



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

F. No. DPCC/WMC-II/MPR/OA 673/2020/1098-1101

Dated: 09-01-2023

To,

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

**Subject – Monthly Progress Report of Govt. of NCT of Delhi for the Month of December, 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 December, 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”.

1<sup>st</sup> 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 November, 2022 was submitted vide letter dated 29.12.2022.

Yours Sincerely,

**Enclosures : As Above**

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

**Copy to:**

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

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

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

**For the State of NCT of Delhi**

**Monthly Progress Report of Govt. of NCT of Delhi for the Month of December, 2022**

**Overall Status of the State:**

**I. Total Population: Urban Population & Rural Population separately**

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

**II. Estimated Sewage Generation (MLD) : 3491 MLD (768 MGD) (80 % of 960 MGD Water Supply)**

**III. Details of Sewage Treatment Plant:**

- Existing No. of Operational STPs of DJB : 35 STPs (at 20 Locations)
- Installed Treatment Capacity of 35 Operational STPs : 2874 MLD (632 MGD)  
(82.3% of estimated sewage generation)
- Capacity Utilization of existing STPs : 2591 MLD (570 MGD)  
(90.2% of installed capacity)
- MLD of sewage being treated through Alternate technology : Nil

|                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| ● Gap in Treatment Capacity                                                                                                                                                                                                                                                                                                                                                                                                                | : 618 MLD (136 MGD) [768 – 632 MGD] (17.7 %)                                                                |
| ● Gap in Treatment                                                                                                                                                                                                                                                                                                                                                                                                                         | : 900 MLD (198 MGD) [768 – 570 MGD] (25.8 %)                                                                |
| ● No. of Operational STPs                                                                                                                                                                                                                                                                                                                                                                                                                  | : 35 (Refer Annexure-1)                                                                                     |
| ● No. of Complying STPs                                                                                                                                                                                                                                                                                                                                                                                                                    | : 9 w.r.t. Standards prescribed by DPCC<br>27 [w.r.t. Design Parameter]                                     |
| ● No. of Non-complying STPs                                                                                                                                                                                                                                                                                                                                                                                                                | : 26<br>(Letter is being issued to DJB for taking rectification measures to meet the prescribed standards). |
| <b>Following 9 STPs (Total 160 MGD Capacity) are designed for BOD : TSS 10 :10 mg/l</b><br><b>1.</b> Pappankalan Phase II (20 MGD) <b>2.</b> Nilothe Phase II (20 MGD) <b>3.</b> Delhi Gate Phase II (15 MGD) <b>4.</b> Kapashera (5 MGD) <b>5.</b> Chilla (9MGD) <b>6.</b> Common Wealth Games Village (1 MGD) <b>7.</b> Coronation Pillar New STP (70 MGD) <b>8.</b> Kondli STP Phase-I (10 MGD) <b>9.</b> Kondli STP Phase-III (10 MGD) |                                                                                                             |
| <b>Standards prescribed by DPCC for STPs of DJB in Delhi as per the directions of CPCB (More Stringent than prescribed by MoEF&amp;CC) :</b><br><i>(i) pH - 6.5 - 9.0 (ii) TSS ≤ 10 mg/l (iii) BOD ≤ 10 mg/l (iv) COD ≤ 50 mg/l (v) Ammonical Nitrogen ≤ 5mg/l (vi) Total Nitrogen (N-Total) ≤ 10 mg/l (vii) Phosphate (PO<sub>4</sub> - P) ≤ 2 mg/l (viii) Fecal Coliform(FC) (MPN/100ml) &lt; 230</i>                                    |                                                                                                             |

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

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

- Rehabilitation of existing STPs at Kondli Ph-II & Rithala Ph-I.
- Upgradation and increasing capacity of remaining existing STPs
- Construction of New STPs at Okhla, Delhi Gate and Sonia Vihar
- Construction of 26 DSTPs at various locations of Delhi and 14 DSTPs in Najafgarh Drainage Zone

**Rehabilitations of existing STPs and construction of New STPs/DSTPs**

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

| S.No                           | Name of STP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Capacity Addition (in MGD) | Timelines                                                                                                                                                                                 |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sewage Treatment Plants</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |                                                                                                                                                                                           |
| 1                              | <b>Coronation Pillar (New STP) of 70 MGD Capacity (Completed and Commissioned)</b><br>[Physical Progress upto Sept, 2021 – 92.30 %<br>upto 15 <sup>th</sup> March, 2022 – 100 %<br><br>The Coronation Pillar STP is State of Art STP with latest parameters of BOD/TSS : 10/10 mg/l including removal of Nitrogen and Phosphorus along with power generation through Bio Gas. Salient features of the STP.                                                                                                                                                                                                                                             | -                          | <b>Completed and commissioned on 15.03.2022.</b><br>Additional capacity of 40 MGD created by commissioning of this STP has already included in total capacity of existing STPs (632 MGD). |
| 2                              | <b>Okhla (New STP) of 124 MGD Capacity (Under Construction)</b><br>[Physical Progress upto Sept, 2021– 40.75 %<br><b>upto Dec, 2022 – 76.70%</b><br><b>(2.1 % in December, 2022)</b><br>[Work delayed due to Lockdown / Covid-19, EPCA ban on construction activities due to air pollution and tree cutting permission etc.]<br>The new Okhla STP will be Asia's largest STP with State of Art Technology with latest parameters of BOD/TSS: 10/10 mg/l including removal of Nitrogen and Phosphorus along with power generation through Bio gas. The plant will use solar energy based sludge drying process to produce class A pathogen free sludge. | 30                         | <b>June, 2023</b><br>(Earlier Timeline was December, 2022)                                                                                                                                |
| 3                              | <b>Sonia Vihar (New STP) of 7 MGD Capacity (Under Construction)</b><br>[Physical Progress upto Sept, 2021 – Nil<br><b>upto Dec, 2022 – 38 %</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 07                         | <b>September, 2022</b><br>(Earlier Timeline was April, 2022)                                                                                                                              |
| 4                              | <b>Delhi Gate (New STP) of 10 MGD Capacity (Land to be allotted by DDA/ MOHUA)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10*                        | <b>June, 2024</b><br>(Earlier Timeline was December, 2023)                                                                                                                                |

|                                                                |                                                                                                                                                                                                                                                                                                                                                                   |                                                |                                                             |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------|
| 5                                                              | <b>Kondli Phase- II of 25 MGD Capacity<br/>(Under Construction for Rehabilitation &amp; Upgradation)</b><br>(Liquid stream of Ph-I & III has been started on 09.03.2022 & 07.04.2022 respectively)<br>[Physical Progress upto Sept, 2021 – 65.82 %<br>upto Dec, 2022 – 85.42%<br><b>(0.19 % in December, 2022)</b> ]                                              | <b>25</b>                                      | <b>June, 2023</b><br>(Earlier Timeline was December, 2022)  |
| 6                                                              | <b>Rithala Phase – I of 40 MGD Capacity<br/>(Under Construction for Rehabilitation &amp; Upgradation)</b><br>[Physical Progress upto Sept, 2021 – 50.70 %<br>upto Dec, 2022 – 77.5 %<br><b>(4.39 % in December, 2022)</b><br>[Work delayed due to Lockdown / Covid-19, EPCA ban on construction activities due to air pollution and tree cutting permission etc.] | <b>40</b>                                      | <b>June, 2023</b><br>(Earlier Timeline was December, 2022)  |
|                                                                | <b>Total Addition in Capacity of STPs</b>                                                                                                                                                                                                                                                                                                                         | <b>112</b>                                     |                                                             |
| <b>Status of Decentralised Sewage Treatment Plants (DSTPs)</b> |                                                                                                                                                                                                                                                                                                                                                                   |                                                |                                                             |
| 1                                                              | <b>26 DSTPs proposed to be constructed at various locations in Delhi of total Capacity of 60 MGD</b>                                                                                                                                                                                                                                                              |                                                |                                                             |
| A                                                              | 16 DSTPs (land already allotted).                                                                                                                                                                                                                                                                                                                                 | 32.5                                           | <b>June, 2024</b><br>(Earlier Timeline was December, 2023)  |
| B                                                              | 10 DSTPs where land is yet to be allotted.                                                                                                                                                                                                                                                                                                                        | 27.5**                                         | 15 months after allocation of land                          |
| 2                                                              | <b>14 DSTPs proposed to be constructed in Najafgarh Drainage Zone of total Capacity of 32 MGD</b>                                                                                                                                                                                                                                                                 |                                                |                                                             |
| A                                                              | 12 DSTPs where land is already allotted.                                                                                                                                                                                                                                                                                                                          | 21                                             | <b>March, 2024</b><br>(Earlier Timeline was December, 2023) |
| B                                                              | 02 DSTPs where land is yet to be allotted.                                                                                                                                                                                                                                                                                                                        | 11**                                           | 15 months after allocation of land                          |
| 1                                                              | <b>Upgradation/Augmentation of Remaining Existing STPs of total Capacity of 98.5 MGD</b>                                                                                                                                                                                                                                                                          | <b>98.5</b>                                    | <b>June, 2024</b><br>(Earlier Timeline was December, 2023)  |
|                                                                | <b>Total Addition by December, 2023</b>                                                                                                                                                                                                                                                                                                                           | <b>80</b>                                      |                                                             |
|                                                                | <b>Total Addition by June, 2024</b>                                                                                                                                                                                                                                                                                                                               | <b>18.5</b>                                    |                                                             |
|                                                                | <b>Grand Total Capacity by June, 2024</b>                                                                                                                                                                                                                                                                                                                         | <b>632 + 112<br/>+ 92+98.5 =<br/>934.5MGD#</b> |                                                             |

**Total Capacity of STPs by June, 2023 – 727 MGD [ 632 MGD + 95 MGD ]**

**Total Capacity of STPs by December, 2023 - 814 MGD [ 632 MGD + 95+ 7+ 80 MGD ]**

**Total Capacity of STPs by June, 2024 – 934.5 MGD [ 632 MGD + 112+ 92+98.5] MGD ]**

**# Will be sufficient to treat the sewage of 924.8 MGD (80% of 1156 MGD Water Supply) in future.**

\* Timelines are subject to availability of land from DDA/ MOHUA.

\*\*Timelines are subject to availability of land from Land Owning Agencies (DDA/Revenue Deptt.)

All the STPs (existing as well as new) with total capacity of 934.5 MGD are targeted to achieve standards prescribed by DPCC i.e BOD / TSS: 10/10 mg/l by June, 2024.

### **Details of Each Existing STP of Delhi Jal Board in Delhi**

| S. No. | Location                                                                                                                                             | Existing STP Capacity | Capacity Being Utilized | Operational Status of STP | Compliance Status of STP |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|---------------------------|--------------------------|
|        | Details of Each Existing STP of Delhi Jal Board in Delhi and Compliance status for the month of <b>December, 2022</b> is at <b><u>Annexure-1</u></b> |                       |                         |                           |                          |

### **Details of Under Construction STPs of Delhi Jal Board in Delhi**

| S. No.                                                                                        | Location (Name of STP)       | Capacity of the plant in MLD   | Physical Progress in % (upto October, 2022)     | Status of I&D or House sewer connections | Completion Timeline                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rehabilitation / Up-gradation of Existing STPs for achieving BOD / TSS : 10 / 10 mg/l.</b> |                              |                                |                                                 |                                          |                                                                                                                                                                                                                                                                                               |
| 1.                                                                                            | Yamuna Vihar STP Phase II    | 45.46 MLD (10 MGD)             | -                                               | -                                        | <b>December, 2023</b><br>Work awarded on 28.03.2022. This work is under AMRUT Scheme.<br>STP is operational as per existing designed parameters. Capacity enhancement from 10 MGD to 15 MGD.                                                                                                  |
| 2.                                                                                            | Kondli STP Phase I, II & III | 204.57 MLD [45 MGD (10+25+10)] | <b>85.42%</b><br>(0.19 % increase in Dec, 2022) | -                                        | <b>June, 2023</b><br>(Earlier Timeline Dec, 2022)<br>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.<br><b>Phase – II</b> : work in SST and Bio-reactor has been started. |
| 3.                                                                                            | Rithala STP Phase I          | 181.84 MLD (40 MGD)            | <b>77.5 %</b><br>(4.39 % increase in Dec, 2022) | -                                        | <b>June, 2023</b><br>(Earlier Timeline Dec, 2022)                                                                                                                                                                                                                                             |
| <b>Construction of New STPs</b>                                                               |                              |                                |                                                 |                                          |                                                                                                                                                                                                                                                                                               |
| 4.                                                                                            | Coronation Pillar            | 318 MLD (70 MGD)               | <b>100</b>                                      | -                                        | <b>Completed and commissioned on 15.03.2022</b>                                                                                                                                                                                                                                               |
| 5.                                                                                            | Okhla                        | 564 MLD (124 MGD)              | <b>76.7 %</b><br>(2.1 % increase in Dec, 2022)  | -                                        | <b>June, 2023</b><br>(Earlier Timeline Dec, 2022)                                                                                                                                                                                                                                             |

