

L-25012(11)/10/LME/NMCG
National Mission for Clean Ganga
Department of WR, RD&GR
Ministry of Jal Shakti

Major Dhyanchand National Stadium
Near India Gate, New Delhi
Date: 22.03.2024

Subject: - Report in the matter of OA No. 183/2024 titled "Why 75 % of Delhi's STPs aren't ready to tackle Yamuna stink"

Sir,

This is with reference to the above matter before the Hon'ble NGT. The report on behalf of the NMCG is attached herewith. The same may kindly be placed before the Hon'ble NGT for consideration.

2. This issues with the approval of the competent authority.

Encl: As above

Your faithfully


Anup Kumar Srivastava
Executive Director (Tech)

To
The Registrar,
Hon'ble National Green Tribunal(PB), Copernicus Marg, New Delhi

Copy for information to:

- (1) PPS to the Secretary, DoWR, RD&GR, Ministry of Jal Shakti, Shram Shakti Bhawan, New Delhi.
- (2) PS to the DG, NMCG

L-25012(11)/10/LME/NMCG
National Mission for Clean Ganga
DoWR, RD&GR
Ministry of Jal Shakti

Subject: Report in the matter of OA No. 183/2024 titled "Why 75 % of Delhi's STPs aren't ready to tackle Yamuna stink"

**

In the aforesaid subject matter, the Hon'ble NGT has taken cognizance of the News Item regarding issues involving non-compliance of the norms pertaining to Sewage Treatment Plants (STPs), installed by the Delhi Jal Board along the river Yamuna.

2. The Hon'ble NGT has directed the CPCB for furnishing information related to each STP, including the details of utilization of treated sewage and timelines set for ensuring treatment of entire sewage generated in Delhi. Vide order dated 23.02.2024 the Hon'ble NGT has impleaded the National Mission for Clean Ganga (NMCG) as one of the respondents.

3. In the above context, it is humbly submitted that the Government of NCT Delhi had submitted a monthly progress report, for the month of December, 2023, before the Central Monitoring Committee (CMC), constituted under the Chairmanship of the Secretary, DoWR, RD&GR, Ministry of Jal Shakti [in the matter of OA 673/2018]. In the said report, the details of the STPs and the status thereof is indicated. A relevant extract from the copy of the report is attached. **Annexure-I**. Such reports received from various State Governments are routinely reviewed by CMC from time to time. Last meeting of the CMC was held on 11.01.2024.

4. Further it is submitted that NMCG vide letter dated 19.03.2024 has sought the details of the Non-compliant STPs from the Delhi Jal Board (**Annexure-II**). NMCG has provided financial assistance for STP projects (including rehabilitation & new) in Delhi at Coronation Pillar (new STP), Rithala Phase -I, Kondli Phase- I,II,III and Okhla (new STP) under Namami Gange. All these STP projects have provision for treatment of Fecal Coliform and disinfection as per the required standards. Delhi Jal Board being the executing agency for these projects, have been directed to ensure compliance of these STPs. DJB has also been requested that the matter of non-compliance of the STPs may be taken up in the High Level Committee (HLC), constituted under the Chairmanship of the Chief Secretary, Govt. of NCT Delhi in the matter of OA no. 21/2023.

Anup Kumar Srivastava
Executive Director (Tech)



F. No. DPCC/WMC-II/MPR/OA 673/2020/162-164

Dated: 24.01.2024

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, 2023 w.r.t Orders Dated 06.12.2019, 29.06.2020, 21.09.2020 & 22.02.2021 in OA No. 673 / 2018 in the matter of News item published in ‘The Hindu’ Authored by Shri Jacob Khoshy Titled “More river stretches are now critically polluted: CPCB”

Sir,

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

1st Monthly Progress Report of Govt. of NCT of Delhi was submitted vide letter dated 14.02.2020 & last Monthly Progress Report for the month of November, 2023 was submitted vide letter dated 13.12.2023.

Yours Sincerely,

Enclosures: As Above


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

Copy to:

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


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

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

For the State of NCT of Delhi

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

Overall Status of the State:

I. Total Population: Urban Population & Rural Population separately

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

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

III. Details of Sewage Treatment Plant:

- Existing No. of Operational STPs of DJB : 37 STPs (at 20 Locations)
- Installed Treatment Capacity of 37 Operational STPs : **3033 MLD (667 MGD)**
(84.2% of estimated sewage generation)
 - Capacity Utilization of existing STPs : **2587 MLD (565 MGD December, 2023)**
(84.71 % of Treatment Capacity)
- MLD of sewage being treated through Alternate technology : Nil

