



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 673/2020/903-906

Dated: 24-11-2022

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 October, 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 October, 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 September, 2022 was submitted vide letter dated 28.10.2022.

Yours Sincerely,

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

Enclosures : As Above

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 October, 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 : **2714 MLD** (597 MGD)
(94.4 % of installed capacity)
- [Main under utilised STPs are– Okhla Phase II, III, IV & V, Coronation Pillar Phase-I&II, Narela, Rohini, Ghitorni, Vasant Kunj Ph-II, Kondli Ph-I, Yamuna Vihar Ph-II, Kheasopur 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	: 777 MLD (171 MGD) [768 – 597 MGD] (22.3 %)
• No. of Operational STPs	: 35 (Refer Annexure-1)
• No. of Complying STPs	: 9 w.r.t. Standards prescribed by DPCC 30 [w.r.t. Design Parameter]
• No. of Non-complying STPs	: 26 (Letter is being issued to DJB 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 :

- Rehabilitation of existing STPs at Kondli Ph-II & Rithala Ph-I.
- Upgradation and increasing capacity of remaining existing STPs
- Construction of New STPs at Okhla, Delhi Gate and Sonia Vihar
- Construction of 27 DSTPs at various locations of Delhi and 14 DSTPs in Najafgarh Drainage Zone

Rehabilitations of existing STPs and construction of New STPs/DSTPs

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

S.No	Name of STP	Capacity Addition (in MGD)	Timelines
Sewage Treatment Plants			
1	Coronation Pillar (New STP) of 70 MGD Capacity (Completed) [Physical Progress upto Sept, 2021 – 92.30 % upto 15 th March, 2022 – 100 % (7.70 % increase in last one year)]	-	Completed and commissioned on 15.03.2022
2	Okhla (New STP) of 124 MGD Capacity (Under Construction) [Physical Progress upto Sept, 2021 – 40.75 % upto Oct, 2022 – 72.10 % (2.7 % increase in Oct, 2022) [Work delayed due to Lockdown / Covid-19, EPCA ban on construction activities due to air pollution and tree cutting permission etc.]	30	December,2022
3	Sonia Vihar (New STP) of 7 MGD Capacity (Under Construction) [Physical Progress upto Sept, 2021 – Nil upto Sept, 2022 – 4 % (4 % increase in last one year)]	07	April, 2023
4	Delhi Gate (New STP) of 10 MGD Capacity (Land to be allotted by DDA)	10*	December,2023
5	Kondli Phase-II of 20 MGD Capacity (Under Construction for Rehabilitation & Upgradation) (Liquid stream of Ph-I & III has been started on 09.03.2022 & 07.04.2022 respectively) [Physical Progress upto Sept, 2021 – 65.82 % upto Oct, 2022 – 85.15% (0.18 % increase in Oct, 2022)]	20	December,2022
6	Rithala Phase – I of 40 MGD Capacity (Under Construction for Rehabilitation & Upgradation) [Physical Progress upto Sept, 2021 – 50.70 % upto Oct, 2022 – 70.21% (1.92 % increase in Oct, 2022) [Work delayed due to Lockdown / Covid-19, EPCA ban on construction activities due to air pollution and tree cutting permission etc.]	40	December,2022
	Total Addition in Capacity of STPs	107	

Status of Decentralised Sewage Treatment Plants (DSTPs)			
1	27 DSTPs proposed to be constructed at various locations in Delhi of total Capacity of 60 MGD		
A	16 DSTPs (land already allotted.	32	December,2023
B	11 DSTPs where land is yet to be allotted.	28**	15 months after allocation of land
2	14 DSTPs proposed to be constructed in Najafgarh Drainage Zone of total Capacity of 32 MGD		
A	12 DSTPs where land is already allotted.	21	December,2023
B	02 DSTPs where land is yet to be allotted.	11**	15 months after allocation of land
1	Upgradation / Augmentation of Remaining Existing STPs of total Capacity of 94.5 MGD	94.5	December,2023
	Total Addition by December, 2023	199+94.5 =293.5	
	Grand Total Capacity by December, 2023	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 October, 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 October, 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)]	85.15% (0.18 % increase in Oct, 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)	70.21% (1.92 % increase in Oct, 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)	72.10 % (2.7 % increase in Oct, 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 (In MGD)	Enhanced Capacity (In MGD)	Status	Timelines
Package-1	Pappan Kalan Phase-1	20	30	Letter of Award issued on 18.07.2022	August, 2023
	Nilothi Phase -1	40	60		
Package-2	Najafgarh	5	5	Letter of Award issued on 27.10.2022	December, 2023
	Keshopur Phase -II	20	20		
	Keshopur Phase -III	40	60		
Package-3	Rohini Sector 25	15	25	Letter of Award issued on 14.07.2022	August, 2023
	Narela	10	15		
	Coronation pillar Phase -I&II	20	20		
	Coronation pillar Phase -III	10	10		
Yamuna Vihar	Yamuna Vihar Phase -II	10	15	Work awarded on 28.03.2022. This work is under AMRUT Scheme	December, 2023
Package -4	Yamuna Vihar Phase -I	10	15	Tenders reinvited on 30.07.2022 being single eligible bid found in earlier tender. Due date for opening on 07.11.2022.	December, 2023
	Yamuna Vihar Phase -III	25	37		

Package-5	Okhla Ph-V	16	16	Tenders reinvited and due for opening on 07.11.2022..	December, 2023
	Mehrauli	5	7.5		
	Ghitorni	5	7.5		
	Vasant Kunj	5	7.5		
Kondli	Kondli Phase -IV	45	45	Work order issued on 10.08.2022	November, 2023
	Total	301	395.5	Addition of 94.5 MGD by December, 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 for construction of DSTPs at 12 locations, where land is available, have been invited.	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 October, 2022	Cumulative Status as in October, 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.	Description	Cumulative Status as in Oct, 2022 (No.)	Remarks
1	Sewer line laid and notified	725	
2	Work of sewer network is in progress	572	
3	Colonies where NOC is awaited / O Zone	161	The work shall be taken up after NOC from Forest Department / Ozone.
4	Colonies where sewerage network is to be laid along with Decentralized STPs	341	The work shall be taken up after allotment and possession of land for DSTPs by DDA & Revenue Deptt.
	Total	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 31.10.2022)	No. of Functional SPSs for collection of septage from vendors	Septage collected & Treated in October, 2022	Septage treated by DJB (As on 31.10.2022)
DJB	284	86	4.88 Crore Litres	117.4 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:

- (i) **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.