## Upgradation/Augmentation of Existing STPs

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

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

| Name of Contract Packages | Name of STP                     | Existing Capacity (In MGD)   | Enhanced Capacity (In MGD) | Status                                                                                                                                                                                          | Timelines                                           |
|---------------------------|---------------------------------|------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Package-1                 | Pappan Kalan Phase-I            | 20                           | 30                         | Letter of Award issued on 18.07.2022                                                                                                                                                            | December, 2023<br>(Earlier Timeline August, 2023)   |
|                           | Nilothi Phase –I                | 40                           | 60                         |                                                                                                                                                                                                 |                                                     |
| Package-2                 | Najafgarh                       | 5                            | 5                          | Letter of Award issued on 27.10.2022                                                                                                                                                            | December, 2023                                      |
|                           | Keshopur Phase -II              | 20                           | 20                         |                                                                                                                                                                                                 |                                                     |
|                           | Keshopur Phase -III             | 40                           | 60                         |                                                                                                                                                                                                 |                                                     |
| Package-3                 | Rohini Sector 25                | 15                           | 25                         | Letter of Award issued on 14.07.2022                                                                                                                                                            | December, 2023<br>(Earlier Timeline August, 2023)   |
|                           | Narela                          | 10                           | 15                         |                                                                                                                                                                                                 |                                                     |
|                           | Coronation Pillar Phase –I & II | 20                           | 20                         |                                                                                                                                                                                                 |                                                     |
|                           | Coronation Pillar Phase -III    | 0<br>(Plant Non-operational) | 10                         |                                                                                                                                                                                                 |                                                     |
| Yamuna Vihar              | Yamuna Vihar Phase -II          | 10                           | 15                         | Work awarded on 28.03.2022. This work is under AMRUT Scheme                                                                                                                                     | December, 2023                                      |
| Package -4                | Yamuna Vihar Phase -I           | 10                           | 15                         | Tenders re-invited, were due for opening on 07.11.2022. On due date no tender received. A Committee formed to review the tender conditions. Tenders to be re-invited again.                     | June, 2024<br>(Earlier Timeline December, 2023)     |
|                           | Yamuna Vihar Phase -III         | 25                           | 25                         |                                                                                                                                                                                                 |                                                     |
| Package-5                 | Okhla Phase -V                  | 16                           | 16                         | Tenders invited on 07.09.2022 On the due date of opening i.e. 07.11.2022, only one tender received. Technical Evaluation is complete. Financial bid opened and tenders are in process of award. | March, 2024<br>(Earlier Timeline December, 2023)    |
|                           | Mehrauli                        | 5                            | 7.5                        |                                                                                                                                                                                                 |                                                     |
|                           | Ghitorni                        | 5                            | 7.5                        |                                                                                                                                                                                                 |                                                     |
|                           | Vasant Kunj                     | 5                            | 7.5                        |                                                                                                                                                                                                 |                                                     |
| Kondli                    | Kondli Phase –IV                | 45                           | 45                         | Work order issued, The firm has taken over the plant for rehabilitation and O&M on 06.09.2022.                                                                                                  | December, 2023<br>(Earlier Timeline November, 2023) |
| Keshopur                  | Keshopur Phase - I              | 12                           | 18                         | Tenders were invited and due for opening on 12.12.2022. No tender received and therefore re-invited & due on 10.01.2023.                                                                        | June, 2024                                          |
| Rithala                   | Rithala Phase -II               | 40                           | 40                         | Work Order issued on 26.05.2022. Methodology                                                                                                                                                    | March, 2023                                         |

|  |              |            |              |                                                                                |  |
|--|--------------|------------|--------------|--------------------------------------------------------------------------------|--|
|  |              |            |              | submitted by the firm and same was approved. The work is going on at the site. |  |
|  | <b>Total</b> | <b>343</b> | <b>441.5</b> | <b>Addition of 80 MGD by December,2023 and 18.5 MGD by June, 2024</b>          |  |

### **Details of Proposed STPs of Delhi Jal Board in Delhi**

| S. No. | Location                                                         | Capacity of the STPs proposed (in MGD ) | Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Likely Date of Completion                                                     |
|--------|------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 1.     | 26 Decentralized STPs at various locations in Delhi (Earlier 42) | 60                                      | <ul style="list-style-type: none"> <li>Requirement of land reassessed</li> <li>No. of DSTPs reduced from 42 to 26</li> <li>Land allotted at 16 locations</li> <li>For balance DSTPs matter is being pursued with land owing agencies.</li> <li>Consultant appointed for design &amp; estimation of DSTPs /STPs where land allotted.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                        | June, 2024<br>(subject to allotment of balance land parcels for DSTPs / SPS.) |
| 2.     | 14 (9+5) STPs in Najafgarh Drainage Zone                         | 32                                      | <ul style="list-style-type: none"> <li>Whole scheme reframed to accommodate maximum nos. of unauthorised colonies in the 12 parcels of land already in possession of DJB.</li> <li>The tenders for internal sewers for have been received.</li> <li>The work of laying of Sewer lines in GOCs of Jafarpur, Galibpur Sarangpur, Kazipur, Shikarpur, Khara Dabar has been awarded and the work are in progress.</li> <li>Tender for Hasanpur GOC has been received and are under process.</li> <li>Tenders for construction of DSTPs at 12 locations, where land is available, have been invited.</li> <li>For Tajpur &amp; Tikrikalan GOC, land is not available and is in litigation. The tender for the same will be invited on availability of the land.</li> </ul> | March, 2024                                                                   |

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

| Total flow to be trapped    | Provision of trapping made during the month of Dec, 2022 | Cumulative Status as in Dec, 2022<br>Provision of trapping made | Time line for completion of work | Remarks                                                                                                                                                                                                            |
|-----------------------------|----------------------------------------------------------|-----------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1100.86 MLD<br>(242.16 MGD) | -                                                        | 1082 MLD<br>(238 MGD)                                           | Completed                        | About 1045 MLD (230 MGD) is being trapped and treated out of 1082 MLD (238 MGD). Entire flow shall be trapped & treated by June, 2023 after construction / rehabilitation of Rithala and Kondli STP under YAP-III. |

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

| S.No. | Description                                                                 | Status in Sept, 2021 | Status in Dec, 2022 | Progress made since Sept, 2021                                                                                                                                                                            | Remarks                                                                                                                                                                          |
|-------|-----------------------------------------------------------------------------|----------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Sewer line laid and notified                                                | 573                  | 725                 | In 143 colonies sewer network was laid thereby extended sewerage services in about 7.5 lakh population. As a result pollution load of about 23 MGD from unsewered areas has been reduced in River Yamuna. |                                                                                                                                                                                  |
| 2     | Work of sewer Network is in Progress                                        | 583                  | 573                 | --                                                                                                                                                                                                        | Timelines<br>261 Nos. - June, 2023<br>160 Nos - Dec, 2023<br>152 Nos.- June, 2024                                                                                                |
| 3     | Colonies where NOC is awaited / O Zone                                      | 134                  | 161                 | --                                                                                                                                                                                                        | 114 - Forest land<br>5 - ASI Land<br>4 - O-Zone<br>13 - No feasibility<br>25 - Not traceable<br><br>The work shall be taken up after NOC from concerned Authorities.             |
| 4     | Colonies where sewerage network is to be laid along with Decentralized STPs | 509                  | 341                 | --                                                                                                                                                                                                        | Timelines<br>09 Nos - Dec,2023<br>128 Nos.– June, 2024<br><br>The balance 204 colonies will be taken up after allotment and possession of land for DSTPs by DDA & Revenue Deptt. |
|       | <b>Total</b>                                                                | <b>1799</b>          | <b>1799</b>         |                                                                                                                                                                                                           |                                                                                                                                                                                  |

### 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 196 licensed vendors (Emptiers) for collection and transportation of sewage from the septic tanks and has identified 86 designated SPS/ STPs for receiving the Septage.

| No of Vehicles<br>Authorised by DJB |                   | No. of Functional SPSs<br>for collection of septage<br>from vendors |                   | Septage collected<br>& Treated<br>(in Crore Litres) |          | Cumulative Septage<br>Collected & treated<br>by DJB<br>(in Crore Litres) |                   |
|-------------------------------------|-------------------|---------------------------------------------------------------------|-------------------|-----------------------------------------------------|----------|--------------------------------------------------------------------------|-------------------|
| Upto Sept,<br>2021                  | Upto<br>Dec, 2022 | Upto Sept,<br>2021                                                  | Upto<br>Dec, 2022 | Sept,<br>2021                                       | Dec,2022 | Upto<br>Sept, 2021                                                       | Upto<br>Dec, 2022 |
| 208                                 | 196               | 86                                                                  | 86                | 4.21                                                | 5.89     | 78.98                                                                    | 127.6             |

The earlier granted licenses expired on 30.11.2022. No of licensed vehicles whose licenses have been renewed / issued as on 31.12.2022 is 196 only since the renewal of license is in process. Cumulative Septage of 127.6 Crore litres has been collected and treated till December, 2022. On an average 19 Lakh litres septage per day was collected and treated at STPs of DJB in December, 2022.

From the above table it is clear that there is improvement in collection and treatment of septage in Delhi. Action Taken Report of District Magistrates w.r.t. “Delhi Water Board Septage Management Regulations, 2018” for collection, transportation and disposal of waste of septic tanks (Septage) is briefed below.

- Total No. of Meetings of Septage Management Committees held - 67
- No. of Vehicles /Tankers found unauthorizedly discharging septage into Drains etc. - 50
- No. of Vehicles /Tankers impounded - 46
- No. of Challans / Notices issued - 22
- Total Amount of Environmental Compensation Imposed & received - Rs 12.67 Lakh

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

### Trapping of Drains :

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

**Mori Gate Drain (9.51 MGD)** - Alternative proposal is framed to carry the sewage to Nehru Vihar SPS for its treatment into Coronation Pillar STP by laying a rising main from proposed SPS at ISBT Kashmere Gate. Tenders re-invited, Work order has been issued on 23.12.2022. The Work is targeted to be completed by December, 2023

- (i) **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.

- (ii) **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. Work has been awarded by DJB on 04.03.2022 and proposed timeline for completion is December, 2023.

Status of 18 Major Drains directly out falling into River Yamuna (as per the Information provided by DJB) is at **Annexure -2**

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

- No. of Industries / Units in 28 Approved Industrial Areas : 25253
- No. of Industries / Units in 17 Approved Industrial Areas (out of 28 Approved Industrial Areas) connected with 13 CETPs : 22311
- No. of Water Polluting Industries/ Units in 28 Approved Indl. Areas : 1334
- No. of Water Polluting Industries/ Units in 17 Approved Indl. Areas (out of 28 Approved Indl. Areas) connected with 13 CETPs : 1091
- Quantity of Effluent generated from the Industries / Units in 28 Approved Indl. Areas (Excluding White Category Industries/Units, Shops & Other Establishments not requiring Consent from DPCC) : 28.75 MLD
- Quantity of Effluent generated from the Industries / Units in 17 Approved Industrial Areas (out of 28 Approved Indl. Areas ) connected with 13 CETPs (Excluding White Category Industries/Units, Shops & Other Establishments not requiring Consent from DPCC) : 24.94 MLD
- Quantity of Hazardous Sludge generated from the Industries in TPD : 8.067(including CETPs)
- Number of Industrial Units / Units connected to 13 CETPs : 33690 (in 17 Approved Industrial Areas) (Including Shops & Other Establishments not requiring Consent from DPCC)
- Number and total capacity of ETPs (details of Existing/ Under Construction / Proposed) : 1334 ETPs
- Compliance Status of the ETPs : -
- Number and Total Capacity of CETPs (Details of Existing/ Under Construction / Proposed) : Existing CETPs-13(List at **Annexure-3**) Capacity – 212.3 MLD (Utilization – 67.28 MLD) (31.7%) 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            | -              | <p>Existing – 13 CETPs List along with Compliance Status of December, 2022 is at <b><u>Annexure-3</u></b></p> <p>Under Construction / Proposed - <b>Nil</b></p> <p>Complying - 10 [Jhilmil, Mayapuri, Mangopuri, Wazirpur, Nangloi, SMA, Okhla, Narela, , Bawana &amp; Naraina,]</p> <p>Not Complying -3 [GTK Road, Badli &amp; Lawrence Road CETPs]</p> <ul style="list-style-type: none"> <li>Above 3 CETPs meeting the prescribed standards except the parameters mentioned in Table given below :</li> </ul> |

|               |                                                |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                                           |       |                                                |               |                        |
|---------------|------------------------------------------------|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------|-------|------------------------------------------------|---------------|------------------------|
|               |                                                |  |  | <table><tr><td>GTK Road</td><td>TSS, BOD, COD, Oil &amp; Grease, and Sulphide</td></tr><tr><td>Badli</td><td>TSS, BOD, Oil &amp; Grease, Phosphate and Sulphide</td></tr><tr><td>Lawrence Road</td><td>TSS, BOD, and Sulphide</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | GTK Road | TSS, BOD, COD, Oil & Grease, and Sulphide | Badli | TSS, BOD, Oil & Grease, Phosphate and Sulphide | Lawrence Road | TSS, BOD, and Sulphide |
| GTK Road      | TSS, BOD, COD, Oil & Grease, and Sulphide      |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                                           |       |                                                |               |                        |
| Badli         | TSS, BOD, Oil & Grease, Phosphate and Sulphide |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                                           |       |                                                |               |                        |
| Lawrence Road | TSS, BOD, and Sulphide                         |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                                           |       |                                                |               |                        |
|               |                                                |  |  | <ul style="list-style-type: none"><li>• 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 &amp; Bawana on 07.07.2021.</li><li>• 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.</li><li>• CETP Societies of Okhla, SMA, Mayapuri, Mangolpuri, GTK Road, Naraina , Jhilmil &amp; Lawrence Road (Total 8 Cases) have filed Writ Petition in the High Court of Delhi against the Directions issued by DPCC on 07.07.2021 regarding imposition of Environmental Compensation.</li><li>• Action has been taken in case of Okhla CETP and Directions have been issued by DPCC on 07.12.2022 for deposition of Environmental Compensation of Rs. 95 Lakh for not meeting the prescribed standards in the period of Feb, 2019 to Feb, 2021 considering the Hon'ble High Court order dated 04.02.2022 after giving Personal Hearing on 15.02.2022.</li><li>• In cases of SMA &amp; Mayapuri CETPs action is being taken considering the orders of Hon'ble High Court.</li><li>• In rest of 5 cases viz. Mangolpuri, GTK Road, Naraina , Jhilmil &amp; Lawrence Road CETPs matter is pending before the Hon'ble High Court.</li><li>• Show Cause Notice for imposition of total Environmental Compensation of Rs. 4.7 Crores has been issued by DPCC to 13 CETP on 29.09.2022 for not meeting the prescribed standards in the period of March, 2021 to August, 2022. Replies w.r.t Show Cause Notices issued are under process for taking further necessary action including imposition of Notice for imposition of total Environmental Compensation.</li><li>• Based on the inspection of GTK Road &amp; Wazirpur CETPs in December, 2022 , Show Cause Notices have been issued to the CETP Societies on 27.12.2022.</li><li>• Letters are being issued to the concerned CETP Societies based on the Effluent Analysis Reports of DPCC Lab for the month of December, 2022 for taking rectification measures to meet the prescribed standards.</li></ul> |          |                                           |       |                                                |               |                        |

### 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.

**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.**

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

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

Out of 13 CETPs, 11 CETPs being operated and maintained by CETPs Societies are to be handed over by the Industries Department to DJB for their management. Notices were issued by the Industries Department, Govt. of NCT of Delhi to all the 11 CETP Societies on 29.09.2022, replies received and for further necessary action regarding handing over the CETPs to DJB matter is under process by the Industries Department. Up-gradation of two CETPs at Narela & Bawana which are with DSIIDC is planned to be completed by December, 2023.

