



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 673/2020/77-80

Dated: 27-07-2022

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 June, 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 June, 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 May, 2022 was submitted vide letter dated 08.06.2022.

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 June, 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) : 3491.4 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 (632.2 MGD)**
(82.3% of estimated sewage generation)
- Capacity Utilization of existing STPs : **2591 MLD** (570 MGD)
(90.2 % of installed capacity)
 [Main under utilised STPs are– Okhla Phase II, III, IV & V Coronation Pillar Phase-I&II, New Coronation Pillar, Narela, Rohini, Ghitorni]
- MLD of sewage being treated through Alternate technology : Nil

- Gap in Treatment Capacity - Gap in Treatment - No. of Operational STPs - No. of Complying STPs - No. of Non-complying STPs	: 617.3 MLD (135.8 MGD) [768 – 632.2 MGD] (17.7 %) : 900 MLD (198 MGD) [768 – 570 MGD] (25.8 %) : 35 (Samples could be analyzed by DPCC Lab in case of 33 STPs only in the month of June, 2022 refer Annexure-1. In case of Ghitorni STP sample could not be taken & Kondli STP Phase-III is under trial run.) : 10 w.r.t. Standards prescribed by DPCC 24 [w.r.t. Design Parameter] : 23 (Letter issued to DJB on 13.07.2022 for taking rectification measures to meet the prescribed standards). Following 9 STPs (Total 160 MGD Capacity) are designed for BOD : TSS 10 :10 mg/l 1. Pappankalan Phase II (20 MGD) 2. Nilothi Phase II (20 MGD) 3. Delhi Gate Phase II (15 MGD) 4. Kapashera (5 MGD) 5. Chilla (9MGD) 6. Common Wealth Games Village (1 MGD) 7. Coronation Pillar New STP (70 MGD) 8. Kondli STP Phase-I (10 MGD) 9. Kondli STP Phase-III (10 MGD) Standards prescribed by DPCC for STPs of DJB in Delhi as per the directions of CPCB (More Stringent than prescribed by MoEF&CC) : (i) pH - 6.5 - 9.0 (ii) TSS ≤ 10 mg/l (iii) BOD ≤ 10 mg/l (iv) COD ≤ 50 mg/l (v) Ammonical Nitrogen ≤ 5mg/l (vi) Total Nitrogen (N-Total) ≤ 10 mg/l (vii) Phosphate (PO₄ - P) ≤ 2 mg/l (viii) Fecal Coliform(FC) (MPN/100ml) < 230
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- **Sewage Treatment Capacity Augmentation Plan of Delhi to meet the Gap and Accommodate future Increase in Sewage Generation:**

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

- (i) Rehabilitation of existing STPs
- (ii) Upgradation and increasing capacity of existing STPs
- (iii) Construction of New STPs / DSTPs in outer Delhi
- (iv) Construction of New STPs at Delhi Gate and Sonia Vihar

Sewage Treatment Capacity Augmentation Plan

S.No.	Sector	Plant	Additional Capacity (MGD)	Timelines
1	I	Kondli (Phase II)	20	December, 2022
		Rithala	40	
		Okhla	30	
		Coronation Pillar		
		Sub Total (Additional Capacity by December, 2022)	90 MGD	70 MGD STP Completed, under trial run
2	II	33 Decentralized STPs at various locations of Delhi	60	June, 2023*
3		14 STPs in Najafgarh Drainage Zone	32	
4	III	Construction of New STPs at Delhi Gate (10 MGD) and Sonia Vihar (7 MGD)	17	June, 2023*
5	IV	Capacity Augmentation of Existing STPs through latest technology of IFAS (Integrated Fixed Film Activated Sludge)	94.5	
		Sub Total	203.5 MGD	
		Total Additional Capacity by June, 2023	293.5 MGD (1334.25 MLD)	

* Subject to availability of land from the various land owning agencies like DDA and for private land from District Administration.

Total Capacity of STPs by December, 2022 - 722.2 MGD [632.2 MGD + 90 MGD]

Total Capacity of STPs by June, 2023 - 925.7 MGD [632.2 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 June, 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 June, 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)	-	-	June, 2023 (STP is operational as per existing designed parameters)
2.	Kondli STP Phase I, II & III	204.57 MLD [45 MGD (10+25+10)]	82.42 (1.21 in June, 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)	63.45 (1.85 in June, 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)	62.71 (0.76 % in June, 2022)	-	December, 2022

Status of Remaining 16 STPs (Total Capacity 348 MGD) Proposed to be up-graded for achieving BOD / TSS : 10 / 10 mg/l.

Consultancy Awarded for No of STPs	No of STPs at Tender Stage	No of STPs Work Awarded (Work is in progress)	Time line for Completion	Remarks
16	16	Nil	December, 2023	DJB has decided to upgrade/improve treated effluent parameters of existing STPs to meet latest parameters prescribed by CPCB for BOD/TSS as close to 10/10 mg/l by IFAS technology required to be carried out for improving treated effluent parameters namely use of chemical dosing, increase of aeration by making existing aeration units functional/installation of additional aerators/use of plastic media and installation of disc filters so as to treat the sewage with parameters of BOD/TSS as close to 10/10 mg/l without treatment of ammonia as per latest CPCB norms.

Note – Total Estimated Fund requirement by DJB for Upgradation of 16 STPs is Rupees 2721 Crores [For 348 MGD @ Rs 7.82 Crores per MGD)

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 has been reassessed and due to land constraints some of the centralized STPs are being constructed and no. of DSTPs has reduced from earlier 42nos. to 33nos. After re-assessment number of DSTPs has further reduced to 27 nos. Land has been allotted at 15 locations and for balance matter is being pursued with land owing agencies. Estimates are being prepared for DSTPs /STPs where land has been allotted.	December, 2023 (subject to allotment of balance land parcels of DSTPs/ SPS.)
2.	14 (9+5) STPs in Najafgarh Drainage Zone	145	The work of 9+5 STP has been rescinded and the whole scheme has been reframed so as to accommodate the maximum nos. of u/a colonies in the 11 parcels of land already in possession of DJB. The works of internal sewers for the following 10 locations of DSTPs have been awarded and are in progress. 1. Kair GOC 2. Kanganheri GOC 3. Goyla Vihar GOC 4. Mitraon GOC 5. Galibpur GOC 6. Sarangpur GOC 7. Kazipur GOC 8. Jafarpur GOC 9. Khera Dabar GOC 10. Shikarpur GOC, Further, the tenders for internal sewer lines at the following balance 04 locations have been received and scrutiny is in process:- 1. Tajpur GOC 2. Hasanpur GOC 3. Tikri GOC & 4. Dichaon Kalan GoC. Consultants for DSTPs at all the above locations have also been appointed. The designs of the DSTPs are at final stage.	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 June, 2022	Cumulative Status as in June, 2022 Provision of trapping made	Time line for completion of work	Remarks
1100.86 MLD (242.16 MGD)	-	1082 MLD (238 MGD)	Completed	About 1045 MLD (230 MGD) is being trapped and treated out of 1082 MLD (238 MGD). Entire flow shall be trapped and treated by December, 2022 after construction / rehabilitation of Rithala and Kondli STP under YAP-III.

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

S. No	Status	Cumulative Status as in June, 2022 (No.)	Remarks
1	Sewer line laid and commissioned	716	-
2	Work of sewer network is in progress	552	-
3	Colonies where NOC is awaited/O Zone	161	The work shall be taken up after NOC from Forest Deptt./ Ozone.
4	Colonies where sewerage network is to be laid along with Decentralized STPs	370	The work shall be taken up after allotment and possession of land 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.

Agency	No of Vehicles Authorised by DJB (As on 30.06..2022)	No. of Functional SPSs for collection of septage from vendors	Septage collected & Treated in June, 2022	Septage treated by DJB (As on 30.06.2022)
DJB	284	86	3.14 Crore Litres	101.22 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)** - Land for construction of STP at the mouth of Mori Gate has been handed over to DJB by DDA. For Mori gate 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 by DJB and the 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/ : Existing CETPs–13(List at **Annexure-3**) Under Construction / Proposed) Capacity – 212.3 MLD (Utilization – 69.72 MLD) Under Construction/Proposed – Nil

Status of Compliance and Operation of the CETPs

Town	No. of Industries/ Units (in 28 Approved Industrial Areas)	Industrial Discharge	Status of ETPs	Status of CETPs (Existing, Under Construction & Proposed)
Delhi	25253	28.75 MLD	-	Existing – 13 CETPs List along with Compliance Status of June, 2022 is at <u>Annexure-3</u> Under Construction / Proposed - Nil Complying - 11 [Jhilmil, Mayapuri, Mangopuri, Wazirpur, Nangloi, SMA, Okhla, Narela, Bawana, Naraina, & GTK]

				Not Complying - 2 [CETPs at Lawrence Road & Badli] - Above 2 CETPs meeting the prescribed standards except the parameters mentioned in Table given below : <table><tr><td>Badli</td><td>BOD, Sulphide</td></tr><tr><td>Lawrence Road</td><td>BOD, Oil & Grease, Phosphate 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. - DPCC issued directions for closure to the 1065 water polluting industries/ units in the 17 industrial areas connected to the 13 CETPs in first week of July, 2021. - Letters issued on 13.07.2022 to the concerned CETP Societies based on the Effluent Analysis Reports of DPCC Lab for the month of June, 2022 for taking rectification measures to meet the prescribed standards.	Badli	BOD, Sulphide	Lawrence Road	BOD, Oil & Grease, Phosphate and Sulphide
Badli	BOD, Sulphide							
Lawrence Road	BOD, Oil & Grease, Phosphate 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 June, 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 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. However, formal orders of Competent Authority are awaited. DJB is supposed to take up the upgradation work of all CETPs.