• Gap in Treatment Capacity	: 568.3 MLD (125 MGD) [792 – 667 MGD] (15.8 %)
• Gap in Treatment	: 1032 MLD (227 MGD) [792 – 565 MGD] (28.7 %)
• No. of Operational STPs	: 37 (Refer Annexure-1)
• No. of Complying STPs	: 15 w.r.t. Standards prescribed by DPCC (BOD/TSS: 10/10 mg/l) 36 [w.r.t. Design Parameter] (Samples could be taken by DPCC Lab from only 36 STPs since no flow was observed in Coronation Pillar Ph -III STP at the time of sampling)
• No. of Non-complying STPs	: 21 (Letters are issued regularly to DJB for taking rectification measures to meet the prescribed standards).
Following 10 STPs (Total 185 MGD Capacity) are designed for BOD : TSS 10 :10 mg/l	
1. Pappankalan Phase II (20 MGD) 2. Nilothi Phase II (20 MGD) 3. Delhi Gate Phase II (15 MGD) 4. Kapashera (5 MGD) 5. Chilla (9MGD) 6.Common Wealth Games Village (1 MGD) 7. Coronation Pillar New STP (70 MGD) 8. Kondli STP Phase-I (10 MGD) 9. Kondli STP Phase-II (25 MGD) 10. Kondli STP Phase-III (10 MGD)	
Standards prescribed by DPCC for STPs of DJB in Delhi as per the directions of CPCB (More Stringent than prescribed by MoEF&CC) :	
(i) pH - 6.5 - 9.0 (ii) TSS ≤ 10 mg/l (iii) BOD ≤ 10 mg/l (iv) COD ≤ 50 mg/l (v) Ammonical Nitrogen ≤ 5mg/l (vi) Total Nitrogen (N-Total) ≤ 10 mg/l (vii) Phosphate (PO ₄ - P) ≤ 2 mg/l (viii) Fecal Coliform(FC) (MPN/100ml) < 230	

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

S. No.	Name of STP	Capacity (in MGD)	Existing STP Capacity (in MLD)	Capacity Being Utilized (in MLD)	Capacity Being Utilized (in MGD)	Design Parameters BOD/TSS (in mg/l)	Date of Sampling	Brief of Analysis Reports (Compliance status) [Prescribed Standards by DPCC : pH 6.5 - 9.0, TSS ≤ 10 mg/l, BOD ≤ 10 mg/l, COD ≤ 50 mg/l, Ammonical Nitrogen ≤ 5mg/l, Total Nitrogen (N-Total) ≤ 10 mg/l Phosphate (PO ₄ - P) ≤ 2 mg/l, Fecal Coliform (FC) (MPN / 100ml) < 230]	Compliance w.r.t. Design parameter
1.	Mehrauli	5	22.73	25.51	5.61	20/30	16.12.2023	Not Meeting the prescribed standards in respect of TSS (26 mg/l) and BOD (19 mg/l).	Yes
2.	Okhla, Phase -II	12	54.55	75.96	16.71	30/50	13.12.2023	Not Meeting the prescribed standards in respect of TSS (26 mg/l) and BOD (12 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
3.	Okhla Phase -III	37	168.20	175.2	38.54	30/50	13.12.2023	Not Meeting the prescribed standards in respect of TSS (26 mg/l), BOD (17 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
4.	Okhla Phase -IV	45	204.57	225.4	49.58	30/50	13.12.2023	Not Meeting the prescribed standards in respect of TSS (34 mg/l), BOD (21 mg/l), COD (64 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
5.	Okhla Phase -V	16	72.73	72.8	16.01	30/50	13.12.2023	Meeting the prescribed standards.	Yes
6.	Okhla Phase -VI	30	136.38	142.58	31.36	20/30	13.12.2023	Meeting the prescribed standards.	Yes
7.	Molar Band	0.66	03	2.54	0.56	30/50	13.12.2023	Not Meeting the prescribed standards in respect of TSS (30 mg/l), BOD (21 mg/l) and COD (64 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
8.	Sen Nursing Home Nallah	2.2	10	11.89	2.62	10/15	13.12.2023	Meeting the prescribed standards.	Yes
9.	Vasant Kunj (Old) Phase-I	2.2	10	7.50	1.65	30/50	16.12.2023	Not Meeting the prescribed standards in respect of TSS (20 mg/l), BOD (17 mg/l), COD (56 mg/l) and Dissolved Phosphate as P (2.4 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes
10.	Vasant Kunj (New) Phase-II	3	13.64	7.66	1.68	30/50	16.12.2023	Not Meeting the prescribed standards in respect of TSS (26 mg/l) and BOD (19 mg/l). However meeting the Design Parameters (BOD/TSS: 30/50).	Yes
11.	Ghitorni	5	22.73	11.44	2.52	30/50	16.12.2023	Not Meeting the prescribed standards in respect of TSS (28 mg/l), BOD (14 mg/l). However meeting the Design Parameters (BOD/TSS:30/50).	Yes