- (ii) **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.
- (iii) **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 – 67.202 MLD) (31.6%) 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 October, 2022 is at <u>Annexure-3</u> Under Construction / Proposed - Nil Complying - 11 [Jhilmil, Mayapuri, Mangopuri, Wazirpur, Nangloi, SMA, Okhla, Narela, , Bawana, GTK & Naraina,] Not Complying - 2 [Badli & Lawrence Road CETPs] - Above 2 CETPs meeting the prescribed standards except the parameters mentioned in Table given below : <table><tr><td>Badli</td><td>TSS, BOD, Oil & Grease, Phosphate and Sulphide</td></tr><tr><td>Lawrence Road</td><td>TSS, BOD, Oil & Grease and Sulphide</td></tr></table> - 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. - 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. - Show Cause Notice for imposition of total Environmental Compensation of Rs. 4.7 Crores has been issued by DPCC to 11 CETP Societies and 2 Operators of CETPs at Narela & Bawana on 29.09.2022 for not meeting the prescribed standards in the period of March, 2021 to August, 2022. - Letters issued on 14.11.2022 to the concerned CETP Societies based on the Effluent Analysis Reports of DPCC Lab for the month of October, 2022 for taking rectification measures to meet the prescribed standards.	Badli	TSS, BOD, Oil & Grease, Phosphate and Sulphide	Lawrence Road	TSS, BOD, Oil & Grease and Sulphide
				Badli	TSS, BOD, Oil & Grease, Phosphate and Sulphide			
Lawrence Road	TSS, BOD, Oil & Grease and Sulphide							

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 October, 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. CETPs are to be handed over to Delhi Jal Board for their upgradation and operation & maintenance. As mandated by CETP Act, 2000, Industries Department , Govt. of NCT of Delhi has issued notice to 11 CETP Societies on 29.09.2022 to submit their reply.

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 : 11335 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 MRFs) - 7913.175 TPD (69.8%) • Total MSW Processing (Excluding MRF) - 7032 TPD (62%) • Disposal through Compost Pits - 554.6 TPD • Recycling through MRFs - 269 TPD • Gap in MSW Processing [11335 – 7032 = 4303] - 4303 TPD (38%) • Gap in MSW Processing Capacity [11335 – 7319.175 = 3421.825] - 3421.825 TPD (31.2%) • Capacity of 4 Existing WTE Plants - 6550 TPD (Power generation capacity - 84MW) • 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 • 20 Decentralized Composter Plants of 1 TPD each - 20 TPD - Others (Compost Pits, OWCs etc.) - 38.575 TPD [24 Organic Waste Converter (OWCs) (10.15 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 - 3500 TPD Existing operational C&D Waste Processing Facilities are located at (i) Rani Khara (1000TPD) (ii) Shastri Park (1000 TPD) (iii) Bakkarwala (1000 TPD)

		(iv) Rani Khera (Mundka) (150 TPD) C&D Waste Processing Facility of 2000 TPD at Jahangirpuri (Burari) is under revamp/ under construction and therefore not in operation, expected to be commissioned by February, 2023. 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 14 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 16 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) 3000 TPD Waste to Energy Plant at Narela-Bawana by 31.08.2025 . (ii) Engineered Sanitary Landfill at Tehkhand by April, 2023 (iii) 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 was held on 16.08.2022 & Proceedings of Public Hearing sent to MoEF&CC on 24.08.2022.	
6.	No. and Area (in Acres) of uncontrolled garbage dumpsites and Sanitary Landfills.	Name of Dumpsite	Dumpsite Area in Acres (As per Drone Survey in June, 2022)
		Ghazipur Dump Site	75.08
		Bhalaswa Dump Site	78.47
		Okhla Dump Site	62.74
7.	No. and Area (in Acres) of Legacy Waste within 1 km buffer of both side of the rivers	Nil	
8.	No. of Drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers:	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	6984 (63.5%)	● 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 ● One 2000 TPD WTE Plant at Tehkhand commissioned in October, 2022 ● 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) ● 20 Composter Plants – 20 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 Block-13, Saini Enclave, Usmanpur, Kheda Village, Sunder Nagri, Gokulpur & Ramleela Ground). ● 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.	Installed Capacity of Existing MSW Processing Facilities is being utilised.	● 3000 TPD Waste to Energy Plant at Narela Bawana by 31.08.2025 ● 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 held on 16.08.2022 & Proceedings of Public Hearing sent to MoEF&CC on 24.08.2022. ● One Bio-CNG Plant of 300 TPD at Okhla by 30.09.2023 (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 – 01 TPD at Vishwas Nagar by 31.12.2022 ● 1 Composter Plant – 01 TPD at New Ashok Nagar by 31.12.2022 ● 1 Material Recovery Facility (MRFs) Rampura (30 TPD extendable upto 50 TPD) Capacity.
NDMC	263	263 (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	Installed Capacity of Existing MSW Processing Facilities is	-

			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.	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 31.12.2022.
Total	11335	7301 (64.4%)			
Note –1. Most of the Five & Four Star Hotels and Major Hospitals having 50 Beds or more have installed Organic Waste Convertor. 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 : **25.828 TPD** (Average of Bio-medical waste generation in 2021 excluding Covid waste)
- No. of Hospitals and Health Care Facilities : **10343**
- 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 15 Meetings have been held so far. Minutes of the last meeting (15th) 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 / Dhobhi 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 October, 2022 is at **Annexure-6.**

Water Quality of major Drains for the samples collected by DPCC Water Laboratory in the Month of October, 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	Remarks
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	The departments are pursued continuously to update the progress but due to scarcity of funds progress could not be updated as reported by them.
4.	Schools	4549	4144	405	The School Authorities are pursued continuously to update the progress but due to scarcity of funds progress could not be updated as reported by them.
	Total	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:

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

(iv). 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. 10 nos. of Jhuggis / Chappers have been demolished on 23.09.2022 at Asita East UP Portion. Details of removal of encroachment by DDA is given at **Annexure-8.**

(v). Demolition Program :

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

(vi). Removal of C&D Waste :

42,000 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 31.10.2022) 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 **2,37,434** 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 **1,00,547** plant saplings by Forest Department, Delhi.

