



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 673/2020/433-436

Dated: 16.09.2022

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 August, 2022 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 August, 2022 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 July, 2022 was submitted vide letter dated 31.08.2022.

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 Pr. Secy. (Env) cum 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 August, 2022

Overall Status of the State:

I. Total Population: Urban Population & Rural Population separately

	Population as per Census in 2011 (in Lakh)	Population in 2021 (Appx. Estimated) (in Lakh)
Urban Population	163.68899	210
Rural Population	4.19042	
Total	167.87941	210

II. Estimated Sewage Generation (MLD) : 3491 MLD (768 MGD) (80 % of 960 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 : **2874 MLD (632 MGD)**
(82.3% of estimated sewage generation)
- Capacity Utilization of existing STPs : **2410 MLD** (530 MGD)
(83.9 % of installed capacity)
 [Main under utilised STPs are– Okhla Phase II, III, IV & V Coronation Pillar Phase-I&II, New Coronation Pillar, Narela, Rohini, Ghitorni, Yamuna Vihar Ph-II)
- MLD of sewage being treated through Alternate technology : Nil

• Gap in Treatment Capacity	: 618 MLD (136 MGD) [768 – 632 MGD] (17.7 %)
• Gap in Treatment	: 1082 MLD (238 MGD) [768 – 530 MGD] (31 %)
• No. of Operational STPs	: 35 (Samples could be analyzed by DPCC Lab in case of 33 STPs only in the month of August, 2022 refer Annexure-1. In case of Ghitorni STP sample could not be taken & Kondli STP Phase-III is under trial run.)
• No. of Complying STPs	: 11 w.r.t. Standards prescribed by DPCC 27 [w.r.t. Design Parameter]
• No. of Non-complying STPs	: 22 (Letter issued to DJB on 09.09.2022 for taking rectification measures to meet the prescribed standards). Following 9 STPs (Total 160 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) 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 STPs
- (ii) Upgradation and increasing capacity of existing STPs
- (iii) Construction of New STPs / DSTPs in outer Delhi
- (iv) Construction of New STPs at Delhi Gate and Sonia Vihar

Rehabilitations of existing STPs and construction of New STPs/DSTPs

[Present Treatment Capacity : 632 MGD(35 STPs)]

S. No.	Name of STP	Capacity of the plant in (MGD)	Planned Timelines
Sewage Treatment Plants			
1	Coronation Pillar (In place of existing Ph-I,II & III- 30 MGD STPs)	70 (addition of 40)	Completed
2	Okhla (In place of existing Ph-I,II,III & IV- 124 MGD STPs)	124 (addition of 30)	Dec 22
3	Kondli (Rehab) Ph-I/II/III	20	Dec- 22
4	Rithala(Rehab)	40	Dec- 22
5	Sonia Vihar (Addition 07 MGD)	07	June- 23
6	Delhi Gate (Addition 10 MGD)	10*	Dec- 23
	TOTAL (addition)	107	
Status of Decentralised Sewage Treatment Plants (DSTPs)			
1	27 Decentralized STPs at various locations of Delhi (60 MGD)		
a	16 DSTP where land is already allotted.	32	Dec- 23
b	11 DSTPs where land is yet to be allotted.	28**	15 months after allocation of land
2	14 STPs in Najafgarh Drainage Zone (32 MGD)		
a	12 DSTPs where land is already allotted.	21	Dec- 23
b	02 DSTPs where land is yet to be allotted.	11**	15 months after allocation of land
1	Upgradation/Augmentation of Existing STPs	94.5	
	Total Addition by June 2023	199+94.5=293.5	
	Grand Total Capacity	925.50	

* Timelines are subject to availability of land at Delhi Gate from DDA

**Timelines are subject to availability of land out of 11 (out of 27) locations, land is yet to be allocated at 2 (out of 14) locations

Total Capacity of STPs by December, 2022 - 722 MGD [632 MGD + 90 MGD]

Total Capacity of STPs by December, 2023 - 925.5 MGD [632 MGD + 293.5 MGD]

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 August, 2022 is at <u>Annexure-1</u>				

Details of Under Construction STPs of Delhi Jal Board in Delhi

S. No.	Location (Name of STP)	Capacity of the plant in MLD	Physical Progress in % (upto August, 2022)	Status of I&D or House sewer connections	Completion Timeline
Rehabilitation / Up-gradation of Existing STPs for achieving BOD / TSS : 10 / 10 mg/l.					
1.	Yamuna Vihar STP Phase II	45.46 MLD (10 MGD)	-	-	December, 2023 Work awarded on 28.03.2022. This work is under AMRUT Scheme. STP is operational as per existing designed parameters. Capacity enhancement from 10 MGD to 15 MGD.
2.	Kondli STP Phase I, II & III	204.57 MLD [45 MGD (10+25+10)]	84.79 (1.38 in August, 2022)	-	December, 2022 Rehabilitation & Upgradation of 10 MGD Phase-I & 10 MGD Phase- III STPs completed and STPs have started receiving influent on 09.03.2022 & 07.04.2022 respectively. Phase – II : work in SST and Bio-reactor has been started.
3.	Rithala STP Phase I	181.84 MLD (40 MGD)	66.61 (1.72 in August, 2022)	-	December, 2022
Construction of New STPs					
4.	Coronation Pillar	318 MLD (70 MGD)	100	-	Completed and commissioned on 15.03.2022
5.	Okhla	564 MLD (124 MGD)	65.6 (1.8 % in August, 2022)	-	December, 2022

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]

Name of Contract packages	Name of STP	Existing Capacity	Enhanced Capacity (In MGD)	Status	Timelines
Package-1	Pappan Kalan Ph-1	20	30	Letter of Award issued on 18.07.22	Aug, 23
	Nilothi Ph-1	40	60		
Package-2	Najafgarh	5	5	DFA of Preamble for Board approved. Shall be put up in next board meeting for award of work.	Sep, 23
	Keshopur Ph-II	20	20		
	Keshopur Ph-III	40	60		
Package-3	Rohini Sector 25	15	25	Letter of Award issued on 14.07.22	Aug, 23
	Narela	10	15		
	Coronation pillar Ph-I&II	20	20		
	Coronation pillar Ph-III	10	10		
Yamuna Vihar	Yamuna Vihar Ph-II	10	15	Work awarded on 28.03.2022. This work is under AMRUT Scheme	Dec, 23
Package -4	Yamuna Vihar Ph-I	10	15	Tenders reinvited on 30.07.2022 being single eligible bid found in earlier tender. Due date for opening on 16.09.22.	Dec, 23
	Yamuna Vihar Ph-III	25	37		
Package-5	Okhla Ph-V	16	16	Approval received on 02.09.2022 and tenders invited.	Dec, 23
	Mehrauli	5	7.5		
	Ghitorni	5	7.5		
	Vasant Kunj	5	7.5		
Kondli	Kondli Ph-IV	45	45	Work order issued on 10.08.2022	Nov, 23
Keshopur	Keshopur Ph- I	12	18	Principle approval of Hon'ble Minister (Water) received, estimate is being finalized	Dec, 2023
	Total	313	413.5	Addition of 100.5 MGD by Dec, 2023	

Details of Proposed STPs of Delhi Jal Board in Delhi

S. No.	Location	Capacity of the STPs proposed (in MLD)	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1.	27 Decentralized STPs at various locations in Delhi (Earlier 42)	281.50	- Requirement of land reassessed - No. of DSTPs reduced from 42 to 27 - Land allotted at 16 locations - For balance DSTPs matter is being pursued with land owing agencies. - Consultant appointed for design & estimation of DSTPs /STPs where land allotted.	December, 2023 (subject to allotment of balance land parcels of DSTPs/ SPS.)
2.	14 (9+5) STPs in Najafgarh Drainage Zone	145	- Whole scheme reframed to accommodate maximum nos. of unauthorised colonies in the 10 parcels of land already in possession of DJB. - Land allotted at 12 locations. - Consultant appointed for design & estimation of DSTPs where land allotted. - Tenders invited for internal sewers in respect of 9 DSTPs.	December, 2023

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

Total flow to be trapped	Provision of trapping made during the month of August, 2022	Cumulative Status as in August, 2022 Provision of trapping made	Time line for completion of work	Remarks
1100.86 MLD (242.16 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 and treated by December, 2022 after construction / rehabilitation of Rithala and Kondli STP under YAP-III.

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

S. No.	Status	No. of U/A Colonies	Time lines			
			22-Dec	23-Jun	23-Dec	Total
1	Sewer line laid & commissioned	725				725
2	Work of sewer network is in progress	572	321	88	163	572
3	Colonies under existing STPs	59	3	6	50	59
4	Colonies under Tender Stage where land of STP is available in Najafgarh Drainage zone & and under Sonia Vihar STP	7	--	2	5	7
5	Colonies at Estimate/Tender stage where(275):					
i.	Land for STP and SPS is available (28 locations)	71	--	--	71	71
ii.	Land is yet to be made available (13 locations)	204	--	--	204	204*
6	Colonies under O-Zone/ Non feasibility/ Not traceable/ NOC awaited	161	--	--	--	161**
	Total	1799	324	96	493	1799
	Cumulative Total	725	1049	1145	1638	1799

Sewage and Faecal Sludge Management (Septage Management)

Septage Management Regulations 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 so far registered 284 licensed vendors (Emptiers) for collection and transportation of sewage from the septic tanks and has identified 86 SPS points for receiving the Septage. 10 to 11 Lakh litres septage per day is being collected and treated at STPs of DJB.

Agency	No of Vehicles Authorised by DJB (As on 31.08.2022)	No. of Functional SPSs for collection of septage from vendors	Septage collected & Treated in August, 2022	Septage treated by DJB (As on 31.08.2022)
DJB	284	86	3.36 Crore Litres	108.7 Crore Litres

Trapping of Drains :

There are 18 major drains which are out falling into river Yamuna in the Delhi stretch between Wazirabad to Okhla. As informed by Delhi Jal Board, out of 18 Drains, Trap completed in 11 Drains, 02 drains (Delhi Gate Drain and Sen Nursing Home Drain) are partially trapped, 02 major Drains i.e. Najafgarh & Shahdara are included in Interceptor Sewer Project where substantial flow of sub-drains under their command areas will be trapped and treated. Further, in-situ treatment in these drains are also being proposed. For remaining 03 Drains (Mori Gate, Barapulla & Maharani Bagh Drains) brief status is as given below:

- Mori Gate Drain (9.51 MGD)** - Alternative proposal is framed to carry the sewage to Nehru Vihar SPS for its treatment into Coronation Pillar STP by laying a rising main from proposed SPS at ISBT Kashmere Gate. Tenders re-invited, Technical bids opened on 07.07.2022 and the same is under evaluation. Work is likely to be completed by August, 2023
- Barapulla Drain (31.97 MGD)** - Flow is proposed to be diverted by laying of interceptor sewer through micro tunneling for conveying to Okhla STP for treatment. Work has been awarded by DJB on 04.03.2022 and proposed timeline for completion is June, 2023.
- Maharani Bagh Drain (6.66 MGD)** - The Drain has been partially trapped to the extent of 9-10 MLD flow in C.V. Raman Marg Trunk sewer. The balance flow of about 20 MLD will be trapped in the interceptor sewer being constructed for Barapullah Drain for treatment in Okhla STP. The work has been awarded on 04.03.2022 and the timeline for completion is June, 2023.

Vide email dated 04.04.2022, NMCG has informed that as per the survey team of NMCG for survey conducted on 30th & 31st March, 2022 out of 13 tapped drains reported by DJB, 7 No. of drains are still discharging into river Yamuna and therefore total 12 drains are discharging untreated waste water into river Yamuna. The site visit report received from NMCG was sent by DPCC vide letter dated 19.04.2022 to Delhi Jal Board seeking their comments w.r.t. observations made by the team of NMCG and for taking urgent necessary action for complete trapping of the partially untrapped drains. Action Taken Report was sought from DJB. As informed by DJB, joint inspection of NMCG & DJB teams were held on 17.06.2022 and as per the report of NMCG dated 21.06.2022, only 02 drains out of 13 trapped drains i.e. Delhi Gate drain and Sen Nursing Home drain are having flow going to river Yamuna.