**V. Solid Waste Management:**

- Total Number of Urban Local Bodies (ULBs) : 3 [ MCD, NDMC & DCB]  
and their Population Total Population – About 2.1 Crores
- Current Municipal Solid Waste Generation : 11335 TPD

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

| S. No. | Particulars                                                                                                                                                                                                                                                         | Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.     | Number, Installed Capacity and Utilization of Existing MSW Processing Facilities in TPD (Bifurcated by type of processing e.g. Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, Decentralized, Pit Composting), Biomethanation, MRF etc. | <ul style="list-style-type: none"> <li>• <b>Total Capacity of Existing MSW Processing Facilities (Excluding MRFs) - 7918.175 TPD (69.8%)</b></li> <li>• <b>Total MSW Processing (Excluding MRF) - 6894.175 TPD (69.8%)</b></li> <li>• <b>Disposal through Compost Pits - 559.6 TPD</b></li> <li>• <b>Recycling through MRFs - 269 TPD</b></li> <li>• <b>Gap in MSW Processing - 4440.825 TPD [11335 – 6894.175 = 4440.825] (39.18%)</b></li> <li>• <b>Gap in MSW Processing Capacity - 3416.825 TPD [11335 – 7918.175 = 3416.825] (30.2%)</b></li> <li>• <b>Capacity of 4 Existing WTE Plants - 6550 TPD (Power generation capacity - 84MW)</b></li> <li>• <b>One Operational Centralised Compost Plants - 700 TPD [200 TPD at Okhla Closed due to upgradation into Bio-CNG plant of 300 TPD ]</b></li> <li>• <b>10 Bio-methanation Plants of 5 TPD each - 50 TPD</b></li> <li>• <b>20 Decentralized Composter Plants of 1 TPD each - 20 TPD</b></li> <li>• <b>Others (Compost Pits, OWCs etc.) - 38.575 TPD [24 Organic Waste Converter (OWCs) (10.15 TPD) &amp; 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]</b></li> </ul> |

|    |                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                               |
|----|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 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)                     | <ul style="list-style-type: none"> <li>Existing operational C&amp;D Waste Processing Facilities<br/>Capacity - 3150 TPD</li> <li>Proposed New C&amp;D Waste Processing Facilities<br/>Capacity - 3500 TPD</li> </ul> <p><b>Existing operational C&amp;D Waste Processing Facilities are located at</b></p> <ul style="list-style-type: none"> <li>(i) Rani Khera (1000TPD)</li> <li>(ii) Shastri Park (1000 TPD)</li> <li>(iii) Bakkarwala (1000 TPD)</li> <li>(iv) Rani Khera (Mundka) (150 TPD)</li> </ul> <p>C&amp;D Waste Processing Facility of 2000 TPD at Jahangirpuri (Burari) is under revamp/ under construction and therefore not in operation, expected to be commissioned by April, 2023.</p> <p><b>Proposed C&amp;D Waste Processing Facilities are :</b></p> <ul style="list-style-type: none"> <li>(i) Tehkhand Okhla (1000 TPD)(Alternative site is being explored)</li> <li>(ii) Libaspur (500 TPD)</li> </ul> |                                                               |
| 4. | Total No. of Wards, No. of Wards having Door to Door Collection Service, No. of Wards practicing segregation at source | <p><b>No. of Wards</b> - 272 [MCD-250, DCB-08 &amp; NDMC-14 Circles]</p> <p><b>Door to Door collection</b> in all wards and circles of MCD, NDMC &amp; DCB.</p> <p><b>Segregation of Waste :</b></p> <ul style="list-style-type: none"> <li>NDMC - 100% (in all 14 Circles)</li> <li>DCB - 95-100% in Model Wards of Civilian Area<br/>60-70% in Army Area</li> <li>MCD - 80-100 % (in 70 Model Wards)<br/>60 - 80% (in 12 Wards)<br/>50-60% (in 47 Wards)<br/>40-50% (in 46 Wards)<br/>20-40% (in 46 Wards)<br/>10-20% (in 29 Wards)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                 |                                                               |
| 5. | Details of MSW Treatment Facilities proposed and under construction (No., Capacity and technology)                     | Proposed Waste Processing & Disposal Facilities in Delhi is given in Table at 1 (e) of <b><u>Annexure -4</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                               |
| 6. | No. and Area (in Acres) of uncontrolled garbage dumpsites and Sanitary Landfills.                                      | Name of Dumpsite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Dumpsite Area in Acres<br>(As per Drone Survey in June, 2022) |
|    |                                                                                                                        | Ghazipur Dump Site                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 75.08                                                         |
|    |                                                                                                                        | Bhalaswa Dump Site                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 78.47                                                         |
|    |                                                                                                                        | Okhla Dump Site                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 62.74                                                         |

|    |                                                                                                                                                  |                                                                                                                                |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 7. | No. and Area (in Acres) of Legacy Waste within 1 km buffer of both side of the rivers                                                            | Nil                                                                                                                            |
| 8. | No. of Drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers: | 18 Major Drains out falling into river Yamuna & having Floating Racks / Screens to prevent solid waste falling into the river. |

### **Status of ULB wise Management of Solid Waste**

| ULB | Total MSW Generation in TPD | Total MSW being Processed/ Recycled/ Composted in TPD | Existing MSW Facilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Utilization Capacity of the Existing MSW Facilities                         | Proposed MSW Facilities & Completion Timeline                                                                                                                            |
|-----|-----------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MCD | 11000                       | 6590.175 (59.5%)                                      | <ul style="list-style-type: none"> <li>● One WTE Plant at Bawana Integrated MSW Facility - 2000 TPD (including 700 TPD Compost Plant)</li> <li>● One WTE Plant at Okhla – 1950 TPD [1600 for MCD rest for NDMC &amp; DCB ]</li> <li>● One WTE Plant at Ghazipur – 1300 TPD</li> <li>● One 2000 TPD WTE Plant at Tehkhand commissioned in October, 2022</li> <li>● 10 Bio-Methanation Plants - 50 TPD (5 TPD each at Roshanara Bagh, MVID Hospital Mangolpuri Industrial Area Ph-I, Naraina Industrial Area Ph-I, Sarita Vihar, Dwarka Sec-14, Punjabi Bagh Nursery, Masood Pur in Vasant Kunj, Geeta Colony &amp; Shastri Park)</li> <li>● 20 Composter Plants – 20 TPD (1 TPD each at Bhorgarh Nursery, Rajendra Nagar, Maurya Enclave, Mori Gate, Sector 11 Rohini, Chirag Delhi, Punjabi Bagh Nursery, Near Lady Shri Ram College East of Kailash and Dwarka Sector-14, Trilokpuri near Block-13, Mayur Vihar Ph-II, Preet Vihar, Jhilmil, New Trilokpuri near Block-13, Saini Enclave, Usmanpur, Kheda Village, Sunder Nagri, Gokulpur &amp; Ramleela Ground).</li> <li>● 211 Compost Pits of 543 TPD</li> <li>● One MRF of 8 TPD at Zakhira, 150 MRFs of total 218 TPD at various Locations, 1 MRF of 15 TPD at Raghubeer Nagar, 1 MRF of 5TPD at Dwarka Sec-</li> </ul> | Installed Capacity of Existing MSW Processing Facilities is being utilised. | <ul style="list-style-type: none"> <li>● Proposed Waste Processing &amp; Disposal Facilities in Delhi is given in Table at 1 (e) of <b><u>Annexure -4</u></b></li> </ul> |

|                                                                                                                                                                                                                                                                                                                                 |              |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                             |                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                 |              |                                   | 29, One MRF of 3 TPD at Patparganj Indl area, and 3 MRFs of 4 TPD at Geeta Colony (2TPD) and Dilshad Colony & Seemapuri (1 TPD each).                                                                                                                                                                                                                                                                                                                                              |                                                                             |                                                                                                                                            |
| NDMC                                                                                                                                                                                                                                                                                                                            | 263          | 263 (100%) [ 254 + 9 Through MRF) | <ul style="list-style-type: none"> <li>• 2 Organic Waste Converter-2 TPD (1TPD each at Madhulimey Marg &amp; Raza Bazar in New Delhi)</li> <li>• 26 Organic Waste Converter (OWCs) (13.215 TPD) &amp; 6 Biogas Plants (8.25 TPD) in NDMC area</li> <li>• 50 Compost Pits of 11.213 TPD</li> <li>• 2 MRFs of total capacity of 8 TPD at Circle 8, Palika Niwas &amp; Circle 10, Kautilaya Marg</li> <li>• 2 Domestic Hazardous Waste Collection Centers of 0.5 TPD each.</li> </ul> | Installed Capacity of Existing MSW Processing Facilities is being utilised. | -                                                                                                                                          |
| DCB                                                                                                                                                                                                                                                                                                                             | 72           | 54 (75 %) [ 50 + 4 Through MRF)   | <ul style="list-style-type: none"> <li>• 01 Sorting Cum Composter (20 TPD) + 02 Food Waste Composter (0.125 TPD + 0.05 TPD) at Tigris Road</li> <li>• 11 MRFs of total capacity of 50 TPD.</li> </ul>                                                                                                                                                                                                                                                                              | 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 <b>31.03.2023</b> . |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                    | <b>11335</b> | <b>6894.175 (Excluding MRF)</b>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                             |                                                                                                                                            |
| <p><b>Note</b> –1. Most of the Five &amp; Four Star Hotels and Major Hospitals having 50 Beds or more have installed Organic Waste Converter.</p> <p>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 by June, 2023.</p> |              |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                             |                                                                                                                                            |

## **VI. Bio-medical Waste Management:**

- Total Bio-medical Waste Generation : **25.828 TPD** (Average of Bio-medical waste generation excluding Covid waste)
- No. of Hospitals and Health Care Facilities : **10343**
- No. of Beds with HCEs : **58120** (As per Annual report for the year 2021)
- 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. Consent to Operate under the Air & Water Acts and Authorisation under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 have been issued by DPCC to the Project Proponent on 04.03.2022 for Secured Land Fill (SLF), Incinerator and Associated Activities. TSDF is in operation.

## **VIII. Plastic Waste Management:**

- Total Plastic Waste generation: 1145 TPD (Appx.)
- Processing of Plastic Waste : 687 TPD ( 60 % , at Waste to Energy Plants)
- Recycling of Plastic Waste : 208 TPD (18.2 %)
- Disposal at Landfill : 250 TPD ( 21.8 % )
- Registration under the Plastic Waste Management Rules, 2016 (as amended ) issued to 1854 units as briefed below:
  - Recyclers : 778
  - Producers : 840
  - Manufacturers : 236

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

### **In-situ Bioremediation / Phytoremediation of Sewage in Drains :**

- Integrated Drain Management Cell (IDMC) headed by Chief Secy, GNCTD has been constituted vide order dated 17.03.2020 for remediation and management of all drains of Delhi as per the orders of Hon'ble NGT in OA No.06/2012.
- IDMC is having members from all the Drain Owning Agencies (DOAs).
- Meetings of IDMC are held on regular basis and 15 Meetings have been held so far. Minutes of the last meeting (15<sup>th</sup>) held on 18.10.2022 are at **Annexure-5**.
- DOAs have submitted / are submitting their Action Plan with time line subject to availability of fund.

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

| S. No | Drain Owning Agencies | Measures Taken / Projects                                                                                                                                                                                                                                                                                                                                                                                                               | Timeline                                             |
|-------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 1     | MCD                   | <ul style="list-style-type: none"><li>• Constructed Wetland / Treatment System of 3 MLD designed by NEERI at Jheel Park for treatment of incoming drains. The treatment system is functional.</li><li>• Pushp Vihar Drain (1.9 Km stretch of Chirag Delhi Drain) as pilot project. Work is under progress.</li><li>• Pilot project for Phyto / Bio-Remediation of Kudesia Nallah in 350 m length. The work is under progress.</li></ul> | Functional<br><br>January, 2023<br><br>January, 2023 |

|   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |
|---|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 2 | NDMC      | Waste water in portion of Kushak Nallah falling under NDMC area is under Bio-remediation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Functional                                       |
| 3 | DCB       | In-situ treatment in 6 Drains through chemical dosing since discharge is less (in the range of 1.5 MLD).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Functional                                       |
| 4 | DDA       | <ul style="list-style-type: none"> <li>• Kalindi Biodiversity Park is being developed in 200 Hectares area in 6 kilometer length &amp; 1-3 kilometer wide.</li> <li>• 11 Constructed Wet Lands are being developed to treat sewage.</li> <li>• 2 Wetlands-one at Kilokari drain (10-12 MLD) and another at Dhobighat drain (12-15 MLD) have been constructed &amp; are functional.</li> <li>• The third Constructed Wet Land on Maharani Bagh drain is nearly completed.</li> </ul> <p>8 Constructed Wet Lands are not functional due to construction of high speed road of NHAI from Sarai kale Khan to Faridabad. These require redevelopment.</p> | 3 out of 11 Constructed Wet Lands are Functional |
| 5 | PWD       | <ul style="list-style-type: none"> <li>• Bio-remediation Plant of 2.5 MLD capacity has been installed at Chattarpur.</li> <li>• Work of installation of Bio-remediation Plant of 0.75 MLD capacity between main gate of Chattarsal Stadium and Azadpur Metro Station is under progress.</li> <li>• Bio-remediation of remaining drains of PWD are not feasible due to space constraint and smaller size of drains.</li> </ul>                                                                                                                                                                                                                        | Completed<br><br>15 <sup>th</sup> January, 2023  |
| 6 | I&FCDeptt | As per the feasibility report of the consultants, Phyto / Bio remediation is not feasible in the two major drains (Najafgarh drain and Shahdara drain) under I&FC Dept due to heavy discharge , land constraint etc.                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |
| 7 | DSIIDC    | Bioremediation/Phytoremediation is not possible for drains since smaller in size.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |

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

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

**Prevention of Dumping of Solid Waste in Drains :**

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

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

- Urban Development Department, Govt of NCT of Delhi is the Nodal Department for Govt of NCT of Delhi in respect of NGT case OA NO. 06/2012 in the matter of Manoj Mishra vs. Union of India & Ors. for control of pollution in river Yamuna in Delhi.

- RRC Delhi under the overall supervision of Pr. Secy (Env.) is monitoring the progress and matters related to NGT Case OA NO. 673/2018 in the matter of News item published in 'The Hindu' Authored by Shri Jacob Khoshy Titled "More river stretches are now critically polluted: CPCB" for control of pollution in river Yamuna in Delhi.
- Chief Secretary, GNCTD is taking meetings regularly with the concerned departments to review the progress w.r.t. various projects and matters related to control of pollution in river Yamuna in Delhi including above mentioned two NGT cases.

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

The matter related to control of pollution in river Yamuna is being monitored by Chief Secretary through various meetings e.g. meetings of Integrated Drain Management Cell (IDMC), Meetings on the Interceptor Sewer Project (ISP) and Meetings related to Hon'ble NGT orders in OA No. 06/2012 in the matter of Manoj Mishra Vs. Union of India & Ors. Regarding OA No. 673/2018, the issue is also being monitored by Chief Secretary on regular basis.