• Total land handed over till date	= 629.468 ha
• The area that has been afforested till date	= 608.088 ha
• Total no. of saplings planted	= 5,03,067

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:

Out of 597 MGD of treated waste water from STPs about 90 MGD treated effluent from STPs is being used for horticulture in various parks in Delhi including Millennium park in I.P Estate, Japanese Garden in Rohini and various parks in NDMC area and DTC Depots, PPCL etc.

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.

Number of Tankers Deployed:

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

Agency	No. of tankers engaged
DTC	04
PWD	77
EDMC	01
IL & FS	01
DDA	09
Private Agencies	107
SDMC	13
AAI	00
Forest Department	02
CPWD	03
M/s L&T	05
NBCC	13
DJB internal Horticulture use	18
NDMC	00
TOTAL	253

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.

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 October, 2022 is briefed below :

- No. of Water Polluting Industries/Units against which Action was taken -- 7
- Show Cause Notices issued -- 7
- Directions for Closure issued -- 01
- Environmental Compensation (EC) Imposed -- Rs. 45 Lakh
- Environmental Compensation Received -- Nil
(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)</i> (MPN/100ml) < 230]	Compliance w.r.t. Design parameters
1	Mehrauli	5	22.73	23	20/30	18.10.2022	Not Meeting the Prescribed standard in respect of TSS (14 mg/l against the prescribed standard of ≤ 10 mg/l), COD (64 mg/l against the prescribed standard of ≤ 50 mg/l), Dissolved Phosphate as P (2.4 mg/l against the prescribed standard of ≤ 2 mg/l) and Ammonical Nitrogen (5.4 mg/l against the prescribed standard of ≤ 5 mg/l). However meeting the Design Parameters (BOD/TSS:20/30).	Yes
2	Okhla Phase – II	12	54.552	41.33	30/50	06.10.2022	Not Meeting the Prescribed standard in respect of TSS (16 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
3	Okhla Phase – III	37	168.20	145	30/50	06.10.2022	Not Meeting the Prescribed standard in respect of TSS (14 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
4	Okhla Phase – IV	45	204.57	180.33	30/50	06.10.2022	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
5	Okhla Phase – V	16	72.73	61.66	30/50	06.10.2022	Not Meeting the Prescribed standard in respect of TSS (20 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (14 mg/l against the prescribed standard of ≤ 10 mg/l) and Dissolved Phosphate as P (2.8 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	135	20/30	06.10.2022	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:20/30).	Yes

Brief of Analysis Reports (Compliance Status) in respect of Functional STPs of Delhi Jal Board for the month October, 2022
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7	Molarband	0.66	03	2.5	30/50	06.10.2022	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) and Dissolved Phosphate as P (2.8 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	10/15	04.10.2022	Meeting the Prescribed standards.	Yes
9	Vasant Kunj Phase – I	2.2	10	9.1	30/50	18.10.2022	Not Meeting the Prescribed standard in respect of TSS (34 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (18 mg/l against the prescribed standard of ≤ 10 mg/l) and Dissolved Phosphate as P (7.5 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	6.87	30/50	18.10.2022	Not Meeting the Prescribed standard in respect of TSS (22 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 (2.2 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	12.6	30/50	18.10.2022	Not Meeting the Prescribed standard in respect of TSS (24 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (14 mg/l against the prescribed standard of ≤ 10 mg/l) and Dissolved Phosphate as P (2.4 mg/l against the prescribed standard of ≤ 2 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
12	Delhi Gate Nalla Phase – I	2.2	10	14	10/15	04.10.2022	Meeting the Prescribed standards.	Yes
13	Delhi Gate Nalla Phase – II	15	68.20	78	10/10	04.10.2022	Meeting the Prescribed standards.	Yes
14	Kondli Phase – I	10	45.46	35.4	10/10	17.10.2022	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

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15	Kondli Phase-III	10	45.46	45.4	10/10	17.10.2022	Not Meeting the Prescribed standard in respect of TSS (12 mg/l against the prescribed standard of ≤ 10 mg/l).	No
16	Kondli Phase – IV	45	204.57	199	20/30	17.10.2022	Not Meeting the Prescribed standard in respect of TSS (82 mg/l against the prescribed standard of ≤ 10 mg/l), COD (132 mg/l against the prescribed standard of ≤ 50 mg/l), BOD (42 mg/l against the prescribed standard of ≤ 10 mg/l), Ammonical Nitrogen (6.2 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).	No
17	Chilla	9	40.91	43	10/10	17.10.2022	Meeting the Prescribed standards.	Yes
18	Yamuna Vihar Phase – I	10	45.46	45.89	30/50	13.10.2022	Not Meeting the Prescribed standard in respect of TSS (12 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	23.04	30/50	13.10.2022	Not Meeting the Prescribed standard in respect of TSS (14 mg/l against the prescribed standard of ≤ 10 mg/l) and BOD (12 mg/l against the prescribed standard of ≤ 10 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
20	Yamuna Vihar Phase – III	25	113.65	112.24	20/30	13.10.2022	Not Meeting the Prescribed standard in respect of TSS (28 mg/l against the prescribed standard of ≤ 10 mg/l) and BOD (18 mg/l against the prescribed standard of ≤ 10 mg/l) . However meeting the Design Parameters (BOD/TSS:20/30).	Yes
21	Common Wealth Games Village	1	4.55	0.6	02/01	04.10.2022	Meeting the Prescribed standards.	Yes
22	Coronation Pillar Phase – I & II	20	90.92	31	30/50	18.10.2022	Not Meeting the Prescribed standard in respect of TSS (36 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (18 mg/l against the prescribed standard of ≤ 10 mg/l), COD (72 mg/l against the prescribed standard of ≤ 50 mg/l) and Dissolved Phosphate as P (3.6 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	311	10/10	18.10.2022	Meeting the Prescribed standards.	Yes
24	Narela	10	45.46	49	30/50	11.10.2022	Not Meeting the Prescribed standard in respect of TSS (34 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (18 mg/l	Yes