Status of 18 Major Drains directly out falling into River Yamuna (as per the Information provided by DJB) 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):

- No. of Industries / Units in 28 Approved Industrial Areas : 25253
- No. of Industries / Units in 17 Approved Industrial Areas (out of 28 Approved Industrial Areas) connected with 13 CETPs : 22311
- No. of Water Polluting Industries/ Units in 28 Approved Indl. Areas : 1334
- No. of Water Polluting Industries/ Units in 17 Approved Indl. Areas (out of 28 Approved Indl. Areas) connected with 13 CETPs : 1091
- Quantity of Effluent generated from the Industries / Units in 28 Approved Indl. Areas (Excluding White Category Industries/Units, Shops & Other Establishments not requiring Consent from DPCC) : 28.75 MLD
- Quantity of Effluent generated from the Industries / Units in 17 Approved Industrial Areas (out of 28 Approved Indl. Areas) connected with 13 CETPs (Excluding White Category Industries/Units, Shops & Other Establishments not requiring Consent from DPCC) : 24.94 MLD
- Quantity of Hazardous Sludge generated from the Industries in TPD : 8.067(including CETPs)
- Number of Industrial Units / Units connected to 13 CETPs : 33690 (in 17 Approved Industrial Areas) (Including Shops & Other Establishments not requiring Consent from DPCC)
- Number and total capacity of ETPs (details of Existing/ Under Construction / Proposed) : 1334 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 – 64.122 MLD)
Under Construction/Proposed – Nil

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	25253	28.75 MLD	-	Existing – 13 CETPs List along with Compliance Status of August, 2022 is at <u>Annexure-3</u> Under Construction / Proposed - Nil Complying - 10 [Mayapuri, Mangopuri, Wazirpur, Nangloi, SMA, Okhla, Narela, , Bawana, GTK & Naraina,]
				Not Complying - 2 [CETPs Jhilmil & Lawrence Road] - Above 2 CETPs meeting the prescribed standards except the parameters mentioned in Table given below : <table><tr><td>Jhilmil</td><td>TSS, BOD & Sulphide</td></tr><tr><td>Lawrence Road</td><td>TSS, BOD, Oil & Grease, Phosphate and Sulphide</td></tr></table> - In case of Badli CETP, the sample could not be taken as the Plant was Non-Operational at the time of Sampling. - Environmental Compensation (Total EC Amount Rupees 12.05 Crores) has been imposed by DPCC on the 10 CETP Societies and 2 Operators of CETPs at Narela & Bawana on 07.07.2021.
Jhilmil	TSS, BOD & Sulphide			
Lawrence Road	TSS, BOD, Oil & Grease, Phosphate and Sulphide			

				• Letter was issued to concerned District Magistrates for recovery of the said amount of Environmental Compensation on 27.10.2021. Reminder has been issued on 12.01.2022. • CETP Societies of Okhla , SMA, Mayapuri, Mangolpuri, GTK Road, Naraina & Jhilmil have filed Writ Petition in the High Court of Delhi in February-April, 2022 against the Directions issued by DPCC on 07.07.2021 regarding imposition of Environmental Compensation. • In case of Okhla CETP Directions issued by DPCC on 07.07.2021 has been set aside by the Hon'ble High Court vide order dated 04.02.2022 with directions to give hearing to the CETP Society. Personal Hearing has been given to the Okhla CETP Society on 15.02.2022 and matter is under process. In cases of SMA & Mayapuri CETPs , Hon'ble High Court has set aside the orders dated 07.07.2021 issued by DPCC regarding imposition of Environmental Compensation. In rest of the cases viz. Mangolpuri, GTK Road, Naraina & Jhilmil CETPs matter is pending before the Hon'ble High Court. • DPCC issued directions for closure to the 1065 water polluting industries/ units in the 17 industrial areas connected to the 13 CETPs in first week of July, 2021. • Letters issued on 09.09.2022 to the concerned CETP Societies based on the Effluent Analysis Reports of DPCC Lab for the month of August, 2022 for taking rectification measures to meet the prescribed standards.
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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 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. 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. All these OLMS are connected to servers of DPCC and CPCB. Calibration of OLMS installed at CETPs is being carried out by DPCC Water Laboratory on quarterly basis.

(i) DSIIDC has 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 as per following scope of work :

- a) Formulating an action plan for the survey of the individual industries in various industrial areas for ensuring their connectivity with the waste water conveyance system of CETPs and identifying industrial units violating environmental pollution norms.
- b) To assess the overall functioning of all 13 CETPs through a physical survey.
- c) To formulate an action plan for 13 CETPs after the study of the survey report in terms of
 - I. Required up-gradation and retrofitting of CETPs to make them compatible with the composition of effluent reaching CETP for capacity utilisation (use of CETP as STP) and to conform the effluent discharge standards and to work out cost associated with this task.
 - II. Management of the hazardous sludge being generated by CETPs.
 - III. Maximizing utilization of treated water from CETPs in order to achieve Zero Liquid Discharge and reducing dependency of greenbelts/parks in and around CETPs on ground water.

d) Study regarding requirement of CETPs in 11 industrial areas which are presently not having CETP.

NEERI has carried out Overall Performance Evaluation of all the 13 CETPs [August 2020 & March 2021). Draft Reports on “Status, Gap Analysis, and Suggestions for Improvement and Up gradation” in respect of all the 13 CETPs have been prepared and submitted to DSIIDC. Meetings are held regularly to review the progress.

(ii) Progress Report for the Month of August, 2022

A. Report Submission by NEERI

Draft Integrated Report titled "Status, Gap Analysis and Suggestions for Improvement and Upgradation in existing 13 CETPs of Delhi" submitted on 16.03.2022.

B. Submission of supporting documents :

Quotations used by NEERI while preparing the estimates for the CETPs were shared with DSIIDC on 22.03.2022 .

C. A meeting was held on 21.03.2022 with NEERI regarding cost estimation for 13 CETPs.

D. The Govt. of NCT of Delhi has decided to assign the responsibility of upgradation of CETPs to Delhi Jal Board. DJB is supposed to take up the upgradation work of all CETPs.

E. In principle approval of Hon'ble LT. Governor to hand over the CETPs to DJB received. As mandated by CETP Act, 15 days notice is being served to respective CETP Societies through Industries department.

F. Proposed timeline by DJB for upgradation of CETPs is December, 2023.

V. Solid Waste Management:

- Total Number of Urban Local Bodies (ULBs) : 3 [MCD, NDMC & DCB]
and their Population Total Population – About 2.1 Crores
- Current Municipal Solid Waste Generation : 11357 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 (Excluding Pit Composting & MRFs) - 5360.64 TPD (47.2%) • Total MSW Processing (Excluding Pit Composting & MRF) - 4477 TPD (39.42%) • Processing/Recycling/Composting/Bio-methanation of MSW - 5283 TPD (46.51 %) • Disposal through Compost Pits - 549 TPD • Recycling through MRFs - 257 TPD • Gap in MSW Processing - 6074 TPD (53.48%) [11357 – 4477 – 257 - 549 = 6036] • Gap in MSW Processing Capacity - 5996.36 TPD (52.8%) [11357 – 5360.64 = 5996.36] • Capacity of 3 Existing WTE Plants - 4550 TPD (Power generation capacity - 59 MW) • One Operational Centralised Compost Plants - 700 TPD [200 TPD at Okhla Closed due to upgradation into Bio-CNG plant of 300 TPD] • 10 Bio-methanation Plants of 5 TPD each - 50 TPD

		● 19 Decentralized Composter Plants - 19 TPD of 1 TPD each Others (Compost Pits, OWCs etc.) - 41.64 TPD [28 Organic Waste Converter (OWCs) (13.215 TPD) & 6 Biogas Plants (8.25 TPD) in NDMC area + 3 Composters [1 Sorting Cum Composter at Tigris Road (20 TPD) + 2 Food Waste Composters of Total Capacity of 0.175 TPD (0.125 TPD + 0.05 TPD) in DCB area + Five Star Hotels/ Other Bulk Waste Generators having Individual OWCs]
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 utilised.
3.	No. and capacity of C&D Waste Processing Plants in TPD (Existing, Proposed and under construction)	● Existing operational C&D Waste Processing Facilities Capacity - 3150 TPD ● Proposed New C&D Waste Processing Facilities Capacity - 1500 TPD Existing operational C&D Waste Processing Facilities are located at (i) Rani Khera (1000TPD) (ii) Shastri Park (1000 TPD) (iii) Bakkarwala (1000 TPD) (iv) Rani Khera (Mundka) (150 TPD) C&D Waste Processing Facility at Jahangirpuri (Burari) is under revamp and therefore not in operation. Proposed C&D Waste Processing Facilities are : (i) Tehkhand Okhla (1000 TPD) (ii) Libaspur (500 TPD)
4.	Total No. of Wards, No. of Wards having Door to Door Collection Service, No. of Wards practicing segregation at source	No. of Wards - 294 [MCD-272, 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 Circles) ● DCB - 95-100% in Model Wards of Civilian Area 60-70% in Army Area ● MCD - 80-100 % (in 73 Model Wards) 60 - 80% (in 11 Wards) 50-60% (in 50 Wards) 40-50% (in 50 Wards) 20-40% (in 50 Wards) 10-20% (in 33 Wards)
5.	Details of MSW Treatment Facilities proposed and under construction (No., Capacity and technology)	Proposed Main MSW Processing/Treatment Facilities (i) 2000 TPD Waste to Energy Plant (WTE) at Tehkhand by 30.09.2022. (ii) 3000 TPD Waste to Energy Plant at Narela-Bawana by 31.08.2025. (iii) Engineered Sanitary Landfill at Tehkhand by April, 2023 (iv) Expansion of existing WtE at Okhla from 1950 TPD

		to 2950 TPD (from 23 to 40 MW Capacity). Public Hearing for Expansion of existing WtE at Okhla is scheduled on 16.08.2022. (v) Existing Waste to Energy Plant at Bawana from 24 MW to 60 MW Capacity (up to 3000 TPD). Public consultation will be done in case of proposed expansion of existing Waste to Energy Plant at Bawana as per the Terms of Reference issued by MoEF&CC vide letter dated 29.06.2022.	
6.	No. and Area (in Acres) of uncontrolled garbage dumpsites and Sanitary Landfills.	Name of Dumpsite	Area in Acres
		Ghazipur Dump Site	70
		Bhalaswa Dump Site	70
		Okhla Dump Site	62
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:	18 Major Drains out falling into river Yamuna & having Floating Racks / Screens to prevent solid waste falling into the river.	

Status of ULB wise Management of Solid Waste

ULB	Total MSW Generation in TPD	Total MSW being Processed/ Recycled/ Composted in TPD	Existing MSW Facilities	Utilization Capacity of the Existing MSW Facilities	Proposed MSW Facilities & Completion Timeline
MCD	11000	4944 (47.94%)	- One WTE Plant at Bawana Integrated MSW Facility - 2000 TPD (including 700 TPD Compost Plant) - One WTE Plant at Okhla – 1950 TPD - One WTE Plant at Ghazipur – 1300 TPD 10 Bio-Methanation Plants - 50 TPD (5 TPD each at Roshanara Bagh, MVID Hospital Mangolpuri Industrial Area Ph-I, Naraina Industrial Area Ph-I, Sarita Vihar, Dwarka Sec-14, Punjabi Bagh Nursery, Masood Pur in Vasant Kunj, Geeta Colony & Shastri Park) 19 Composter Plants – 5 TPD (1 TPD each at Bhorgarh Nursery, Rajendra Nagar, Maurya Enclave, Mori Gate, Sector 11 Rohini, Chirag Delhi, Punjabi Bagh Nursery, Near Lady Shri Ram College East of Kailash and Dwarka Sector-14, Trilokpuri near Block-13, Mayur Vihar Ph-II, Preet Vihar, Jhilmil, New Trilokpuri near	Installed Capacity of Existing MSW Processing Facilities is being utilised.	3000 TPD Waste to Energy Plant at Narela Bawana by 31.08.2025 2000 TPD WTE Plant at Tehkhand by 30.09.2022 - Engineered Sanitary Landfill at Tehkhand by 30.04.2023 - Expansion of existing WtE at Okhla from 1950 TPD to 2950 TPD (from 23 to 40 MW Capacity). Public Hearing for Expansion of existing WtE at Okhla is scheduled on 16.08.2022. - Existing Waste to Energy Plant at Bawana from 24 MW to 60 MW Capacity (up to 3000 TPD). Public consultation will be done in case of proposed expansion of existing Waste to Energy Plant at Bawana as per the Terms of Reference issued by MoEF&CC vide letter dated 29.06.2022. - One Bio-CNG Plant of 300 TPD at Okhla by 31.07.2023

			Block-13, Saini Enclave, Usmanpur, Kheda Village, Sunder Nagri, Gokulpur). ● 671 Compost Pits of 538 TPD ● One MRF of 8 TPD at Zakhira, 144 MRFs of total 216 TPD at various Locations, 2 MRFs of 5 TPD at Raghubeer Nagar & Dwarka Sec-29, 2 MRFs of 3 TPD at Patparganj Indl area & Seemapuri and 2 MRFs of 2 TPD at Geeta Colony & Dilshad Colony.		(From existing Compost Plant of 100 TPD to 300 TPD). ● Compressed Bio-Gas (CBG) Plant of 100 TPD at Hastsal by 30.04.2023 . ● 1 Composter Plant of 1 TPD at Nursery of Ramleela Ground by 30.09.2022 . ● 1 Composter Plant – 01 TPD at Vishwas Nagar by 31.10.2022 1 Material Recovery Facility (MRFs) of total 150 TPD Capacity by 31.12.2022 .
NDMC	285	285 (100%)	● 2 Organic Waste Converter-2 TPD (1TPD each at Madhulimey Marg & Raza Bazar in New Delhi) ● 26 Organic Waste Converter (OWCs) (13.215 TPD) & 6 Biogas Plants (8.25 TPD) in NDMC area ● 50 Compost Pits of 11.213 TPD ● 2 MRFs of total capacity of 8 TPD at Circle 8, Palika Niwas & Circle 10, Kautilaya Marg ● 2 Domestic Hazardous Waste Collection Centers of 0.5 TPD each.	Installed Capacity of Existing MSW Processing Facilities is being utilised.	-
DCB	72	54 (75 %)	● 01 Sorting Cum Composter (20 TPD) + 02 Food Waste Composter (0.125 TPD + 0.05 TPD) at Tigris Road ● 11 MRFs of total capacity of 50 TPD.	Installed Capacity of Existing MSW Processing Facilities is being utilised.	2 Sorting cum composters at & Kirby place, Delhi Cantt. of total capacity of 50 TPD [(1 of 30 TPD) & (1 of 20 TPD)] by 30.09.2022 .
Total	11357	5283 (46.51%)			
Note –1. Most of the Five & Four Star Hotels and Major Hospitals having 50 Beds or more have installed Organic Waste Converter. 2. Bio-CNG Plants at Nangli Dairy (215 TPD), Goyla Dairy (215 TPD), Ghogha Village Dairy (290 TPD) and Bio-gas plant at Ghazipur (185 TPD) are proposed.					