V. Solid Waste Management:

- Total Number of Urban Local Bodies (ULBs) : 3 [MCD, NDMC & DCB]
and their Population Total Population – About 2.1 Crores
- Current Municipal Solid Waste Generation : 11357 TPD

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

S. No.	Particulars	Information
1.	Number, Installed Capacity and Utilization of Existing MSW Processing Facilities in TPD (Bifurcated by type of processing e.g. Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, Decentralized, Pit Composting), Biomethanation, MRF etc.	• Total Capacity of Existing MSW Processing Facilities (Excluding Pit Composting & MRFs) - 5360.64 TPD (47.2%) • Total MSW Processing (Excluding Pit Composting & MRF) - 4345 TPD (38.25%) • Processing/Recycling/Composting/Bio-methanation of MSW - 5235 TPD (46.1 %) • Disposal through Compost Pits - 649 TPD • Recycling through MRFs - 241 TPD

		• Gap in MSW Processing - 6122 TPD [11357 – 4345 – 241 - 649 = 6122] (53.9%) • Gap in MSW Processing Capacity - 5996.36 TPD (52.8%) • Capacity of 3 Existing WTE Plants - 4550 TPD (Power generation capacity - 59 MW) • One Operational Centralised Compost Plants - 700 TPD [200 TPD at Okhla Closed due to upgradation into Bio-CNG plant of 300 TPD] • 10 Bio-methanation Plants of 5 TPD each - 50 TPD • 19 Decentralized Composter Plants - 19 TPD of 1 TPD each - Others (Compost Pits, OWCs etc.) - 41.64 TPD [28 Organic Waste Converter (OWCs) (13.215 TPD) & 6 Biogas Plants (8.25 TPD) in NDMC area + 3 Composters [1 Sorting Cum Composter at Tigris Road (20 TPD) + 2 Food Waste Composters of Total Capacity of 0.175 TPD (0.125 TPD + 0.05 TPD) in DCB area + Five Star Hotels/ Other Bulk Waste Generators having Individual OWCs]
2.	Action Plan to bridge gap between Installed Capacity and Current Utilization of Processing Facilities (if Gap > 20%	Not Applicable since installed capacity of Existing MSW Processing Facilities in Delhi is being utilised.
3.	No. and capacity of C&D Waste Processing Plants in TPD (Existing, Proposed and under construction)	• Existing operational C&D Waste Processing Facilities Capacity - 3150 TPD • Proposed New C&D Waste Processing Facilities Capacity - 1500 TPD Existing operational C&D Waste Processing Facilities are located at (i) Rani Khara (1000TPD) (ii) Shastri Park (1000 TPD) (iii) Bakkarwala (1000 TPD) (iv) Rani Khara (Mundka) (150 TPD) C&D Waste Processing Facility at Jahangirpuri (Burari) is under revamp and therefore not in operation. Proposed C&D Waste Processing Facilities are : (i) Tehkhand Okhla (1000 TPD) (ii) Libaspur (500 TPD)
4.	Total No. of Wards, No. of Wards having Door to Door Collection Service, No. of Wards practicing segregation at source	No. of Wards - 294 [MCD-272, DCB-08 & NDMC-14 Circles] Door to Door collection in all wards and circles of MCD, NDMC & DCB. Segregation of Waste : • NDMC - 100% (in all Circles) • DCB - 95-100% in Model Wards of Civilian Area 60-70% in Army Area • MCD - 80-100 % (in 73 Model Wards) 60 - 80% (in 11 Wards)

		50-60% (in 100 Wards) 40-50% (in 10 Wards) 20-40% (in 39 Wards) 10-20% (in 39 Wards)	
5.	Details of MSW Treatment Facilities proposed and under construction (No., Capacity and technology)	Proposed Main MSW Processing/Treatment Facilities (i) 2000 TPD Waste to Energy Plant (WTE) at Tehkhand by 30.09.2022 . (ii) 3000 TPD Waste to Energy Plant at Narela-Bawana by 31.08.2025 . (iii)Engineered Sanitary Landfill at Tehkhand by April, 2023 (iv)Expansion of existing WtE at Okhla from 1950 TPD to 2950 TPD (from 23 to 40 MW Capacity). Public Hearing for Expansion of existing WtE at Okhla is scheduled on 16.08.2022. (v) Existing Waste to Energy Plant at Bawana from 24 MW to 60 MW Capacity (up to 3000 TPD). Public consultation will be done in case of proposed expansion of existing Waste to Energy Plant at Bawana as per the Terms of Reference issued by MoEF&CC vide letter dated 29.06.2022.	
6.	No. and Area (in Acres) of uncontrolled garbage dumpsites and Sanitary Landfills.	Name of Dumpsite	Area in Acres
		Ghazipur Dump Site	70
		Bhalaswa Dump Site	70
		Okhla Dump Site	46
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	4896 (44.5%)	- 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 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	Installed Capacity of Existing MSW Processing Facilities is being utilised.	3000 TPD Waste to Energy Plant at Narela Bawana by 31.08.2025 2000 TPD WTE Plant at Tehkhand by 30.09.2022 - Engineered Sanitary Landfill at Tehkhand by 30.04.2023 - Expansion of existing WtE at Okhla from 1950 TPD to 2950 TPD (from 23 to 40 MW Capacity). Public Hearing for Expansion of existing WtE at Okhla is scheduled on 16.08.2022.

			Pur in Vasant Kunj, Geeta Colony & Shastri Park) ● 19 Composter Plants – 5 TPD (1 TPD each at Bhorgarh Nursery, Rajendra Nagar, Maurya Enclave, Mori Gate, Sector 11 Rohini, Chirag Delhi, Punjabi Bagh Nursery, Near Lady Shri Ram College East of Kailash and Dwarka Sector-14, Trilokpuri near Block-13, Mayur Vihar Ph-II, Preet Vihar, Jhilmil, New Trilokpuri near Block-13, Saini Enclave, Usmanpur, Kheda Village, Sunder Nagri, Gokulpur). ● 581 Compost Pits of 542 TPD ● One MRF of 8 TPD at Zakhira, 135 MRFs of total 131 TPD at various Locations, 2 MRFs of 5 TPD at Raghubeer Nagar & Dwarka Sec-29		● Existing Waste to Energy Plant at Bawana from 24 MW to 60 MW Capacity (up to 3000 TPD). Public consultation will be done in case of proposed expansion of existing Waste to Energy Plant at Bawana as per the Terms of Reference issued by MoEF&CC vide letter dated 29.06.2022. ● One Bio-CNG Plant of 300 TPD at Okhla by 31.07.2023 (From existing Compost Plant of 100 TPD to 300 TPD). ● Compressed Bio-Gas (CBG) Plant of 100 TPD at Hastsal by 30.04.2023. ● 1 Composter Plant of 1 TPD at Nursery of Ramleela Ground by 30.09.2022. ● 1 Composter Plant – 01 TPD at Vishwas Nagar by 31.10.2022 ● 1 Material Recovery Facility (MRFs) of total 150 TPD Capacity by 31.12.2022.
NDMC	285	285 (100%)	● 2 Organic Waste Converter-2 TPD (1TPD each at Madhulimey Marg & Raza Bazar in New Delhi) ● 26 Organic Waste Convertor (OWCs) (13.215 TPD) & 6 Biogas Plants (8.25 TPD) in NDMC area ● 50 Compost Pits of 11.213 TPD ● 2 MRFs of total capacity of 8 TPD at Circle 8, Palika Niwas & Circle 10, Kautilaya Marg ● 2 Domestic Hazardous Waste Collection Centers of 0.5 TPD each.	Installed Capacity of Existing MSW Processing Facilities is being utilised.	-
DCB	72	54 (75 %)	● 01 Sorting Cum Composter (20 TPD) + 02 Food Waste Composter (0.125 TPD + 0.05 TPD) at Tigris Road ● 11 MRFs of total capacity of 50 TPD.	Installed Capacity of Existing MSW Processing Facilities is being utilised.	2 Sorting cum composters at & Kirby place, Delhi Cantt. of total capacity of 50 TPD [(1 of 30 TPD) & (1 of 20 TPD)] by 30.09.2022 .
Total	11357	5235 (46.1%)	5360.64 TPD excluding MRFs & Compost Pits		
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 : **23.20 TPD** (Average of Bio-medical waste generation in 2020 excluding Covid waste)
- No. of Hospitals and Health Care Facilities : **10423**
- Status of Treatment Facility/ CBMWTF : Treatment & Disposal through existing 2 CBMWTFs

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

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

Both the CBMWTFs are having Incinerators, Autoclaves & Shredders for the treatment of Bio Medical Waste collected from the Health Care Establishments in Delhi and have installed Air Pollution Control System and Online Monitoring System. Bio-medical Waste including COVID-19 waste is being dealt as per the provisions of the Bio Medical Waste Management Rules, 2016 and Guidelines issued by CPCB from time to time. For preventing illegal dumping of biomedical waste in Delhi, a Standard Operating procedure (SOP) has already been developed and circulated to all the District Magistrates (being Chairman of the District level Committees comprising of all the concerned departments including CBMWTFs).

VII. Hazardous Waste Management:

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

TSDF for Hazardous Waste at Bawana :

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

Consent to Operate under the Air & Water Acts and Authorisation under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 have been issued by DPCC to the Project Proponent on 04.03.2022 for Secured Land Fill (SLF), Incinerator and Associated Activities. TSDF has already started receiving Hazardous Waste.

VIII. Plastic Waste Management:

- Total Plastic Waste generation: 1060 TPD (Appx.)
- Registration under the Plastic Waste Management Rules, 2016 (as amended upto 2018) issued to 976 units as briefed below:
 - Recyclers : 216
 - Producers : 264
 - Manufacturers : 496

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 13 Meetings have been held so far. Minutes of the last meeting (13th) held on 21.05.2022 are at **Annexure-5**.
- DOAs have submitted / are submitting their Action Plan with time line subject to availability of fund.
- EDMC has installed a STP at Jheel Park for treatment of incoming drains and is functional. The capacity of treatment is about 3 MLD with a cost of Rs. about 7 crores through Phyto-Remediation/Bio-Remediation.
- The waste water in Kushak Nala running through NDMC areas is under bio-remediation.
- SDMC has given consultancy to IIT Delhi for the work of insitu treatment in Pushp Vihar drain (part of Chirag Delhi drain) in 1.7 km long stretch has been started as a pilot project and will be completed by June, 2022. Capacity of drain is about 5.8 MLD.
- 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 will be completed by 30.06.2022. The capacity of this drain is about 10 MLD and the process taken up is Phyto-Remediation/Bio-Remediation. It is planned that the BOD of the drain will be reduced from 80 to 10 ppm.
- 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 insitu treatment of Najafgarh and supplementary drain have already started by construction of a 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.