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

Water Quality of River Yamuna at 8 Locations for the samples collected by DPCC Water Laboratory in the Month of December, 2022 is at **Annexure-6.**

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

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

## **XIV. Ground Water Regulation:**

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

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

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

**XV. Good Irrigation Practices being adopted by the State:**

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

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

**XVI. Rain Water Harvesting:**

Progress of Rain Water Harvesting System installed / monitored by DJB (As on 02.01.2023)

| S. No. | Departments                                       | Total        | Installed   | Target to be installed upto 28.02.2023 | Remarks                                                                                                                                                |
|--------|---------------------------------------------------|--------------|-------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.     | DJB Installations                                 | 594          | 594         | 0                                      |                                                                                                                                                        |
| 2.     | By DJB for other Departments                      | 89           | 89          | 0                                      |                                                                                                                                                        |
| 3.     | Monitored by DJB for other Government Departments | 5472         | 3705        | 1767                                   | The departments are pursued continuously to update the progress but due to scarcity of funds progress could not be updated as reported by them.        |
| 4.     | Schools                                           | 4549         | 4144        | 405                                    | The School Authorities are pursued continuously to update the progress but due to scarcity of funds progress could not be updated as reported by them. |
|        | <b>Total</b>                                      | <b>10704</b> | <b>8532</b> | <b>2172</b>                            |                                                                                                                                                        |

**XVII. Demarcation of Floodplain and Removal of Illegal Encroachments:****(i). Demarcation of 1 in 25 years Flood Plains & Fixing up of Bollards and Fencing :**

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

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

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

**(iii). Installation of Electronic Surveillance System:**

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

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

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

150 Jhuggies in 2 acre land could not be removed due to stay by Courts. 10 nos. of Jhuggis / Chappers have been demolished on 23.09.2022 at Asita East UP Portion. Details of removal of encroachment by DDA is given at **Annexure-8.**

**(v). Demolition Program :**

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

**(vi). Removal of C&D Waste :**

42,000 metric tonnes of C&D waste lying in floodplain has been lifted to IL&FS site or utilized for development of Yamuna Project by DDA. Details of Challans issued by DDA in the period 2018 to 2022 is given at **Annexure-9.**

**(vii). Restoration and Rejuvenation of the Floodplains of River Yamuna.**

DDA is going ahead with the Restoration and rejuvenation of floodplains of River Yamuna. The complete stretch of Zone-‘O’ falling under the jurisdiction of DDA has been subdivided into 10 projects including the development of Bio-diversity Park near Kalindi Kunj Colony. Brief status of 10 projects taken up / to be taken up by DDA for development of Yamuna River Front (Restoration and Rejuvenation of River Yamuna Flood Plains Status as on 31.12.2022) is at **Annexure –10**

**XVIII. Maintaining Minimum e-flow of River:**

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

To assess the minimum required environmental flow of river Yamuna for stretch between Hathini Kund to Okhla, a comprehensive study was assigned by NMCG to National Institute of Hydrology (NIH), Roorkee on 24.12.2018.

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

**XIX. Plantation activities along the river:**

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

- Total **384.60 ha** of land has been handed over by DDA to Forest Department, Delhi in phases during the period w.e.f. 1975 to 2022 for plantation purpose.
- In **384.60 ha** of land **2,40,184** saplings have been planted by Forest Department, Delhi.

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

- Total **139.5** ha of land has been handed over by DDA to Forest Department, Delhi for the purpose in phases during the period w.e.f. 2014 to 2020 for plantation purpose.
- In **139.5** ha of land **165,086** saplings have been planted by Forest Department, Delhi.

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

- Total **105.368** ha of land has been handed over by DDA to Forest Department, Delhi for the plantation purpose in phases during the period w.e.f. 2014 to 2021.
- Out of **105.368** ha land, **103.88** ha of land has been afforested with **1,00,547** plant saplings by Forest Department, Delhi.

- |                                               |              |
|-----------------------------------------------|--------------|
| • Total land handed over till date            | = 629.468 ha |
| • The area that has been afforested till date | = 608.088 ha |
| • Total no. of saplings planted               | = 5,05,817   |

**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:**

| S.No. | Particular                             | Quantum in MGD                                                                                                       |
|-------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 1     | Quantum of Available Treated STP Water | 570                                                                                                                  |
| 2     | Mandatory Return Flow in River Yamuna  | 267<br>(As per the orders of Hon'ble Supreme Court)                                                                  |
| 3     | Present Use of Treated STP Water       | About 90 MGD<br>[Mainly for horticulture in various parks in Delhi including Millennium Park in I.P Estate, Japanese |

|   |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                                     | Garden in Rohini and various parks in NDMC area and DTC Depots, PPCL etc.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4 | Proposed Use of Treated STP Water   | 70 MGD Treated STP at Coronation Pillar is to be converted into 'C' Class Inland Surface Water by Ultra Filtration process to be discharged in river Yamuna about 8.60 Kilometer upstream of Wazirabad. Tenders received for this work is in process for award.<br>DJB has initiated a proposal for supplying of 5 MGD treated water from Okhla STP to NTPC Eco Park.                                                                                                                                                                                                                                                                                                                                                                                       |
| 5 | Balance Available Treated STP Water | 138 MGD<br>DJB has taken up following projects for use of treated STP Water for Development / Rejuvenation of Lakes : <ul style="list-style-type: none"> <li>• 10 MGD in Sanjay Lake from Kondli STP</li> <li>• 10 MGD in Smiriti Van / Lake and nearby areas from Kondli STP.</li> <li>• Development of following Lakes <ul style="list-style-type: none"> <li>○ Pappankalan - 20 MGD</li> <li>○ Nilothi - 20 MGD</li> <li>○ Okhla - 20 MGD</li> <li>○ Rohini - 15 MGD</li> <li>○ Najafgarh - 5 MGD</li> </ul> </li> </ul> DJB is also exploring the possibility of using treated STP Water in other usages like in Farm houses, Golf courses, Construction activities etc. and have already made available treated water at its STPs @ Rs 7 / Kilolitres. |

#### Number of Tankers Deployed:

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

| S.No. | Agency                        | No. of Tankers Engaged |
|-------|-------------------------------|------------------------|
| 1     | DTC                           | 04                     |
| 2     | PWD                           | 111                    |
| 3     | EDMC                          | 39                     |
| 4     | DDA                           | 8                      |
| 5     | Private Agencies              | 118                    |
| 6     | SDMC                          | 12                     |
| 7     | Forest Department             | 06                     |
| 8     | CPWD                          | 05                     |
| 9     | NHAI                          | 01                     |
| 10    | M/s L&T                       | 04                     |
| 11    | NBCC                          | 12                     |
| 12    | DJB internal Horticulture use | 26                     |
|       | <b>TOTAL</b>                  | <b>346</b>             |

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

Operative part of the said order is reproduced below :

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

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

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

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

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 year 2021 & 2022 (till 31.12.2022) is briefed in following Table**

| S. No. | Action Taken                        | 2021       | 2022<br>(till 31.12.2022) |
|--------|-------------------------------------|------------|---------------------------|
| 1      | Show Cause Notice                   | 311        | 361                       |
| 2      | Directions for Closure              | 300        | 199                       |
| 3      | Environmental Compensation Imposed  | 7.83 Crore | 15.34 Crore               |
| 4      | Environmental Compensation Received | 2.26 Crore | 5.31 Crore                |

Show Cause Notice for Closure was issued to two units and Environmental Compensation (EC) of Rs 10 Lakh was Imposed in the month of December, 2022.

**XXVI. Conservation of Water Bodies in Delhi**

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

| Sl. Nos. | Water Body Owning Agencies | Reconciled No. of Water Bodies (Till date) | Brief Documents received | Request for deletion of water bodies | Pertains to other Deptt. as requested by DDA | Yet to be handed over to DDA by GNCTD | Water Bodies not traceable due to non availability of Kh. Nos./ encroached | Balance (Yet to be received) |
|----------|----------------------------|--------------------------------------------|--------------------------|--------------------------------------|----------------------------------------------|---------------------------------------|----------------------------------------------------------------------------|------------------------------|
| 1.       | DDA                        | 824                                        | 506                      | 221                                  | 35                                           | 37                                    | 25                                                                         | 0                            |
| 2.       | BDO/REV.                   | 131                                        | 119                      | 3                                    |                                              |                                       | 9                                                                          | 0                            |
| 3.       | MCD                        | 24                                         | 24                       |                                      |                                              |                                       |                                                                            | 0                            |
| 4.       | DJB                        | 6                                          | 0                        | 6                                    |                                              |                                       |                                                                            | 0                            |
| 5.       | PWD                        | 1                                          | 1                        |                                      |                                              |                                       |                                                                            | 0                            |
| 6.       | CPWD                       | 5                                          | 5                        |                                      |                                              |                                       |                                                                            | 0                            |

|     |                                   |             |            |            |           |           |           |          |
|-----|-----------------------------------|-------------|------------|------------|-----------|-----------|-----------|----------|
| 7.  | <b>ASI</b>                        | 16          | 16         |            |           |           |           | 0        |
| 8.  | <b>FOREST</b>                     | 26          | 26         |            |           |           |           | 0        |
| 9.  | <b>DELHI<br/>ARCH.<br/>DEPTT.</b> | 1           | 1          |            |           |           |           | 0        |
| 10. | <b>DELHI<br/>WAKF<br/>BOARD</b>   | 1           | 1          |            |           |           |           | 0        |
| 11. | <b>DUSIB</b>                      | 1           | 1          |            |           |           |           | 0        |
| 12. | <b>DSIIDC</b>                     | 4           | 4          |            |           |           |           | 0        |
| 13. | <b>JNU</b>                        | 3           | 3          |            |           |           |           | 0        |
| 14. | <b>IIT</b>                        | 1           | 1          |            |           |           |           | 0        |
| 15. | <b>NTPC</b>                       | 1           | 1          |            |           |           |           | 0        |
|     |                                   | <b>1045</b> | <b>709</b> | <b>230</b> | <b>35</b> | <b>37</b> | <b>34</b> | <b>0</b> |

- 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. 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> meetings of the Technical Committee were held on 05.08.2021, 09.11.2021 18.02.2022 and 09.06.2022. Prioritized 20 waterbodies for immediate notification

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

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

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

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

## **XXVII. Yamuna Cleaning Cell (YCC)**

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

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

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

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

Meetings of the Yamuna Cleaning Cell are held regularly on weekly basis and 27 meetings were held till 22.07.2022 and copy of the minutes of the last meeting held on 22.07.2022 has already been provided vide Annexure -11 of the Monthly Progress Report for the month of October, 2022.

Eleven Teams comprising of the representatives of Delhi Jal Board, DPCC, DSIIDC & Municipal Corporation have been constituted for Inspections and taking action against the violating Water Polluting Industries / Units in Delhi.

| S. No. | Name of STP       | Capacity<br>(in MGD) | Existing<br>STP<br>Capacity<br>(in MLD) | Design<br>Parameters<br>BOD/TSS<br>( in mg/l) | Date of<br>Sampling | Brief of Analysis Reports<br>(Compliance status)<br>[Prescribed Standards by DPCC :<br><i>pH</i> - 6.5 - 9.0, , <i>TSS</i> ≤ 10 mg/l, <i>BOD</i> ≤ 10 mg/l ,<br><i>COD</i> ≤ 50 mg/l, <i>Ammonical Nitrogen</i> ≤ 5mg/l,<br><i>Total Nitrogen (N-Total )</i> ≤ 10 mg/l, <i>Phosphate (PO<sub>4</sub> - P)</i> ≤ 2 mg/l ,<br><i>Fecal Coliform(FC)</i> (MPN/100ml) < 230] | Compliance<br>w.r.t. Design<br>parameters |
|--------|-------------------|----------------------|-----------------------------------------|-----------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 1      | Mehrauli          | 5                    | 22.73                                   | 20/30                                         | 07.12.2022          | Not Meeting the Prescribed standard in respect of TSS (44 mg/l against the prescribed standard of ≤ 10 mg/l), COD (64 mg/l against the prescribed standard of ≤ 50 mg/l), BOD (28 mg/l against the prescribed standard of ≤ 10 mg/l) and Dissolved Phosphate as P (3.2 mg/l against the prescribed standard of ≤ 2 mg/l).                                                | No                                        |
| 2      | Okhla Phase – II  | 12                   | 54.552                                  | 30/50                                         | 15.12.2022          | 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 COD (56 mg/l against the prescribed standard of ≤ 50 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).                                                                         | Yes                                       |
| 3      | Okhla Phase – III | 37                   | 168.20                                  | 30/50                                         | 15.12.2022          | Not Meeting the Prescribed standard in respect of TSS (16 mg/l against the prescribed standard of ≤ 10 mg/l), BOD (12 mg/l against the prescribed standard of ≤ 10 mg/l) and Dissolved Phosphate as P (2.6 mg/l against the prescribed standard of ≤ 2 mg/l). . However meeting the Design Parameters (BOD/TSS:30/50).                                                   | Yes                                       |
| 4      | Okhla Phase – IV  | 45                   | 204.57                                  | 30/50                                         | 15.12.2022          | Not Meeting the Prescribed standard in respect of TSS (16 mg/l against the prescribed standard of ≤ 10 mg/l) and BOD (16 mg/l against the prescribed standard of ≤ 10 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).                                                                                                                                      | Yes                                       |
| 5      | Okhla Phase – V   | 16                   | 72.73                                   | 30/50                                         | 15.12.2022          | Not Meeting the Prescribed standard in respect of TSS (18 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). However meeting the Design Parameters (BOD/TSS:30/50).                                                     | Yes                                       |
| 6      | Okhla Phase – VI  | 30                   | 136.38                                  | 20/30                                         | 15.12.2022          | Not Meeting the Prescribed standard in respect of TSS (16 mg/l against the prescribed standard of ≤ 10 mg/l) and BOD (14 mg/l against the prescribed standard of ≤ 10 mg/l). However meeting the Design Parameters                                                                                                                                                       | Yes                                       |