VI. Bio-medical Waste Management:

- Total Bio-medical Waste Generation : **23.20 TPD** (Average of Bio-medical waste generation in 2020 excluding Covid waste)
- No. of Hospitals and Health Care Facilities : **10423**
- 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. For preventing illegal dumping of biomedical waste in Delhi, a Standard Operating procedure (SOP) has already been developed and circulated to all the District Magistrates (being Chairman of the District level Committees comprising of all the concerned departments including CBMWTFs).

VII. Hazardous Waste Management:

- Total Hazardous Waste Generation : 2944.68 MT/year
- No. of Industries generating Hazardous Waste : 2318
- Treatment Capacity of all TSDFs : TSDF at Bawana is under construction
- Average Quantity of Hazardous Waste reaching the TSDFs : TSDF at Bawana is under construction and Treated

TSDF for Hazardous Waste at Bawana :

Common Hazardous Waste, Treatment, Storage & Disposal Facility (TSDF) has been developed at Bawana in Delhi. DSIIDC had awarded the work of development of TSDF for Hazardous Waste to M/s Tamil Nadu Waste Management Limited. Public Hearing for Environmental Clearance for TSDF was held on 14.07.2020 and MoEF&CC had granted Environmental Clearance vide letter dated 23.11.2020. Consent to Establish under the Air & Water Acts was issued by DPCC to the Project Proponent (M/s Tamil Nadu Waste Management Limited) on 31.12.2020.

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: 1035 TPD (Appx.)
- Registration under the Plastic Waste Management Rules, 2016 (as amended) issued to 1854 units as briefed below:
 - Recyclers : 778
 - Producers : 840
 - Manufacturers : 236

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 on regular basis and 14 Meetings have been held so far. Minutes of the last meeting (14th) held on 10.08.2022 are at **Annexure-5**.
- DOAs have submitted / are submitting their Action Plan with time line subject to availability of fund.

- EDMC has Constructed Wetland/ Treatment System of 3 MLD designed by NEERI at Jheel Park for treatment of Incoming Drains & functional. Cost was about Rs. 7 Crores.
- The waste water in Kushak Nala running through NDMC areas is under bio-remediation.
- SDMC had given consultancy to IIT Delhi for the work of insitu treatment in Pushp Vihar drain (1.9 Km stretch of Chirag Delhi Drain) as pilot project. 85 % work completed. Capacity of drain is about 5.8 MLD. Timeline for completion is Oct, 2022
- North DMC has undertaken the pilot project for Phyto / Bio-Remediation of Kudesia Nallah. Work of 350 m length of Qudsia Bagh drain as a pilot project. 25 % work completed. Timeline for completion is Dec, 2022.
- DDA has already submitted action plan and constructed/constructing wetland in Yamuna flood plain in Kilokari / Maharani Bagh / Dhubhi Ghat. DDA has a plan to construct 7 Nos STPs to trap all drains, out of which work in 4 No STPs is in progress, and work will be completed by Dec-2022. Work on balance 3 No STPs at Gazipur, Kilokari and Rohini are yet to be awarded and are likely to be completed by May-2023.
- I&FCD has informed that they have completed a Pilot Project in Ghogha Drain, Bawana. Constructed Wetland with a cost of Rs. 2 Crores, designed to treat 1 MLD. Fatehpur Beri drain: Tenders were invited but no response so tenders will be invited again. Insitu treatment of Najafgarh & supplementary drain was started by construction of temporary weirs at 24 locations along with provisions of floating rafter and aerators. Since most of the smaller drains fall in these major drains therefore no further treatment is planned for rest by I&FCD. Weirs removed before the onset of monsoon. Techno feasibility analysis for two new options namely concrete blocks and geo tubes is being explored by I&FCD and timelines are yet to be provided. Work of installation of aerators have been awarded on 19.07.2022. In first phase 250 aerators shall be installed in Najafgarh Drain. Based on the assessment remaining floating aerator will be decided by YCC.
- DCB has informed that the work of in-situ treatment in 6 Nos. of drains is already being done by them and functional through chemical dosing. Since discharge of drain is very less in the range of above 1.5 MLD therefore treatment through chemical dosing has been adopted.
- PWD, Delhi has informed that consultancy work has been given to Delhi Technological University to suggest use of alternative technology for management of waste water in the PWD Drains.

The DTU has given its interim report in July 2021 and final report on 21.02.2022. Based on the their recommendations following have been done:

- a) Installation of Bioremediation Plant with capacity 2.5 MLD at Chattarpur South Delhi. The progress of work is 15% and it will be completed by 31.12.2022.
 - b) Installation of Bioremediation Plant of capacity 0.75 MLD in between main gate of Chattarsal Stadium towards Azadpur Metro Station, North Delhi. The work will be completed/within a 6 months after getting approval of Hon'ble Minister, RWD.
 - c) Installation of Bioremediation Plant of capacity 0.75 MLD at Majlis Park North East District, Delhi.
- DSIIDC has informed that Bioremediation/Phytoremediation is not possible for drains since their drains are smaller in size.
 - NTPC - Development of Eco Park at Badarpur Ash Dyke. DJB initiated a proposal for supplying of 5 MGD treated effluent from Okhla STP to NTPC Eco Park.
 - As decided in the meeting of IDMC on 10.08.2022 (1.) DJB to discuss the WAPCOS report separately to finalize line of action. (2) All DOAs to submit action plan for all the drains within 15 days and take necessary action.

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:

- Urban Development Department, Govt of NCT of Delhi is the Nodal Department for Govt of NCT of Delhi in respect of NGT case OA NO. 06/2012 in the matter of Manoj Mishra vs. Union of India & Ors. for control of pollution in river Yamuna in Delhi.
- RRC Delhi under the overall supervision of Pr. Secy (Env.) is monitoring the progress and matters related to NGT Case 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" for control of pollution in river Yamuna in Delhi.
- 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 above mentioned two NGT cases.

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 Hon'ble NGT orders in OA No. 06/2012 in the matter of Manoj Mishra Vs. Union of India & Ors. Regarding OA No. 673/2018, the issue is also being monitored by Chief Secretary on regular basis.

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 August, 2022 is at **Annexure-6**.

Water Quality of major Drains for the samples collected by DPCC Water Laboratory in the Month of August, 2022 is at **Annexure-7**.

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 January, 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 is as under:				
S. No.	Departments	Total	Installed	Target to be installed upto 31.10.2022
1.	DJB Installations	594	594	0
2.	By DJB for other Departments	89	89	0
3.	Monitored by DJB for other Government Departments	5472	3705	1767
4.	Schools	4549	4144	405
	Total	10704	8532	2172

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 Dhobi ghat 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:

81 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). Removal of Encroachment from the Flood Plain:

600 Jhuggies / Chappers have been demolished and 5 Acre land has been reclaimed.

150 Jhuggies in 2 acre land could not be removed due to stay by Courts. Details of removal of encroachment by DDA is given at **Annexure-8.**

(v). Demolition Program :

477.79 Hectares area has been retrieved from the encroachment by DDA in the floodplains of River Yamuna.

(vi). Removal of C&D Waste :

36,200 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 in the period 2018 to 2022 is given at **Annexure-9.**

(vii). 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 31.08.2022) is at **Annexure –10.**

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 **2,20,637** 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 **165,086** 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, **103.88 ha** of land has been afforested with **1,00,553** plant saplings by Forest Department, Delhi.

• Total land handed over till date	= 629.468 ha
• The area that has been afforested till date	= 627.98 ha
• Total no. of saplings planted	= 4,86,270

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:

Action Plan for use of treated waste water from STPs has been prepared by Delhi Jal Board and submitted to CPCB in compliance of the Orders of Hon'ble NGT dated 21.05.2020 & 21.09.2020 in OA No. 148/2016 in the matter of Mahesh Chandra Saxena Vs. South Delhi Municipal Corporation & Ors.

Out of 530 MGD of treated waste water from STPs about 90 MGD is being used for various purpose e.g. Horticulture, Irrigation, DTC Depot etc.

Progress on better utilization of treated waste water

The DJB has made continues efforts for better utilization of treated wastewater, which are mentioned below:-

1. DJB has written letters to respective stakeholders/ park owning agencies dated 23/5/2019 followed by reminders dated 11/6/2019, 17/6/2019, 21/6/2019, 16/7/2019 & 19/7/2019 requesting them to start taking treated effluent from STPs of DJB for their parks within the radius of 5 KM of STP by tankers as an interim arrangement as desired by the monitoring committee. DJB has installed

filling points at its all major STPs for filling the tankers. CEO DJB vide letter dated 28.12.2020 has also requested stakeholders to utilize the treated effluent through tankers in parks within 5 Kms radius of STP.

2. Notices were issued by DJB to DDA, NDMC, Municipal Corporations, CPWD, DMRC, PWD, DUSIB to submit ATR to Monitoring Committee to utilize treated effluent in their parks within 5 km radius of STPs filling points.
3. DJB has requested vide letter dated 5/9/2019 to all District Magistrates to seal the bore wells in the parks which are used for horticulture purpose. Reminders dated 7/10/2019, 11/11/2019 & 25/11/2019 were issued to District Magistrates to seal the bore well in parks used for horticulture purpose.
4. Another request was sent to Divisional Commissioner vide letter dated 29.10.2020 for issuance of suitable directions to respective District Magistrates to initiate/expedite sealing of bore wells in the parks where treated effluent from nearby STPs is not being used. CEO DJB vide letter dated 28.12.2020 has also asked Divisional Commissioner & District Magistrates to seal the borewells in the parks where treated effluent from nearby STPs is not being used.
5. As requested by the UD Deptt. vide letter dated 25.11.2020 , list of parks where bore wells were being used for horticulture purposes was sent to the District Magistrates on 26.11.2020 for sealing of bore wells.

Number of Tankers Deployed:

The details of tanker deployment by various stakeholders departments during the month of August, 2022 are as under:-

Agency	No. of tankers engaged
DTC	04
PWD	79
EDMC	2
IL & FS	01
DDA	10
Private Agencies	94
SDMC	16
AAI	00
Forest Department	5
CPWD	03
M/s L&T	08
NBCC	14
DJB internal Horticulture use	11
NDMC	2
TOTAL	249

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.

As informed by Delhi Jal Board, a meeting was held on 13.04.2021 through Video Conferencing 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. under chairmanship of Chief Secretary, Delhi. 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. In this regard, Delhi Jal Board shall 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 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.

Further 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 Pillar STPs.

70 MGD treated effluent at Coronation Pillar.

Treated effluent of 70 MGD STP at Coronation pillar is to be converted into 'C' Class Inland Surface Water by ultra filtration process and is to be discharged in river Yamuna about 8.60 kms upstream of Wazirabad. Tenders received for this work is in process for award.

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

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.

In absence of minimum Environmental Flow of river Yamuna in Delhi it is very difficult to achieve the bathing quality standards.

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

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

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

DPCC takes action against the violating Industries/ Units including Water Polluting Industries /Units and imposes Environmental Compensation (EC) on the Polluter Pays Principle regularly. Action taken by DPCC against the Industries / Units and Environmental Compensation (EC) imposed was informed to the Hon'ble Tribunal vide Action Taken Report filed before the Tribunal on 01.08.2019, 10.12.2019 & 13.05.2020.