Brief regarding In-situ Bioremediation / Phytoremediation of Sewage in Drains provided by I&FCD is given at **Annexure-6**.

- 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 30.06.2022.
- 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. The work will be completed within 9 months.

- IDMC has decided that reminder for allocation of funds to SDMC, EDMC & North DMG will be made to CPCB through EPF and to DDA through Integrated Drain Management Cell. However, each drain owing agency should also pursue allocation of the fund with respective funding agencies at their end.
- All DOAs have been directed to submit an action plan along with time and Action Taken Report in compliance with the Order of Hon'ble NGT to treat the entire length of drain under their command.

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 over all 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 June, 2022 is at **Annexure-7.**

Water Quality of major Drains for the samples collected by DPCC Water Laboratory in the Month of June, 2022 is at **Annexure-8.**

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 30.06.2022
1.	DJB Installations	594	594	0
2.	By DJB for other Departments	89	89	0
3.	Monitored by DJB for other Government Departments	5472	3705	1767
4.	Schools	4549	4144	405
	Total	10704	8532	2172

XVII. Demarcation of Floodplain and Removal of Illegal Encroachments:

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

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

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

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

(iii). Installation of Electronic Surveillance System:

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

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

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

150 Jhuggies in 2 acre land could not be removed due to stay by Courts. Details of removal of encroachment by DDA is given at **Annexure-9.**

(v). Demolition Program :

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

(vi). Removal of C&D Waste :

36,200 metric tonnes of C&D waste lying in floodplain has been lifted to IL&FS site or utilized for development of Yamuna Project by DDA. Details of Challans issued by DDA in the period 2018 to 2022 is given at **Annexure-10.**

(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 30.06.2022) is at **Annexure –11.**

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 **403.3 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 **403.3 ha** of land **2,18,437** 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 **1,32,153** plant saplings by Forest Department, Delhi.

- | |
|---|
| <ul style="list-style-type: none">• Total land handed over till date = 648.168 ha• The area that has been afforested till date = 646.68 ha |
|---|

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

- **Yamuna Biodiversity Park is already existing** and located in Jagatpur Khadar Yamuna Flood Plains in 9770 Hectares (upstream of Wazirabad).
- **South Biodiversity Park is being developed by Delhi Development Authority in the 115 Hectares area in Yamuna Flood Plains near Kalindi Colony.** The project has been awarded to CEMDE on 13.12.2019 and the work is under progress. 6 out of 9 wetlands have been completed. The balance 3 wetlands will be completed soon. Following works have been done under the said project :

➤ Greenway and recreational park development:

A small stretch of 500 m long and 10 m wide stripe along the Ashram Road has been planted with 300 plants. A large solid waste dump behind the Kalindi Colony has been landscaped and this is being developed into a recreational park.

➤ Development of Nature Trails:

Two nature trails - one trail from Ashram Road to DND Flyover has been made; both sides of this nature trail are being developed into a greenway.

➤ Development of Terrestrial Communities:

About 20 Hectare of elevated portion beneath the DND flyover has been processed for planting 15000 saplings of native trees. 3-5 in-situ constructed wetland system are to be taken up for treatment of sewage water entering into wetlands and finally into river Yamuna.

XXI. Reuse of Treated Water:

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

Out of 570 MGD of treated waste water from STPs about 90 MGD is being used for various purpose e.g. Horticulture, Irrigation, DTC Depot etc.

Progress on better utilization of treated waste water

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

1. DJB has written letters to respective stakeholders/ park owning agencies dated 23/5/2019 followed by reminders dated 11/6/2019, 17/6/2019, 21/6/2019, 16/7/2019 & 19/7/2019 requesting them to start taking treated effluent from STPs of DJB for their parks within the radius of 5 KM of STP by tankers as an interim arrangement as desired by the monitoring committee. DJB has installed filling points at its all major STPs for filling the tankers. CEO DJB vide letter dated 28.12.2020 has also requested stakeholders to utilize the treated effluent through tankers in parks within 5 Kms radius of STP.
2. Notices were issued by DJB to DDA, NDMC, Municipal Corporations, CPWD, DMRC, PWD, DUSIB to submit ATR to Monitoring Committee to utilize treated effluent in their parks within 5 km radius of STPs filling points.
3. DJB has requested vide letter dated 5/9/2019 to all District Magistrates to seal the bore wells in the parks which are used for horticulture purpose. Reminders dated 7/10/2019, 11/11/2019 & 25/11/2019 were issued to District Magistrates to seal the bore well in parks used for horticulture purpose.
4. Another request was sent to Divisional Commissioner vide letter dated 29.10.2020 for issuance of suitable directions to respective District Magistrates to initiate/expedite sealing of bore wells in the parks where treated effluent from nearby STPs is not being used. CEO DJB vide letter dated 28.12.2020 has also asked Divisional Commissioner & District Magistrates to seal the borewells in the parks where treated effluent from nearby STPs is not being used.
5. As requested by the UD Deptt. vide letter dated 25.11.2020 , list of parks where bore wells were being used for horticulture purposes was sent to the District Magistrates on 26.11.2020 for sealing of bore wells.

Number of Tankers Deployed:

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

Agency	No. of tankers engaged
DTC	06
PWD	104
EDMC	36
IL & FS	01
DDA	10
Private Agencies	142
SDMC	18
AAI	00
Forest Department	10
CPWD	02
M/s L&T	07
NBCC	11
DJB internal Horticulture use	06
NDMC	03
TOTAL	356

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 June, 2022 is briefed below :

- No. of Water Polluting Industries/Units against which Action was taken -- 22
- Show Cause Notices issued -- 11
- Directions for Closure issued -- 02
- Environmental Compensation Imposed -- Rs. 44 Lakh
- Environmental Compensation Received -- Nil

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. No.	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	827	501	221	36	35	25	9
2.	BDO/REV.	131	119	3			9	0
3.	EDMC	3	3					0
4.	SDMC	13	13					0
5.	NORTH MCD	6	6					0
6.	DJB	6	0	6				0
7.	PWD	1	1					0

8.	CPWD	5	5					0
9.	ASI	15	15					0
10.	FOREST	26	26					0
11.	DELHI ARCH. DEPTT.	1	1					0
12.	DELHI WAKF BOARD	1	1					0
13.	DUSIB	1	1					0
14.	DSHDC	4	4					0
15.	JNU	3	3					0
16.	IIT	1	1					0
17.	NTPC	1	1					0
		1045	701	230	36	35	34	9

- 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 and 3rd meetings of the Technical Committee were held on 05.08.2021, 09.11.2021 and 18.02.2022. 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 111 wetland mitras carry out probono wetland conservation activities.
- Seven Districts has identified model ponds (North, North West, South, South West, New Delhi, North East and West). Bench marks for Model Ponds prepared and sent to all District Magistrates by Wetland Authority of Delhi.
- In pursuance of Wetlands (Conservation and Management) Rules, 2017 a "Grievance Committee under Wetland Authority of Delhi was constituted on 01.07.2021 as a mechanism for hearing and forwarding grievances raised by the public to the Wetland Authority on Wetlands falling under their respective jurisdiction.

1. Mamoor pur Award No. 202/86-87 DDA	2. Mundka
3. Hiranki	4. Ashoka Park, New Friends Colony
5. Prasad Nagar Lake	6. Mayapuri
7. Holambi Khurd	8. Pooth Khurd
9. Najafgarh Jheel	10. Ghewara
11. Lam Pur	
- 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 26 meetings were held till 15.06.2022 (copy of the minutes of the meeting on 15.06.2022 is enclosed as **Annexure - 12)**). 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.

Brief of Analysis Reports (Compliance Status) in respect of Functional STPs of Delhi Jal Board for the month June, 2022
Annexure-1

S. No.	Name of STP	Capacity (in MGD)	Existing STP Capacity (in MLD)	Capacity Being Utilized (in MLD)	Design Parameters BOD/TSS (in mg/l)	Date of Sampling	Brief of Analysis Reports (Compliance status) [Prescribed Standards by DPCC : <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	21.0	20/30	10.06.2022	Not Meeting the Prescribed standard in respect of TSS (28 mg/l against the prescribed standard of ≤ 10 mg/l), COD (64 mg/l against the prescribed standard of ≤ 50 mg/l), BOD (14 mg/l against the prescribed standard of ≤ 10 mg/l), Ammonical Nitrogen (5.2 mg/l against the prescribed standard of ≤ 5 mg/l) and Dissolved Phosphate as P (2.90 mg/l against the prescribed standard of ≤ 2 mg/l)	Yes
2	Okhla Phase – II	12	54.552	29.5	30/50	07.06.2022	Not Meeting the Prescribed standard in respect of TSS (42 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (20 mg/l against the prescribed standard of ≤ 10 mg/l) and Ammonical Nitrogen (5.2 mg/l against the prescribed standard of ≤ 5 mg/l)	Yes
3	Okhla Phase – III	37	168.20	130	30/50	07.06.2022	Not Meeting the Prescribed standard in respect of TSS (32 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (18 mg/l against the prescribed standard of ≤ 10 mg/l), Dissolved Phosphate as P (2.60 mg/l against the prescribed standard of ≤ 2 mg/l) and COD (64 mg/l against the prescribed standard of ≤ 50 mg/l)	Yes
4	Okhla Phase – IV	45	204.57	175	30/50	07.06.2022	Not Meeting the Prescribed standard in respect of TSS (42 mg/l against the prescribed standard of ≤ 10 mg/l), COD (68 mg/l against the prescribed standard of ≤ 50 mg/l) and BOD (14 mg/l against the prescribed standard of ≤ 10 mg/l)	Yes
5	Okhla Phase – V	16	72.73	60	30/50	07.06.2022	Not Meeting the Prescribed standard in respect of TSS (20 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (16 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)	Yes
6	Okhla Phase – VI	30	136.38	130	20/30	07.06.2022	Meeting the Prescribed standards.	Yes
7	Molarband	0.66	03	2.45	30/50	07.06.2022	Not Meeting the Prescribed standard in respect of TSS (28 mg/l against the prescribed standard of ≤ 10 mg/l), COD (56 mg/l against the prescribed standard of ≤ 50 mg/l) and BOD (14 mg/l against the prescribed standard of ≤ 10 mg/l).	Yes

