BEFORE THE NATIONAL GREEN TRIBUNAL

PRINCIPAL BENCH, NEW DELHI

Original Application No. 183/2024

IN THE MATTER OF

News Item titled "Why 75 % of Delhi's STPs aren't ready to tackle Yamuna stink" appearing in The Times of India dated 19.02.2024.

INDEX

THROUGH

NEW DELHI

DATE29.01.2025

Sh. Bhupesh Kumar
Chief Engineer(SDW)
Delhi Jal Board

BHUPESH KUMAR
CHIEF ENGINEER (SDW)
Delhi Jal Board
(Govt. of NCT of Delhi)
Varunalaya Phase-II, Karol Bagh
New Delhi-110005

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News Item titled "Why 75 % of Delhi's STPs aren't ready to tackle Yamuna stink" appearing in The Times of India dated 19.02.2024.

STATUS REPORT ON BEHALF OF DELHI JAL BOARD (DJB) IN COMPLIANCE OF ORDER DATED 22.11.2024

MOST RESPECTFULLY SHOWETH:

1. That the present Status Report is being filed on the behalf of Delhi Jal Board (DJB) in compliance of order dated 22.11.2024. The order dated 22.11.2024 is annexed herein as Annexure-A.
2. That it is humbly submitted that Details of capacity utilization of installed Sewage treatment Plants (STPs) disinfection units in STPs and utilization of treated water in Delhi as per Hon'ble NGT order dated 22.11.24 in the matter of OA No. 183 0f 2024 new Item titled "Why 75% of Delhi STPs aren't ready to tackle Yamuna Stink" appearing in The Times of India dated 19.02.24" are annexed herein as Annexure-B.
3. That DJB humbly submits that there are 24 number of STP which are meeting the prescribed standards given by DPCC. Further, the status of remaining STPs i.e. 13 in number are at the stage of up gradation.
4. Additionally, the status of disinfection system in STPs & proposed action plan. for installation and upgradation of disinfection system
5. That the status of optimal utilization of underutilized or over utilized STPs are hereunder:

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Almost full utilization	23	
Plant is under stabilization	4	
Plant is under upgradation	5	
Plant under utilization	5	
Total	37 Nos.	

6. That the status of the utilization of STP treated water and proposed action plan for utilization of STP treated water in Delhi is tabulated at Point No. 4 in Annexure-B.

7. The report is being submitted herein for perusal and consideration of this Hon'ble Tribunal.

8. It is further undertaken that Delhi Jal Board shall remain duty bound by any direction or order by this Hon'ble Tribunal as and when directed.

THROUGH

NEW DELHI

DATE: 29.01.2025

Sh. Bhupesh Kumar
Chief Engineer(SDW)
Delhi Jal Board

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Annexure- A

Item No. 14 Court No. 1

BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

Original Application No. 183/2024

News Item titled "Why 75 % of Delhi's STPs aren't ready to tackle Yamuna stink" appearing in The Times of India dated 19.02.2024

Date of hearing: 22.11.2024

CORAM: HON'BLE MR. JUSTICE PRAKASH SHRIVASTAVA, CHAIRPERSON
HON'BLE MR. JUSTICE ARUN KUMAR TYAGI, JUDICIAL MEMBER
HON'BLE DR. A. SENTHIL VEL, EXPERT MEMBER

Respondent: Ms. Shaima Masood, proxy counsel for Mr. Amit Singh Chauhan, Adv. for CPCB (Through VC)
Ms. Richa Kapoor & Ms. Atika Singh, Advs. for Delhi Jal Board
Mr. Paritosh Anil, Adv. for MoEF & CC

ORDER

1. In this original application, Tribunal is examining the issue of improper performance of Sewage Treatment Plants (STPs) installed by Delhi Jal Board (DJB) along the river Yamuna.