|    |                             |      |       |       |            |                                                                                                                                                                                                                                                                                                                                                                                                       |     |
|----|-----------------------------|------|-------|-------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|    |                             |      |       |       |            | (BOD/TSS:20/30).                                                                                                                                                                                                                                                                                                                                                                                      |     |
| 7  | Molarband                   | 0.66 | 03    | 30/50 | 15.12.2022 | Not Meeting the Prescribed standard in respect of TSS (24 mg/l against the prescribed standard of $\leq 10$ mg/l), COD (76 mg/l against the prescribed standard of $\leq 50$ mg/l) , BOD (18 mg/l against the prescribed standard of $\leq 10$ mg/l) and Dissolved Phosphate as P (2.8 mg/l against the prescribed standard of $\leq 2$ mg/l). However meeting the Design Parameters (BOD/TSS:30/50). | Yes |
| 8  | Dr. Sen Nursing Home Nalla  | 2.2  | 10    | 10/15 | 09.12.2022 | Meeting the Prescribed standards.                                                                                                                                                                                                                                                                                                                                                                     | Yes |
| 9  | Vasant Kunj Phase – I       | 2.2  | 10    | 30/50 | 07.12.2022 | Not Meeting the Prescribed standard in respect of TSS (16 mg/l against the prescribed standard of $\leq 10$ mg/l), and Dissolved Phosphate as P (2.9 mg/l against the prescribed standard of $\leq 2$ mg/l).However meeting the Design Parameters (BOD/TSS:30/50).                                                                                                                                    | Yes |
| 10 | Vasant Kunj Phase – II      | 3    | 13.64 | 30/50 | 07.12.2022 | Not Meeting the Prescribed standard in respect of TSS (24 mg/l against the prescribed standard of $\leq 10$ mg/l), BOD (14 mg/l against the prescribed standard of $\leq 10$ mg/l),COD (64 mg/l against the prescribed standard of $\leq 50$ mg/l), and Dissolved Phosphate as P (3 mg/l against the prescribed standard of $\leq 2$ mg/l). However meeting the Design Parameters (BOD/TSS:30/50).    | Yes |
| 11 | Ghitorni                    | 5    | 22.73 | 30/50 | 07.12.2022 | Not Meeting the Prescribed standard in respect of TSS (24 mg/l against the prescribed standard of $\leq 10$ mg/l), BOD (18 mg/l against the prescribed standard of $\leq 10$ mg/l), COD (56 mg/l against the prescribed standard of $\leq 50$ mg/l) and Dissolved Phosphate as P (2.5 mg/l against the prescribed standard of $\leq 2$ mg/l). However meeting the Design Parameters (BOD/TSS:30/50).  | Yes |
| 12 | Delhi Gate Nalla Phase – I  | 2.2  | 10    | 10/15 | 09.12.2022 | Meeting the Prescribed standards.                                                                                                                                                                                                                                                                                                                                                                     | Yes |
| 13 | Delhi Gate Nalla Phase – II | 15   | 68.20 | 10/10 | 09.12.2022 | Meeting the Prescribed standards.                                                                                                                                                                                                                                                                                                                                                                     | Yes |
| 14 | Kondli Phase – I            | 10   | 45.46 | 10/10 | 09.12.2022 | Not Meeting the Prescribed standard in respect of TSS (12 mg/l against the prescribed standard of $\leq 10$ mg/l) .                                                                                                                                                                                                                                                                                   | No  |

|    |                                  |    |        |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |
|----|----------------------------------|----|--------|-------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 15 | Kondli Phase-III                 | 10 | 45.46  | 10/10 | 09.12.2022 | Not Meeting the Prescribed standard in respect of TSS (14 mg/l against the prescribed standard of $\leq 10$ mg/l).                                                                                                                                                                                                                                                                                                                | No  |
| 16 | Kondli Phase – IV                | 45 | 204.57 | 20/30 | 09.12.2022 | Not Meeting the Prescribed standard in respect of TSS (148 mg/l against the prescribed standard of $\leq 10$ mg/l), COD (200 mg/l against the prescribed standard of $\leq 50$ mg/l), BOD (85 mg/l against the prescribed standard of $\leq 10$ mg/l), Ammonical Nitrogen (16.8 mg/l against the prescribed standard of $\leq 5$ mg/l) and Dissolved Phosphate as P (15.8 mg/l against the prescribed standard of $\leq 2$ mg/l). | No  |
| 17 | Chilla                           | 9  | 40.91  | 10/10 | 09.12.2022 | Not Meeting the Prescribed standard in respect of TSS (14 mg/l against the prescribed standard of $\leq 10$ mg/l)                                                                                                                                                                                                                                                                                                                 | No  |
| 18 | Yamuna Vihar Phase – I           | 10 | 45.46  | 30/50 | 09.12.2022 | Not Meeting the Prescribed standard in respect of TSS (22 mg/l against the prescribed standard of $\leq 10$ mg/l), BOD (15 mg/l against the prescribed standard of $\leq 10$ mg/l), COD (56 mg/l against the prescribed standard of $\leq 50$ mg/l). However meeting the Design Parameters (BOD/TSS:30/50).                                                                                                                       | Yes |
| 19 | Yamuna Vihar Phase – II          | 10 | 45.46  | 30/50 | 09.12.2022 | Not Meeting the Prescribed standard in respect of TSS (24 mg/l against the prescribed standard of $\leq 10$ mg/l) and BOD (18 mg/l against the prescribed standard of $\leq 10$ mg/l) and COD (56 mg/l against the prescribed standard of $\leq 50$ mg/l), Dissolved Phosphate as P (2.2 mg/l against the prescribed standard of $\leq 2$ mg/l). However meeting the Design Parameters (BOD/TSS:30/50).                           | Yes |
| 20 | Yamuna Vihar Phase – III         | 25 | 113.65 | 20/30 | 09.12.2022 | Not Meeting the Prescribed standard in respect of TSS (24 mg/l against the prescribed standard of $\leq 10$ mg/l), BOD (16 mg/l against the prescribed standard of $\leq 10$ mg/l) and COD (76 mg/l against the prescribed standard of $\leq 50$ mg/l). However meeting the Design Parameters (BOD/TSS:20/30).                                                                                                                    | Yes |
| 21 | Common Wealth Games Village      | 1  | 4.55   | 02/01 | 09.12.2022 | Meeting the Prescribed standards.                                                                                                                                                                                                                                                                                                                                                                                                 | Yes |
| 22 | Coronation Pillar Phase – I & II | 20 | 90.92  | 30/50 | 28.12.2022 | Not Meeting the Prescribed standard in respect of TSS (30 mg/l against the prescribed standard of $\leq 10$ mg/l), BOD (15 mg/l against the prescribed standard of $\leq 10$ mg/l), COD (76 mg/l against the prescribed standard of $\leq 50$ mg/l)and                                                                                                                                                                            | Yes |

|    |                        |    |        |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |
|----|------------------------|----|--------|-------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|    |                        |    |        |       |            | Dissolved Phosphate as P (3.4 mg/l against the prescribed standard of $\leq 2$ mg/l) . However meeting the Design Parameters (BOD/TSS:30/50).                                                                                                                                                                                                                                                                                                                                       |     |
| 23 | New Coronation Pillar  | 70 | 318.22 | 10/10 | 28.12.2022 | Meeting the Prescribed standards.                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Yes |
| 24 | Narela                 | 10 | 45.46  | 30/50 | 08.12.2022 | Not Meeting the Prescribed standard in respect of TSS (34 mg/l against the prescribed standard of $\leq 10$ mg/l), BOD (16 mg/l against the prescribed standard of $\leq 10$ mg/l) and Dissolved Phosphate as P (2.4 mg/l against the prescribed standard of $\leq 2$ mg/l) . However meeting the Design Parameters (BOD/TSS:30/50).                                                                                                                                                | Yes |
| 25 | Rithala Phase –II      | 40 | 181.60 | 15/20 | 01.12.2022 | Meeting the Prescribed standards.                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Yes |
| 26 | Rohini                 | 15 | 68.19  | 30/50 | 01.12.2022 | Not Meeting the Prescribed standard in respect of TSS (26 mg/l against the prescribed standard of $\leq 10$ mg/l), COD 56 mg/l against the prescribed standard of $\leq 50$ mg/l), BOD (20 mg/l against the prescribed standard of $\leq 10$ mg/l), Ammonical Nitrogen (6.8 mg/l against the prescribed standard of $\leq 5$ mg/l) and Dissolved Phosphate as P( 3.1 mg/l against the prescribed standard of $\leq 2$ mg/l). However meeting the Design Parameters (BOD/TSS:30/50). | Yes |
| 27 | Keshopur New (Phase I) | 12 | 54.55  | 20/30 | 12.12.2022 | Not Meeting the Prescribed standard in respect of TSS (14 mg/l against the prescribed standard of $\leq 10$ mg/l) and COD (60 mg/l against the prescribed standard of $\leq 50$ mg/l) . However meeting the Design Parameters (BOD/TSS:20/30).                                                                                                                                                                                                                                      | Yes |
| 28 | Keshopur Phase–II      | 20 | 90.92  | 30/50 | 12.12.2022 | Not Meeting the Prescribed standard in respect of TSS (58 mg/l against the prescribed standard of $\leq 10$ mg/l), BOD (30 mg/l against the prescribed standard of $\leq 10$ mg/l) and COD (84 mg/l against the prescribed standard of $\leq 50$ mg/l)                                                                                                                                                                                                                              | No  |
| 29 | Keshopur Phase–III     | 40 | 181.84 | 30/50 | 12.12.2022 | Not Meeting the Prescribed standard in respect of TSS (42 mg/l against the prescribed standard of $\leq 10$ mg/l), BOD (30 mg/l against the prescribed standard of $\leq 10$ mg/l), and COD (84 mg/l against the prescribed standard of $\leq 50$ mg/l) . However meeting the Design Parameters (BOD/TSS:30/50).                                                                                                                                                                    | Yes |
| 30 | Nilothi Phase – I      | 40 | 181.84 | 30/50 | 12.12.2022 | Not Meeting the Prescribed standard in respect of TSS (60 mg/l against the prescribed standard of $\leq 10$ mg/l), COD (152 mg/l against the prescribed standard of $\leq 50$ mg/l), Ammonical Nitrogen (8.6 mg/l against the prescribed standard of $\leq 5$ mg/l) and BOD (42 mg/l against the prescribed standard of $\leq 10$ mg/l).                                                                                                                                            | No  |

|    |                             |    |                                               |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |
|----|-----------------------------|----|-----------------------------------------------|-------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 31 | Nilothi Phase – II          | 20 | 90.92                                         | 10/10 | 12.12.2022 | Meeting the Prescribed standards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes |
| 32 | Pappankala Phase– I         | 20 | 90.92                                         | 30/50 | 13.12.2022 | <b>Not Meeting the Prescribed standard in respect of TSS (38 mg/l against the prescribed standard of <math>\leq 10</math> mg/l), COD (60mg/l against the prescribed standard of <math>\leq 50</math> mg/l), Ammonical Nitrogen (5.6 mg/l against the prescribed standard of <math>\leq 5</math> mg/l) BOD (20 mg/l against the prescribed standard of <math>\leq 10</math> mg/l) and Dissolved Phosphate as P (2.4 mg/l against the prescribed standard of <math>\leq 2</math> mg/l). However meeting the Design Parameters (BOD/TSS:30/50).</b> | Yes |
| 33 | Pappankala Phase Phase – II | 20 | 90.92                                         | 10/10 | 13.12.2022 | Meeting the Prescribed standards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes |
| 34 | Najafgarh                   | 5  | 22.73                                         | 30/50 | 12.12.2022 | <b>Not Meeting the Prescribed standard in respect of TSS (22 mg/l against the prescribed standard of <math>\leq 10</math> mg/l), COD (52 mg/l against the prescribed standard of <math>\leq 50</math> mg/l) and BOD (16 mg/l against the prescribed standard of <math>\leq 10</math> mg/l). However meeting the Design Parameters (BOD/TSS:30/50).</b>                                                                                                                                                                                           | Yes |
| 35 | Kapashera                   | 5  | 22.73                                         | 10/10 | 13.12.2022 | Meeting the Prescribed standards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes |
|    | <b>Total</b>                |    | <b>2874.01<br/>(in MLD)<br/>632.2<br/>MGD</b> |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |

**Note:-**

1. As per the Analysis Reports of DPCC Water Laboratory for December, 2022, out of 35 operational STPs of DJB, 35 STPs samples were analysed where 9 STPs were found complying with the standards prescribed by DPCC.
2. Out of 35 STPs, 28 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)**

| <b>S. No.</b> | <b>Name of Drain</b>   | <b>Discharge (MLD)</b>       | <b>Status</b>                                                                                                                          | <b>Remarks</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------|------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.<br>However, overflow was observed from the gates on Sen Nursing Home Nallah installed by the agency operating the STP. | This drain is trapped into Dr Sen Nursing Home STP of Delhi As well as into the ring road trunk sewer. Some marginal flow passes/overflow. To stop this marginal flow permanent RCC Weir was being constructed to completely stop the overflow. However, the work was stopped by erstwhile South DMC and the constructed structure was completely demolished by SDMC in the month of July, 2020 due to the reason that it was causing obstruction to the flow during the monsoon resulting in flooding of WHO building. |

| S. No. | Name of Drain               | Discharge (MLD)   | Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------|-----------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14.    | Qudsia Bagh+ Morigate Drain | 43.2(9.51 MGD)    | Tenders have been re-invited and technical bid opened on 07.07.2022. Work awarded.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>Land allotted in O-zone.</p> <p>The payment of Rs 2.69 Crore as cost on 30/11/2021 and Rs 21.83 Lakh as interest on 15/03/2022 for allotment of 1500 Sq.m and for construction of STP at the mouth of Mori Gate has been handed over to DJB by DDA.</p> <p>For Morigate STP, alternative proposal is framed to carry the sewage to Nehru Vihar SPS for its treatment into Coronation Pillar STP by laying a rising main from proposed SPS at ISBT Kashmere Gate.</p> <p>Work Order has been issued on 23.12.2022 and work is likely to be completed by December, 2023.</p> |
| 15.    | Barapula Drain              | 145.15(31.97 MGD) | DJB is undertaking works for trapping of sewage in the command of Barapulla Drain as per the report of expert member of Monitoring Committee and the work of trapping flow in Kushak drain at Andrews Ganj Pumping station have been completed. Further, the sewer rehabilitation works are also under implementation at Munirka, Sarai Kale Khan, Saket etc. All these measures are expected to be completed by Feb, 2023 which will reduce about 45.46 MLD (10 MGD) flow in the Barapulla Drain. The remaining flow is expected to be around 68.91 to 90.92 MLD (15 to 20 MGD) for which it was earlier planned to construct a STP of 90.1 MLD (20 MGD) before outfall into the Yamuna. However, due to very high cost of land demanded by DDA, alternative techno- economical proposal has been framed for Intercepting the Barapullah | <p>Work is likely to be completed by December, 2023.</p> <p>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|     |                        |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----|------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                        |                        | drain flow by laying of interceptor sewer through micro tunneling and conveying the flow to Okhla WWTP for treatment                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 16. | Maharani Bagh Drain    | 30.24(6.66 MGD)        | <p>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.</p> <p>DJB has 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 construction 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.</p> | The work has been awarded on 04.03.2022 and likely to be completed by December, 2023.                                                                                                                                                                                                                                                                                                                                  |
| 17. | Najafgarh Drain        | 2056.32<br>(452.9 MGD) | Work is in progress.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>This is a large drain having flow about 450 MGD and hence it cannot be trapped technically. However, its major 77 tributaries including 28 tributaries on Supplementary drain (172 MGD) are being trapped in ISP.</p> <p>Presently 252 MGD comprises of treated effluent from STPs. From Haryana, untreated waste water of 105 MGD is being discharged through Badshahpur and DD-6 drains into Najafgarh Drain.</p> |
| 18. | Shahdara Outfall Drain | 475.2<br>(104.66 MGD)  | Work is in progress.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>This is a large drain having flow about 105 MGD and hence it cannot be trapped technically. However, its major 31 tributaries ( 70 MGD is being trapped in ISP.</p> <p>Total discharge in Shahdara drain is about 105 MGD, out of which 50 MGD (i.e. 45%) is untreated waste water being discharged by UP through Shahibabad, Indirapuri and Banthala drains.</p>                                                   |