Brief of Analysis Reports (Compliance Status) in respect of Functional STPs of Delhi Jal Board for the month June, 2022
Annexure-1

8	Dr. Sen Nursing Home Nalla	2.2	10	11.5	10/15	15.06.2022	Meeting the Prescribed standards.	Yes
9	Vasant Kunj Phase – I	2.2	10	7.5	30/50	10.06.2022	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 (3.9 mg/l against the prescribed standard of ≤ 2 mg/l).	Yes
10	Vasant Kunj Phase – II	3	13.64	7.90	30/50	10.06.2022	Not Meeting the Prescribed standard in respect of TSS (26 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (16 mg/l against the prescribed standard of ≤ 10 mg/l) and Dissolved Phosphate as P (2.9 mg/l against the prescribed standard of ≤ 2 mg/l).	Yes
11	Ghitorni	5	22.73	6.8	30/50	N.A.	Samples could not be taken.	-
12	Delhi Gate Nalla Phase – I	2.2	10	11.5	10/15	15.06.2022	Meeting the Prescribed standards.	Yes
13	Delhi Gate Nalla Phase – II	15	68.20	75	10/10	15.06.2022	Meeting the Prescribed standards.	Yes
14	Kondli Phase – I	10	45.46	45.4	10/10	15.06.2022	Not Meeting the Prescribed standard in respect of TSS (20 mg/l against the prescribed standard of ≤ 10 mg/l) and BOD (16 mg/l against the prescribed standard of ≤ 10 mg/l), Ammonical Nitrogen (9.2 mg/l against the prescribed standard of ≤ 5 mg/l) and Dissolved Phosphate as P (2.6 mg/l against the prescribed standard of ≤ 2 mg/l)	No
15	Kondli Phase - III	10	45.46	0	10/10	-	Under trial run.	-
16	Kondli Phase – IV	45	204.57	227.18	20/30	15.06.2022	Not Meeting the Prescribed standard in respect of TSS (82 mg/l against the prescribed standard of ≤ 10 mg/l), COD (136 mg/l against the prescribed standard of ≤ 50 mg/l), BOD (48 mg/l against the prescribed standard of ≤ 10 mg/l) and Dissolved Phosphate as P (7.8 mg/l against the prescribed standard of ≤ 2 mg/l)	No
17	Chilla	9	40.91	42.51	10/10	15.06.2022	Meeting the Prescribed standards.	Yes
18	Yamuna Vihar Phase – I	10	45.46	44.85	30/50	08.06.2022	Not Meeting the Prescribed standard in respect of TSS (14 mg/l against the prescribed standard of ≤ 10 mg/l)	Yes
19	Yamuna Vihar Phase – II	10	45.46	44.31	30/50	08.06.2022	Not Meeting the Prescribed standard in respect of TSS (44 mg/l against the prescribed standard of ≤ 10 mg/l), COD (100 mg/l against the prescribed standard of ≤ 50 mg/l), BOD (34 mg/l against the prescribed standard of ≤ 10 mg/l) Ammonical	No

Brief of Analysis Reports (Compliance Status) in respect of Functional STPs of Delhi Jal Board for the month June, 2022
Annexure-1

							Nitrogen (10.6 mg/l against the prescribed standard of ≤ 5 mg/l) and Dissolved Phosphate as P (5.4 mg/l against the prescribed standard of ≤ 2 mg/l)	
20	Yamuna Vihar Phase – III	25	113.65	113.5	20/30	08.06.2022.	Not Meeting the Prescribed standard in respect of TSS (38 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (32 mg/l against the prescribed standard of ≤ 10 mg/l), COD (96 mg/l against the prescribed standard of ≤ 50 mg/l) and Ammonical Nitrogen (6.2 mg/l against the prescribed standard of ≤ 5 mg/l).	No
21	Common Wealth Games Village	1	4.55	0.50	02/01	15.06.2022	Meeting the Prescribed standards.	Yes
22	Coronation Pillar Phase – I & II	20	90.92	20	30/50	13.06.2022	Not Meeting the Prescribed standard in respect of TSS (38 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (22 mg/l against the prescribed standard of ≤ 10 mg/l), and Dissolved Phosphate as P (4.30 mg/l against the prescribed standard of ≤ 2 mg/l).	Yes
23	New Coronation Pillar	70	318.22	273	10/10	13.06.2022	Not Meeting the Prescribed standard in respect of TSS (22 mg/l against the prescribed standard of ≤ 10 mg/l) and BOD (14 mg/l against the prescribed standard of ≤ 10 mg/l)	No
24	Narela	10	45.46	30	30/50	06.06.2022	Not Meeting the Prescribed standard in respect of TSS (32 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (22 mg/l against the prescribed standard of ≤ 10 mg/l), COD (80 mg/l against the prescribed standard of ≤ 50 mg/l) and Dissolved Phosphate as P (3.40 mg/l against the prescribed standard of ≤ 2 mg/l).	Yes
25	Rithala Phase –II	40	181.60	187	15/20	09.06.2022	Meeting the Prescribed standards.	Yes
26	Rohini	15	68.19	40	30/50	09.06.2022	Not Meeting the Prescribed standard in respect of TSS (34 mg/l against the prescribed standard of ≤ 10 mg/l), COD (68 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 (3.60 mg/l against the prescribed standard of ≤ 2 mg/l).	Yes
27	Keshopur New (Phase I)	12	54.55	54.48	20/30	13.06.2022	Not Meeting the Prescribed standard in respect of TSS (26 mg/l against the prescribed standard of ≤ 10 mg/l), COD (64 mg/l against the prescribed standard of ≤ 50 mg/l), BOD (18 mg/l against the prescribed standard of ≤ 10 mg/l)	Yes
28	Keshopur Phase–II	20	90.92	93	30/50	13.06.2022	Not Meeting the Prescribed standard in respect of TSS (48 mg/l against the prescribed standard of ≤ 10 mg/l), COD (84 mg/l against the prescribed standard of ≤ 50 mg/l), Ammonical	No

Brief of Analysis Reports (Compliance Status) in respect of Functional STPs of Delhi Jal Board for the month June, 2022
Annexure-1

							Nitrogen (6.5 mg/l against the prescribed standard of ≤ 5 mg/l) and BOD (38 mg/l against the prescribed standard of ≤ 10 mg/l).	
29	Keshopur Phase-III	40	181.84	185	30/50	13.06.2022	Not Meeting the Prescribed standard in respect of TSS (14 mg/l against the prescribed standard of ≤ 10 mg/l)	Yes
30	Nilothe Phase – I	40	181.84	190	30/50	14.06.2022	Not Meeting the Prescribed standard in respect of TSS (60 mg/l against the prescribed standard of ≤ 10 mg/l), COD (132 mg/l against the prescribed standard of ≤ 50 mg/l), Dissolved Phosphate as P (7.2 mg/l against the prescribed standard of ≤ 2 mg/l), Ammonical Nitrogen (8.9 mg/l against the prescribed standard of ≤ 5 mg/l) and BOD (42 mg/l against the prescribed standard of ≤ 10 mg/l).	No
31	Nilothe Phase – II	20	90.92	96	10/10	14.06.2022	Meeting the Prescribed standards.	Yes
32	Pappankala Phase– I	20	90.92	95.8	30/50	14.06.2022	Not Meeting the Prescribed standard in respect of TSS (68 mg/l against the prescribed standard of ≤ 10 mg/l), COD (96 mg/l against the prescribed standard of ≤ 50 mg/l), Ammonical Nitrogen (7.8 mg/l against the prescribed standard of ≤ 5 mg/l) BOD (36 mg/l against the prescribed standard of ≤ 10 mg/l) and Dissolved Phosphate as P (6.2 mg/l against the prescribed standard of ≤ 2 mg/l)..	No
33	Pappankala Phase Phase – II	20	90.92	95	10/10	14.06.2022	Meeting the Prescribed standards.	Yes
34	Najafgarh	5	22.73	22.7	30/50	14.06.2022	Not Meeting the Prescribed standard in respect of TSS (56 mg/l against the prescribed standard of ≤ 10 mg/l), COD (108 mg/l against the prescribed standard of ≤ 50 mg/l), Dissolved Phosphate as P (6.2 mg/l against the prescribed standard of ≤ 2 mg/l) and BOD (38 mg/l against the prescribed standard of ≤ 10 mg/l).	No
35	Kapashera	5	22.73	22.7	10/10	10.06.2022	Meeting the Prescribed standards.	Yes
	Total		2874.01 (in MLD) 632.2 MGD	2591.08 (in MLD) 570 MGD				

Note:-

1. As per the Analysis Reports of DPCC Water Laboratory for June, 2022, out of 35 operational STPs of DJB, 33 STPs samples were analysed where 10 STPs were found complying with the standards prescribed by DPCC.
2. Out of 33 STPs, 24 STPs were found Complying w.r.t. Design parameters (BOD/TSS).