2. Central Pollution Control Board (CPCB) has filed the report dated 21.11.2024 disclosing the status of generation and utilization of sewage in Delhi as under:

" a. Regarding treatment of entire sewage generated in Delhi

- *The estimated sewage generation in Delhi is 792 MGD. The current installed capacity of STPs in Delhi is 712 MGD whereas the actual utilisation of sewage treatment installed capacity is 604.18 MGD in Delhi.*
- *The installed capacity of STPs in Delhi is expected to be 814 MGD by December, 2024.*
- *18 Nos. of STPs having total capacity of 375.4 MGD are working on designed parameters of BOD (10mg/L) & TSS (10 mg/L).*
- *22 Nos. of STPs having total capacity of 497.16 MGD are being upgraded/new constructed on designed parameters of BOD (10mg/L) & TSS (10 mg/L). 375.4 MGD expected to be upgraded by December, 2024 and remaining STPs having capacity of 62.66 MGD is under proposal stage.*

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- *40 Nos. of Decentralised STPs having capacity of 92 MGD are also proposed in catchment of Najafgarh drain.*

b. Regarding treatment of entire sewage generated in Delhi

- *The existing utilization of the treated sewage is 92.32 MGD. Currently, the treated sewage is used for the following purposes:*

Horticulture & Irrigation	*= 81 MGD*
Power Production (cooling towers)	*= 10 MGD*
Others	*= 01 MGD*

- *Further, DJB has proposed action plan for the utilization of 114.5 MGD of treated sewage in the following purposes:*

Lake	*- 95.5 MGD*
Farm Houses	*- 15 MGD*
Others	*- 4 MGD"*

3. We have simultaneously examined the reports filed on 05.08.2024 by CPCB disclosing the performance of 38 STPs and the action taken report filed by CPCB on 21.11.2024 and found the following deficiencies, which should be rectified expeditiously by DJB or the executing agency operating it and CPCB to clarify the following observations/ deficiencies:

(i) Out of 38 monitored STPs, only two (Coronation Pillar New and Kondli- Phase-I) are complying with the standards of fecal coliform counts, hence, it needs to be considered why disinfection systems cannot be either upgraded or installed urgently.

(ii) Some of the STPs are under-utilised (Coronation Pillar Phase I & II, Coronation Pillar Phase III, Coronation Pillar New, Ghitorni, Keshopur, Kondili Phase-IV, Najafgarh, Narela, Nilothi Phase-I, Pappan Kalan Phase-I, Rohni and Yamuna Vihar Phase-II and others are over utilized (Delhi Gate Phase-I, Delhi Gate Phase II, Kapashera, Kondli Phase-I, Mehrauli, Pappan Kalan

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Phase-II and Yamuna Vihar Phase III) therefore CPCB should comment on how such STPs can function as per designed standards.

(iii) We find that treated waste water from STPs are discharged into drains which is about 2,483.98 MLD. Emphasis should be given to utilising treated waste water for non-contract purposes rather than discharging them into drains or river. An action regarding for utilization of treated water be provided.

4. DJB has also filed a very short status report dated 21.11.2024 stating that all the 38 STPs of DJB are functioning on the designed parameter.

5. The report of the DJB also does not disclose the analysis report of the treated effluents of STP in reference to the fecal coliform.

6. Hence, we direct CPCB and DJB to file further reports within two weeks keeping in view the observations made above. In the report they will also explain the reason for under utilization of STP.

7. List on 19.12.2024.

Prakash Shrivastava, CP

Arun Kumar Tyagi, JM

Dr. A. Senthil Vel, EM

November 22, 2024
Original Application No. 183/2024
JG.