Action taken by DPCC against Water Polluting Industries / Units u/s 33(A) of Water Act in the month of August, 2022 is briefed below :

- No. of Water Polluting Industries/Units against which Action was taken -- 08
- Show Cause Notices issued -- 07
- Directions for Closure issued -- 01
- Environmental Compensation (EC) Imposed -- Rs. 12.65 Lakh
- Environmental Compensation Received -- Rs. 18.87 Lakh
(including EC received for the EC imposed in past)

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	824	506	221	35	37	25	0
2.	BDO/REV.	131	119	3			9	0
3.	MCD	24	24					0
4.	DJB	6	0	6				0
5.	PWD	1	1					0
6.	CPWD	5	5					0
7.	ASI	16	16					0
8.	FOREST	26	26					0
9.	DELHI ARCH. DEPTT.	1	1					0
10.	DELHI WAKF BOARD	1	1					0
11.	DUSIB	1	1					0
12.	DSIIDC	4	4					0
13.	JNU	3	3					0
14.	IIT	1	1					0
15.	NTPC	1	1					0
		1045	709	230	35	37	34	0

- 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 waterbodies for immediate notification

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

- 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 | 11. Lam Pur |
| 2. Mundka | 12. Ghewara |
| 3. Hiranki | 13. Rampura |
| 4. Ashoka Park, New Friends Colony | 14. Sakur pur |
| 5. Prasad Nagar Lake | 15. Bhalswa Lake |
| 6. Mayapuri | 16. Mahipalpur |
| 7. Holambi Khurd | 17. Jhatikra |
| 8. Pooth Khurd | 18. Ambarhai |
| 9. Najafgarh Jheel | 19. Smriti Van Lake |
| 10. Ghewara | |

- 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.

XXVII. Yamuna Cleaning Cell (YCC)

Yamuna Cleaning Cell (YCC) under the chairmanship of Chief Executive Officer, DJB was constituted vide order dated 03.12.2021 and has been reconstituted vide order dated 09.02.2022 Copy of both the orders have been provided alongwith Monthly Progress Report for the month of January, 2022.

As per the said orders, Yamuna Cleaning Cell (YCC) shall be responsible for the cleaning and execution of Yamuna Cleaning Action Plan as decided by Govt. of NCT of Delhi.

The YCC is to focus on following 6 action points for control of pollution in River Yamuna :

- Increasing the capacity of Sewage Treatment Plants (STPs) and Decentralized Sewage Treatment Plants (DSTPs).
- In-situ cleaning of 4 drains: In situ treatment / cleaning of 4 major drains (Najafgarh, Supplementary Drain, Barapulla, Shahadara) outfalling into river Yamuna.
- All industrial waste to be diverted to Common Effluent Treatment Plants (CETPs)
- Connection of Drains / Drainage system of JJ Clusters (675 Nos) with the sewerage network.
- Connection of each and every household to sewerage network (including connections in all the 1799 unauthorized colonies)
- Desilting of sewer lines.

Meetings of the Yamuna Cleaning Cell are held regularly on weekly basis and 27 meetings were held till 22.07.2022 (copy of the minutes of the meeting on 22.07.2022 is enclosed as **Annexure - 11**). Eleven Teams comprising of the representatives of Delhi Jal Board, DPCC, DSIIDC & 3 Municipal Corporations (North DMC, SDMC & EDMC) have been constituted for Inspections and taking action against the violating Water Polluting Industries / Units in Delhi.

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 : <i>pH</i> - 6.5 - 9.0, , <i>TSS</i> ≤ 10 mg/l, <i>BOD</i> ≤ 10 mg/l , <i>COD</i> ≤ 50 mg/l, <i>Ammonical Nitrogen</i> ≤ 5mg/l, <i>Total Nitrogen (N-Total)</i> ≤ 10 mg/l, <i>Phosphate (PO₄ - P)</i> ≤ 2 mg/l , <i>Fecal Coliform(FC) (MPN/100ml)</i> < 230]	Compliance w.r.t. Design parameters
1	Mehrauli	5	22.73	21.0	20/30	02.08.2022	Not Meeting the Prescribed standard in respect of TSS (42 mg/l against the prescribed standard of ≤ 10 mg/l), COD (64 mg/l against the prescribed standard of ≤ 50 mg/l), BOD (30 mg/l against the prescribed standard of ≤ 10 mg/l) and Dissolved Phosphate as P (3.8 mg/l against the prescribed standard of ≤ 2 mg/l).	No
2	Okhla Phase – II	12	54.552	29.5	30/50	05.08.2022	Not Meeting the Prescribed standard in respect of TSS (36 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (28 mg/l against the prescribed standard of ≤ 10 mg/l), COD (52 mg/l against the prescribed standard of ≤ 50 mg/l) and Ammonical Nitrogen (2.6 mg/l against the prescribed standard of ≤ 5 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
3	Okhla Phase – III	37	168.20	130	30/50	05.08.2022	Not Meeting the Prescribed standard in respect of TSS (20 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (18 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
4	Okhla Phase – IV	45	204.57	175	30/50	05.08.2022	Not Meeting the Prescribed standard in respect of TSS (16 mg/l against the prescribed standard of ≤ 10 mg/l), COD (60 mg/l against the prescribed standard of ≤ 50 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
5	Okhla Phase – V	16	72.73	60	30/50	05.08.2022	Not Meeting the Prescribed standard in respect of TSS (24 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (20 mg/l against the prescribed standard of ≤ 10 mg/l), Ammonical Nitrogen (5.4 mg/l against the prescribed standard of ≤ 5 mg/l) and Dissolved Phosphate as P (2.2 mg/l against the prescribed standard of ≤ 2 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
6	Okhla Phase – VI	30	136.38	130	20/30	05.08.2022	Meeting the Prescribed standards.	Yes

7	Molarband	0.66	03	2.45	30/50	05.08.2022	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) , BOD (20 mg/l against the prescribed standard of ≤ 10 mg/l) and Dissolved Phosphate as P (3.2 mg/l against the prescribed standard of ≤ 2 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
8	Dr. Sen Nursing Home Nalla	2.2	10	11.5	10/15	04.08.2022	Meeting the Prescribed standards.	Yes
9	Vasant Kunj Phase – I	2.2	10	7.5	30/50	02.08.2022	Not Meeting the Prescribed standard in respect of TSS (32 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (20 mg/l against the prescribed standard of ≤ 10 mg/l),COD (62 mg/l against the prescribed standard of ≤ 50 mg/l) and Dissolved Phosphate as P (3.8 mg/l against the prescribed standard of ≤ 2 mg/l).However meeting the Design Parameters (BOD/TSS:30/50).	Yes
10	Vasant Kunj Phase – II	3	13.64	7.90	30/50	02.08.2022	Not Meeting the Prescribed standard in respect of TSS (38 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (26 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 (3.5 mg/l against the prescribed standard of ≤ 2 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
11	Ghitorni	5	22.73	6.8	30/50	N.A.	Samples could not be taken.	-
12	Delhi Gate Nalla Phase – I	2.2	10	11.5	10/15	04.08.2022	Meeting the Prescribed standards.	Yes
13	Delhi Gate Nalla Phase – II	15	68.20	73	10/10	04.08.2022	Meeting the Prescribed standards.	Yes
14	Kondli Phase – I	10	45.46	27	10/10	04.08.2022	Not Meeting the Prescribed standard in respect of TSS (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 mg/l).	No
15	Kondli Phase-III	10	45.46	45.4	10/10	-	Plant is under trial-run.	

16	Kondli Phase – IV	45	204.57	204	20/30	04.08.2022	Not Meeting the Prescribed standard in respect of TSS (288 mg/l against the prescribed standard of ≤ 10 mg/l), COD (348 mg/l against the prescribed standard of ≤ 50 mg/l), BOD (165 mg/l against the prescribed standard of ≤ 10 mg/l), Ammonical Nitrogen (44.5 mg/l against the prescribed standard of ≤ 5 mg/l), Oil & Grease (26.8 mg/l against the prescribed standards of ≤ 10 mg/l) and Dissolved Phosphate as P (38.0 mg/l against the prescribed standard of ≤ 2 mg/l).	No
17	Chilla	9	40.91	41.2	10/10	04.08.2022	Meeting the Prescribed standards.	Yes
18	Yamuna Vihar Phase – I	10	45.46	44.85	30/50	04.08.2022	Not Meeting the Prescribed standard in respect of TSS (24 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (20 mg/l against the prescribed standard of ≤ 10 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
19	Yamuna Vihar Phase – II	10	45.46	23	30/50	04.08.2022	Not Meeting the Prescribed standard in respect of TSS (26 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (20 mg/l against the prescribed standard of ≤ 10 mg/l), COD (60 mg/l against the prescribed standard of ≤ 50 mg/l), Dissolved Phosphate as P (3.4 mg/l against the prescribed standard of ≤ 2 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
20	Yamuna Vihar Phase – III	25	113.65	113.5	20/30	04.08.2022	Not Meeting the Prescribed standard in respect of TSS (30 mg/l against the prescribed standard of ≤ 10 mg/l) and BOD (24 mg/l against the prescribed standard of ≤ 10 mg/l), COD (92 mg/l against the prescribed standard of ≤ 50 mg/l) and Ammonical Nitrogen (6.0 mg/l against the prescribed standard of ≤ 5 mg/l).	No
21	Common Wealth Games Village	1	4.55	0.50	02/01	04.08.2022	Meeting the Prescribed standards.	Yes
22	Coronation Pillar Phase – I & II	20	90.92	20	30/50	17.08.2022	Not Meeting the Prescribed standard in respect of TSS (16 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (12 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 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
23	New Coronation Pillar	70	318.22	136	10/10	17.08.2022	Meeting the Prescribed standards.	Yes
24	Narela	10	45.46	30	30/50	16.08.2022	Not Meeting the Prescribed standard in respect of TSS (36 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (22	Yes

							mg/l against the prescribed standard of ≤ 10 mg/l), COD (52 mg/l against the prescribed standard of ≤ 50 mg/l) and Dissolved Phosphate as P (4.2 mg/l against the prescribed standard of ≤ 2 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	
25	Rithala Phase –II	40	181.60	187	15/20	08.08.2022	Meeting the Prescribed standards.	Yes
26	Rohini	15	68.19	40	30/50	08.08.2022	Not Meeting the Prescribed standard in respect of TSS (24 mg/l against the prescribed standard of ≤ 10 mg/l), COD (68 mg/l against the prescribed standard of ≤ 50 mg/l), BOD (18 mg/l against the prescribed standard of ≤ 10 mg/l), Ammonical Nitrogen (5.8 mg/l against the prescribed standard of ≤ 5 mg/l) and Dissolved Phosphate as P (3.6 mg/l against the prescribed standard of ≤ 2 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
27	Keshopur New (Phase I)	12	54.55	54.48	20/30	17.08.2022	Meeting the Prescribed standards.	Yes
28	Keshopur Phase–II	20	90.92	93	30/50	17.08.2022	Not Meeting the Prescribed standard in respect of TSS (44 mg/l against the prescribed standard of ≤ 10 mg/l), COD (52 mg/l against the prescribed standard of ≤ 50 mg/l) and BOD (28 mg/l against the prescribed standard of ≤ 10 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
29	Keshopur Phase–III	40	181.84	185	30/50	17.08.2022	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). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
30	Nilothi Phase – I	40	181.84	167	30/50	10.08.2022	Not Meeting the Prescribed standard in respect of TSS (52 mg/l against the prescribed standard of ≤ 10 mg/l), COD (96 mg/l against the prescribed standard of ≤ 50 mg/l), Dissolved Phosphate as P (6.4 mg/l against the prescribed standard of ≤ 2 mg/l), Ammonical Nitrogen (7.3 mg/l against the prescribed standard of ≤ 5 mg/l) and BOD (34 mg/l against the prescribed standard of ≤ 10 mg/l).	No
31	Nilothi Phase – II	20	90.92	96	10/10	10.08.2022	Meeting the Prescribed standards.	Yes
32	Pappankala Phase– I	20	90.92	95.8	30/50	10.08.2022	Not Meeting the Prescribed standard in respect of TSS (42 mg/l against the prescribed standard of ≤ 10 mg/l), COD (80 mg/l against the prescribed standard of ≤ 50 mg/l), Ammonical Nitrogen (6.2 mg/l against the prescribed standard of ≤ 5 mg/l) BOD (26 mg/l against the prescribed standard of ≤ 10 mg/l)	Yes

							and Dissolved Phosphate as P (4.8 mg/l against the prescribed standard of ≤ 2 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	
33	Pappankala Phase Phase – II	20	90.92	95	10/10	10.08.2022	Not Meeting the Prescribed standard in respect of TSS (16 mg/l against the prescribed standard of ≤ 10 mg/l) and BOD (12 mg/l against the prescribed standard of ≤ 10 mg/l).	No
34	Najafgarh	5	22.73	22.7	30/50	10.08.2022	Not Meeting the Prescribed standard in respect of TSS (48 mg/l against the prescribed standard of ≤ 10 mg/l), COD (78 mg/l against the prescribed standard of ≤ 50 mg/l), Dissolved Phosphate as P (4.9 mg/l against the prescribed standard of ≤ 2 mg/l) and BOD (28 mg/l against the prescribed standard of ≤ 10 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
35	Kapashera	5	22.73	22.7	10/10	02.08.2022	Meeting the Prescribed standards.	Yes
	Total		2874.01 (in MLD) 632.2 MGD	2410.28 (in MLD) 530.2 MGD				

Note:-

1. As per the Analysis Reports of DPCC Water Laboratory for August, 2022, out of 35 operational STPs of DJB, 33 STPs samples were analysed where 11 STPs were found complying with the standards prescribed by DPCC.
2. Out of 33 STPs, 27 STPs were found Complying w.r.t. Design parameters (BOD/TSS).

