplains' as on 30th September, 2023

Annexure- 09

	Project	Area/ Encroached area/Jhuggis	Water bodies Total / Completed	Timelines	Status
1.	**Asita East**- (Old Railway Bridge to ITO Barrage -Eastern Bank) PART A: Under the jurisdiction of **DDA.** PART B: Under the jurisdiction of **UP Irrigation Deptt.** (Deposit work)	Total Area- 197 Ha PART A: 90 Ha PART B:107 Ha.	 PART A: 1/1 PART B: 3/3	 PART-A: Completed PART-B: 31.03.2024	**PART B**: Present progress is 74% (Civil) & 80% (Hort.). Work completed are as under: 1. Excavation of 3 water bodies. 2. Construction of 3 ramps. 3. Embankment of 1 parking. Work was delayed due to flooding & sludgy site. Site is sludgy due to rise in water level of River Yamuna. **Case No:** SLP (C) 14342/2022 **Case Title:** Shakarpur Slum Union v/s DDA **Court:** Supreme court of India. **Panel lawyer:** : Ms. Shalini Chandra & Mr. Sanjay Jain (ASG) **Next Date of Hearing:** Not decided & No stay
2.	**Kalindi Aviral**- (NH24 to DND Flyway- Western Bank)	Total Area : 263 Ha Part A : 100 Ha Part B : 163 Ha/17Ha /300 nos (approx)	3/3	Part A : Completed	**Part B :** Restoration work in progress. Fountain work Completed. Meri Mati Mera Desh prepared and pathway work in progress at M3D site. Pipeline irrigation system installed. 17 Hac under litigation NDOH:- 23/01/2024 26 Court Cases under 24(2) are pending in the Supreme Court of India.
3.	**Kalindi Biodiversity Park**– (DND to proposed Kalindi By-Pass- Western Bank) Entrusted to CEMDE	115 Ha		Wetland completed in available space.	Project is being executed by CEDME. (Prof. C R Babu) 3 nos. Wetlands are completed in available space. Further work is held up due to NHAI work. DJB is initiating a project to tap the drains. **Case no:** WP(C)No. 10420/23, NDOH:- 21.11.2023 **Case no:** Cont. case- 1147/2023, NDOH:- 11.12.2023 **Case no:** WP (C) 5822/2021, NDOH:- 18/10/2023

Status of 'Restoration and Rejuvenation of River Yamuna floodplains' as on 30th September, 2023

4.	**Asita West-** (Old Railway Bridge to ITO Barrage-Western Bank) Part A : 93 Ha (Already developed) Part B : 107 Ha (under development)	200 Ha /0.00 Ha.	Part A : 2/2 Part B : 5/4	Part A:- Complete Part B: 30/12/2023	**Part B :- (for 107 Ha)** Present progress is 83% (Civil) & 55% (Hort.). Work completed are as under : 1. Excavation of 4 water bodies. 2. Excavation of 1 oxidation pond. 3. 3 ramps constructed. 4. 1100 m cycle hike zone (cycle track) out of 1200 m 5. Pathways drawings are being revised. Site is sludgy due to rise in water level of River Yamuna. Cleaning work under progress Case no: SLP(C) No. 9284/2023 Next date of hearing- Not Decided.
5.	**Amrut Bio Diversity Park-** ITO to NH-24 (Eastern & Western Bank)- Area South of CWG Village Area Part A : 90 Hac (Eastern bank) - DDA Part B : 18 Hac (Western bank) -DDA Part C : 8.25 Hac (Western bank) - CPWD	18 Ha / 1 Ha /95 Nos	6/6	22.05.2024	Part A : For 90 Ha of land: Present progress is 79% (Civil) 20% (Hort.). Work completed are as under (For 90 Ha): 1. Excavation of 6 water bodies. 2. 11800 m pedestrian path out of 12000m. 3. 1 entrance plaza out of 2. Site is sludgy due to the rise in water level of River Yamuna. Part B : HC / LM (36878)19/L.WP(C) No 12504/2019; NDOH: 04.03.2024 Part C : Area handed over to CPWD (Nav Bharat Udyan)
6.	**Ghat Area** : Wazirabad to Old Railway Bridge-Western Bank Part A : Entrusted to INTACH (Qudsia Ghat) Part B : Sur ghat, Eco-trail, Yamuna Bazaar	Total Site Area- 66 Ha (Qudsia Ghat- 16 Ha, Sur Ghat-13.6 Ha, Eco-trail- 33 Ha, Yamuna Bazaar Area- 3.4 Ha)	1/-	Part A : 30/11/2023 Part B : 31/12/2023	Part A : Present progress is 71% (Civil) 71% (Hort.). The work has been assigned to M/s INTACH on nomination basis for Quadsia Ghat. Work for Parking & Boundary wall is in progress at site. Site is partially submerged, and silt is deposited at the remaining site due to rise in water level of River Yamuna. Silt removal work is under progress at site. **Case no:** W.P.(C) 1980/2023, NDOH:- 13.10.2023 **Case no:** RCA/SCJ 17/2022, NDOH:- 20.11.2023 **Case no:** HC/LM (32198)2018 W.P.(C)9342/2018, NDOH:- 11.12.2023. **Case no:** W.P.(C)4637/2023, NDOH:- 01.11.2023. **Case no:** W.P.(C)/2377/2023&CM Appl. 26530/2023, NDOH: 08.11.2023. **Case no:** CS No. 1191/23, NDOH: 16.11.2023. Part B: Work awarded on 01st March 2023. Works to be undertaken. Waterbody, parking, Eco-trail, Chatris and plantation works. Site is sludgy due to the rise in water level of River Yamuna.