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							against the prescribed standard of ≤ 10 mg/l) and Dissolved Phosphate as P (2.1 mg/l against the prescribed standard of ≤ 2 mg/l) . However meeting the Design Parameters (BOD/TSS:30/50).	
25	Rithala Phase –II	40	181.60	182	15/20	18.10.2022	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:15/20).	Yes
26	Rohini	15	68.19	49	30/50	18.10.2022	Not Meeting the Prescribed standard in respect of TSS (32 mg/l against the prescribed standard of ≤ 10 mg/l), COD (72 mg/l against the prescribed standard of ≤ 50 mg/l), BOD (22 mg/l against the prescribed standard of ≤ 10 mg/l), Ammonical Nitrogen (7.6 mg/l against the prescribed standard of ≤ 5 mg/l) and Dissolved Phosphate as P (3.0 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	54.4	20/30	31.10.2022	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:20/30).	Yes
28	Keshopur Phase–II	20	90.92	76.76	30/50	31.10.2022	Not Meeting the Prescribed standard in respect of TSS (58 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (32 mg/l against the prescribed standard of ≤ 10 mg/l) COD (84 mg/l against the prescribed standard of ≤ 50 mg/l) and Ammonical Nitrogen (5.7 mg/l against the prescribed standard of ≤ 5 mg/l)	No
29	Keshopur Phase–III	40	181.84	177.8	30/50	31.10.2022	Not Meeting the Prescribed standard in respect of TSS (48 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (30 mg/l against the prescribed standard of ≤ 10 mg/l), and COD (80 mg/l against the prescribed standard of ≤ 50 mg/l) . However meeting the Design Parameters (BOD/TSS:30/50).	Yes
30	Nilothi Phase – I	40	181.84	202	30/50	19.10.2022	Not Meeting the Prescribed standard in respect of TSS (64 mg/l against the prescribed standard of ≤ 10 mg/l), COD (154 mg/l against the prescribed standard of ≤ 50 mg/l), Ammonical Nitrogen (9.3 mg/l against the prescribed standard of ≤ 5 mg/l) and BOD (46 mg/l against the prescribed standard of ≤ 10 mg/l).	No
31	Nilothi Phase – II	20	90.92	103	10/10	19.10.2022	Meeting the Prescribed standards.	Yes
32	Pappankala Phase– I	20	90.92	109	30/50	19.10.2022	Not Meeting the Prescribed standard in respect of TSS (38 mg/l against the prescribed standard of ≤ 10 mg/l), COD (68 mg/l against the prescribed standard of ≤ 50 mg/l), Ammonical	Yes

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							Nitrogen (6 mg/l against the prescribed standard of ≤ 5 mg/l) BOD (20 mg/l against the prescribed standard of ≤ 10 mg/l) and Dissolved Phosphate as P (3.0 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	102	10/10	19.10.2022	Meeting the Prescribed standards.	Yes
34	Najafgarh	5	22.73	20	30/50	19.10.2022	Not Meeting the Prescribed standard in respect of TSS (28 mg/l against the prescribed standard of ≤ 10 mg/l), COD (52 mg/l against the prescribed standard of ≤ 50 mg/l) and BOD (18 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	23	10/10	18.10.2022	Meeting the Prescribed standards.	Yes
	Total		2874.01 (in MLD) 632.2 MGD	2714.92 (in MLD) 597.2 MGD				

Note:-

1. As per the Analysis Reports of DPCC Water Laboratory for October, 2022, out of 35 operational STPs of DJB, 35 STPs samples were analysed where 9 STPs were found complying with the standards prescribed by DPCC.
2. Out of 35 STPs, 30 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)

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.	Qudsia Bagh+ Morigate Drain	43.2(9.51 MGD)	Tenders have been re-invited and technical bid opened on 07.07.2022. Work awarded.	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.mL and 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, work awarded and is likely to be completed by August. 2023.