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Annexure-B

1. Status of capacity utilization of STP

SN	STP which are compliance the DPCC norms.	Capacity in MGD	Last 7day average treatment in MGD	Upgraded Capacity in MGD	Timeline for full utilization
1	Kondli Ph-I	10	9.87	10	Almost full utilization
2	Kondli Ph-III	10	10.07	10	Almost full utilization
3	Kondli Ph-IV	45	44.75	45	Almost full utilization
4	Chilla	9	9.12	0	Almost full utilization
5	Yamuna Vihar Ph-II	15	14.60	15	Almost full utilization
6	Rithala Ph-I	40	33.59	40	Almost full utilization
7	Rithala Ph-II	40	37.77	40	Almost full utilization
8	Kapashera	5	4.99	0	Almost full utilization
9	Pappankalan Ph-II	20	22.43	0	Almost full utilization
10	Nilothi Ph-II	20	19.97	0	Almost full utilization
11	CWG	1	0.11	0	Less raw sewage received from area
12	Okhla Ph-VI	30	25.74	30	Almost full utilization
13	SNH drain	2.2	2.54	0	Almost full utilization
14	Delhi gate Ph-I	2.2	2.54	0	Almost full utilization
15	Delhi gate Ph-II	15	15.08	0	Almost full utilization
16	Okhla Ph-V	16	14.08	0	Almost full utilization
17	Najafgarh	5	5.06	5	Almost full utilization
18	Keshopur Ph-II	20	20	20	Almost full utilization
19	Yamuna Vihar Ph-I	10	10.14	0	Almost full utilization
20	Yamuna Vihar Ph-III	25	27.41	0	Almost full utilization
21	Keshopur Ph-I	12	12.76	0	Almost full utilization
22	Mehrauli	5	5.05	0	Almost full utilization
23	Kondli Ph-II	25	20.19	25	Almost full utilization
24	Narela	10	11.95	15	At present plant is under trial run and less flow received from the area. Unauthorizes colonies flow yet to be connected of Narela & Kurani Group of colonies.
25	Rohini	15	19.19	25	At present plant is under trial run and less flow received from the area. Unauthorizes colonies flow yet to be received from Kirari/ Begumpur/ Shahbad Daulatpur Group of colonies.
26	Okhla New	124	86.15	0	At present plant is under trial run & likely to be full utilization after commissioning of Batla House SPS by 31.12.25
27	Soniya Vihar New	7	1	0	At present plant is under trial run and less flow received from the

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					area and unauthorizes colonies flow yet to be connected of Soniya Vihar Group of colonies.
28	Vasant Kunj Ph-I	2.2	1.61	0	Less raw sewage received from area
29	Vasant Kunj Ph-II	3	1.53	0	Less raw sewage received from area
30	Ghitorni	5	2.34	0	Less raw sewage received from area
31	Molar band	0.66	0.54	0	Almost full utilization
32	Keshopur Ph-III	40	31.63	60	Plant is under upgradation / capacity augmentation & likely to be complete by 31.03.25
33	Pappankalan Ph-I	20	15.23	30	Plant is under upgradation / capacity augmentation & likely to be complete by 30.06.25
34	Nilothi Ph-I	40	20.64	60	
35	Coronation Pillar Ph-III	10	6.50	10	Plant is under upgradation / capacity augmentation & likely to be complete by 31.03.25, however no flow from Burari ISP & unauthorised colonies sewerage network from command area & likely to be received 31.12.25
36	Coronation Pillar Ph-II	20	4	20	
37	Coronation new	70	30.55	0	No flow from Burari ISP & unauthorised colonies sewerage network from command area & likely to be received 31.12.25

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2. Status of disinfection unit at STPs.