Status of 18 Major Drains Directly Out Falling into River Yamuna (As per the Information provided by DJB)**ANNEXURE- 2**

S. No.	Name of Drain	Discharge (MLD)	Status	Remarks
1.	Magazine Road Drain	7.8 (1.72 MGD)	Trap Completed.	Pollution in River Yamuna from this drain stopped.
2.	Sweeper Colony Drain	8.6(1.89 MGD)	Trap Completed.	---- Do--
3.	Khyber Pass Drain	1.7(0.37 MGD)	Trap Completed.	---- Do--
4.	Metcalf House Drain	17.25(3.80 MGD)	Trap Completed.	---- Do--
5.	Tonga Stand Drain	7.8(1.72 MGD)	Trap Completed.	There is small discharge from the local settlements downstream of trapping points for which it is proposed to trap and pump the same to the nearby sewer line.
6.	Moat Drain(Vijay Ghat)	Dry	Trap Completed. Dry drain	---- Do--
7.	Civil Military Drain	14.68(3.23 MGD)	Trap Completed.	---- Do--
8.	Delhi Gate Drain	75.16(16.55 MGD)	Trap Completed.	---- Do--
9.	Drain No 14	25.87(5.70 MGD)	Trap Completed.	---- Do--
10.	Tughlaqabad Drain	25.05(5.51 MGD)	Trap Completed.	---- Do--
11.	Kalkaji Drain	Merged with Tuglakabad Drain	Trap Completed.	---- Do--
12.	Tehkhand Drain	39.74(8.75 MGD)	Trap Completed.	---- Do--
13.	Sen Nursing Home Drain	43.20(9.51 MGD)	Trap Completed. However, overflow was observed from the gates on Sen Nursing Home Nallah installed by the agency operating the STP.	This drain is trapped into Dr Sen Nursing Home STP of Delhi As well as into the ring road trunk sewer. Some marginal flow passes/overflow. To stop this marginal flow permanent RCC Weir was being constructed to completely stop the overflow. However, the work was stopped by South MCD and the constructed structure was completely demolished by SDMC in the month of July 2020 due to the reason that it is caused obstruction to the flow during the monsoon, wherein WHO building was flooded.
14.	QudsiaBagh+ Morigate Drain	43.2(9.51 MGD)	Tenders have been re-invited and technical bid opened on 07.07.2022 . Bids are under evaluation.	Land allotted in O-zone. The payment of Rs 2.69 Cr as cost on 30/11/2021 and Rs 21.83 Lakh as interest on 15/03/2022 for allotment of 1500Sq.mLand for construction of STP at the mouth of Mori Gate has been handed over to DJB by DDA. For Morigate STP, alternative proposal is framed to carry the sewage to Nehru Vihar SPS for its treatment into Coronation Pillar STP by laying a rising main from proposed SPS at ISBT Kashmere Gate. Tenders have been re-invited and the work is likely to be completed by August. 2023.

15.	Barapulah Drain	145.15 (31.97 MGD)	DJB is undertaking works for trapping of sewage in the command of Barapulla Drain as per the report of expert member of Monitoring Committee and the work of trapping flow in Kushak drain at Andrews Ganj Pumping station have been completed. Further, the sewer rehabilitation works are also under implementation at Munirka, Sarai Kale Khan, Saket etc. All these measures are expected to be completed by August, 2022 which will reduce about 45.46 MLD (10 MGD) flow in the Barapulla Drain. The remaining flow is expected to be around 68.91 to 90.92 MLD (15 to 20 MGD) for which it was earlier planned to construct a STP of 90.1 MLD (20 MGD) before outfall into the Yamuna. However, due to very high cost of land demanded by DDA, alternative techno- economical proposal has been framed for Intercepting the Barapullah drain flow by laying of interceptor sewer through micro tunneling and conveying the flow to Okhla WWTP for treatment. The work has been awarded on 04.03.2022 and is proposed to be completed by June, 2023.	The timeline for completion of the scheme is June-2023.
16.	Maharani Bagh Drain	30.24 (6.66 MGD)	1. The work of trapping has been completed to partially trap the flow to the extent of 9-10 MLD in C.V. Raman Marg Trunk sewer. 2. DJB has been awarded on 04.03.2022 an alternative scheme of Intercepting the Barapullah drain flow in a proposed laying of interceptor sewer through micro tunneling and conveying the flow to Okhla WWTP for treatment in place of const. Of proposed 20 MGD STP at the mouth of barapullah drain. The balance flow of the maharani bagh drain will be trapped in the proposed scheme of barapullah drain. The completion of the scheme is proposed on June-2023.	The work has been awarded on 04.03.2022 and the timeline for completion is June-2023.
17.	Najafgarh Drain	2056.32 (452.9 MGD)	Work is in progress.	This is a large drain having flow about 450 mgd and hence, it cannot be trapped technically. However, its major 77 tributaries including 28 tributaries on Supplementary drain (172 mgd) are being trapped in ISP. There is about 453 MGD flow in the Najafgarh drain. Out of this at present 252 MGD comprises of treated effluent from STPs. From Haryana, untreated discharge of 105 MGD is being discharged through Badshahpur and DD-6 drains.
18.	Shahdara Outfall Drain	475.2 (104.66 MGD)	Work is in progress.	This is a large drain having flow about 105mgd and hence. It cannot be trapped technically. However, its major 31 major tributaries (70 MGD) is being trapped in ISP. Total discharge in Shahdara drain is about 105 MGD, out of which 50 MGD (i.e. 45%) is untreated sewage is being discharged by UP through Shahibabad, Indrapuri and Banthala drain.

Brief Status of Common Effluent Treatment Plants (CETPs) in Delhi
(Based on the Analysis Reports of DPCC Laboratory for the Month of August, 2022)

Annexure -3

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)	Action Taken
1	Jhilmil CETP	Jhilmil and Friends Colony Indl. Areas	16.8	5.273	04.08.2022	pH - 7.4 TSS - 432 COD - 558 BOD - 212 Oil & Grease – 25.4 Ammonical Nitrogen (N) – 25.6 Phosphate-36.9 Sulphide – 8.3	pH - 8.2 TSS - 106 COD - 138 BOD - 42 Oil & Grease – 7.8 Ammonical Nitrogen (N) – 4.3 Phosphate-4.2 Sulphide – 3.6	Meeting the Prescribed Standards except in respect of TSS (106 mg/l against Prescribed Standard of 100 mg/l), BOD (42 mg/l against Prescribed Standard of 30 mg/l) and Sulphide (3.6 mg/l against Prescribed Standard of 2.0 mg/l)	Letter issued to the CETP Society on 09.09.2022 with the direction to take necessary rectification measures to meet prescribed Standards and send the Action Taken/Compliance Report within 15 days.
2	Badli CETP	Badli Industrial Estate	12	2.389	08.08.2022	The Plant was Non-Operational at the time of Sampling.			Letter issued to the CETP Society on 09.09.2022 with the direction to take necessary rectification measures to meet prescribed Standards and send the Action Taken/Compliance Report within 15 days.
3	Mayapuri CETP	Mayapuri Indl. Area	12	3.47	02.08.2022	pH - 7.32 TSS - 496 COD - 548 BOD - 216 Oil & Grease – 18.8 Ammonical Nitrogen (N) – 29.2 Phosphate-148.3 Sulphide – 17.3	pH - 7.70 TSS - 72 COD - 106 BOD - 26 Oil & Grease – 4.6 Ammonical Nitrogen (N) – 6.1 Phosphate-3.9 Sulphide – 1.4	Meeting the Prescribed Standards.	Letter issued to CETP Society on 09.09.2022 directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC.

Brief Status of Common Effluent Treatment Plants (CETPs) in Delhi
(Based on the Analysis Reports of DPCC Laboratory for the Month of August, 2022)

Annexure -3

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)	Action Taken
4	Mangolpuri CETP	Mangolpuri Indl. Area	2.4	1.75	02.08.2022	pH -7.44 TSS - 448 COD - 572 BOD - 206 Oil & Grease – 14 Ammonical Nitrogen (N) – 18.3 Phosphate-116.8 Sulphide – 9.6	pH - 7.51 TSS - 82 COD - 168 BOD - 24 Oil & Grease –6.1 Ammonical Nitrogen (N) – 4.9 Phosphate-4.3 Sulphide – 1.4	Meeting the Prescribed Standards.	Letter issued to CETP Society on 09.09.2022 directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC.
5	Wazirpur CETP	Wazirpur Indl Area	24	2.328	03.08.2022	pH -7.4 TSS - 284 COD - 392 BOD - 98 Oil & Grease – 9.6 Ammonical Nitrogen (N) – 51.6 Phosphate-3.7 Sulphide – 6.8	pH -7.6 TSS - 82 COD - 112 BOD - 30 Oil & Grease – 3.8 Ammonical Nitrogen (N) – 12.2 Phosphate-2.1 Sulphide – 1.9	Meeting the Prescribed Standards.	Letter issued to CETP Society on 09.09.2022 directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC.
6	Nangloi CETP	Nangloi& Udyog Nagar Indl Areas	12	2.769	02.08.2022	pH -7.23 TSS - 438 COD - 412 BOD - 142 Oil & Grease – 13.1 Ammonical Nitrogen (N) – 17.2 Phosphate-17.4 Sulphide – 8.6	pH -7.6 TSS - 86 COD - 128 BOD - 26 Oil & Grease – 4.0 Ammonical Nitrogen (N) – 3.9 Phosphate-1.6 Sulphide – 1.5	Meeting the Prescribed Standards.	Letter issued to CETP Society on 09.09.2022 directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC.

Brief Status of Common Effluent Treatment Plants (CETPs) in Delhi
(Based on the Analysis Reports of DPCC Laboratory for the Month of August, 2022)

Annexure -3

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)	Action Taken
7	SMA CETP	SMA, Rajasthani Udyog Nagar and SSI Industrial Areas	12	2.667	03.08.2022	pH -7.1 TSS - 456 COD - 408 BOD - 132 Oil & Grease – 8.8 Ammonical Nitrogen (N) –28.1 Phosphate-92.1 Sulphide – 7.4	pH -7.6 TSS - 70 COD - 104 BOD - 28 Oil & Grease – 4.6 Ammonical Nitrogen (N) –6.9 Phosphate-3.2 Sulphide – 1.5	Meeting the Prescribed Standards.	Letter issued to CETP Society on 09.09.2022 directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC.
8	Okhla CETP	Okhla Indl. Area	24	1.340	05.08.2022	pH -7.5 TSS - 540 COD - 644 BOD - 248 Oil & Grease – 36 Ammonical Nitrogen (N) –62.6 Phosphate-154.2 Sulphide – 7.4	pH -7.9 TSS - 72 COD - 128 BOD - 26 Oil & Grease – 8.4 Ammonical Nitrogen (N) – 36.1 Phosphate-4.4 Sulphide – 1.3	Meeting the Prescribed Standards.	Letter issued to CETP Society on 09.09.2022 directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC..
9	Narela CETP	Narela Indl. Area	22.5	11.458	16.08.2022	pH -6.9 TSS - 436 COD - 262 BOD - 204 Oil & Grease – 21.2 Ammonical Nitrogen (N) –15.6 Phosphate-69.1 Sulphide – 7.5	pH -7.2 TSS - 88 COD - 148 BOD - 22 Oil & Grease – 8.0 Ammonical Nitrogen (N) –7.3 Phosphate-3.4 Sulphide – 1.4	Meeting the Prescribed Standards.	Letter issued to CETP Society on 09.09.2022 directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC.