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

S. No.	Name of Drain	Discharge (MLD)	Status	Remarks
1.	Magazine Road Drain	7.8 (1.72 MGD)	Trap Completed.	Pollution in River Yamuna from this drain stopped.
2.	Sweeper Colony Drain	8.6(1.89 MGD)	Trap Completed.	---- Do--
3.	Khyber Pass Drain	1.7(0.37 MGD)	Trap Completed.	---- Do--
4.	Metcalf House Drain	17.25(3.80 MGD)	Trap Completed.	---- Do--
5.	Tonga Stand Drain	7.8(1.72 MGD)	Trap Completed.	There is small discharge from the local settlements downstream of trapping points for which it is proposed to trap and pump the same to the nearby sewer line.
6.	Moat Drain(Vijay Ghat)	Dry	Trap Completed. Dry drain	---- Do--
7.	Civil Military Drain	14.68(3.23 MGD)	Trap Completed.	---- Do--
8.	Delhi Gate Drain	75.16(16.55 MGD)	Trap Completed.	---- Do--
9.	Drain No 14	25.87(5.70 MGD)	Trap Completed.	---- Do--
10.	Tughlaqabad Drain	25.05(5.51 MGD)	Trap Completed.	---- Do--
11.	Kalkaji Drain	Merged with Tuglakabad Drain	Trap Completed.	---- Do--
12.	Tehkhand Drain	39.74(8.75 MGD)	Trap Completed.	---- Do--
13.	Sen Nursing Home Drain	43.20(9.51 MGD)	Trap Completed. However, overflow was observed from the gates on Sen Nursing Home Nallah installed by the agency operating the STP.	This drain is trapped into Dr Sen Nursing Home STP of Delhi as well as into the Ring Road Trunk Sewer. However, Rising Main from Azad Bhawan SPS (under MCD) & sub soil water from WHO building under construction are being discharged at the downstream of trapping. It is proposed to divert the rising main of Azad Bhawan SPS to Sen Nursing Home STP.
14.	QudsiaBagh+ Morigate Drain	43.2(9.51 MGD)	Tenders have been re-invited which are due on 06/07/2022	Land for construction of STP at the mouth of Mori Gate has been handed over to DJB by DDA. For Mori gate STP, alternative proposal is framed to carry the sewage to Nehru Vihar SPS for its treatment into Coronation Pillar STP by laying a rising main from proposed SPS at ISBT Kashmere Gate. Tenders have been re-invited and the work is likely to be completed by August. 2023
15.	Barapulah Drain	145.15(31.97 MGD)	DJB is undertaking works for trapping of sewage in the command of Barapulla Drain as per the report of expert member of Monitoring Committee and the work of trapping flow in Kushak drain at Andrews Ganj Pumping station have been completed. Further, the sewer rehabilitation works are also under implementation at Munirka, Sarai Kale Khan, Saket etc. All these measures are expected to be completed by August, 2022 which will reduce about 45.46 MLD (10 MGD) flow in	The timeline for completion of the scheme is June-2023.

			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.	
16.	Maharani Bagh Drain	30.24(6.66 MGD)	1. The work of trapping has been completed to partially trap the flow to the extent of 9-10 MLD in C.V. Raman Marg Trunk sewer. 2. DJB has been awarded on 04.03.2022 an alternative scheme of Intercepting the Barapullah drain flow in a proposed laying of interceptor sewer through micro tunneling and conveying the flow to Okhla WWTP for treatment in place of const. Of proposed 20 MGD STP at the mouth of barapullah drain. The balance flow of the maharani bagh drain will be trapped in the proposed scheme of barapullah drain. The completion of the scheme is proposed on June-2023.	The work has been awarded on 04.03.2022 and the timeline for completion is June-2023.
17.	Najafgarh Drain	2056.32 (452.9 MGD)	Work is in progress.	This is a large drain having flow about 450 MGD and hence, it cannot be trapped technically. However, its major 77 tributaries including 28 tributaries on Supplementary drain (172MGD) 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 105 MGD and hence it cannot be trapped technically. However, its 31 major tributaries (70 MGD) are 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 June, 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	4.4924	08.06.2022	pH - 7.3 TSS - 404 COD - 560 BOD - 200 Oil & Grease – 20.8 Ammonical Nitrogen (N) – 22.6 Phosphate-36.4 Sulphide – 7.8	pH - 7.6 TSS - 98 COD - 144 BOD - 22 Oil & Grease – 6.2 Ammonical Nitrogen (N) – 5.8 Phosphate-4.3 Sulphide – 1.6	Meeting the Prescribed Standards.	Letter issued to CETP Society on 13.07.2022 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	4.102	09.06.2022	pH - 6.8 TSS - 180 COD - 256 BOD - 250 Oil & Grease – 14.8 Ammonical Nitrogen (N) – 26.2 Phosphate-34.1 Sulphide – 8.9	pH - 7.3 TSS - 124 COD - 88 BOD - 40 Oil & Grease – 5.8 Ammonical Nitrogen (N) – 5.8 Phosphate-4.2 Sulphide – 3.1	Meeting the Prescribed Standards except in respect of BOD (40 mg/l against Prescribed Standard of 30 mg/l) and Sulphide (3.1 mg/l against Prescribed Standard of 2.0 mg/l)	Letter issued to the CETP Society on 13.07.2022 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	3.384	06.06.2022	pH - 7.1 TSS - 476 COD - 600 BOD - 210 Oil & Grease – 15.6 Ammonical Nitrogen (N) – 32.8 Phosphate-136.5 Sulphide – 15.6	pH - 7.9 TSS - 94 COD - 104 BOD - 20 Oil & Grease – 6.2 Ammonical Nitrogen (N) – 7.4 Phosphate-3.5 Sulphide – 1.3	Meeting the Prescribed Standards.	Letter issued to CETP Society on 13.07.2022 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 June, 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	1.48	06.06.2022	pH -7.4 TSS - 432 COD - 560 BOD - 210 Oil & Grease – 13.6 Ammonical Nitrogen (N) – 18.9 Phosphate-118.2 Sulphide – 8.2	pH - 7.6 TSS - 86 COD - 72 BOD - 22 Oil & Grease –4.8 Ammonical Nitrogen (N) – 4.6 Phosphate-4.7 Sulphide – 1.4	Meeting the Prescribed Standards.	Letter issued to CETP Society on 13.07.2022 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	2.212	03.06.2022	pH -6.8 TSS - 260 COD - 360 BOD - 80 Oil & Grease – 7.6 Ammonical Nitrogen (N) – 42.8 Phosphate-3.4 Sulphide – 6.4	pH -7.6 TSS - 72 COD - 96 BOD - 28 Oil & Grease – 3.2 Ammonical Nitrogen (N) – 12.2 Phosphate-2.6 Sulphide – 1.8	Meeting the Prescribed Standards.	Letter issued to CETP Society on 13.07.2022 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	2.5122	06.06.2022	pH -7.5 TSS - 444 COD - 440 BOD - 125 Oil & Grease – 13.6 Ammonical Nitrogen (N) – 16.2 Phosphate-17.6 Sulphide – 6.9	pH -7.8 TSS - 98 COD - 80 BOD - 26 Oil & Grease – 4.2 Ammonical Nitrogen (N) – 2.9 Phosphate-1.4 Sulphide – 1.6	Meeting the Prescribed Standards.	Letter issued to CETP Society on 13.07.2022 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 June, 2022)

Annexure -3

S. No.	Name of CETP	Industrial Areas Connected with CETP	Capacity (in MLD)	Monthly Average Flow (in MLD)	Da4te of Sampling	Influent Quality at Inlet (in mg/l)	Effluent Quality at Outlet (in mg/l)	Brief of Analysis Report (For Treated Effluent)	Action Taken
7	SMA CETP	SMA, Rajasthani Udyog Nagar and SSI Industrial Areas	12	2.817	03.06.2022	pH -7.2 TSS - 456 COD - 360 BOD - 110 Oil & Grease – 8.4 Ammonical Nitrogen (N) –22.8 Phosphate-92.4 Sulphide – 7.2	pH -7.5 TSS - 68 COD - 88 BOD - 24 Oil & Grease – 2.6 Ammonical Nitrogen (N) –7.4 Phosphate-3.4 Sulphide – 1.1	Meeting the Prescribed Standards.	Letter issued to CETP Society on 13.07.2022 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	1.970	07.06.2022	pH -7.2 TSS - 524 COD - 608 BOD - 240 Oil & Grease – 38.4 Ammonical Nitrogen (N) –64 Phosphate-172.4 Sulphide – 7.2	pH -7.6 TSS - 96 COD - 184 BOD - 30 Oil & Grease – 9.2 Ammonical Nitrogen (N) – 32.8 Phosphate-4.9 Sulphide – 0.3	Meeting the Prescribed Standards.	Letter issued to CETP Society on 13.07.2022 directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC..
9	Narela CETP	Narela Indl. Area	22.5	11.914	06.06.2022	pH -7.4 TSS - 412 COD - 208 BOD - 220 Oil & Grease – 26.8 Ammonical Nitrogen (N) –15.2 Phosphate-66.4 Sulphide – 6.1	pH -7.7 TSS - 86 COD - 128 BOD - 28 Oil & Grease – 5.2 Ammonical Nitrogen (N) –6.9 Phosphate-4.1 Sulphide – 1.6	Meeting the Prescribed Standards.	Letter issued to CETP Society on 13.07.2022 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 June, 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	25.49	06.06.2022	pH -7.4 TSS - 424 COD - 544 BOD - 190 Oil & Grease – 21.6 Ammonical Nitrogen (N) – 16.4 Phosphate-51.6 Sulphide – 4.4	pH -7.5 TSS - 84 COD - 88 BOD - 28 Oil & Grease –5.2 Ammonical Nitrogen (N) –5.8 Phosphate-2.8 Sulphide – 1.3	Meeting the Prescribed Standards.	Letter issued to CETP Society on 13.07.2022 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	4.53	06.06.2022	pH - 7.1 TSS - 436 COD - 440 BOD - 175 Oil & Grease -14.8 Ammonical Nitrogen (N)- 32.2 Phosphate-6.28 Sulphide – 7.6	pH - 7.3 TSS - 82 COD - 72 BOD - 24 Oil & Grease -4.8 Ammonical Nitrogen (N)-11.6 Phosphate-3.96 Sulphide – 1.4	Meeting the Prescribed Standards.	Letter issued to CETP Society on 13.07.2022 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	2.48	03.06.2022	pH - 7.4 TSS - 1016 COD - 384 BOD - 160 Oil & Grease -12.8 Ammonical Nitrogen (N)- 44.6 Phosphate-24.8 Sulphide – 5.2	pH - 7.6 TSS - 60 COD - 88 BOD - 26 Oil & Grease -3.6 Ammonical Nitrogen (N)-12.2 Phosphate-3.2 Sulphide – 1.6	Meeting the Prescribed Standards.	Letter issued to CETP Society on 13.07.2022 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 June, 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	2.34	03.06.2022	pH - 7.7 TSS - 460 COD - 384 BOD - 130 Oil & Grease -20.8 Ammonical Nitrogen (N)-15.8 Phosphate-142.8 Sulphide – 8.2	pH - 6.6 TSS - 88 COD - 128 BOD - 34 Oil & Grease - 12.2 Ammonical Nitrogen (N)-7.4 Phosphate-40.6 Sulphide – 4.3	Meeting the Prescribed Standards except in respect of BOD (34 mg/l against Prescribed Standard of 30.0 mg/l), Oil & Grease (12.2 mg/l against Prescribed Standard of 10 mg/l), Phosphate (40.6 mg/l against Prescribed Standard of 5 mg/l) and Sulphide (4.3 mg/l against Prescribed Standard of 2.0 mg/l)	Letter issued to the CETP Society on 13.07.2022 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	69.72					