Brief of Analysis Reports (Compliance Status) in respect of Functional STPs of Delhi Jal Board for the month December, 2023

Annexure-1

	Delhi Gate Nallah(Old) Phase-I	2.2	10	11.35		10/15	13.12.2023	Meeting the prescribed standards.	Yes
12.	Delhi Gate Nallah(Old) Phase-I	2.2	10	11.35	2.50	10/10	13.12.2023	Meeting the prescribed standards.	Yes
13.	Delhi Gate Nallah (New) Phase-II	15	68.20	75.36	16.58	10/10	13.12.2023	Meeting the prescribed standards.	Yes
14.	Kondli Phase - I	10	45.46	45.4	9.99	10/10	13.12.2023	Meeting the prescribed standards.	Yes
15.	Kondli Phase - II	25	113.65	112	24.64	10/10	13.12.2023	Meeting the prescribed standards.	Yes
16.	Kondli Phase - III	10	45.46	45.4	9.99	10/10	13.12.2023	Meeting the prescribed standards.	Yes
17.	Kondli Phase - IV	45	204.57	119.6	26.31	20/30	13.12.2023	Not Meeting the prescribed standards in respect of TSS (30 mg/l), COD (88 mg/l) and BOD (16 mg/l). Meeting the prescribed standards.	Yes
18.	Chilla	9	40.91	38	8.36	10/10	13.12.2023	Meeting the prescribed standards.	Yes
19.	Yamuna Vihar Phase-I	10	45.46	43.4	9.55	30/50	07.12.2023	Not Meeting the prescribed standards in respect of TSS (22 mg/l) and BOD (12 mg/l). However meeting the Design Parameters (BOD/TSS: 30/50).	Yes
20.	Yamuna Vihar Phase-II	10	45.46	38.89	8.55	30/50	07.12.2023	Not Meeting the prescribed standards in respect of TSS (14 mg/l), BOD (11 mg/l) and Dissolved Phosphate (7 mg/l). However meeting the Design Parameters (BOD/TSS: 30/50).	Yes
21.	Yamuna Vihar Phase - III	25	113.65	111.22	24.47	20/30	07.12.2023	Not Meeting the prescribed standards in respect of TSS (28 mg/l) and BOD (16 mg/l). However meeting the Design Parameters (BOD/TSS: 20/30).	Yes
22.	Akshardham / Common Wealth Games Village	1	4.55	0.22	0.05	02/01	13.12.2023	Meeting the prescribed standards.	Yes
23.	Coronation Pillar Phase- I&II	20	90.92	45.9	10.10	30/50	14.12.2023	Not Meeting the prescribed standards in respect of TSS (34 mg/l), BOD (23 mg/l) and COD (68 mg/l). However meeting the Design Parameters (BOD/TSS: 30/50).	Yes
24.	Coronation Pillar Phase- III	10	45.46	9.08	2.00	30/50	-	No flow observed at the time of sampling by DPCC.	-
25.	New Coronation Pillar	70	318.22	288.56	63.48	10/10	14.12.2023	Meeting the prescribed standards.	Yes
26.	Narela	10	45.46	14.16	3.11	30/50	18.12.2023	Not Meeting the prescribed standards in respect of TSS (28 mg/l), BOD (14 mg/l) and COD (52 mg/l).	Yes