**Brief Status of Common Effluent Treatment Plants (CETPs) in Delhi**  
**(Based on the Analysis Reports of DPCC Laboratory for the Month of December, 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      | <b>Jhilmil CETP</b> | Jhilmil and Friends Colony Indl. Areas | <b>16.8</b>       | <b>5.359</b>                  | 09.12.2022       | pH - 7.1<br>TSS - 448<br>COD - 552<br>BOD - 222<br>Oil & Grease – 23.2<br>Ammonical Nitrogen (N) – 26.1<br>Phosphate-26.9<br>Sulphide – 7.5  | pH - 7.7<br>TSS - 90<br>COD - 128<br>BOD - 26<br>Oil & Grease –56.8<br>Ammonical Nitrogen (N) – 5.2<br>Phosphate-3.3<br>Sulphide – 1.4                                          | <b>Meeting the Prescribed Standards.</b>                                                                                                                                                                                                                                                                                                                                     | Letter is being issued to CETP Society directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC.                             |
| 2      | <b>Badli CETP</b>   | Badli Industrial Estate                | <b>12</b>         | <b>3.20</b>                   | 14.12.2022       | pH - 6.8<br>TSS - 320<br>COD - 364<br>BOD - 196<br>Oil & Grease – 17.2<br>Ammonical Nitrogen (N) – 33.7<br>Phosphate-25.2<br>Sulphide – 14.1 | pH - 7.3<br><b>TSS - 108</b><br>COD - 120<br><b>BOD - 38</b><br><b>Oil &amp; Grease – 10.8</b><br>Ammonical Nitrogen (N) – 5.9<br><b>Phosphate-5.3</b><br><b>Sulphide – 5.1</b> | <b>Meeting the Prescribed Standards except in respect of TSS (108 mg/l against Prescribed Standard of 100 mg/l), BOD (38 mg/l against Prescribed Standard of 30.0 mg/l), Oil &amp; Grease (10.8 mg/l against Prescribed Standard of 10 mg/l), Phosphate (5.3 mg/l against Prescribed Standard of 5 mg/l) and Sulphide (5.1 mg/l against Prescribed Standard of 2.0 mg/l)</b> | Letter is being issued to the CETP Society with the direction to take necessary rectification measures to meet prescribed Standards and send the Action Taken/Compliance Report within 15 days. |

**Brief Status of Common Effluent Treatment Plants (CETPs) in Delhi**  
**(Based on the Analysis Reports of DPCC Laboratory for the Month of December, 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                                                                                                                                                        |
|--------|------------------------|--------------------------------------|-------------------|-------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3      | <b>Mayapuri CETP</b>   | Mayapuri Indl. Area                  | 12                | 3.76                          | 08.12.2022       | pH - 7.0<br>TSS - 518<br>COD - 584<br>BOD - 236<br>Oil & Grease – 17.6<br>Ammonical Nitrogen (N) – 31.2<br>Phosphate-130.5<br>Sulphide – 23.6 | pH - 7.5<br>TSS - 88<br>COD - 112<br>BOD - 24<br>Oil & Grease – 7.8<br>Ammonical Nitrogen (N) – 6.3<br>Phosphate-2.8<br>Sulphide – 1.5 | <b>Meeting the Prescribed Standards.</b>        | Letter is being issued to CETP Society directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC. |
| 4      | <b>Mangolpuri CETP</b> | Mangolpuri Indl. Area                | 2.4               | 1.61                          | 08.12.2022       | pH -7.1<br>TSS - 464<br>COD - 612<br>BOD - 234<br>Oil & Grease – 14.4<br>Ammonical Nitrogen (N) – 21.1<br>Phosphate-114<br>Sulphide – 8.6     | pH - 7.5<br>TSS - 80<br>COD - 156<br>BOD - 24<br>Oil & Grease –5.8<br>Ammonical Nitrogen (N) – 3.8<br>Phosphate-3.4<br>Sulphide – 1.2  | <b>Meeting the Prescribed Standards.</b>        | Letter is being issued to CETP Society 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 December, 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                                                                                                                                                        |
|--------|----------------------|--------------------------------------|-------------------|-------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5      | <b>Wazirpur CETP</b> | Wazirpur Indl Area                   | <b>24</b>         | <b>2.635</b>                  | 02.12.2022       | pH -7.4<br>TSS - 236<br>COD - 352<br>BOD - 110<br>Oil & Grease –10.4<br>Ammonical Nitrogen (N) – 51.6<br>Phosphate-3.1<br>Sulphide – 6.8 | pH -7.4<br>TSS - 64<br>COD - 96<br>BOD - 28<br>Oil & Grease – 3.2<br>Ammonical Nitrogen (N) – 12.2<br>Phosphate-2.2<br>Sulphide – 1.3 | <b>Meeting the Prescribed Standards.</b>        | Letter is being issued to CETP Society directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC. |
| 6      | <b>Nangloi CETP</b>  | Nangloi& Udyog Nagar Indl Areas      | <b>12</b>         | <b>2.784</b>                  | 08.12.2022       | pH -6.9<br>TSS - 468<br>COD - 460<br>BOD - 196<br>Oil & Grease – 14<br>Ammonical Nitrogen (N) – 20.8<br>Phosphate-15.5<br>Sulphide – 8.1 | pH -7.3<br>TSS - 72<br>COD - 116<br>BOD - 30<br>Oil & Grease – 4.8<br>Ammonical Nitrogen (N) – 3.1<br>Phosphate-1.4<br>Sulphide – 1.4 | <b>Meeting the Prescribed Standards.</b>        | Letter is being issued to CETP Society 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 December, 2022)**

**Annexure -3**

| S. No. | Name of CETP      | Industrial Areas Connected with CETP                 | Capacity (in MLD) | Monthly Average Flow (in MLD) | Date of Sampling | Influent Quality at Inlet (in mg/l)                                                                                                       | Effluent Quality at Outlet (in mg/l)                                                                                                  | Brief of Analysis Report (For Treated Effluent) | Action Taken                                                                                                                                                         |
|--------|-------------------|------------------------------------------------------|-------------------|-------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7      | <b>SMA CETP</b>   | SMA, Rajasthani Udyog Nagar and SSI Industrial Areas | 12                | 2.896                         | 02.12.2022       | pH -6.9<br>TSS - 448<br>COD - 424<br>BOD - 152<br>Oil & Grease – 9.6<br>Ammonical Nitrogen (N) – 26.4<br>Phosphate-81.3<br>Sulphide – 7.7 | pH -7.3<br>TSS - 56<br>COD - 80<br>BOD - 26<br>Oil & Grease – 4.6<br>Ammonical Nitrogen (N) –6.3<br>Phosphate-2.1<br>Sulphide – 1.4   | <b>Meeting the Prescribed Standards.</b>        | Letter is being issued to CETP Society directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC.  |
| 8      | <b>Okhla CETP</b> | Okhla Indl. Area                                     | 24                | 1.548                         | 14.12.2022       | pH -6.8<br>TSS - 552<br>COD - 672<br>BOD - 280<br>Oil & Grease – 36.4<br>Ammonical Nitrogen (N) – 63.9<br>Phosphate-128<br>Sulphide – 7.4 | pH -7.4<br>TSS - 84<br>COD - 104<br>BOD - 28<br>Oil & Grease – 7.6<br>Ammonical Nitrogen (N) –22.8<br>Phosphate-3.7<br>Sulphide – 1.4 | <b>Meeting the Prescribed Standards.</b>        | Letter is being issued to CETP Society 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 December, 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                                                                                                                                                        |
|--------|--------------|--------------------------------------|-------------------|-------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9      | Narela CETP  | Narela Indl. Area                    | 22.5              | 11.046                        | 08.12.2022       | pH -7.1<br>TSS - 460<br>COD - 344<br>BOD - 232<br>Oil & Grease – 19.2<br>Ammonical Nitrogen (N) –16.4<br>Phosphate-62<br>Sulphide – 8.3   | pH -7.6<br>TSS - 84<br>COD - 116<br>BOD - 30<br>Oil & Grease – 5.4<br>Ammonical Nitrogen (N) –7.6<br>Phosphate-2.9<br>Sulphide – 1.2 | Meeting the Prescribed Standards.               | Letter is being issued to CETP Society directing to ensure that the CETP take necessary measures to meet prescribed Treated Effluent Standards notified by MOEF&CC. |
| 10     | Bawana CETP  | Bawana Indl. Area                    | 35                | 23.747                        | 08.12.2022       | pH -7.3<br>TSS - 462<br>COD - 572<br>BOD - 218<br>Oil & Grease – 22.4<br>Ammonical Nitrogen (N) –15.6<br>Phosphate-46.8<br>Sulphide – 4.8 | pH -7.6<br>TSS - 86<br>COD - 126<br>BOD - 28<br>Oil & Grease –4.2<br>Ammonical Nitrogen (N) –5.0<br>Phosphate-3.1<br>Sulphide – 1.2  | Meeting the Prescribed Standards.               | Letter is issued to CETP Society 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 December, 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                                                                                                                                                        |
|--------|--------------|--------------------------------------|-------------------|-------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11     | Naraina CETP | Naraina Indl. Area                   | 21.6              | 4.56                          | 08.12.2022       | pH - 7.3<br>TSS - 440<br>COD - 512<br>BOD - 212<br>Oil & Grease -13.6<br>Ammonical Nitrogen (N)-28.8<br>Phosphate-8.0<br>Sulphide – 8.5   | pH - 7.8<br>TSS - 72<br>COD - 116<br>BOD - 26<br>Oil & Grease -5.8<br>Ammonical Nitrogen (N)-4.2<br>Phosphate-2.2<br>Sulphide – 1.1  | Meeting the Prescribed Standards.                                                                                                                                                                                                                                                                                                                             | Letter is being issued to CETP Society 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                 | 2.38                          | 02.12.2022       | pH - 7.5<br>TSS - 880<br>COD - 1520<br>BOD - 370<br>Oil & Grease -14.8<br>Ammonical Nitrogen (N)-43.4<br>Phosphate-29.4<br>Sulphide – 5.4 | pH - 7.7<br>TSS - 168<br>COD - 512<br>BOD - 75<br>Oil & Grease -13<br>Ammonical Nitrogen (N)-14.8<br>Phosphate-3.6<br>Sulphide – 2.3 | Meeting the Prescribed Standards except in respect of TSS (168 mg/l against Prescribed Standard of 100 mg/l), COD (512 mg/l against Prescribed Standard of 250.0 mg/l), BOD (75 mg/l against Prescribed Standard of 30.0 mg/l), Oil & Grease (13 mg/l against Prescribed Standard of 10 mg/l) and Sulphide (2.3 mg/l against Prescribed Standard of 2.0 mg/l) | Letter is being issued to CETP Society 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 December, 2022)**

**Annexure -3**

| S. No. | Name of CETP       | Industrial Areas Connected with CETP | Capacity (in MLD) | Monthly Average Flow (in MLD) | Date of Sampling | Influent Quality at Inlet (in mg/l)                                                                                 | Effluent Quality at Outlet (in mg/l)                                                                                                  | Brief of Analysis Report (For Treated Effluent)                                                                                                                                                                                             | Action Taken                                                                                                                                                                                    |
|--------|--------------------|--------------------------------------|-------------------|-------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13     | Lawrence Road CETP | Lawrence Road Indl. Area             | 12                | 1.76                          | 02.11.2022       | pH - 6.8<br>TSS - 504<br>COD - 420<br>BOD - 160<br>Ammonical Nitrogen (N)-21.6<br>Phosphate-10.9<br>Sulphide – 23.8 | pH - 7.5<br><b>TSS - 106</b><br>COD - 128<br><b>BOD - 44</b><br>Ammonical Nitrogen (N)-12.6<br>Phosphate-3.7<br><b>Sulphide – 8.4</b> | <b>Meeting the Prescribed Standards except in respect of TSS (106 mg/l against Prescribed Standard of 100 mg/l), BOD (44 mg/l against Prescribed Standard of 30.0 mg/l) and Sulphide (8.4 mg/l against Prescribed Standard of 2.0 mg/l)</b> | Letter is being issued to the CETP Society with the direction to take necessary rectification measures to meet prescribed Standards and send the Action Taken/Compliance Report within 15 days. |
|        |                    | <b>Total</b>                         | <b>212.3</b>      | <b>67.285</b>                 |                  |                                                                                                                     |                                                                                                                                       |                                                                                                                                                                                                                                             |                                                                                                                                                                                                 |

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

### 1. Municipal Solid Waste Management :

#### Municipal Solid Waste Generation, Processing and Disposal

| S. No. | Particulars                                                       | MCD                                                                                                                                            | NDMC                    | DCB                                                            | Total                  |
|--------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------|------------------------|
| 1      | Total Municipal Solid Waste (MSW) Generation(in TPD)              | 11000                                                                                                                                          | 263                     | 72                                                             | 11335                  |
| 2      | No. of Wards                                                      | 250                                                                                                                                            | 14 (Circles)            | 8                                                              | 258 Wards + 14 Circles |
| 3      | Lifting / Collection of MSW (in %)                                | 100%                                                                                                                                           | 100%                    | 100%                                                           | NA                     |
| 4      | Segregation of MSW at Source (in %)                               | 80-100 % (in 70 Wards)<br>60-80% (in 12 Wards)<br>50-60% (in 47 Wards)<br>40-50% (in 46 Wards)<br>20-40% (in 46 Wards)<br>10-20% (in 29 Wards) | 100 % in all 14 Circles | 95-100% in Model Wards of Civilian Area<br>60-70% in Army Area | NA                     |
| 5      | Existing Capacity of MSW Processing Facilities (Excluding MRFs)   |                                                                                                                                                |                         |                                                                | 7918.175 ( 69.85%)     |
| 6      | MSW Processed including Pit Composting and Excluding MRF (in TPD) | 6590.175 (59.9%)                                                                                                                               | 254 (96.6%)             | 50 (69.4 %)                                                    | 6894.175 (60.82%)      |
| 7      | Recycling through MRF                                             | 253(156 No.) (2.3%)                                                                                                                            | 9 (2 No.) (3.4%)        | 4 (5.5%)<br>(11 No. of 50 TPD Capacity)                        | 266 (2.34%)            |
| 8      | Disposal through Compost Pits                                     | 543 (211 No.) (4.93 %)                                                                                                                         | 16.6 (50 No.) (6.3%)    | Nil                                                            | 559.6 (4.93%)          |
| 9      | Disposal of MSW in Landfill Sites                                 | 4423 (40.2%)                                                                                                                                   | Nil                     | 18 (25%)                                                       | 4441 (39.17%)          |

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

There are 3 Local Bodies in Delhi responsible for implementation of the Solid Waste Management Rules, 2016. Total Municipal Solid Waste generation in Delhi is **11335 Tonnes per day (TPD)**. For proper treatment and disposal of the municipal solid waste, waste segregation is pre-requisite and the local bodies are implementing a detailed plan of waste segregation at source, door to door collection, intermediate storage and transport facility with GPS for the segregated waste.