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

1. Municipal Solid Waste Management :

Municipal Solid Waste Generation, Processing and Disposal

S. No.	Particulars	MCD	NDMC	DCB	Total
1	Total Municipal Solid Waste (MSW) Generation(in TPD)	11000	285	72	11357
2	No. of Wards	272	14 (Circles)	8	280 Wards + 14 Circles
3	Lifting / Collection of MSW (in %)	100%	100%	100%	NA
4	Segregation of MSW at Source (in %)	80-100 % (in 73 Wards) 60-80% (in 11 Wards) 50-60% (in 100 Wards) 40-50% (in 10 Wards) 20-40% (in 39 Wards) 10-20% (in 39 Wards)	100 % in all 14 Circles	95-100% in Model Wards of Civilian Area 60-70% in Army Area	NA
5	MSW Processed (in TPD)	4030 (36.6%)	265 (93%)	50 (69.4 %)	4345 (38.25%)
6	Recycling through MRF	228 (2.1%)	9 (3.2%)	4 (5.5%)	241 (2.1%)
7	Disposal through Compost Pits	638 (5.8%)	11 (3.8%)	Nil	649 (5.7%)
8	Disposal of MSW in Landfill Sites	6104 (55.5%)	Nil	18 (25%)	6122 (53.9%)

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

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

(b) Municipal Solid Waste Processing and Disposal Facilities:

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

(c) Waste to Energy Plants :

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

Operational Waste to Energy Plants in Delhi

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

(d) Gap Analysis on Solid Waste Management

Generation (in TPD)	Processing/ Recycling (MRFs) / Composting/Bio-methanation (in TPD)	Gap (in TPD)
11357	5235	6122

(e) Proposed Waste Processing & Disposal Facilities in Delhi

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

6.	Compressed Bio Gas (CBG) Plant	1	Hastsal	MCD	100 TPD	April, 2023
7.	Sorting cum Composter Plants	2	Kirby Place in Delhi Cantt.	Delhi Cantonment Board	50 (Total Capacity of 2 Plants)	September, 2022
8.	Decentralised Composter Plants	2	- Ramleela Ground - Vishwas Nagar	MCD	2 (1TPD each)	September, 2022 October, 2022
	Engineered Sanitary Landfill (SLF)	1	Tehkhand	MCD	-----	April, 2023
	Total	10 + One SLF			8252 TPD	

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

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

Operational Decentralized Waste Processing Facilities :

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

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

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

MCD

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

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

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

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

2. Remediation of Legacy Waste (Old MSW):

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Status of Bio-Mining of Legacy Waste at 3 Dumpsites at Okhla, Ghazipur & Bhalaswa in Delhi (as on 30.06.2022) 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 30.06.2022)	No. of Trommels Operational
1	Ghazipur	140 Lakh Ton	11.5 Lakh Ton (8.2 %)	10
2	Okhla	60 Lakh Ton	18.5 Lakh Ton (30.8 %)	14
3	Bhalaswa	80 Lakh Ton	25.8 Lakh Ton (32.3 %)	52
Total		280 Lakh Ton	55.8 Lakh Ton (19.93 %)	76

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-1464

Dated: 27/05/2022

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

Minutes of the 13th 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 21.05.2022 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 13th IDMC meeting was held on 21/05/2022 under chairmanship of Chief Secretary. The attendance sheet is attached as Annexure "A". A detailed presentation was made by CEO, DJB comprising Hon'ble NGT decisions and IDMC decisions taken during various meeting. The minutes of 9th and last 12th meeting were discussed in details. It was apprised that some pilot projects were also done by some DoAs and for comprehensive project, some fund is required as per nodal officers of Delhi municipal corporations. Being Member Secretary of this IDMC, CEO has requested DDA, MoHUA and CPCB for providing funds.

After detailed discussion, the following have been decided

1. Major drains having discharge of more than 1 MLD to be taken up for management and treatment on the first instance. The DPR and fund requirement of the major drains to be put up by drain owning agencies (DoAs) to request for funding from MoUD GOI or Environment & Forest Deptt., GOI and/or Govt. of Delhi or Transport Deptt GOI and/or Govt. of Delhi.
2. Pilot projects of the DoAs are to be completed on priority. DJB to conduct a performance audit of the pilot projects and submit the Report

3. Wapcos report on the use of treated effluent should be shared with all nodal officers of IDMC, which can be discussed in the next meeting.
4. DJB will execute the Qkhla treated water usage plan of WAPCOS as a pilot on first instance. A detailed action plan based on the WAPCOS report will be prepared and brought before the board for approval in the next meeting.

Meeting ended with thanks to the Chair.

All Concerned

Copy to:-

1. SO to worthy CS

(Udit Prakash Rai)
Member (Secy.), IDMC

Member (Secy.), IDMC

Brief regarding In-situ Bioremediation / Phytoremediation of Sewage in Drains as provided by Irrigation & Flood Control Department (I&FCD), Govt. of NCT of Delhi.

I&FC department is maintaining 57 Nos. of drains. In order to explore the feasibility of the In-situ Bioremediation / Phytoremediation, 04 Nos. consultants, i.e. M/s INRM consultants Pvt. Ltd. and ESPTL (JV), NMP Design Pvt. Ltd., Technogreen Environmental solutions and Wapcos Ltd. were appointed to suggest the methodology for Phyto-remediation /bioremediation for 27 Nos. of I&FC drains during October & November 2019.

Two drains (Bund drain & Biharipur drain) in Trans Yamuna area were offered to NEERI for rejuvenation of drains during November 2019. As report submitted by NEERI that restoration of drain with Ecological Unit (RENEU) are not feasible in these two drains.

As per the feasibility report received from all the consultants Phyto-remediation /bioremediation is not feasible in the I&FC drains due to the main reasons as under:

1. Sufficient land is not available along the drains for Bioremediation and or Phytoremediation treatment.
2. The proposed treatment system is feasible for flow upto 50 MLD (20.44 Cusec). However the major drains of the department carrying heavy discharges more than 50 MLD & in case of minor drains no space is available.
3. Most of the drains are having heavy discharge with heavy pollutant load and having more BOD level which is not feasible for In-situ Bioremediation / Phytoremediation of waste water.
4. Heavy metals including cadmium, chromium lead and uranium cannot be biodegraded whereas most of the major drains catters the discharges from various small drains that carry industrial waste having contents of heavy metals.
5. An approx expenditure of Rs. 2 crore per MLD shall be incurred on the treatment of waste water with minimum period of execution is about 18-24 months. Which are not cost effective.

A cabinet note for appointment of NEERI to conduct feasibility study of 55 Nos. drains of I&FC Department alongwith vetting of consultants feasibility report of 27 drains was processed by I&FC department on the direction of Hon'ble Minister I&FC during the meeting held on 23.07.2020, wherein it was decided that the consultancy work for the same shall be taken up by Delhi Jal Board.

Two Nos. meeting have been organized so far by DJB with NEERI and I&FC Department on dated 19.03.2021 and 06.04.2021 on the said issue. During those meeting NEERI desired to provide details of drains with I&FC. The same has been provided to NEERI by I&FC Department.

However, in some drains of I&FC Department waste water is being trapped by Delhi Jal Board through ISP for its treatment at STP. The table is enclosed as **Annexure-A**.

Further it is submitted that only two major drains of I&FC i.e. Shahdara outfall drain and Nazafgarh drains are out falling in to river Yamuna directly and source of pollution in river.

These two drains are carrying waste water from other drains of the department and other department / local bodies (Minor as well as Major).

Now the complete discharge of Trans Yamuna area coming through the **Shahdara outfall drain** is being trapped by DJB at Ghazipur drain near Kondli bridge and being treated at Kondli and Chilla STP by the DJB.

The trapping of discharge from **Najafgarh drain** is also in progress by DJB through Interceptor project. Which is also completed in some stretches and near completion in remaining parts.

After trapping of most of the flow of I&FC drains, the treatment of drains using Bio-remediation does not seem to be of much use. Hence may please be exempted.

However, for improving and polishing the quality of waste water flowing in 53 drains tender has been called for appointment of consultant. The work is in award stage.

During various meeting of Hon'ble Minister, I&FC and Yamuna cleaning cell, it has been directed by Hon'ble Minister, I&FC for de-silting of drain, construction of weirs, installation of floating aerators and floating wetland.

(a) Accordingly 24 Nos. Temporary Wiers was constructed at Supplementary (11Nos.) & Najafgarh drain (13Nos.).

Design has been finalized of floating wetland. The process of supply and installation of aerators are in progress by DJB. The matter has been monitored by Yamuna Cleaning Cell (YCC).