15.	Barapula 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 soon, 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 completion of the scheme is proposed June-2023.
16.	Maharani Bagh Drain	30.24 (6.66 MGD)	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. 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 completion is proposed on 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, Indirapuri 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 October, 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	5.146	17.10.2022	pH - 7.2 TSS - 444 COD - 548 BOD - 228 Oil & Grease – 24.4 Ammonical Nitrogen (N) – 26.3 Phosphate-28.4 Sulphide – 8.2	pH - 7.7 TSS - 86 COD - 132 BOD - 30 Oil & Grease – 5.8 Ammonical Nitrogen (N) – 4.8 Phosphate-3.2 Sulphide – 3.2	Meeting the Prescribed Standards.	Letter issued to CETP Society on 14.11.2022 directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC.
2	Badli CETP	Badli Industrial Estate	12	3.822	10.10.2022	pH - 6.7 TSS - 276 COD - 304 BOD - 220 Oil & Grease – 16.8 Ammonical Nitrogen (N) – 32.3 Phosphate-26.4 Sulphide – 14.6	pH - 7.4 TSS - 104 COD - 124 BOD - 38 Oil & Grease – 10.8 Ammonical Nitrogen (N) – 5.8 Phosphate-5.4 Sulphide – 4.8	Meeting the Prescribed Standards except in respect of TSS (104 mg/l against Prescribed Standard of 100 mg/l), BOD (38 mg/l against Prescribed Standard of 30.0 mg/l), Oil & Grease (10.8 mg/l against Prescribed Standard of 10 mg/l), Phosphate (5.4 mg/l against Prescribed Standard of 5 mg/l) and Sulphide (4.8 mg/l against Prescribed Standard of 2.0 mg/l)	Letter issued to the CETP Society on 14.11.2022 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	3.48	04.10.2022	pH - 7.7 TSS - 512 COD - 568 BOD - 228 Oil & Grease – 18 Ammonical Nitrogen (N) – 34.4 Phosphate-148.6 Sulphide – 24.6	pH - 8.2 TSS - 80 COD - 104 BOD - 22 Oil & Grease – 6.2 Ammonical Nitrogen (N) – 6.8 Phosphate-3.6 Sulphide – 1.8	Meeting the Prescribed Standards.	Letter issued to CETP Society on 14.11.2022 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 October, 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	1.55	04.10.2022	pH -6.9 TSS - 456 COD - 596 BOD - 236 Oil & Grease – 14.8 Ammonical Nitrogen (N) – 22.3 Phosphate-115 Sulphide – 9.2	pH - 7.5 TSS - 96 COD - 160 BOD - 28 Oil & Grease –5.8 Ammonical Nitrogen (N) – 4.6 Phosphate-3.2 Sulphide – 1.6	Meeting the Prescribed Standards.	Letter issued to CETP Society on 14.11.2022 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	2.897	06.10.2022	pH -7.2 TSS - 272 COD - 368 BOD - 118 Oil & Grease – 9.6 Ammonical Nitrogen (N) – 59.6 Phosphate-5.8 Sulphide – 4.2	pH -7.6 TSS - 70 COD - 82 BOD - 26 Oil & Grease – 2.8 Ammonical Nitrogen (N) – 12.2 Phosphate-1.1 Sulphide – 1.6	Meeting the Prescribed Standards.	Letter issued to CETP Society on 14.11.2022 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	2.87	04.10.2022	pH -6.9 TSS - 460 COD - 452 BOD - 172 Oil & Grease – 13.6 Ammonical Nitrogen (N) – 19.3 Phosphate-16.3 Sulphide – 8.3	pH -7.5 TSS - 76 COD - 124 BOD - 30 Oil & Grease – 4.2 Ammonical Nitrogen (N) – 2.9 Phosphate-1.4 Sulphide – 1.7	Meeting the Prescribed Standards.	Letter issued to CETP Society on 14.11.2022 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 October, 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	2.714	06.10.2022	pH -6.8 TSS - 442 COD - 392 BOD - 136 Oil & Grease – 10.4 Ammonical Nitrogen (N) – 28.6 Phosphate-82.1 Sulphide – 7.3	pH -7.7 TSS - 68 COD - 108 BOD - 28 Oil & Grease – 5.0 Ammonical Nitrogen (N) –6.8 Phosphate-2.8 Sulphide – 1.4	Meeting the Prescribed Standards.	Letter issued to CETP Society on 14.11.2022 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	1.407	07.10.2022	pH -7.23 TSS - 548 COD - 652 BOD - 280 Oil & Grease – 37.2 Ammonical Nitrogen (N) – 62.7 Phosphate-141 Sulphide – 7.3	pH -7.46 TSS - 82 COD - 112 BOD - 30 Oil & Grease – 7.0 Ammonical Nitrogen (N) –22.1 Phosphate-4.3 Sulphide – 1.3	Meeting the Prescribed Standards.	Letter issued to CETP Society on 14.11.2022 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	10.936	11.10.2022	pH -7.2 TSS - 456 COD - 300 BOD - 224 Oil & Grease – 19.6 Ammonical Nitrogen (N) – 17.3 Phosphate-62.1 Sulphide – 8.6	pH -7.8 TSS - 76 COD - 132 BOD - 26 Oil & Grease – 4.8 Ammonical Nitrogen (N) –8.2 Phosphate-3.6 Sulphide – 1.4	Meeting the Prescribed Standards.	Letter issued to CETP Society on 14.11.2022 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 October, 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	23.46	11.10.2022	pH -7.4 TSS - 476 COD - 604 BOD - 240 Oil & Grease – 25.6 Ammonical Nitrogen (N) –15.6 Phosphate-58.2 Sulphide – 5.8	pH -8.0 TSS - 90 COD - 128 BOD - 28 Oil & Grease –6.2 Ammonical Nitrogen (N) –6.2 Phosphate-3.4 Sulphide – 1.4	Meeting the Prescribed Standards.	Letter issued to CETP Society on 14.11.2022 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	4.84	04.10.2022	pH - 6.5 TSS - 428 COD - 488 BOD - 196 Oil & Grease -14.8 Ammonical Nitrogen (N)-29.3 Phosphate-7.9 Sulphide – 8.7	pH - 7.4 TSS - 70 COD - 116 BOD - 24 Oil & Grease -5.6 Ammonical Nitrogen (N)-3.8 Phosphate-2.8 Sulphide – 1.3	Meeting the Prescribed Standards.	Letter issued to CETP Society on 14.11.2022 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	2.49	06.10.2022	pH - 7.4 TSS - 860 COD - 456 BOD - 344 Oil & Grease -16.4 Ammonical Nitrogen (N)-48.6 Phosphate-7.2 Sulphide – 32.4	pH - 7.8 TSS - 88 COD - 104 BOD - 26 Oil & Grease -5.4 Ammonical Nitrogen (N)-10.4 Phosphate-1.4 Sulphide – 1.2	Meeting the Prescribed Standards.	Letter issued to CETP Society on 14.11.2022 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 October, 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	1.59	06.10.2022	pH - 6.8 TSS - 524 COD - 404 BOD - 172 Oil & Grease -22 Ammonical Nitrogen (N)-24.4 Phosphate-8.9 Sulphide – 112	pH - 7.4 TSS - 108 COD - 130 BOD - 48 Oil & Grease - 12.2 Ammonical Nitrogen (N)-5.3 Phosphate-3.6 Sulphide – 9.1	Meeting the Prescribed Standards except in respect of TSS (108 mg/l against Prescribed Standard of 100 mg/l), BOD (48 mg/l against Prescribed Standard of 30.0 mg/l), Oil & Grease (12.2 mg/l against Prescribed Standard of 10 mg/l) and Sulphide (9.1 mg/l against Prescribed Standard of 2.0 mg/l)	Letter issued to the CETP Society on 14.11.2022 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	67.202					