#### (b) Municipal Solid Waste Processing and Disposal Facilities:

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

### (c) Waste to Energy Plants :

Delhi has 4 Waste to Energy Plants (WTE Plants) of capacity 6550 TPD at 4 different locations in Delhi namely Okhla, Ghazipur, Bawana and Tehkhand. One new Waste to Energy Plant of capacity of 3000 TPD is proposed at Narela-Bawana. Expansion of existing WtE at Okhla from 1950 TPD to 2950 TPD (from 23 to 40 MW Capacity) is proposed. Another Waste to Energy Plant is proposed at Ghazipur of 2000 TPD capacity. Techno Economic Feasibility Report is under preparation for this project. Public Hearing for Expansion of existing WtE at Okhla was held on 16.08.2022 and Proceedings of Public Hearing sent to MoEF&CC on 24.08.2022. After commissioning of abovementioned proposed project, the capacity of WTE Plants will enhance from 6550 TPD to 10550 TPD by August, 2025.

#### Operational Waste to Energy Plants in Delhi

| S. No        | Name of Waste to Energy Plant                                               | Existing Capacity         |                               |
|--------------|-----------------------------------------------------------------------------|---------------------------|-------------------------------|
|              |                                                                             | Waste Processing (in TPD) | Electricity Generation(in MW) |
| 1.           | Timarpur Okhla Waste management Company Ltd., Old NDMC Compost Site, Okhla. | 1950                      | 23                            |
| 2.           | East Delhi Waste Processing Company Ltd., Ghazipur                          | 1300                      | 12                            |
| 3.           | Delhi MSW Solutions Ltd Narela Bawana Road, Bawana                          | 1300                      | 24                            |
| 4.           | Tehkhand Waste to Electricity Project limited, Tehkhand,                    | 2000                      | 25                            |
| <b>Total</b> |                                                                             | <b>6550</b>               | <b>84</b>                     |

### (d) Gap Analysis on Solid Waste Management

| Generation (in TPD)<br>(1) | Total Capacity of Existing MSW Processing Facilities (Excluding MRFs) (in TPD)<br>(2) | Processing + Pit Composting (in TPD)<br>(3) | Gap in Processing Capacity (in TPD)<br>(1) – (2) | Gap in Processing (in TPD)<br>(1) – (3) | Capacity of Proposed Waste Processing Facilities by August, 2025 (in TPD) |
|----------------------------|---------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------|
| 11335                      | 7918.175 (69.8%)                                                                      | 6894.175 (60.82%)                           | 3416.825 (30.2%)                                 | 4440.825 (39.18%)                       | 6452                                                                      |

### (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                 | Narela-Bawana               | MCD        | 3000                                                           | August, 2025                                                                                                         |
| 2      | Waste to Energy Plant Ghazipur     | 1                 | Ghazipur                    | MCD        | 2000                                                           | Techno Economic Feasibility Report is under preparation                                                              |
| 3      | Expansion of existing WtE at Okhla | 1                 | Okhla                       | MCD        | 1000<br>(From 1950 TPD to 2950 TPD)                            | December, 2023<br>(Public Hearing held on 16.08.2022 & Proceedings of Public Hearing sent to MoEF&CC on 24.08.2022). |
| 4.     | Bio CNG Plant                      | 1                 | Okhla                       | MCD        | 300 TPD<br>(From existing compost plant of 200 TPD to 300 TPD) | September, 2023                                                                                                      |
| 5.     | Compressed Bio Gas (CBG) Plant     | 1                 | Ghogha Dairy                | MCD        | 100 TPD                                                        | December, 2023                                                                                                       |
| 6.     | Sorting cum Composter Plants       | 2                 | Kirby Place in Delhi Cantt. | DCB        | 50<br>(2 Plants)                                               | March, 2023                                                                                                          |
| 7.     | Decentralised Composter Plants     | 1                 | Vishwas Nagar &             | MCD        | 1TPD                                                           | March, 2023                                                                                                          |
|        |                                    | 1                 | New Ashok Nagar             |            | 1TPD                                                           |                                                                                                                      |
| 8      | Engineered Sanitary Landfill (SLF) | 1                 | Tehkhand                    | MCD        | -----                                                          | April, 2023                                                                                                          |
|        | <b>Total</b>                       | <b>9+ One SLF</b> |                             |            | <b>6452 TPD</b>                                                |                                                                                                                      |

Note : : 1. Bio-CNG Plants at Nangli Dairy (215 TPD), Goyla Dairy (215 TPD), Ghogha Village Dairy (290 TPD) by June, 2023 mainly for the Waste generated from Dairies.  
2. MRFs of varying capacities of total 110TPD [ viz. Keshavpuram (01), Civil lines (01), South zone (01), Central zone (02), West Zone (01), Najafgarh Zone (02)] are proposed and case is under process for approval.

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

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

#### **Operational Decentralized Waste Processing Facilities :**

[Bio-methanation Plants–10 Nos of 5 TPD each + 6 Nos in NDMC Area, Compost Plants–20 Nos of 1 TPD each, + 27 Organic Waste Composters]

| Sl. No. | Local Body | Composting                                                                                                                                                                                                                                                                                                                          | Bio- methanation Plant                                                  |
|---------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 1.      | DCB        | 1 Sorting Cum Composter of 20 TPD at Tigris Road, 2 Food Waste Composters (OWCs) (0.125 TPD + 0.05 TPD) - Total Capacity - 20.175 TPD                                                                                                                                                                                               | Nil                                                                     |
| 2.      | NDMC       | 10.15 TPD [24 Organic Waste Convertors (OWCs)]                                                                                                                                                                                                                                                                                      | 8.25 TPD<br>(6 Nos)                                                     |
| 2.      | MCD        | <ul style="list-style-type: none"> <li>One Centralised Compost Plant at Okhla (200 TPD) is closed for upgradation into Bio-CNG Plant of 300 TPD</li> <li>One Centralised Compost Plant of 700 TPD within Integrated Waste Complex at Bawana</li> <li>20 Composters of 1 TPD each at various locations (20 TPD)</li> <li></li> </ul> | 50 TPD<br>(10 Nos of 5 TPD each)<br>(Commissioned but not in operation) |

2 Compost plants of 1 TPD each is proposed to be installed at Vishwas Nagar & New Ashok Nagar by March, 2023.

## **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<br>EDMC<br>NDMC*<br>DCB**   | Rs. 65 Crore<br>Rs. 40 Crore<br>Rs. 10 Crore<br>Rs. 10 Crore | Total = 125 Crores |
| ii           | North MCD | NCT Delhi<br>North MCD<br>NDMC<br>DCB | Rs. 35 Crore<br>Rs. 30 Crore<br>Rs. 05 Crore<br>Rs. 05 Crore | Total = 75 Crores  |
| iii          | SDMC      | NCT Delhi<br>SDMC<br>NDMC<br>DCB      | Rs. 25 Crore<br>Rs. 15 Crore<br>Rs. 05 Crore<br>Rs. 05 Crore | Total = 50 Crores  |
| <b>Total</b> |           |                                       |                                                              | <b>250 Crores</b>  |

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                    |
| <b>Total</b> |                                   |                      | <b>449.5 Crore</b>             |

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.”*

**The Status of Bio-Mining of Legacy Waste at 3 Dumpsites at Okhla, Ghazipur & Bhalaswa in Delhi (as on 07.12.2022) 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 02.01.2023) | No. of Trommels Operational | Timeline for 100% remediation                    |
|--------------|----------------------|----------------------------------------------------|-------------------------------------------------------------|-----------------------------|--------------------------------------------------|
| 1            | Ghazipur             | 140 Lakh Ton                                       | 15.21 Lakh Ton (10.86 %)                                    | 14                          | March, 2024                                      |
| 2            | Okhla                | 60 Lakh Ton                                        | 23.06 Lakh Ton (38.43 %)                                    | 7                           | December, 2023 (Earlier timeline was June, 2023) |
| 3            | Bhalaswa             | 80 Lakh Ton                                        | 27.57 Lakh Ton (34.46 %)                                    | 14                          | December, 2023                                   |
| <b>Total</b> |                      | <b>280 Lakh Ton</b>                                | <b>65.84 Lakh Ton (23.51 %)</b>                             | <b>35</b>                   |                                                  |

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

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

No: CEO/IDMC/2022/*D-1556*

Dated: *27/10/2022*

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

**Minutes of the 15<sup>th</sup> Meeting of "Integrated Drain Management Cell" for remediation and drain management of all drains of Delhi, chaired by the Chief Secretary, Govt. of NCT of Delhi on 18.10.2022 constituted on the direction of Hon'ble NGT dated 05.03.2020 OA No 06/2012 in the matter of Manoj Mishra v/s Union of India & others.**

The 15<sup>th</sup> IDMC meeting was held on 18.10.2022 under chairmanship of the Chief Secretary.

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

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

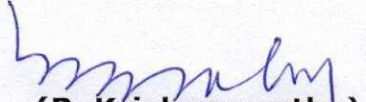
2. The WAPCOS report on the use of treated effluent was discussed. The Chairman, IDMC directed DJB to discuss the issue on Saturday separately in his chamber.
3. DoAs were directed to identify the number of drains along with length of drains that are carrying sewage mixed water. Drains that are carrying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

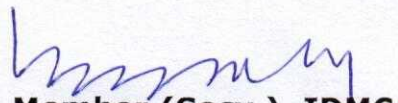
Meeting ended with thanks to the Chair.

**All Concerned**

Copy to:-

1. OSD to CS

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

  
Member (Secy.), IDMC  
2



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

### WATER QUALITY STATUS OF RIVER YAMUNA

REPORT NO: DPCC/W/Y/22-23/5309  
 DATE OF SAMPLING: 08.12.2022

Date: 05/01/2023

| S. No.                                | Locations                                                                               | Latitude<br>Longitude      | pH      | COD<br>(mg/l) | BOD<br>(mg/l)    | DO<br>(mg/l)     | Fecal Coliform<br>MPN/100ml                |
|---------------------------------------|-----------------------------------------------------------------------------------------|----------------------------|---------|---------------|------------------|------------------|--------------------------------------------|
| Water Quality Criteria<br>(‘C’ Class) |                                                                                         |                            | 6.5-8.5 | -             | 3mg/l<br>or less | 5mg/l<br>or more | 500(desirable)<br>2500(max<br>permissible) |
| 1                                     | Palla                                                                                   | 28.8138023,<br>77.2100181  | 7.46    | 37            | 2.2              | 9.4              | $14 \times 10^2$                           |
| 2                                     | Wazirabad                                                                               | 28.7131310,<br>77.2319304  | 7.30    | 53            | 9                | 5.8              | $26 \times 10^2$                           |
| 3                                     | ISBT Bridge                                                                             | 28.6713533,<br>77.2338207  | 7.36    | 176           | 46               | NIL              | $63 \times 10^3$                           |
| 4                                     | ITO Bridge                                                                              | 28.6284288,<br>77.2534977  | 7.24    | 160           | 42               | 0.8              | $26 \times 10^4$                           |
| 5                                     | Nizamudin Bridge                                                                        | 28.5915608,<br>77.2715342  | 7.42    | 184           | 53               | NIL              | $41 \times 10^3$                           |
| 6                                     | Okhla Barrage                                                                           | 77°18’49”<br>28°32’40”     | 7.38    | 240           | 68               | NIL              | $58 \times 10^4$                           |
| 7                                     | Agra Canal at Okhla<br>Barrage                                                          | 28.545414,<br>77.311075    | 7.40    | 200           | 62               | NIL              | $39 \times 10^4$                           |
| 8                                     | River Yamuna at<br>Asgarpur<br>(After confluence of<br>Shahdara &<br>Tuglakabad drains) | 28.4657003,<br>77.33905231 | 7.35    | 256           | 73               | NIL              | $8.1 \times 10^5$                          |

*N. Moitra*

I/C Water Lab

**Dr. Nandita Moitra**  
 Scientist ‘D’



**DELHI POLLUTION CONTROL COMMITTEE**  
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### WATER QUALITY STATUS OF DRAIN