Status of 'Restoration and Rejuvenation of River Yamuna floodplains' as on 30th September, 2023

7.	**Yamuna Vanasthali-** (Wazirabad Barrage to ISBT Bridge- Eastern Bank, around GarhiManduVillage &Usmanpur Village)	236.5 Ha / 15.7 Ha /20Nos.	7/6	31.12.2023	Present progress is 87.5% (Civil), 59% (Hort.) Work completed are as under (for 236.5 Ha): 1. Excavation of 6 water bodies and about 84% of pedestrian pathway works are complete. 2. Mounds completed. 3. Spreading of moorum was underway. 4. Site is partially submerged due to rise in water level of River Yamuna Cleaning work under progress Court Cases: 1) WP(C) 7542/ 2017; NDOH- 22/04/2024, 2) WP(C) 7135/2019; NDOH- 17/10/2023
8.	**Mayur Nature Park-** (NH-24 to DND Flyway- Eastern Bank) PART A: Under the jurisdiction of **DDA.** PART B: Under the jurisdiction of **UP Irrigation Deptt.**	Total Area- 397.75 Ha PART A: 235 Ha PART B: 162.75 Ha	----	------	i. The land demarcation completed. ii. LM Department informed that approximately 100 Ha of land has been de-notified out of the total 235 Ha. iii. Accordingly, the revised landscape proposal is ready. The work of UP Irrigation land of 162.75 Ha is to be taken up on deposit work basis. **Case no:** W.P.(C) 10900/2019, NDOH:- 30.10.2023 **Case no:** W.P.(C)10918/2019, NDOH :- 30.10.2023 **Case no:** W.P.(C)2504/23, NDOH:- 07.02.2024
9.	**Eco-Tourism Area-** (Geeta Colony Bridge to ITO Barrage- Western Bank)	30 Ha/0.00 Ha	------	-----	Area falls outside the 1 in 25 year floodplain. Proposal will be taken up once the 'O-II' is finalized after notification of MPD-2041. LPA No : 196/2023, NDOH- 11/10/2023.
10.	**Hindan Sarovar-** (NH-24 to DND Flyway- Eastern Bank) Part Area-II-**Hindon Cut Wetlands I&II** PART A Under the jurisdiction of **DDA.** PART B:Under the jurisdiction of **UP Irrigation Deptt.** (Deposit work)	Total Site Area- 53.6 Ha PART A 15 Ha PART B:30 Ha			NOC to the Pr. Secretary (Environment, Forests & Wild Life)has been withdrawn. Land to be taken back from Forest Department