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	263	72	11335
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 16 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	Existing Capacity of MSW Processing Facilities (Excluding MRFs)				7913.175 (69.8%)
6	MSW Processed including Pit Composting and Excluding MRF (in TPD)	6728 (61.1%)	254 (96.6%)	50 (69.4 %)	7032 (62%)
7	Recycling through MRF	256 (157 No.) (2.3%)	9 (2 No.) (3.4%)	4 (5.5%) (11 No. of 50 TPD Capacity)	269 (2.37%)
8	Disposal through Compost Pits	538 (533 No.) (4.9 %)	16.6 (50 No.) (6.3%)	Nil	554.6 (4.9%)
9	Disposal of MSW in Landfill Sites	4016 (36.5%)	Nil	18 (25%)	4034 (35.6%)

(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 **11335 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 4 Waste to Energy Plants (WTE Plants) of capacity 6550 TPD at 4 different locations in Delhi namely Okhla, Ghazipur, Bawana and Tehkhand. One 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) is proposed. Public Hearing for Expansion of existing WtE at Okhla was held on 16.08.2022 and Proceedings of Public Hearing sent to MoEF&CC on 24.08.2022. After commissioning of abovementioned proposed project, the capacity of WTE Plants will enhance from 6550 TPD to 9550 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
4.	Tehkhand Waste to Electricity Project limited, Tehkhand, Delhi	2000	25
	Total	6550	84

(d) Gap Analysis on Solid Waste Management

Generation (in TPD) (1)	Total Capacity of Existing MSW Processing Facilities (Excluding MRFs) (in TPD) (2)	Processing + Pit Composting (in TPD) (3)	Gap in Processing Capacity (in TPD) (1) – (2)	Gap in Processing (in TPD) (1) – (3)	Capacity of Proposed Waste Processing Facilities (in TPD)
11335	7913.175 (69.8%)	7032 (62%)	3421.825 (31.2%)	4303 (38%)	4452

(e) Proposed Waste Processing & Disposal Facilities in Delhi

S. No.	MSW Facility	No(s)	Location	Local Body	Capacity (in TPD)	Expected Timeline for Completion
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 held on 16.08.2022 & Proceedings of Public Hearing sent to MoEF&CC on 24.08.2022.
4.	Bio CNG Plant	1	Okhla	MCD	300 TPD (From existing compost plant of 200 TPD to 300 TPD)	Sept, 2023
5.	Compressed Bio Gas (CBG) Plant	1	Hastsal	MCD	100 TPD	April, 2023 (Due to Public Resistance site is being shifted to Ghoga Dairy)
6.	Sorting cum Composter Plants	2	Kirby Place in Delhi Cantt.	DCB	50 (Total Capacity of 2 Plants)	December, 2022
7.	Decentralised Composter Plants	1	Vishwas Nagar &	MCD	1TPD	December, 2022
		1	New Ashok Nagar		1TPD	
8	Engineered Sanitary Landfill (SLF)	1	Tehkhand	MCD	-----	April, 2023
	Total	8 + One SLF			4452 TPD	

Note : : 1. Bio-CNG Plants at Nangli Dairy (215 TPD), Goyla Dairy (215 TPD), Ghogha Village Dairy (290 TPD) by March, 2023 mainly for the Waste generated from Dairies.
2. Two MRFs one each at Bhalaswa Dairy (150 TPD by March, 2023) 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–20 Nos of 1 TPD each, + 27 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	10.15 TPD [24 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 20 Composters of 1 TPD each at various locations (20 TPD)	50 TPD (10 Nos of 5 TPD each) (Commissioned but not in operation)

2 Compost plants of 1 TPD each is proposed to be installed at Vishwas Nagar & New Ashok Nagar by December, 2022.

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 04.11.2022) 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 04.11.2022)	No. of Trommels Operational
1	Ghazipur	140 Lakh Ton	13.54 Lakh Ton (9.6 %)	12
2	Okhla	60 Lakh Ton	19.88 Lakh Ton (33.1 %)	14
3	Bhalaswa	80 Lakh Ton	26.56 Lakh Ton (33 %)	18
Total		280 Lakh Ton	59.98 Lakh Ton (21.4 %)	44

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
INTEGRATED DRAIN MANAGEMENT CELL (IDMC)
DELHI SECRETARIAT, I.P. ESTATE, NEW DELHI

No: CEO/IDMC/2022/D-1556

Dated: 27/10/2022

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

Minutes of the 15th 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 18.10.2022 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 15th IDMC meeting was held on 18.10.2022 under chairmanship of the Chief Secretary.

A detailed presentation was made by the Member (Secretary), IDMC covering Hon'ble NGT's directions and IDMC decisions taken during last meetings.

1. On being asked by the Chairman, IDMC regarding the performance audit of pilot projects executed by DoAs i.e. MCD and DDA, it was apprised that the performance audit was conducted departmentally through Director & Treatment Quality Control (DTQC), DJB and reports were shared with Drain Owning Agencies (DoAs) for taking remedial measures as parameters like TSS, BOD and COD were not found meeting prescribed designed standard norms.
 - i. Regarding Shahadra Jheel Project, it was explained by Nodal officer of MCD that out of three drains only one drain has been trapped for treatment through Bio-remediation and necessary action is being taken up for the treatment of the remaining drains.
 - ii. Regarding Dhobi Ghat and Kilokari wetland pilot project of the DDA, Nodal Officer of DDA informed that remedial actions are being taken to meet the desired standard in these wetlands.
 - iii. The Chairman, IDMC directed MCD and DDA to take corrective action on priority to meet the desired parameters. The action plan for the same must be prepared and action taken report be submitted by the end of November 2022. If the timelines as per action plan are not adhered to, then stringent action will be taken against the officers concerned.