REPORT NO: DPCC/W/D/22-23/5310

Date: 05/01/2023

Date of Sampling: -08.12.2022

| S. No. | Name of Sample                                | pH              | TSS<br>(mg/l) | COD<br>(mg/l) | BOD<br>(mg/l) |
|--------|-----------------------------------------------|-----------------|---------------|---------------|---------------|
|        | <b>Standards</b>                              | <b>5.5- 9.0</b> | <b>100</b>    | <b>250</b>    | <b>30</b>     |
| 1.     | Najafgarh Drain                               | 7.5             | 168           | 384           | 68            |
| 2.     | Metcalf House Drain                           | NO FLOW         | NO FLOW       | NO FLOW       | NO FLOW       |
| 3.     | Khyber Pass Drain                             | NO FLOW         | NO FLOW       | NO FLOW       | NO FLOW       |
| 4.     | Sweeper Colony Drain                          | 7.4             | 136           | 192           | 55            |
| 5.     | Magazine Road Drain                           | NO FLOW         | NO FLOW       | NO FLOW       | NO FLOW       |
| 6.     | ISBT Drain                                    | 7.3             | 156           | 272           | 53            |
| 7.     | Tonga Stand Drain                             | 7.2             | 62            | 80            | 34            |
| 8.     | Civil Mill Drain                              | 7.1             | 120           | 288           | 52            |
| 9.     | Sen Nursing Home Drain                        | 7.4             | 164           | 336           | 62            |
| 10.    | Drain No. 14                                  | 7.0             | 68            | 96            | 36            |
| 11.    | Power House Drain                             | 7.5             | 144           | 224           | 60            |
| 12.    | Indrapuri Drain                               | 7.0             | 160           | 304           | 63            |
| 13.    | Sonia Vihar Drain                             | 7.3             | 200           | 372           | 80            |
| 14.    | Kailash Nagar Drain                           | 7.5             | 152           | 248           | 58            |
| 15.    | Shastri Park Drain                            | 7.1             | 96            | 256           | 57            |
| 16.    | Barapulla Drain                               | 7.3             | 104           | 240           | 50            |
| 17.    | Maharani Bagh Drain                           | 7.4             | 100           | 266           | 54            |
| 18.    | Old Agra Canal Drain                          | 7.2             | 112           | 293           | 65            |
| 19.    | Jaitpur Drain                                 | 7.3             | 128           | 208           | 48            |
| 20.    | Sarita Vihar Pool                             | 7.4             | 88            | 186           | 46            |
| 21.    | Tuglakabad Drain                              | 7.4             | 180           | 400           | 95            |
| 22.    | Drain Near LPG Bottling Plant                 | NO FLOW         | NO FLOW       | NO FLOW       | NO FLOW       |
| 23.    | Drain Near Sarita Vihar Bridge (Mathura Road) | NO FLOW         | NO FLOW       | NO FLOW       | NO FLOW       |
| 24.    | Shahdara Drain                                | 7.3             | 136           | 320           | 67            |
| 25.    | Sahibabad Drain                               | 7.5             | 140           | 346           | 70            |
| 26.    | Molarband Drain                               | 7.1             | 92            | 213           | 50            |
| 27.    | Abul Fazal Drain                              | 7.2             | 124           | 360           | 52            |
| 28.    | Supplementary Drain                           | 7.1             | 116           | 256           | 56            |

*Nandita*

I/C Water Lab

**Dr. Nandita Moltra**  
 Scientist 'D'

| S. No. | Project Area              | Total Site Area (In Ha) | Area repossessed (In Ha) | Area to be repossessed (In Ha) | Eviction Details                                                                                                                  |
|--------|---------------------------|-------------------------|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 1.     | Asita East (DDA)          | 90                      | 90                       | Nil                            | -                                                                                                                                 |
|        | Asita East(UP)            | 107                     | 50.24                    | -                              | 107 Hectares-21 Hectares=86 Hectares (212.42 Acres). 21 Hectares area has Already been transferred to PWD by UP irrigation Deptt. |
| 2.     | Kalindi Aviral            | 100                     | 0.81                     | Nil                            | -                                                                                                                                 |
| 3.     | Kalindi Biodiversity Park | 115                     | 2.50                     | -                              | -                                                                                                                                 |
| 4.     | Asita West                | 200                     | 176.19                   | 5                              | -                                                                                                                                 |
| 5.     | Amrut Biodiversity Park   | 116.25                  | 91.50                    | -                              | -                                                                                                                                 |
| 6.     | Yamuna Vansathali         | 236.5                   | 101.03                   | 5 Hac                          |                                                                                                                                   |
| 7.     | Mayur Nature Park         | 235                     | 23.02                    | Yet to be assessed             | Land Demarcation Issues. Coordination with SDM. GNCTD in progress.                                                                |
| Total  |                           | 1199.75                 | 520.29                   |                                | Regular demolition programmes are being organized to remove the encroachments in time bound manner.                               |

**DETAILS OF CHALLANS FROM THE YEAR 2018-22**

| Sl. No. | Year | Offence                                                                                 | No. of challans | Compensation amount      | Recovery amount       |
|---------|------|-----------------------------------------------------------------------------------------|-----------------|--------------------------|-----------------------|
| 1.      | 2018 | Dumping of malba                                                                        | 1               | Rs.50,000/-              | Nil                   |
| 2.      | 2019 | Dumping of malba, unauthorized parking and garbage dumping in Yamuna River flood plain. | 186             | Rs. 90,40,000/-          | Rs.22,92,500/-        |
| 3.      | 2020 | Dumping of malba and unauthorized parking in Yamuna River flood plain.                  | 54              | Rs.21,30,000/-           | Rs.5,45,000/-         |
| 4.      | 2021 | Dumping of malba and illegal parking in Yamuna River Flood Plain                        | 776             | Rs.1,22,95,000/-         | Rs.17,65,000/-        |
| 5.      | 2022 | Dumping of malba and illegal parking in Yamuna River Flood Plain                        | 1167            | Rs.2,74,80,000/-         | Rs.8,30,000/-         |
|         |      | <b>TOTAL =</b>                                                                          | <b>2184</b>     | <b>Rs. 5,09,95,000/-</b> | <b>Rs.54,32,500/-</b> |

|    | Project                                                                                                                                                                                                        | Area/ Encroached area/Jhuggis                                 | Water bodies Total / Completed   | Timelines (Phase-I)                         | Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | <b>Asita East-</b> (Old Railway Bridge to ITO Barrage -Eastern Bank)<br><br>PART A: Under the jurisdiction of <b>DDA</b> .<br><br>PART B: Under the jurisdiction of <b>UP Irrigation Deptt.</b> (Deposit work) | Total Area- 197 Ha<br><br>PART A: 90 Ha<br><br>PART B:107 Ha. | PART A: 1/1<br><br>PART B: 3/3   | PART-A: Completed<br><br>PART-B: 31.03.2023 | <b>PART A</b> (Phase-I): Completed.<br>Phase-II : i) Signages work in progress.<br>ii) Bio-toilet work completed.<br><br><b>PART B</b> : Present progress is 48%.<br>Work completed are as under:<br>1. Excavation of 3 water bodies.<br>2. Construction of 3 ramps.<br>3. Embankment of 1 parking.<br>Work delayed due to flooding & sludgy site, construction ban by CAQM and earlier work held up due to encroachment which has been removed.                                                                                                                                                                                                                                                              |
| 2. | <b>Kalindi Aviral-</b> (NH24 to DND Flyway- Western Bank)                                                                                                                                                      | 100 Ha                                                        | 3/3                              | Completed                                   | Phase-1 Completed<br><b>Ph-2-</b> 31.03.2023 (Work is affected due to NCRTC work in progress)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3. | <b>Kalindi Biodiversity Park-</b> (DND to proposed Kalindi By-Pass- Western Bank)<br>Entrusted to CEMDE                                                                                                        | 115 Ha                                                        |                                  | Wetland completed in available space.       | Project is being executed by CEDME. (Prof. C R Babu)<br>Wetlands are completed in available space. Further work is held up due to NHAI work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4. | <b>Asita West-</b> (Old Railway Bridge to ITO Barrage- Western Bank)                                                                                                                                           | 200 Ha / 5 Ha/695 Nos.                                        | Part A : 2/2<br><br>Part B : 5/4 | 30/06/2023 (for the balance 107 Ha area)    | <b>Part A:- (Golden Jubilee 93 Ha)</b> (Phase-I): Completed.<br>Phase-II : i) Signages work in progress.<br>ii) Bio-toilet work completed.<br><b>Part B :- (for 107 Ha)</b> Present progress is 80%.<br>Work completed are as under :<br>1. Excavation of 4 water bodies.<br>2. Excavation of 1 oxidation pond.<br>3. 1900m moorum path out of 2500 m<br>4. 3 ramps constructed.<br>5. 1100 m cycle hike zone (cycle track) out of 1200 m<br>Tender for ph-2: i) Signages work awarded.<br>ii) Bio-toilet work awarded.<br>Work and Encroachment removal are delayed due to Court case no. W.P(C) 5214/2018 & Next date of hearing is 22/05/2023 and also work held up due to obstruction by local residents. |

Status of 'Restoration and Rejuvenation of River Yamuna floodplains' as on 31<sup>st</sup> December, 2022

|    |                                                                                                                                                                                          |                                                                                                                    |     |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. | <b>Amrut Bio Diversity Park-</b> ITO to NH-24 (Eastern & Western Bank)- Area South of CWG Village Area                                                                                   | 116.25 Ha / 0.0 Ha / (90 Ha on Eastern Bank & 18 Ha on Western Bank to be done by DDA, 8.25 Ha to be done by CPWD) | 8/6 | 31.03.2023 (for 90 Ha)                                    | For 90 Ha of land: Present progress is 54%.<br>Work completed are as under ( For 90 Ha):<br>1. Excavation of 6 water bodies out of 8.<br>2. 3500 m pedestrian path of 12000m.<br>3. 1 entrance plaza out of 2.<br>Works are delayed due to flooding of site & construction ban by CAQM.                                                                                                                                                              |
| 6. | Wazirabad to Old Railway Bridge- Western Bank<br>Entrusted to INTACH                                                                                                                     | Total Site Area- 66 Ha<br>(QudsiaGhat- 16 Ha, Sur Ghat-13.6 Ha, Eco-trail- 33 Ha, Yamuna Bazaar Area- 3.4 Ha)      | 1/- | 28.02.2023 (for Qudsia Ghat) only for 16 Hact. Land.      | Present progress is 35%.<br><br>The work has been assigned to M/s INTACH on nomination basis for Quadsia Ghat.<br>Pathways & Chatri works in progress.<br><br>Tender for remaining area (50 Ha.) has been re-called.                                                                                                                                                                                                                                 |
| 7. | <b>Yamuna Vanasthali-</b> (Wazirabad Barrage to ISBT Bridge- Eastern Bank, around GarhiManduVillage &Usmanpur Village)                                                                   | 236.5 Ha / 5 Ha /100Nos.                                                                                           | 7/6 | 31.05.2023                                                | Present progress is 82%.<br>Work completed are as under (for 236.5 Ha):<br>1. Excavation of 6 water bodies 70% pedestrian path completed<br>Work are delayed due to flooding of site & construction ban by CAQM & pending court cases.<br>Court Cases: 1) WP(C) 7542/ 2017; NDOH- 07/01/2023, 2) WP(C) 7135/2019; NDOH- 04/07/2023                                                                                                                   |
| 8. | <b>Mayur Nature Park-</b> (NH-24 to DND Flyway- Eastern Bank)<br><br>PART A: Under the jurisdiction of <b>DDA</b> .<br><br>PART B: Under the jurisdiction of <b>UP Irrigation Deptt.</b> | Total Area- 397.75 Ha<br><br>PART A: 235 Ha<br><br>PART B: 162.75 Ha                                               |     | -----                                                     | <b>Issues:</b><br>i. The land demarcation is in-progress with Revenue Department. The work is being delayed due to farmer agitation, 222 nos of posts fixed out of 290.<br>ii. LM Department informed that approximately 100 Ha of land has been de-notified out of the total 235 Ha.<br>iii. Accordingly, the landscape plan also needs to be reworked.<br><br>The work of UP Irrigation land of 162.75 Ha is to be taken up on deposit work basis. |
| 9. | <b>Eco-Tourism Area-</b> (Geeta Colony Bridge to ITO Barrage- Western Bank)                                                                                                              | 30 Ha/3.33 Ha/32 Nos.<br>(14 Ha land is with IPGCL)                                                                |     | Land department has been requested to take back the land. | Area falls outside 1 in 25 year floodplain.<br>The land is yet to be retrieved. Only 9.6 Ha of the land is currently available for development.                                                                                                                                                                                                                                                                                                      |

Status of 'Restoration and Rejuvenation of River Yamuna floodplains' as on 31<sup>st</sup> December, 2022

|     |                                                                                                                                                                                                                                                                  |                                                                                                  |       |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. | <p><b>Hindan Sarovar-</b> (NH-24 to DND Flyway- Eastern Bank)<br/> Part Area-II-<b>Hindon Cut Wetlands I&amp;II</b><br/> PART A: Under the jurisdiction of <b>DDA</b>.<br/><br/> PART B:Under the jurisdiction of <b>UP Irrigation Deptt.</b> (Deposit work)</p> | <p>Total Site Area- 45 Ha</p> <p>PART A: 15 Ha</p> <p>PART B:30 Ha</p>                           |       | <p><b>PART A: -</b></p> <p><b>PART B:-</b></p> | <p>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</p> <p>The land demarcation is to be done by LM Deptt. &amp; Revenue Department.<br/> Accordingly, the landscape plan also needs to be reworked.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|     | <b>Total</b>                                                                                                                                                                                                                                                     | <p>DDA- 1203.75 Ha / 13.33 Ha/ 827 Nos.<br/> <u>UP Irrig.-299.75Ha</u><br/> <u>1503.5 Ha</u></p> | 30/25 |                                                | <p>(a) Completed DDA = 283 Ha<br/> (b) In progress DDA = 640.75 Ha<br/> <u>UP Irrig. = 107 Ha.</u><br/> <u>= 747.75 Ha</u></p> <p>(c) In planning DDA= 280Ha<br/> <u>UP= 192.75 Ha</u><br/> <u>= 472.75 Ha</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|     | Protection and management of Flood Plain Zone(FPZ)                                                                                                                                                                                                               |                                                                                                  |       |                                                | <p><b>Protection of flood plain of Yamuna river &amp; prevention of encroachment:</b></p> <p><b>1. Demarcation of 1 in 25 years floodplains and fixing up of bollards and fencing:</b><br/> The demarcation of 1 in 25 years flood plain of River Yamuna fromWazirabad to Jaitpur on both banks has been done by installation of bollards duly marked with GPS Co-ordinates. The Flood plains stretch have been demarcated by providing 591 bollards (250 mm dia, 1 m high with 1x1x1 footing);375 nos. Flag post &amp; 27 nos. sign boards.</p> <p><b>2. Engagement of Private Security to stop illegal Dumping:</b><br/> Private security has been engaged by DDA to stop illegal dumping,125 Nos. of security guards have been deployed by DDA.</p> <p><b>3. Installation of Electronic Surveillance System:</b><br/> 93 nos cameras have been installed at 27 no locations from Wazirabad Barrage to Okhla Barrage to check illegal dumping of malba into flood plains area.</p> <p><b>4. Removal of Encroachment from Flood Plain:</b><br/> Regular demolition programmes are being organized to remove the encroachments in time bound manner.</p> |

\* The area under the jurisdiction of UP Irrigation Department are additional to the total site area under the jurisdiction of DDA in all the above 10 projects.