(b) Dredging of Najafgarh drain in a length of 4 Km. from RD 13000m to RD 17000m is in progress.

(c) In-situ treatment : Bawana Escape Drain

The Hon'ble Minister during his visit to Ghoga Wet land on 07.09.2021 has directed that Bawana Escape Drain about length of 1200M should be treated Bioremedially by adopting in situ treatment technology such as installation of floating rafter and floating Aerators as an pilot project.

Accordingly, 21 No. Aerators and floating rafters having area about 2100 Sqm. have been installed as a pilot project in 600m stretch of aeration zone near Ghoga Wet land system of Bawana Escape drain making it performance of the aerators and floating rafters in r/o of improvement of water quality parameters is under study. However, on set of monsoon period aerators and rafters have been removed from the drain and it shall be placed back to work after withdrawal of monsoon.

(d) Ex- situ treatment : Ghoga Wet land

The pilot project for treatment of waste water of Ghoga Drain through contracted wet land of capacity 1000KLD has been commissioned in the year 2018. The treated water is being used in rejuvenation of Sanoth Lake 1200m downstream of wet land system.

(e) A consultant Professor Sirajuddin of Jamia Millia Islamia University Delhi was appointed on 23.04.22 and time frame is 4 month to submit long term and short term solution of Asola Drain. The consultancy/work is in progress. A interim report is also submitted by the consultant on 16th June 2022 and under examination.

Waste water from these drains is being trapped in ISP by the DJB for treatment.

1. Shahdara Outfall Drain (out falling into river Yamuna)

2. Trunk Drain No. I
3. Trunk Drain No. II
4. Ghazipur Drain
5. Shahdara Link Drain
6. Karawal Nagar Drain
7. Escape Drain No.I
8. Escape Drain No.II
9. Bund Drain
10. Biharipur Drain

11. Najafgarh Drain (out falling into river Yamuna)

12. Supplementary drain
13. Mungeshpur drain
14. B.C. Drain
15. Drain No. 6
16. New Drain
17. Bawana Escape Drain
18. Bankner Link Drain
19. KheraKhurd Drain
20. Ghoga Link Drain
21. Naya Bans Link Drain
22. Sannothe Link Drain
23. Alipur Link Drain
24. TikriKhurd Link Drain
25. Khera Kalan Link Drain
26. Bawana Drain
27. Nangloi Drain
28. Jatkhori Link Drain
29. Katewara Link Drain
30. KirariSuleman Nagar Drain
31. Madanpur drain
32. Ladpur drain
33. Rasoolpur link drain
34. NangalThakran Link Drain
35. Bazitpur Drain
36. Sultanpur Drain
37. Mundka Peripheral drain
38. Palam Drain
39. Palam Link Drain
40. Nasirpur Drain
41. Bijwasan Drain
42. Pankha Road Drain
43. Shahbad Mohammadpur Drain
44. Najafgarh Pond Drain



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

WATER QUALITY STATUS OF RIVER YAMUNA

23/06/2022

REPORT NO: DPCC/W/Y/22-23/4840

DATE OF SAMPLING: 01.06.2022

S. No.	Locations	Latitude Longitude	pH	COD (mg/l)	BOD (mg/l)	DO (mg/l)	Fecal Coliform MPN/100ml
Water Quality Criteria (‘C’ Class)			6.5-8.5	-	3mg/l or less	5mg/l or more	500(desirable) 2500(max permissible)
1	Palla	28.8138023, 77.2100181	7.33	32	2.8	8.6	13×10 ²
2	Wazirabad	28.7131310, 77.2319304	7.38	69	8.8	5.1	20×10 ³
3	ISBT Bridge	28.6713533, 77.2338207	6.95	176	60	NIL	25×10 ⁴
4	ITO Bridge	28.6284288, 77.2534977	7.24	154	54	0.6	26×10 ⁴
5	Nizamudin Bridge	28.5915608, 77.2715342	7.30	184	63	NIL	46×10 ³
6	Okhla Barrage	77°18’49” 28°32’40”	7.28	208	73	NIL	70×10 ⁴
7	Agra Canal at Okhla Barrage	28.545414, 77.311075	7.20	192	66	NIL	41×10 ⁴
8	River Yamuna at Asgarpur (After confluence of Shahdara & Tuglakabad drains)	28.4657003, 77.33905231	7.19	266	83	NIL	8.3×10 ⁵

Mita

I/C Water Lab

Dr. SANDITA MITA
Scientist



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

WATER QUALITY STATUS OF DRAIN

REPORT NO: DPCC/W/D/22-23/4841
Date of Sampling: -01.06.2022

Dated: 24/06/2022

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	7.46	172	346	70
2.	Metcalf House Drain	7.25	48	88	29
3.	Khyber Pass Drain	NO FLOW	NO FLOW	NO FLOW	NO FLOW
4.	Sweeper Colony Drain	7.42	164	266	60
5.	Magazine Road Drain	NO FLOW	NO FLOW	NO FLOW	NO FLOW
6.	ISBT Drain	7.34	156	288	68
7.	Tonga Stand Drain	7.39	58	101	33
8.	Civil Mill Drain	7.44	120	240	54
9.	Sen Nursing Home Drain	7.22	152	304	73
10.	Drain No. 14	7.56	42	80	22
11.	Power House Drain	7.48	140	293	63
12.	Indrapuri Drain	7.36	144	320	72
13.	Sonia Vihar Drain	6.90	216	426	96
14.	Kailash Nagar Drain	7.40	176	320	76
15.	Shastri Park Drain	7.28	112	224	65
16.	Barapulla Drain	7.55	124	300	67
17.	Maharani Bagh Drain	7.77	108	256	53
18.	Old Agra Canal Drain	7.53	116	272	60
19.	Jaitpur Drain	7.37	92	224	48
20.	Sarita Vihar Pool	7.68	100	240	54
21.	Tuglakabad Drain	7.44	76	160	45
22.	Drain Near LPG Bottling Plant	4.67	72	213	34
23.	Drain Near Sarita Vihar Bridge (Mathura Road)	NO FLOW	NO FLOW	NO FLOW	NO FLOW
24.	Shahdara Drain	7.21	128	368	75
25.	Sahibabad Drain	7.57	132	336	80
26.	Molarband Drain	7.39	96	248	52
27.	Abul Fazal Drain	6.89	108	280	68
28.	Supplementary Drain	7.30	104	253	64

N. Mehta

I/C Water Lab

DR. NANDITA MOITRA
Scientist 'C'

Status of 'Restoration and Rejuvenation of River Yamuna floodplains' as of 30th June, 2022**Removal of Encroachment**

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

Annexure - 10

Status of 'Restoration and Rejuvenation of River Yamuna floodplains' as of 30th June, 2022

DETAILS OF CHALLANS FROM THE YEAR 2018-22

Sl. No.	Year	Offence	No. of challans	Compensation amount	Recovery amount
1.	2018	Dumping of malba	1	Rs.50,000/-	Nil
2.	2019	Dumping of malba, unauthorized parking and garbage dumping in Yamuna River flood plain.	186	Rs. 90,40,000/-	Rs.22,92,500/-
3.	2020	Dumping of malba and unauthorized parking in Yamuna River flood plain.	54	Rs.21,30,000/-	Rs.4,45,000/-
4.	2021	Dumping of malba and illegal parking in Yamuna River Flood Plain	776	Rs.1,22,95,000/-	Rs.12,15,000/-
5.	2022	Dumping of malba and illegal parking in Yamuna River Flood Plain	594	Rs.1,02,15,000/-	Rs.1,45,000/-
		TOTAL =	1611	Rs. 3,37,30,000/-	Rs.40,97,500/-

Status of 'Restoration and Rejuvenation of River Yamuna floodplains' as of 30th June, 2022

	Project	Area/ Encroached area/Jhuggis	Water bodies Total / Completed	Sanction Amount / Expenditure	Timelines (Phase-I)	Status
1.	Asita East- (Old Railway Bridge to ITO Barrage -Eastern Bank) PART A: Under the jurisdiction of DDA . PART B: Under the jurisdiction of UP Irrigation Deptt. (Deposit work)	Total Area- 197 Ha PART A: 90 Ha PART B: 107 Ha. / 30 Ha./928 Nos.	PART A: 1/1 PART B: 3/1	PART A: 20.93 Cr. / 9.99 Cr. PART B: 35 Cr (Deposit)	PART A: Completed PART B : 30.09.2022	PART A (Phase-I): Completed. Phase-II : i) Signages work awarded ii) Bio-toilet work in progress. PART B: Present progress is 35%. Work completed are as under: 1. Excavation of 3 water bodies out of 3 2. 3 ramps out of 3 3. Embankment of 1 parking out of 1 4. Hearing for vacation of stay in WP (C)6779/2021 is completed. Final verdict awaited. Work and Encroachment removal are delayed due to lock down, Corona, ban & Court case.
2.	Kalindi Aviral- (NH24 to DND Flyway- Western Bank)	100 Ha	4/3	34.98 Cr. / 11.80 Cr.	Completed	Phase-I Completed Ph-2- 30.09.2022
3.	Kalindi Biodiversity Park- (DND to proposed Kalindi By-Pass- Western Bank) Entrusted to CEMDE	115 Ha	11/8	22.49 Cr. / 8.56 Cr	Wetland completed in available space.	Project is being executed by CEDME. (Prof. C R Babu) Wetlands are completed in available space. Further work is held up due to NHAI work.
4.	Asita West- (Old Railway Bridge to ITO Barrage- Western Bank)	200 Ha / 7 Ha/695 Nos. (93 Ha already completed)	6/3	52.96 Cr. / 11.85 Cr.	30/09/2022 (for the balance 107 Ha area)	Present progress is 77%. Work completed are as under (for 107 Ha) : 1. Excavation of 4 water bodies out of 4 2. Excavation of 1 oxidation pond out of 1 3. 1900m moorum path out of 2500 m 4. 3 ramps out of 3 5. 800m cycling track out of 1200m. 6. Earthwork of cycle hiking zone completed Work and Encroachment removal are delayed