Brief Status of Common Effluent Treatment Plants (CETPs) in Delhi
(Based on the Analysis Reports of DPCC Laboratory for the Month of August, 2022)

Annexure -3

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)	Action Taken
10	Bawana CETP	Bawana Indl. Area	35	22.288	16.08.2022	pH -6.3 TSS - 462 COD - 572 BOD - 218 Oil & Grease – 30 Ammonical Nitrogen (N) – 15.6 Phosphate-60.1 Sulphide – 5.9	pH -7.8 TSS - 86 COD - 122 BOD - 30 Oil & Grease –4.4 Ammonical Nitrogen (N) –7.9 Phosphate-3.5 Sulphide – 1.8	Meeting the Prescribed Standards.	Letter issued to CETP Society on 09.09.2022 directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC.
11	Naraina CETP	Naraina Indl. Area	21.6	4.38	02.08.2022	pH - 6.5 TSS - 468 COD - 456 BOD - 184 Oil & Grease -14.4 Ammonical Nitrogen (N)- 32.6 Phosphate-6.4 Sulphide – 8.1	pH - 7.6 TSS - 96 COD - 116 BOD - 24 Oil & Grease -4.4 Ammonical Nitrogen (N)-3.2 Phosphate-2.9 Sulphide – 1.3	Meeting the Prescribed Standards.	Letter issued to CETP Society on 09.09.2022 directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC.
12	GTK CETP	GTK Road Indl. Area	6	2.34	03.08.2022	pH - 7.2 TSS - 992 COD - 406 BOD - 326 Oil & Grease -14 Ammonical Nitrogen (N)- 43.6 Phosphate-29.4 Sulphide – 5.6	pH - 7.6 TSS - 82 COD - 106 BOD - 28 Oil & Grease -3.6 Ammonical Nitrogen (N)-14.8 Phosphate-3.6 Sulphide – 1.8	Meeting the Prescribed Standards.	Letter issued to CETP Society on 09.09.2022 directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC.

Brief Status of Common Effluent Treatment Plants (CETPs) in Delhi
(Based on the Analysis Reports of DPCC Laboratory for the Month of August, 2022)

Annexure -3

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)	Action Taken
13	Lawrence Road CETP	Lawrence Road Indl. Area	12	1.67	03.08.2022	pH - 6.6 TSS - 508 COD - 148 BOD - 148 Oil & Grease -22.4 Ammonical Nitrogen (N)-18.9 Phosphate-154.3 Sulphide – 8.4	pH - 7.2 TSS - 108 COD - 132 BOD - 44 Oil & Grease - 12.4 Ammonical Nitrogen (N)-7.2 Phosphate-42.7 Sulphide – 4.7	Meeting the Prescribed Standards except in respect of TSS (108 mg/l against Prescribed Standard of 100 mg/l), BOD (44 mg/l against Prescribed Standard of 30.0 mg/l), Oil & Grease (12.4 mg/l against Prescribed Standard of 10 mg/l), Phosphate (42.7 mg/l against Prescribed Standard of 5 mg/l) and Sulphide (4.7 mg/l against Prescribed Standard of 2.0 mg/l)	Letter issued to the CETP Society on 09.09.2022 with the direction to take necessary rectification measures to meet prescribed Standards and send the Action Taken/Compliance Report within 15 days.
		Total	212.3	64.122					

Status of Solid Waste Management including Legacy Waste in NCT of Delhi

1. Municipal Solid Waste Management :

Municipal Solid Waste Generation, Processing and Disposal

S. No.	Particulars	MCD	NDMC	DCB	Total
1	Total Municipal Solid Waste (MSW) Generation(in TPD)	11000	285	72	11357
2	No. of Wards	272	14 (Circles)	8	280 Wards + 14 Circles
3	Lifting / Collection of MSW (in %)	100%	100%	100%	NA
4	Segregation of MSW at Source (in %)	80-100 % (in 73 Wards) 60-80% (in 11 Wards) 50-60% (in 50 Wards) 40-50% (in 50 Wards) 20-40% (in 50 Wards) 10-20% (in 33 Wards)	100 % in all 14 Circles	95-100% in Model Wards of Civilian Area 60-70% in Army Area	NA
5	MSW Processed (in TPD)	4162 (37.8%)	265 (93%)	50 (69.4 %)	4477 (39.42%)
6	Recycling through MRF	244 (2.2%)	9 (3.2%)	4 (5.5%)	257 (2.26%)
7	Disposal through Compost Pits	538 (4.9 %)	11 (3.8%)	Nil	549 (4.83%)
8	Disposal of MSW in Landfill Sites	6056 (55.05%)	Nil	18 (25%)	6074 (53.48%)

(a) Collection, Segregation & Transportation of Municipal Solid Waste:

There are 3 Local Bodies in Delhi responsible for implementation of the Solid Waste Management Rules, 2016. Total Municipal Solid Waste generation in Delhi is **11357 Tonnes per day (TPD)**. For proper treatment and disposal of the municipal solid waste, waste segregation is pre-requisite and the local bodies are implementing a detailed plan of waste segregation at source, door to door collection, intermediate storage and transport facility with GPS for the segregated waste.

(b) Municipal Solid Waste Processing and Disposal Facilities:

There is one Integrated Solid Waste Management Facility at Bawana for processing of 2000 TPD of municipal solid waste having Waste to Energy Plant, Compost Plant and Engineered Sanitary Landfill. One Engineered Sanitary Land Fill is proposed to be developed at Tehkhand. An Integrated Solid Waste Management Facility for 2000 TPD was proposed to be developed at Ghonda Gujran however Principal Committee constituted by Hon'ble NGT has not permitted the said Facility since it was falling in the Flood Plain of River Yamuna.

(c) Waste to Energy Plants :

Delhi has 3 Waste to Energy Plants (WTE Plants) of capacity 4550 TPD at 3 different locations in Delhi namely Okhla, Ghazipur and Bawana. One new Waste to Energy Plant of capacity of 2000 TPD is under construction at Tehkhand and another new Waste to Energy Plant of capacity of 3000 TPD is proposed at Narela-Bawana. Expansion of existing WtE at Okhla from 1950 TPD to 2950 TPD (from 23 to 40 MW Capacity) and existing Waste to Energy Plant at Bawana from 24 MW to 60 MW Capacity (up to 3000 TPD) are proposed. Public Hearing for Expansion of existing WtE at Okhla is scheduled on 16.08.2022 and Public consultation will be done in case of proposed expansion of existing Waste to Energy Plant at Bawana as per the Terms of Reference issued by MoEF&CC vide letter dated 29.06.2022. After commissioning of the WtE at Tehkhand in September, 2022 and abovementioned proposed projects, the capacity of WTE Plants will enhance from 4550 TPD to 12350 TPD by August, 2025.

Operational Waste to Energy Plants in Delhi

S. No	Name of Waste to Energy Plant	Existing Capacity	
		Waste Processing (in TPD)	Electricity Generation(in MW)
1.	Timarpur Okhla Waste management Company Ltd., Old NDMC Compost Site, Okhla.	1950	23
2.	East Delhi Waste Processing Company Ltd., Ghazipur	1300*	12*
3.	Delhi MSW Solutions Ltd Narela Bawana Road, Bawana	1300	24
Total		4550	59

(d) Gap Analysis on Solid Waste Management

Generation (in TPD)	Processing/ Recycling (MRFs) / Composting/Bio-methanation (in TPD)	Gap (in TPD)
11357	5283	6074

(e) Proposed Waste Processing & Disposal Facilities in Delhi

S.No.	MSW Facility	No(s)	Location	Local Body	Capacity (in TPD)	Expected Timeline for Completion
1.	Waste to Energy Plant	1	Tehkhand	MCD	2000	October, 2022
2.	Waste to Energy Plant	1	Narela-Bawana (For 3 Zones (City-SP, Karol Bagh & Narela Zone)	MCD	3000	August, 2025
3	Expansion of existing WtE at Okhla	1	Okhla	MCD	1000 (From 1950 TPD to 2950 TPD)	Public Hearing is scheduled on 16.08.2022.
4	Expansion of existing WtE at Bawana	1	Bawana	MCD	1800 (From 24 MW to 60 MW)	TOR issued by MoEF&CC on 29.06.2022. Draft EIA/EMP Report awaited.
5.	Bio CNG Plant	1	Okhla	MCD	300 TPD (From existing compost plant of 200 TPD to 300 TPD)	July, 2023
6.	Compressed Bio Gas (CBG) Plant	1	Hastsal	MCD	100 TPD	April, 2023

7.	Sorting cum Composter Plants	2	Kirby Place in Delhi Cantt.	Delhi Cantonment Board	50 (Total Capacity of 2 Plants)	September, 2022
8.	Decentralised Composter Plants	2	- Ramleela Ground - Vishwas Nagar	MCD	2 (1TPD each)	September, 2022 October, 2022
	Engineered Sanitary Landfill (SLF)	1	Tehkhand	MCD	-----	April, 2023
	Total	10 + One SLF			8252 TPD	

Note : 1. Bio-CNG Plants at Nangli Dairy (215 TPD), Goyla Dairy (215 TPD), Ghogha Village Dairy (290 TPD) and Bio-gas plant at Ghazipur (185 TPD) are proposed.

2. Two MRFs one each at Bhalaswa Dairy (150 TPD by Dec, 2022) and Rampura (30 TPD extendable upto 50 TPD) are proposed.

(f) Decentralized Waste Management Facilities (Compost Plants /Biomethanation Plants)

The Government is in the process of installation of decentralized Waste Management Facilities (Compost Plants / Bio- Methanation Plants) so that the solid waste generated is segregated and treated at source and the transport and dumping of waste in faraway areas can be done away with. The details of the decentralized plants already commissioned and those at different stages of commissioning are as follows:

Operational Decentralized Waste Processing Facilities :

[Bio-methanation Plants–10 Nos of 5 TPD each + 6 Nos in NDMC Area, Compost Plants–19 Nos of 1 TPD each, + 31 Organic Waste Composters]

Sl. No.	Local Body	Composting	Bio- methanation Plant
1.	DCB	1 Sorting Cum Composter of 20 TPD at Tigris Road, 2 Food Waste Composters (OWCs) (0.125 TPD + 0.05 TPD) - Total Capacity - 20.175 TPD	Nil
2.	NDMC	13.15 TPD [28 Organic Waste Convertors (OWCs)]	8.25 TPD (6 Nos)
2.	MCD	- One Centralised Compost Plant at Okhla (200 TPD) is closed for upgradation into Bio-CNG Plant of 300 TPD - One Centralised Compost Plant of 700 TPD within Integrated Waste Complex at Bawana 19 Composters of 1 TPD each at various locations (19 TPD)	50 TPD (10 Nos of 5 TPD each) (Commissioned but not in operation)

2 Compost plants of 1 TPD each are proposed to be installed by October, 2022.

MCD

(i) Accelerated Composter Plant 1 TPD Capacity (19 Nos)

- 19 Plants commissioned at various locations.
- One Composter Plant of 1 TPD at Nursery of Ramleela Ground is expected to be commissioned by September, 2022.
- One Composter Plant of 1 TPD at Vishwas Nagar is expected to be commissioned by October, 2022.

(ii) Bio-Methanation Plants 5-TPD Capacity (4 Nos)

- 10 Plants commissioned at Roshanara Bagh, MVID Hospital, Naraina Industrial Area Ph-1 & Mangolpuri Industrial Area Ph-I, Sarita Vihar, Dwarka Sector 14, Punjabi Bagh Nursery, Masood Pur in Vasant Kunj, Geeta Colony & Shastri Park have been commissioned, however, not in operation.

2. Remediation of Legacy Waste (Old MSW):

There are 3 Dumpsites at Ghazipur, Bhalaswa and Okhla in Delhi where Municipal Solid Waste have been dumped and there was legacy waste of 28 Million Tons as mentioned in the orders dated 17.07.2019 of Hon'ble National Green Tribunal in OA No. 519 / 2019 in the matter of News item published in "The Times of India" Authored by Jasjeev Gandhiok & Paras Singh Titled "Below mountains of trash lie poison lakes" and OA No. 386/2019 in the matter of "Centre for Wildlife and Environment Litigation" Vs Union of India & Ors."

In the said case Hon'ble National Green Tribunal has passed detailed order regarding Disposal of 'Legacy' Waste dumped at Bhalaswa, Ghazipur and Okhla Dumpsites and given various directions. Hon'ble NGT has directed the Municipal Corporations to go for bio mining using trommels instead of capping of the dump sites at Bhalaswa, Ghazipur and Okhla. The estimated cost to clear the above three dump sites at Delhi may be approx. Rs. 250 Crores as given below :

- i. EDMC - Rs. 125 Crores
- ii. North MCD - Rs. 75 Crores
- iii. SDMC - Rs. 50 Crores

As per the directions of the Hon'ble Tribunal the contributions towards said amount of Rs. 250 Crores in three separate ESCROW accounts will be as follows :

i	EDMC	NCT Delhi EDMC NDMC* DCB**	Rs. 65 Crore Rs. 40 Crore Rs. 10 Crore Rs. 10 Crore	Total = 125 Crores
ii	North MCD	NCT Delhi North MCD NDMC DCB	Rs. 35 Crore Rs. 30 Crore Rs. 05 Crore Rs. 05 Crore	Total = 75 Crores
iii	SDMC	NCT Delhi SDMC NDMC DCB	Rs. 25 Crore Rs. 15 Crore Rs. 05 Crore Rs. 05 Crore	Total = 50 Crores
Total				250 Crores

As directed by the Hon'ble NGT, the Committee headed by Chief Secretary, Govt. of NCT of Delhi has been constituted vide order dated 25.07.2019. The ESCROW accounts for North DMC, East DMC and South DMC have been opened. Regular meetings of the Committee headed by Chief Secretary are held to review the progress in the said matter.