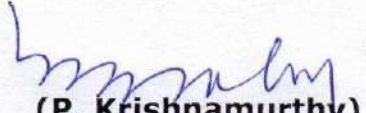
2. The WAPCOS report on the use of treated effluent was discussed. The Chairman, IDMC directed DJB to discuss the issue on Saturday separately in his chamber.
3. DoAs were directed to identify the number of drains along with length of drains that are carrying sewage mixed water. Drains that are carrying exclusively storm water need not be trapped for treatment. Accordingly, an action plan must be prepared by all DoAs for Bio-remediation/Phyto-remediation or any other technology suggested by CPCB for the drains carrying sewage mixed water along with timelines duly mentioning the name of officers along with designation responsible to meet the timelines. The required format will be circulated by DJB separately. The desired information is required to be submitted by all DoAs within 15 days.
4. In reference to the letter addressed to the CEO, DJB {being Member (Secretary) of IDMC} written by MCD to arrange the fund of Rs. 233.14 Crores by DJB for drain management of 550 drains having the discharge more than 1 MLD in 1st phase under the jurisdiction of MCD, Member (Secretary), IDMC informed that it is the responsibility of all DoAs to arrange funds at their level, not by DJB.
5. In the matter of "LOKESH KUMAR AND ORS" under Hon'ble High Court case W.P.(C) 10459/2021 regarding Shriniwas Puri, a detailed presentation was given by Nodal Office, MCD. The Chairman, IDMC directed all the concerned departments (MCD, DUSIB, PWD, Delhi Jal Board, Agriculture Produce Marketing Committee) to ensure completion of all the necessary work for resolving issues of the petitioners in the above-said matter within 3 weeks failing which suitable action will be taken against the officers concerned. A detailed status report will be submitted for the perusal of the Chairman IDMC by 30.11.2022 by all concerned departments through Member Secretary, IDMC.
6. Member Secretary, IDMC has been asked to ensure that ATR on minutes of all previous meetings as well as this meeting may be obtained from concerned DoAs within a fortnight, failing which their explanations be called for taking further necessary action.

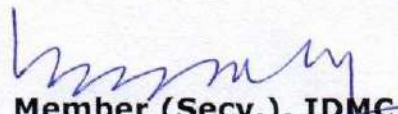
Meeting ended with thanks to the Chair.

All Concerned

Copy to:-

1. OSD to CS


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


Member (Secy.), IDMC
2

	DELHI POLLUTION CONTROL COMMITTEE WATER LABORATORY 1st FLOOR, 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/ 5136
 DATE OF SAMPLING: 03.10.2022

Dated 01/11/22

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	2.5	8.8	12×10 ²
2	Wazirabad	28.7131310, 77.2319304	7.26	69	8.5	5.2	20×10 ³
3	ISBT Bridge	28.6713533, 77.2338207	7.32	208	52	NIL	24×10 ⁴
4	ITO Bridge	28.6284288, 77.2534977	7.20	181	53	0.5	21×10 ⁴
5	Nizamudin Bridge	28.5915608, 77.2715342	7.44	256	58	NIL	39×10 ³
6	Okhla Barrage	77°18’49” 28°32’40”	7.34	272	76	NIL	63×10 ⁴
7	Agra Canal at Okhla Barrage	28.545414, 77.311075	7.36	224	62	NIL	40×10 ⁴
8	River Yamuna at Asgarpur (After confluence of Shahdara & Tuglakabad drains)	28.4657003, 77.33905231	7.33	288	75	NIL	6.1×10 ⁵


 I/C Water Lab
 Dr. NANDITA MOTIRA
 Scientist ‘C’



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

WATER QUALITY STATUS OF DRAIN

Dated 01/11/22

REPORT NO: DPCC/W/D/22-23/ 5137

Date of Sampling: -03.10.2022

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	7.3	152	336	65
2.	Metcalf House Drain	7.2	48	88	26
3.	Khyber Pass Drain	NO FLOW	NO FLOW	NO FLOW	NO FLOW
4.	Sweeper Colony Drain	7.3	160	192	48
5.	Magazine Road Drain	NO FLOW	NO FLOW	NO FLOW	NO FLOW
6.	ISBT Drain	7.2	156	272	52
7.	Tonga Stand Drain	7.2	48	80	32
8.	Civil Mill Drain	7.1	116	288	54
9.	SEN Nursing Home Drain	7.3	152	320	55
10.	Drain No. 14	7.2	58	80	28
11.	Power House Drain	7.2	148	224	56
12.	Indrapuri Drain	7.3	144	240	64
13.	Sonia Vihar Drain	7.2	200	384	73
14.	Kailash Nagar Drain	7.2	168	208	60
15.	Shastri Park Drain	7.2	96	304	66
16.	Barapulla Drain	7.4	112	240	60
17.	Maharani Bagh Drain	7.2	92	266	65
18.	Old Agra Canal Drain	7.2	108	293	53
19.	Jaitpur Drain	7.3	112	213	42
20.	Sarita Vihar Pool	7.4	88	186	52
21.	Tuglakabad Drain	7.4	108	240	56
22.	Drain Near LPG Bottling Plant	5.6	64	266	48
23.	Drain Near Sarita Vihar Bridge (Mathura Road)	NO FLOW	NO FLOW	NO FLOW	NO FLOW
24.	Shahdara Drain	7.3	124	320	66
25.	Sahibabad Drain	7.4	136	346	70
26.	Molarband Drain	7.4	84	213	48
27.	AbulFazal Drain	7.4	132	360	62
28.	Supplementary Drain	7.3	108	186	50