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

27.	Rihala Phase -II	40	181.84	168.4	37.04	15/20	18.12.2023	However meeting the Design Parameters (BOD/TSS: 30/50). Meeting the prescribed standards.	Yes
28.	Rohini	15	68.19	39.95	8.79	30/50	18.12.2023	Not Meeting the prescribed standards in respect of TSS (24 mg/l), BOD (12 mg/l), COD (52 mg/l). However meeting the Design Parameters (BOD/TSS: 30/50).	Yes
29.	Keshopur Phase - I (New)	12	54.55	44.56	9.80	20/30	14.12.2023	Not Meeting the prescribed standards in respect of TSS (22 mg/l) and BOD (14 mg/l) & COD (52 mg/l). However meeting the Design Parameters (BOD/TSS: 20/30).	Yes
30.	Keshopur Phase-II	20	90.92	48.9	10.76	30/50	14.12.2023	Not Meeting the prescribed standards in respect of TSS (28 mg/l) and BOD (13 mg/l). However meeting the Design Parameters (BOD/TSS: 30/50).	Yes
31.	Keshopur Phase -III	40	181.84	154.88	34.07	30/50	14.12.2023	Not Meeting the prescribed standards in respect of TSS (32 mg/l), BOD (20 mg/l) and COD (56 mg/l). However meeting the Design Parameters (BOD/TSS: 30/50).	Yes
32.	Nilothi Phase-I	40	181.84	92.88	20.43	30/50	15.12.2023	Not Meeting the prescribed standards in respect of TSS (22 mg/l), BOD (14 mg/l) and COD (56 mg/l). However meeting the Design Parameters (BOD/TSS: 30/50).	Yes
33.	Nilothi Phase-II	20	90.92	90.8	19.97	10/10	15.12.2023	Meeting the prescribed standards.	Yes
34.	Pappankalan Phase - I	20	90.92	42.2	9.28	30/50	15.12.2023	Not Meeting the prescribed standards in respect of TSS (34 mg/l), BOD (19 mg/l), COD (92 mg/l) and Dissolved Phosphate as P (2.5 mg/l). However meeting the Design Parameters (BOD/TSS: 30/50).	Yes
35.	Pappankalan Phase - II	20	90.92	90.8	19.97	10/10	15.12.2023	Meeting the prescribed standards.	Yes
36.	Najatgarh	5	22.73	12.66	2.78	30/50	15.12.2023	Not Meeting the prescribed standards in respect of TSS (28 mg/l), COD (72 mg/l) and BOD (16 mg/l). However meeting the Design Parameters (BOD/TSS: 30/50).	Yes
37.	Kapashera	5	22.73	22.4	4.93	10/10	16.12.2023	Meeting the prescribed standards.	Yes
	Total	667.26 MGD	3033.36 MLD	2565.45 MLD	564.33 MGD				

Note :

1. As per the Analysis Reports of DPCC Laboratory for December, 2023, out of 37 operational STPs of DJB, Samples could be taken from only 36 STPs. 15 STPs were found complying with the standards prescribed by DPCC.

2. Out of 36 STPs, 36 STPs were found Complying w.r.t. Design parameters (BOD/TSS).

No. L-25012(11)/10/2024-LME NMCG/

Date: 19th March, 2024

To,
Chief Executive Officer
Delhi Jal Board,
Varunalaya Complex (Phase-II),
Karol Bagh, New Delhi-110005

Subject: Regarding Non-Compliance of the STPs in Delhi

Sir,

1. Kindly refer to the NGT order dated 23.02.2024 in the matter OA No 183 of 2024, wherein it is highlighted that STPs installed by DJB are not functioning as per norms. It is alleged that about 75% of STPs have no or insufficient disinfecting equipment's. Hence, outlets of STPs are having high coliform and fecal coliform counts.
2. Further, as per the report dated 06.12.2023 submitted by CPCB to Hon'ble NGT in the matter OA No 06 of 2012, out of the 8 STPs monitored in Delhi by CPCB during November-December 2023, only 2 STPs (Kondli Phase I and Pappankalan Phase II) were observed to be complying with the Fecal Coliform.
Subsequently, as per the report dated 12.02.2024 submitted by CPCB to Hon'ble NGT in the matter OA No 06 of 2012, out of the 19 STPs monitored in Delhi by CPCB during December 2023-January 2024, only 3 STPs (Delhi Gate STP Phase-II, Keshopur Phase-III, Okhla Phase-VI) were observed to be complying with the Fecal Coliform.
3. It is to mention that NMCG has provided financial assistance for STP projects in Delhi at Coronation Pillar, Rithala, Kondli and Okhla under Namami Gange. All these STP projects have provision for treatment of Fecal Coliform and disinfection as per the required standards. Delhi Jal Board being the executing agency for these projects may ensure that all these STP projects are complying with the standard. Any issue with compliance may be reported to NMCG.
4. Further, DJB to take necessary measures for ensuring compliance of the remaining STPs in Delhi.

5. The issue of non-compliance of the STPs in Delhi with regard to Fecal Coliform parameter may be taken up for discussion in the next meeting of High Level Committee (HLC) under the Chairmanship of Chief Secretary, GNCTD.

Yours faithfully,


19.03.24
(Dr. Pravin Kumar)
Director-Technical, NMCG

Copy To:

1. Member Secretary, Delhi Pollution Control Committee, Government of N.C.T.
Delhi, 4th Floor, ISBT Building, Kashmere Gate, Delhi-110006

Copy for kind information:

1. PS to DG, NMCG
2. PS to ED(Technical), NMCG