Out of Rs. 250 Crores, an amount of Rs. 245 Crores have been contributed by the DPCC, DMCs, DCB & NDMC. DCB has deposited only 15 Crores (out of Rs. 20 Crores) and filed an application before the Hon'ble Supreme Court for exemption of Rs. 5 Crores to be deposited to North DMC, because DCB is not dumping its MSW at Bhalaswa landfill site.

The implementation of the project has been started w.e.f. 01.10.2019. Inert material generated during the process is about 60% to 70% by weight or 40% by volume of the waste being processed, which needs to be disposed of in a scientific manner. It is a major challenge before the municipal corporations to make suitable land available for disposal of this inert material particularly since the availability of land is extremely scarce in Delhi. SDMC on behalf of all the three DMCs has moved an application to Forest Department for procurement of space in four empty pits of Bhatti mines for temporarily dumping inert materials generated due to bio-mining.

In pursuance of the Order dated 23.03.2020 passed by Hon'ble National Green Tribunal in above mentioned case and Integrated Special Purpose Vehicle (SPV) was constituted vide order dated 14.07.2020 for the scientific management, processing and disposal of Legacy Waste. The said committee is headed by Chief Secretary and having Pr. Secy. (Env.), Commissioners of SDMC, EDMC & North DMC, Secy. (UD Deptt),

Sh. Manish Singh (IAS, Director, Swatch Bharat, Bhopal) and Sh. Vijay Nehra (IAS, Comm., Municipal Corp., Ahmedabad) as members.

As per the said order, a Joint Committee comprising representatives of CPCB, NEERI & IIT Delhi has assessed the Amount of Damage to Environment due to three dumpsites in Delhi as mentioned in following table:

S.No.	Name of the Municipal Corporation	Name of the Dumpsite	Damage Cost assessed, (Rupees)
1.	Erstwhile North DMC	Bhalaswa	155.9 Crore
2.	Erstwhile East DMC	Ghazipur	142.5 Crore
3.	Erstwhile South DMC	Okhla	151.1 Crore
Total			449.5 Crore

Hon'ble NGT has disposed of the above mentioned case vide order dated 29.01.2021 with following directions:

“Accordingly, we direct the NCT Delhi and the Municipal Corporations concerned to coordinate and execute the work of remediating the legacy waste dump sites for enforcing the rule of law and protection of environment and public health, expeditiously in terms of earlier orders of this Tribunal. Due care has to be taken for preventing fire accidents on the landfill sites and maintaining stability of the dumps. The Chief Secretary, Delhi, may continue to hold meetings for coordination with all the stake-holders, at least once in a month, as earlier directed to device ways and means to expedite the pending work, including coercive measures against those responsible for delay. The CPCB is at liberty to recover the compensation already assessed, with further compensation for continuing damage till compliance of law, following due process of law. The amount of recovered compensation be spent on restoration of environment in Delhi.”

As informed by Municipal Corporation of Delhi, following are the timelines for remediation of legacy waste at three dumpsites in Delhi :

Dumpsite	Timeline for 100% remediation
Ghazipur	March, 2024
Bhalaswa	December, 2023
Okhla	September, 2023

The Status of Bio-Mining of Legacy Waste at 3 Dumpsites at Okhla, Ghazipur & Bhalaswa in Delhi (as on 31.08.2022) is given in following Table :

S.No.	Name of the Dumpsite	Quantity of Legacy Waste Dumped (As in July, 2019)	Total Quantity of Legacy Waste Processed (As on 31.08.2022)	No. of Trommels Operational
1	Ghazipur	140 Lakh Ton	12.68 Lakh Ton (9.05 %)	12
2	Okhla	60 Lakh Ton	19.43 Lakh Ton (32.38 %)	11
3	Bhalaswa	80 Lakh Ton	25.98 Lakh Ton (32.47 %)	18
Total		280 Lakh Ton	58.09 Lakh Ton (20.74 %)	41

Urban Development Department, Govt. of NCT of Delhi is coordinating the said matter, conducting meetings of the said Committee and filing Status Report on behalf of Govt. of NCT of Delhi to Hon'ble National Green Tribunal from time to time.

GOVERNMENT OF NCT OF DELHI
INTIGRATED DRAIN MANAGEMENT CELL (IDMC)
DELHI SECRETARIAT, I.P. ESTATE, NEW DELHI

No: CEO/IDMC/2022/ **D-1539**

Dated: **23/8/2022**

"STOP CORONA: Wear Mask, Follow Physical Distancing, Maintain Hand Hygiene"

Minutes of the 14th Meeting of "Integrated Drain Management Cell" for remediation and drain management of all drains of Delhi, chaired by the Chief Secretary, Govt. of NCT of Delhi on 10.08.2022 constituted on the direction of Hon'ble NGT dated 05.03.2020 OA No 06/2012 in the matter of Manoj Mishra v/s Union of India & others.

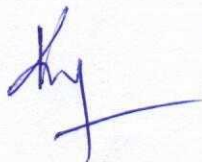
The 14th IDMC meeting was held on 10.08.2022 under chairmanship of Chief Secretary. The attendance sheet is attached as Annexure "A".

A detailed presentation was made by CEO, DJB covering Hon'ble NGT directions and IDMC decisions taken during various meetings.

1. The details of drains having discharge of more than 1 MLD are submitted by only following Drain Owning Agencies (DoAs):
 - i. MCD - There are 658 drains having discharge for more than 1 MLD. The budget required for implementing above scheme is about Rs. 243.18 Crore.
 - ii. PWD- There are 3 drains having discharge more than 1 MLD for which projects have been taken up.
2. It was apprised that the performance audits of following 3 pilot projects were undertaken by DJB through a third party.
 - i. Shahdara Jheel pilot **project of MCD**- The desired parameters are not being achieved.
 - ii. Dhobi Ghat and Kilokari Wetland pilot **projects of DDA** - The desired parameters are not being achieved.

It was decided that the performance audit reports will be shared with the respective agencies, who will take remedial measures to meet the desired parameters.

3. DJB informed that as decided in the last meeting, the WAPCOS report on the use of treated effluent has been shared with all nodal officers of IDMC.



4. It was informed by DJB that:

- i. On the basis of WAPCOS report, the block estimate for supply of treated effluent to 1070 parks of MCD, DDA and forest etc. (Approx 3.70 MGD) up to delivery points has been processed and "in principle" approval of the Hon'ble Chairman, DJB received on 27/06/2022 for Rs. 55 Cr. Detailed estimate is being prepared and tenders shall be called after administrative approval of the estimate.
- ii. WAPCOS has been asked to prepare the DPR from delivery points to all 1070 parks in 2nd phase. Draft DPR has been received and under process of finalisation.
- iii. The tenders for supply of treated effluent from Okhla STP to Eco Park, NTPC (5 MGD) amounting Rs. 18 Cr. (approx.) have been received and under process of approval.

After detailed discussion, the Chief Secretary directed;

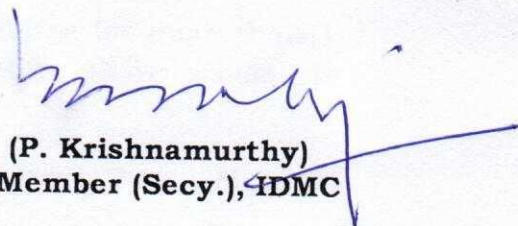
1. DJB to discuss the WAPCOS report with him separately to finalize further line of action.
2. All DoAs to submit action plan for all the drains within 15 days and take necessary action.

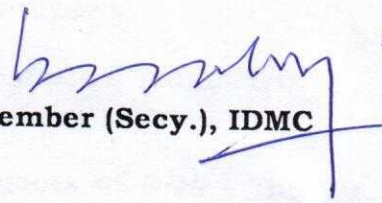
Meeting ended with thanks to the Chair.

All Concerned

Copy to:-

1. SO to CS


(P. Krishnamurthy)
Member (Secy.), IDMC


Member (Secy.), IDMC

	DELHI POLLUTION CONTROL COMMITTEE WATER LABORATORY 4thFLOOR, ISBT BUILDING, KASHMERE GATE, DELHI-06 visit us at : http://dpcc.delhigovt.nic.in
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WATER QUALITY STATUS OF RIVER YAMUNA

REPORT NO: DPCC/W/Y/22-23/ 4982
 DATE OF SAMPLING: 01.08.2022

Dated: 25/8/2022

S. No.	Locations	Latitude Longitude	pH	COD (mg/l)	BOD (mg/l)	DO (mg/l)	Fecal Coliform MPN/100ml
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	7.40	36	2.0	10	11×10 ²
2	Wazirabad	28.7131310, 77.2319304	7.48	69	7.0	6.4	20×10 ³
3	ISBT Bridge	28.6713533, 77.2338207	6.99	208	48	NIL	24×10 ⁴
4	ITO Bridge	28.6284288, 77.2534977	7.28	181	50	0.8	21×10 ⁴
5	Nizamudin Bridge	28.5915608, 77.2715342	7.46	224	58	NIL	41×10 ³
6	Okhla Barrage	77°18’49” 28°32’40”	7.38	240	70	NIL	70×10 ⁴
7	Agra Canal at Okhla Barrage	28.545414, 77.311075	7.44	184	60	NIL	39×10 ⁴
8	River Yamuna at Asgarpur (After confluence of Shahdara & Tuglakabad drains)	28.4657003, 77.33905231	7.22	272	75	NIL	6.8×10 ⁵


 I/C Water Lab

Scientist 'C'



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

WATER QUALITY STATUS OF DRAIN

REPORT NO: DPCC/W/D/22-23/ 4983

Dated: 25/8/2022

Date of Sampling: -01.08.2022

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	7.43	172	384	75
2.	Metcalf House Drain	7.20	48	64	30
3.	Khyber Pass Drain	NO FLOW	NO FLOW	NO FLOW	NO FLOW
4.	Sweeper Colony Drain	7.40	168	224	52
5.	Magazine Road Drain	NO FLOW	NO FLOW	NO FLOW	NO FLOW
6.	ISBT Drain	7.38	152	320	56
7.	Tonga Stand Drain	7.21	56	85	33
8.	Civil Mill Drain	7.33	112	336	58
9.	Sen Nursing Home Drain	7.22	156	352	65
10.	Drain No. 14	7.42	50	112	29
11.	Power House Drain	7.26	144	256	63
12.	Indrapuri Drain	7.28	148	288	68
13.	Sonia Vihar Drain	7.36	208	368	83
14.	Kailash Nagar Drain	7.28	180	304	64
15.	Shastri Park Drain	7.46	116	272	70
16.	Barapulla Drain	7.45	124	320	60
17.	Maharani Bagh Drain	7.60	120	346	73
18.	Old Agra Canal Drain	7.52	128	293	53
19.	Jaitpur Drain	7.44	92	266	42
20.	Sarita Vihar Pool	7.54	96	240	54
21.	Tuglakabad Drain	7.43	30	72	20
22.	Drain Near LPG Bottling Plant	4.32	68	266	48
23.	Drain Near Sarita Vihar Bridge (Mathura Road)	NO FLOW	NO FLOW	NO FLOW	NO FLOW
24.	Shahdara Drain	7.28	132	352	66
25.	Sahibabad Drain	7.55	140	373	65
26.	Molarband Drain	7.42	84	192	50
27.	AbulFazal Drain	7.65	116	360	62
28.	Supplementary Drain	7.38	108	208	55

N. M. B.

I/C Water Lab

Dr. ...
 Scientist 'C'

Removal of Encroachment

S.No	Project Area	Total Site Area (In Ha)	Area repossessed (In Ha)	Area to be repossessed (In Ha)	Eviction Details
1	Asita East (DDA)	90	90	Nil	-
	Asita East (UP)	107	20.24	30 Hac.	107 Hectares-21 Hectares=86 Hectares (212.42 Acres), 21 Hectares area has Already been transferred to PWD by UP irrigation Deptt.
2	Kalindi Aviral	100	0.81	Nil	-
3	Kalindi Biodiversity Park	115	2.50	-	-
4	Asita west	200	176.19	23.81	
5	Amrut Biodiversity Park	116.25	79 +7.5 =86.50	4.5	One more demolition programmes required.
6	Yamuna Vanasthali	236.5	86.03	50 Hac.	
7	Mayur Nature Park	235	23.02	The figure cannot be mentioned	Land Demarcation Issues, Coordination with SDM,GNCTD in progress.
TOTAL		1152.66	477.79	108.31 Ha	Regular demolition programmes are being organized to remove the encroachments in time bound manner.