SN	STP which are being compliance the DPCC norms.	Capacity in MGD	Status of disinfection system
1	Kondli Ph-I	10	Disinfection through Chlorination
2	Kondli Ph-II	25	Disinfection through Chlorination
3	Kondli Ph-III	10	Disinfection through Chlorination
4	Kondli Ph-IV	45	Disinfection through UV system
5	Yamuna Vihar Ph-II	15	Disinfection through UV system
6	Coronation new	70	Disinfection through Chlorination
7	Rithala Ph-I	40	Disinfection through Chlorination
8	Rithala Ph-II	40	Disinfection through UV system
9	Pappankalan Ph-II	20	Disinfection through Chlorination
10	Nilothi Ph-II	20	Disinfection through Chlorination
11	Okhla Ph-VI	30	Disinfection through Chlorination
12	Okhla New	124	Disinfection through UV system
13	Soniya Vihar New	7	Disinfection through UV system
14	Rohini	15	Disinfection through UV system
15	Narela	10	Disinfection through UV system
16	Najafgarh	5	Disinfection through UV system
17	Coronation Pillar Ph-III	10	Disinfection through UV system
18	Chilla	9	Not installed, but compliance <230 MPN
19	Kapashera	5	Disinfection through UV system
20	CWG	1	Disinfection through Chlorination
21	SNH drain	2.2	Not installed, but compliance <230 MPN
22	Delhi gate Ph-I	2.2	Not installed, but compliance <230 MPN
23	Delhi gate Ph-II	15	Disinfection through Chlorination
24	Okhla Ph-V	16	Not installed, but compliance <230 MPN
25	Coronation Pillar Ph-II	10	Installation of UV disinfection is in progress and likely to be completed by March-25
26	Keshopur Ph-II	20	-do-
27	Keshopur Ph-III	40	-do-
28	Pappankalan Ph-I	20	Installation of UV disinfection is in progress and likely to be completed by June-25
29	Nilothi Ph-I	40	
30	Yamuna Vihar Ph-I	10	Proposal for installation of disinfection is in progress and shall be completed by June-26
31	Yamuna Vihar Ph-III	25	
32	Keshopur Ph-I	12	
33	Vasant Kunj Ph-I	2.2	
341	Vasant Kunj Ph-II	3	
35	Ghitorni	5	
36	Mehrauli	5	
37	Molar band	0.66	

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3. **Status of the utilization of STP treated water**

S.N	Name of STP	Commitment use & current use of Treated Effluent (in MGD)	Area in which treated effluent is used
1	Okhla	CPWD for Horticulture. = 22.00 MGD UP Irrigation = 14 MGD Bansera=0.15 MGD Internal Horticultural use of Okhla STPs =1 MGD CRRI for Horticulture = 0.0148 MGD Waste to Energy Plant= 0.069 MGD PWD for Hort.=0.022 MGD (through tanker) DTC Bus Depot, Sukhdev Vihar = 0.008 MGD Total: 37 .27 MGD	Parliament house, Rashtrapati Bhawan, India Gate. Rajghat, Shantivan, Vijay hat, Veer Bhoomi, shakti sthal, Kishan ghat, Feroz shah kotla park, Samta sthal, Chalo Delhi park, Jai Parkash memorial hospital, All govt. offices of India Gate, Bhagwan das road, main Rajpath, North South Block, Govt. bungalow of all MPs, Supreme / high court judges' resident. Moti Bagh, Nanakpura, RK Puram, Jorbagh, Kaka Nagar, Bapa Nagar, Ravinder Nagar, Pandara Park, sunder Nagar, Lodhi garden, Lakshmibai Nagar, all embassies. Timarpur Okhla Waste Management Company Limited, Behind CRRI, Jasola, New Delhi DTC Depot, Okhla Vihar DTC Depot, Kalkaji DTC Depot, Okhla Sabjimandi Green Belt (Ali village to Ashram) Green Belt (Ashram to Bharav Marg) Green Belt (Kalandi Kunj & Guru Ravidas Marg), Green Belt (Kalkaji Road) NBCC (For Construction of World Trade Centre) Naroji Nagar, CPWD (Re development of General pool residential colony at Thyagraj Nagar), Madanpur Khadar, Tilpat, Palla Village for agriculture purpose through Irrigation & flood control channel and further used in Haryana for agriculture purpose.
2	Rithala	DDA = 3.5 MGD PPCL = 5 MGD Plant Horti. = 0.65 MGD Total – 9.15 MGD	Irrigation in Japanese park, Rohini, MCD/ PWD for horticulture/irrigation and for watering plants on outer ring road PPCL Bawana.
3	Kondli	Plant Horticulture = 0.5 MGD Smriti Van= 5 MGD Sanjay Lake= 5 MGD DDA/ IL&FS= 2.5 MGD	DJB, Horticulture purpose, Within plant premises of all three STPs. DTC (Through Tankers, Patparganj Depot, Vinod Nagar Depot. DDA (Through Tankers), Shakarpur, Delhi, Sanjay Lake (Proposed), PWD (Through Tankers), East Delhi Horticulture Purposes, Deepak Memorial Hospital (Through Tankers) Horticulture purposes EDMC, (Through Tankers)