Mishra

I/C Water Lab
 Dr. NANDITA MOTIK,
 Scientist 'C'

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

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	50.24	-	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	5	-
5.	Amrut Biodiversity Park	116.25	91.50	0.5	One more demolition programmes required
6.	Yamuna Vansathali	236.5	86.03	20 Hac	
7.	Mayur Nature Park	235	23.02	Yet to be assessed	Land Demarcation Issues. Coordination with SDM. GNCTD in progress.
	Total	1199.75	520.29		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.5,45,000/-
4.	2021	Dumping of malba and illegal parking in Yamuna River Flood Plain	776	Rs.1,22,95,000/-	Rs.13,80,000/-
5.	2022	Dumping of malba and illegal parking in Yamuna River Flood Plain	881	Rs.1,98,40,000/-	Rs.4,25,000/-
		TOTAL =	1898	Rs. 4,33,55,000/-	Rs.46,42,500/-

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

	Project	Area/ Encroached area/Jhuggis	Water bodies Total / Completed	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.	PART A: 1/1 PART B: 3/3	PART-A: Completed PART-B: 31.12.2022	PART A (Phase-I): Completed. Phase-II : i) Signages work in progress. ii) Bio-toilet work completed. PART B: Present progress is 43%. Work completed are as under: 1. Excavation of 3 water bodies. 2. Construction of 3 ramps. 3. Embankment of 1 parking. Work delayed due to flooding & sludgy site and work held up due to construction ban by CAQM.
2.	Kalindi Aviral- (NH24 to DND Flyway- Western Bank)	100 Ha	3/3	Completed	Phase-1 Completed Ph-2- 31.12.2022 (Work is affected due to NCRTC work in progress)
3.	Kalindi Biodiversity Park- (DND to proposed Kalindi By-Pass- Western Bank) Entrusted to CEMDE	115 Ha		Wetland completed in available space.	Project is being executed by CEDME. (Prof. C R Babu) 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 / 5 Ha/695 Nos.	Part A : 2/2 Part B : 5/4	31/01/2023 (for the balance 107 Ha area)	Part A:- (Golden Jubilee 93 Ha) (Phase-I): Completed. Phase-II : i) Signages work in progress. ii) Bio-toilet work completed. Part B :- (for 107 Ha) Present progress is 80%. Work completed are as under : 1. Excavation of 4 water bodies. 2. Excavation of 1 oxidation pond. 3. 1900m moorum path out of 2500 m 4. 3 ramps constructed. 5. 1100 m cycle hike zone (cycle track) out of 1200 m Tender for ph-2: i) Signages work awarded. ii) Bio-toilet work awarded. Work and Encroachment removal are delayed due to Court case no. W.P(C) 5214/2018 & Next date of hearing 05/12/2022 Work held up due to construction ban by CAQM.

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

5.	Amrut Bio Diversity Park- ITO to NH-24 (Eastern & Western Bank)- Area South of CWG Village Area	116.25 Ha / 0.75 Ha /90 Nos. (90 Ha on Eastern Bank & 18 Ha on Western Bank to be done by DDA, 8.25 Ha to be done by CPWD)	8/6	31.01.2023 (for 90 Ha)	For 90 Ha of land: Present progress is 52%. Work completed are as under (For 90 Ha): 1. Excavation of 6 water bodies out of 8. 2. 2000 m pedestrian path of 12000m. 3. 1 entrance plaza out of 2. Works are delayed due to flooding of site & construction ban by CAQM.
6.	Wazirabad to Old Railway Bridge- Western Bank Entrusted to INTACH	Total Site Area- 66 Ha (QudsiaGhat- 16 Ha, Sur Ghat-13.6 Ha, Eco-trail- 33 Ha, Yamuna Bazaar Area- 3.4 Ha)	1/-	03.01.2023 (for Qudsia Ghat) only for 16 Hact. Land.	Present progress is 10%. The work has been assigned to M/s INTACH on nomination basis for Quadsia Ghat. Pathways & Chatri works in progress. Tender for remaining area (50 Ha.) awarded.
7.	Yamuna Vanasthali- (Wazirabad Barrage to ISBT Bridge- Eastern Bank, around GarhiManduVillage &Usmanpur Village)	236.5 Ha / 5 Ha /100Nos.	6/6	31.01.2023	Present progress is 82%. Work completed are as under (for 236.5 Ha): 1. Excavation of 6 water bodies 70% pedestrian path completed Work are delayed due to flooding of site & construction ban by CAQM. Court Cases: 1) WP(C) 7542/ 2017; NDOH- 07/01/2023, 2) WP(C) 7135/2019; NDOH- 05/12/2022
8.	Mayur Nature Park- (NH-24 to DND Flyway- Eastern Bank) PART A: Under the jurisdiction of DDA. PART B: Under the jurisdiction of UP Irrigation Deptt.	Total Area- 397.75 Ha PART A: 235 Ha PART B: 162.75 Ha		-----	Issues: i. The land demarcation is in-progress with Revenue Department. The work is being delayed due to area flooded at present. ii. LM Department informed that approximately 100 Ha of land has been de-notified out of the total 235 Ha. iii. Accordingly, the landscape plan also needs to be reworked. The work of UP Irrigation land of 162.75 Ha is 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)		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.

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

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: - 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 to be done by LM Deptt. & Revenue Department. Accordingly, the landscape plan also needs to be reworked.
	Total	DDA- 1203.75 Ha / 14.08 Ha/ 919 Nos. <u>UP Irrig.-299.75Ha</u> <u>1503.5 Ha</u>	29/23		(a) Completed DDA = 283 Ha (b) In progress DDA = 640.75 Ha <u>UP Irrig. = 107 Ha.</u> <u>= 747.75 Ha</u> (c) In planning DDA= 280Ha <u>UP= 192.75 Ha</u> <u>= 472.75 Ha</u>



**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)
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