DETAILS OF CHALLANS FROM THE YEAR 2018-22

Sl. No.	Year	Offence	No. of challans	Compensation amount	Recovery amount
1.	2018	Dumping of malba	1	Rs.50,000/-	Nil
2.	2019	Dumping of malba, unauthorized parking and garbage dumping in Yamuna River flood plain.	186	Rs. 90,40,000/-	Rs.22,92,500/-
3.	2020	Dumping of malba and unauthorized parking in Yamuna River flood plain.	54	Rs.21,30,000/-	Rs.4,95,000/-
4.	2021	Dumping of malba and illegal parking in Yamuna River Flood Plain	776	Rs.1,22,95,000/-	Rs.13,10,000/-
5.	2022	Dumping of malba and illegal parking in Yamuna River Flood Plain	656	Rs.1,12,00,000/-	Rs.3,15,000/-
		TOTAL =	1673	Rs. 3,47,15,000/-	Rs.44,12,500/-

Status of 'Restoration and Rejuvenation of River Yamuna floodplains' as of 31st August, 2022

	Project	Area/ Encroached area/Jhuggis	Water bodies Total / Completed	Sanction Amount / Expenditure	Timelines (Phase-I)	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. / 30 Ha./928 Nos.	PART A: 1/1 PART B: 3/1	PART A: 20.93 Cr. / 9.99 Cr. PART B: 35 Cr (Deposit)	PART A: Completed PART B : 30.09.2022	PART A (Phase-I): Completed. Phase-II : i) Signages work in progress. ii) Bio-toilet work completed. PART B: Present progress is 40%. Work completed are as under: 1. Excavation of 3 water bodies out of 3 2. 3 ramps out of 3 3. Embankment of 1 parking out of 1 4. WP (C)6779/2021 is decided in DDA favour and unauthorized structures removed on 10-08-2022, 17-08-2022, 18-08-2022 & 19-08-2022 Work and Encroachment removal are delayed due to lock down, Corona, ban & Court case.
2.	Kalindi Aviral- (NH24 to DND Flyway- Western Bank)	100 Ha	4/3	34.98 Cr. / 11.80 Cr.	Completed	Phase-1 Completed Ph-2- 30.09.2022
3.	Kalindi Biodiversity Park- (DND to proposed Kalindi By-Pass- Western Bank) Entrusted to CEMDE	115 Ha	11/8	22.49 Cr. / 8.56 Cr	Wetland completed in available space.	Project is being executed by CEDME. (Prof. C R Babu) Wetlands are completed in available space. Further work is held up due to NHAI work.
4.	Asita West- (Old Railway Bridge to ITO Barrage- Western Bank)	200 Ha / 7 Ha/695 Nos. (93 Ha already completed)	6/3	52.96 Cr. / 11.85 Cr.	30/09/2022 (for the balance 107 Ha area)	Present progress is 82%. Work completed are as under (for 107 Ha) : 1. Excavation of 4 water bodies out of 4 2. Excavation of 1 oxidation pond out of 1 3. 1900m moorum path out of 2500 m 4. 3 ramps out of 3 5. 1100 m cycle hike zone (cycle track) out of 1200 m Work and Encroachment removal are delayed due to lock down, Corona, ban & Court case. Next date of hearing 13/10/2022 Tender for ph-2: i) Signages work in progress. ii) Bio-toilet work in progress.

Status of 'Restoration and Rejuvenation of River Yamuna floodplains' as of 31st August, 2022

5.	Amrut Bio Diversity Park- ITO to NH-24 (Eastern & Western Bank)- Area South of CWG Village Area	116.25 Ha / 4.5 Ha /217 Nos. (90 Ha on Eastern Bank & 18 Ha on Western Bank to be done by DDA, 8.25 Ha to be done by CPWD)		96.98 +387.92 Cr./4 Cr.	31.10.2022 (for 90 Ha)	For 90 Ha of land: Present progress is 42%. Work completed are as under (For 90 Ha): 1. Excavation of 5 water bodies out of 6. 2. 2000 m pedestrian path of 12000m. 3. 1 entrance plaza out of 2. Work are delayed due to lock down, Corona, ban, NGT directions & flooding of site.
6.	Wazirabad to Old Railway Bridge- Western Bank Entrusted to INTACH	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	87.98 Cr.	31.10.2022 (for Qudsia Ghat) only for 16 Hact. Land.	Present progress is 3%. The work has been assigned to M/s INTACH on nomination basis for Quadsia Ghat.
7.	Yamuna Vanasthali- (Wazirabad Barrage to ISBT Bridge- Eastern Bank, around GarhiManduVillage &Usmanpur Village)	236.5 Ha / 21 Ha/173 Nos.	10	54.28 Cr./2.42 Cr.	31.08.2022	Present progress is 80%. Work completed are as under (for 236.5 Ha): 1. Excavation of 6 water bodies out of 9, 1 in progress & 2 in hindrance. 2. 70% pedestrian path completed Work and Encroachments / Jhuggis removal are delayed due to lock down, Corona& ban. Approx 150 NosChhapars/labour huts demolished
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	Total Area- 397.75 Ha PART A: 235 Ha PART B: 162.75		PART A: 82.20 Cr. PART B: 53.24 Cr.	-----	Issues: i. LM Department informed that approximately 100 Ha of land has been de-notified out of the total 235 Ha. ii. The land demarcation is completed now by Revenue Department & which is being delayed. Accordingly, the landscape plan also needs to be reworked. The work of UP Irrigation land of 162.75 Ha is

Status of 'Restoration and Rejuvenation of River Yamuna floodplains' as of 31st August, 2022

	Irrigation Deptt.	Ha				to be taken up on deposit work basis.
9.	Eco-Tourism Area- (Geeta Colony Bridge to ITO Barrage- Western Bank)	30 Ha/3.33 Ha/32 Nos. (14 Ha land is with IPGCL)		86.73 Cr.	Land department has been requested to take back the land.	Area falls outside 1 in 25 year floodplain. The land is yet to be retrieved. Only 9.6 Ha of the land is currently available for development.
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- 45 Ha PART A: 15 Ha PART B: 30 Ha		PART A: 1.48 Cr. PART A: 10 Cr.	PART A: - PART B:-	The project comprises of creation of wetlands for treating water from the Hindon Canal the mouth of which falls under the jurisdiction of UP Irrigation Department. Work is entrusted to CEMDE The land demarcation is now completed by Revenue Department. Accordingly, the landscape plan also needs to be reworked.
	Total	DDA- 1203.75 Ha / 94.84 Ha/2195 Nos. <u>UP Irrig.- 299.75Ha</u> 1503.5 Ha	36/16	DDA- 928.93 Cr. (541.01 +387.92) / 47.57 Cr. UP- 98.24 Cr.		(a) Completed DDA = 283 Ha (0.5+ 1+0.5= 2 Nos.) (b) In progress DDA= 640.75 Ha (1+0.5+1+1+1= 4.5 Nos.) <u>UP Irrig. = 107 Ha. (0.5 Nos)</u> 747.75 Ha (c) In planning DDA= 280Ha <u>UP= 192.75 Ha</u> 472.75 Ha



**DELHI JAL BOARD: GOVT. OF NCT OF DELHI
OFFICE OF THE Addl. CHIEF ENGINEER (C) -1
ROOM NO. 407, VARUNALAYA PHASE -I
KAROL BAGH, NEW DELHI-05**

No. DJB/Addl.CE(C)-1/2022 379 to 397

Date: 10.08.2022

Subject:- Minutes of 27th meeting of Yamuna Cleaning Cell (YCC) held under the chairmanship of CEO-DJB at conference hall DJB on 22.07.2022.

The Govt. of NCT of Delhi has constituted Yamuna Cleaning Cell to achieve the target to clean Yamuna. 27th meeting of the Yamuna Cleaning Cell was held under the Chairmanship of CEO-DJB. The following members of Yamuna Cleaning Cell attended the meeting.

1. CEO, DJB In chair
2. Member Drainage, DJB
3. Pr. CE (DR)-PR-I, DJB
4. Sh. K.C. Meena, ACE(P)-3 on behalf of CE(SDW), DJB
5. Ms. Shilpa, Addl. Comm. MCD
6. Sh. Shaliendra Dania, CE (DUSIB)
7. Sh. R.S. Ahlawet, CE (DSI IDC)
8. Sh. Deepak Kr. Shrivastwa, ACE(C)-1, DJB
9. Sh. Sanjay Sharma, Dir.(T&QC), DJB
10. Sh. Satish Kataria, SE(MCD)
11. Sh. S.L. Bairwa, SE(MCD)
12. Sh. Ravinder Kumar, SE(I&FC)
13. Sh. Jitender Kumar, SE-IV (I&FC)
14. Sh. S.K. Goyal, EE(DPCC)
15. Sh. Krishan Kaushik, JEE(DPCC)

The progress of various initiatives being taken under Yamuna Cleaning Cell was discussed as follows:-

1. The issues pertaining to I&FC were discussed with regard to Insitu treatment in Najafgarh drain & Supplementary drain by Construction of temporary weirs, Floating Wetlands & Aerators. The activities of temporary weir and floating wetlands are being taken up by I&FC and the activity of floating Aerators is being taken up by DJB. It was informed by DJB that they have already finalized tender for floating Aerators and waiting for other activities to be completed by I&FC. It was informed by the I&FC that the temporary weir have been removed

during the monsoon season. Further, I&FC informed that they have not yet taken decision on construction of weir & floating wetlands post monsoon. It was earlier informed by I&FC that Techno feasibility analysis for two new options namely concrete blocks' & geo tubes is being explored by I&FC and shall be finalized by 15.07.2022. However, the same is not yet finalized by I&FC. CEO-DJB directed that I&FC should confirm within a week regarding their decision on continuation of the Insitu treatment so that further required action regarding floating Aerators may be taken by DJB accordingly.

2. I&FC shared the results of in situ drain treatment at Ghogha drain, with DJB. Highest TSS removal %age was reported as 84% and BOD removal as 61% dated 28.05.2022 & Lowest % age of TSS removal was reported as 27% and BOD removal as 22% dated 27.05.2022. However, it was not confirmed that if the prescribed parameters of BOD/SS <10:10 mg/l was achieved or not. It was informed by I&FC that the results of the Ghogha drain pilot are still being examined and success of the technology was still to be confirmed.

3. Following actions were decided on the industry part:

A. Summary of Industrial survey/sealing status as on 15.06.2022 (Cumulative)

- i. Total Industries= 13,726 (12,940) as per 26th RM)
- ii. WPIs= 1383 (1382 as per 26th RM)
- iii. Sealed= 101
- iv. Electricity disconnected = 113 : Water Supply Disconnected= 11

B. Regarding survey in Redevelopment areas, it was telephonically apprised by Prof Sirajuddin that till date J.M.I has conducted survey in 4464 industries (4001 as per 26th RM) and the whole survey will be completed by within 2 months.

C. Regarding OLMS CE(SDW) apprised the following:

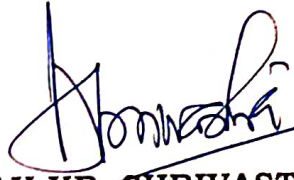
S.No	OLMS Locations	Status
1	Najafgarh Inlet	Work likely to be awarded by 15.08.2022 , however the earlier date was 24.06.2022 .
2	Inderpuri inlet	
3	Sahibabad inlet	
4	Hindon Cut inlet	
5	Drain No-6 inlet	

4. CEO directed to take necessary action to improve the quality of Yamuna River and submit the updated/realistic data for the following works-

- A. Rehabilitation of STPs, New STP at Coronation pillar, Construction of DSTPs , Construction of new STPs at Delhi Gate & Sonia Vihar, Capacity augmentation of existing STPs etc.
- B. The work regarding trapping /diverting of Barapullah Drain, Mori Gate Drain, Shahdara drain, etc.
- C. All industrial waste to be diverted to Common Effluent Treatment Plants (CETPs)
- D. Connection of Drains / Drainage system of JJ Clusters (630 Nos) with the sewerage network.
- E. Connection of each and every household to sewerage network (including connections in all the 1799 unauthorized colonies).
- F. Desilting of Trunk/ Peripheral sewer lines and Sewer lines in unauthorised colony.

The progress of all above works is also being reviewed by CEO separately.

All Members of YCC


(DEEPAK KR. SHRIVASTWA) 10/8/22
Addl. Chief Engineer (C)-1

Copy to :-

1. All CEs (Dr.)
2. All ACE(M)s
3. Dir.(T&QC)
4. Mr. Tauseef , Consultant YCC
5. Approval vide e-office No.- E- 123131


Addl. Chief Engineer (C)-1