Status of 'Restoration and Rejuvenation of River Yamuna floodplains' as of 30th June, 2022

						due to lock down, Corona, ban & Court case. Next date of hearing 13/10/2022 Tender for ph-2: i) Signages work in progress. ii) Bio-toilet work in progress.
5.	Amrut Bio Diversity Park- ITO to NH-24 (Eastern & Western Bank)- Area South of CWG Village Area	116.25 Ha / 4.5 Ha / 217 Nos. (90 Ha on Eastern Bank & 18 Ha on Western Bank to be done by DDA, 8.25 Ha to be done by CPWD)		96.98 + 387.92 Cr./4 Cr.	31.10.2022 (for 90 Ha)	For 90 Ha of land: Present progress is 40%. Work completed are as under (For 90 Ha): 1. Excavation of 5 water bodies out of 6. 2. 800 m pedestrian path of 12000m. 3. 1 entrance plaza out of 2. Work are delayed due to lock down, Corona, ban & NGT directions.
6.	Wazirabad to Old Railway Bridge- Western Bank Entrusted to INTACH	Total Site Area- 66 Ha (Qudsia Ghat- 16 Ha, Sur Ghat-13.6 Ha, Eco-trail- 33 Ha, Yamuna Bazaar Area- 3.4 Ha)	1	87.98 Cr.	31.10.2022 (for Qudsia Ghat) only for 16 Hact. Land.	The work has been assigned to M/s INTACH on nomination basis for Qudsia Ghat. Tender called.
7.	Yamuna Vanasthali- (Wazirabad Barrage to ISBT Bridge- Eastern Bank, around GarhiManduVillage & Usmanpur Village)	236.5 Ha / 21 Ha/173 Nos.	10	54.28 Cr./2.42 Cr.	31.08.2022	Present progress is 77%. Work completed are as under (for 236.5 Ha): 4. Excavation of 6 water bodies out of 9. 1. 70% pedestrian path completed Work and Encroachments / Jhuggis removal are delayed due to lock down, Corona & ban. Approx 150 Nos Chhapars/labour huts demolished
8.	Mayur Nature Park- (NH-24 to DND Flyway- Eastern Bank) PART A: Under the jurisdiction of DDA. PART B: Under the	Total Area- 397.75 Ha PART A: 235 Ha		PART A: 82.20 Cr.	-----	Issues: i. LM Department informed that approximately 100 Ha of land has been de-notified out of the total 235 Ha. ii. The land demarcation is completed now by Revenue Department & which is being delayed.

Status of 'Restoration and Rejuvenation of River Yamuna floodplains' as of 30th June, 2022

	jurisdiction of UP Irrigation Deptt.	PART B: 162.75 Ha		PART B: 53.24 Cr.		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)		86.73 Cr.	Land department has been requested to take back the land.	Area falls outside 1 in 25 year floodplain. The land is yet to be retrieved. Only 9.6 Ha of the land is currently available for development.
10.	Hindan Sarovar- (NH-24 to DND Flyway- Eastern Bank) Part Area-II- HindonCut Wetlands I&II PART A: Under the jurisdiction of DDA. PART B: Under the jurisdiction of UP Irrigation Deptt. (Deposit work)	Total Site Area- 45 Ha PART A: 15 Ha PART B: 30 Ha		PART A: 1.48 Cr. PART A: 10 Cr.	PART A: - PART B:-	The project comprises of creation of wetlands for treating water from the Hindon Canal the mouth of which falls under the jurisdiction of UP Irrigation Department. Work is entrusted to CEMDE The land demarcation is now completed by Revenue Department. Accordingly, the landscape plan also needs to be reworked.
	Total	DDA- 1203.75 Ha / 94.84 Ha/2195 Nos. <u>UP Irrig.-299.75Ha</u> <u>1503.5 Ha</u>	36/16	DDA- 928.93 Cr. (541.01 +387.92) / 47.57 Cr. UP- 98.24 Cr.		(a) Completed DDA = 283 Ha (0.5+ 1+0.5= 2 Nos.) (b) In progress DDA= 640.75 Ha (1+0.5+1+1+1= 4.5 Nos.) <u>UP Irrig. = 107 Ha. (0.5 Nos)</u> <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 29070302

Date 27/6/2022

Subject:- Minutes of 26th meeting of Yamuna Cleaning Cell (YCC) held under the chairmanship of CEO-DJB at conference hall DJB on 15.06.2022.

The Govt. of NCT of Delhi has constituted Yamuna Cleaning Cell to achieve the target to clean Yamuna. 26th 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 Secretary, DPCC | |
| 3. Member Drainage, DJB | |
| 4. Pr. CE (DR)- PR-I, DJB | |
| 5. CE SDW, DJB | |
| 6. Sh. Shaliendra Dania, CE, DUSIB | |
| 7. Sh. Satish Kataria. SE,MCD | |
| 8. Sh. S.L Bairwa SE, MCD | |
| 9. Prof. Sirajuddin, Jamia University | |
| 10. Ms. Nandita Moitra Sr. Scientist, DPCC | |
| 11. Sh. Deepak Kr. Shrivastwa, ACE[C]-1, DJB | |
| 12. Sh. Abhishek Routray, SE, DSIIDC | |
| 13. Sh. Sudheer Arya, EE, I&FC | |

1. A complete presentation was made by Pr. CE (DR)- PR-I.
2. The issues pertaining to I&FC were discussed and following timelines were fixed after detailed deliberations:

A. Construction of temporary weirs on Supplementary drain between Rithala RD 16436 m to Wazirabad RD 0 m.

S.No	Activity	Agency	Completion of work	Remarks
1	Construction of temporary weirs at RD 1100 m to RD	I &FC		Techno feasibility analysis for two new options

	10900 m including construction channels at RD 1100 m, RD 8150 m, RD 10900 m, RD 13400 m and RD 1300 m in Supplementary drain.			namely concrete blocks' & geo tubes is being explored by I&FC and shall be finalized by 15.07.2022
2	Floating Wetlands	I &FC	March, 2022	Design finalized and tenders shall be called by 15.07.2022
3	Aerators	DJB	March, 2022	LOI has been issued.

B. Najafgarh Drain from Dhansa Regulator (RD 0 m) to Chawwla Bridge (RD 17905 m) (Treatment Part).

S.No	Activity	Agency	Completion of work	Remarks
1	Dredging of 4 km stretch from 13000 RD to 17000 RD	I &FC		Work is in progress. D.O.C - July 2022.
2	Floating Wetland	I &FC	June-22	Design finalized and tenders shall be called by 15.07.2022
3	Aerators	DJB	June-22	LOI has been issued.

C. Najafgarh Drain from Chawwla Bridge (RD 17905 m) to Basaidarapur Bridge (RD 45316 m) (Treatment Part).

S.No	Activity	Agency	Completion of work	Remarks
1	9 Temporary weirs in the stretch.	I &FC	14.03.22	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
2	Floating Wetland	I &FC	Mar-22	Design finalized and tenders shall be called by 15.07.2022
3	Aerators	DJB	Mar-22	LOI has been issued.

D. Najafgarh Drain from Basaidarapur Bridge (RD 45316 m) to its outfall in river Yamuna.

S.No	Activity	Agency	Completion of work	Remarks
1	4 Temporary weirs	I &FC		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
2	Floating Wetland	I &FC	Mar-22	Design finalized and tenders shall be called by 15.07.2022
3	Aerators	DJB	Mar-22	LOI has been issued.

E. Remaining portion of Supplementary Drain:

S.No	Activity	Agency	Completion of work	Remarks
1	Temporary weirs (1+5)	I &FC		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.

2	Floating Wetland	I &FC	March, 2022	Design finalized and tenders shall be called by 15.07.2022
3	Aerators	DJB	March, 2022	LOI has been issued.

- i. I&FC will provide CE (SDW)-DJB correct flow details in Najafgarh drain as it would help in deciding the correct quantum of electric load. I&FC have applied for power connections before discoms. Connections to be finalized within a week time after I&FC provides correct location to DJB.
- ii. I&FC has done an in situ drain treatment at Ghogha drain, I&FC to share WQ results of the same by 20.06.2022.

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= 12,940 (2872 as per notified/redevelopment list+ 10068 as per non-conforming list)
- ii. WPIs= 1382 (935 as per notified/redevelopment list+ 447 as per non-conforming list)
- iii. Sealed= 101 (45 as per notified/redevelopment list+ 56 as per non-conforming list)
- iv. Electricity disconnected = 113 : Water Supply Disconnected= 11

B. Regarding survey in Redevelopment areas, it was apprised by Prof Sirajuddin that till date J.M.I has conducted survey in 4001 industries 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	OLMS shall be installed by 24.06.2022
2	Inderpuri inlet	Work to be awarded by 24.06.2022
3	Sahibabad inlet	

4	Hindon Cut inlet	
5	Drain No-6 inlet	OLMS shall be installed by 24.06.2022

- D. Rooms to be constructed at the site near OLMS for safety/security of installations. I&FC to provide land for the same.
- E. CE (SDW) was directed to measure seasonal flows of drains coming from other state Haryana & UP as well so that BOD load could be worked out.
- F. It was directed to maintenance teams for 50 surveys/week to be strictly ensured.
- G. As per WQ (Water Quality) reports shared by DTQC for Najafgarh & Supplementary drains, it has been observed that there are sharp increase in BOD & COD in the drain. This conspicuously indicates sub drains are being discharged into the said drains having industrial waste.
- H. It was decided that DTQC shall capture the WQ test results of Najafgarh at the downstream of Badshahpur drain confluence with Najafgarh drain.
- I. DTQC was directed to collect weekly samples of Najafgarh & Supplementary drain @ 1km interval.
4. CEO was apprised by Member(Dr.) that the trapping works of JJ clusters sewage and the remaining drains shall be trapped by Jun-2022.
5. Member (Dr) was requested by CEO to arrange a separate meeting on DJB projects related.

All Members of YCC


Addl. Chief Engineer (C)-1