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			For sprinkling in Trilokpuri &Mandawali area, Chandra Farms & Nursery (Through Tankers) For Horticulture Purposes
4	Keshopur	I&FC Deptt. =4.5 MGD PWD for hort, - 0.5 MGD Hort. Use at STPs=0.5 MGD Total = 5.5 MGD	DTC bus depot Keshopur for cleaning of buses, PWD for horticulture/irrigation and for watering plants on outer ring road. SDMC for irrigation purpose in adjoining area of Keshopur Plant. IFC Deptt. for horticulture purpose at west Delhi area
5	Yamuna Vihar	STP's Horticulture=0.5 MGD	DTC (Through Tankers), Nand Nagri Depot, IL&FS (Through Tankers), Shashti Park, PWD (Through Tankers), Horticulture, EDMC (Through Tanker), Sprinkling in Northeast Delhi. DJB, Horticulture at Plant
6	Vasant Kunj	Sanjay Van = 3.4 MGD	The treated effluent is used for watering the trees and plantation on various Roads and Parks maintained by PWD& MCD in Vasant Kunj, Vasant Vihar, Rangpuri, Mahipal Pur, Kishan Garh etc. Effluent is also used for filling of ponds in Sanjay Van and Hauz Khas Lake.
7	Mehrauli	To DDA (Garden of Five Senses, Qutab Golf Course at Saidulajab for Hort.)- 3.4 MGD	Treated effluent is being used for Horticulture/plantation purpose by PWD in following area. AIIMS to Andheria more Lado Sarai to Sangam Vihar, Fatch Pur to Johlapur Qutab Golf Course, Indian Park, Lado Sarai Park, Saket City Mall etc.
8	Coronation Pillar	I&FC Deptt. =19.5 MGD Bhalswa lake (DDA) =0.02 MGD	For horticulture purpose in Coronation Pillar. Golf course at Bhalswa, horticulture in PWD/MCD.
9	Narela	0.05 MGD - To Pvt agency through tankers.	For horticulture purpose through tankers.
10	Nilothi	For STPs hort. 0.5 MGD *10 MGD for Nilothi Lake	For horticulture purpose through tankers. For Nilothi Lake
11	Najafgarh	WTP Dwarka – 0.07 MGD – for Hort. *0.5 MGD for Najafgarh lake	Supply to Dwarka WTP for horticulture purpose For Najafgarh Lake
12	Pappankalan	NSIT- 0.06 MGD – for hort. DDA- 1.5 MGD – for hort. Pratham Group - 0.01 MGD – for hort. Shivam Enterprises - 0.013 MGD - for hort.	DDA, NSIT for horticulture purpose & plant horticulture purpose For Pappankalan Lake

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		Hort. Purposes for Pappankalan STPs - 0.25 MGD - Total = 1.83 MGD *5 MGD for Pappankalan Lake	
13	Dr. Sen Nursing Home Nalla	PPCL (Cooling Towers) = 2.2 MGD (Entire Treated Qty.)	All the treated effluent is used by PPCL
14	Delhi Gate Nallah	PPCL (Cooling Towers) = 2.2 MGD (Entire Treated Qty.) Pvt. Agencies = 0.02 MGD Plant Horti. = 0.15 MGD Delhi Secretariat = 1 MGD	All the treated effluent is used by PPCL The effluent is used for watering the trees and plantation on various Roads and Parks maintained by PWD, & MCD in Purana quila area, Kaka Nagar, Lodhi Road, Rajghat along with Ring Road up to Nigam Bodh. Effluent is also used for filling of Purana Quila Lake & plant horticulture purpose
15	Rohini	Plant Horti. = 0.25	For plant horticulture purpose & through tankers also.
16	Ghitorni	Some quantity used for plant Sultanpur Horticulture purpose	Some quantity used for plant Horticulture purpose
17	Kapashera	NIL	-
18	CWG Village	DDA- For Horticulture = 0.18 MGD	DDA (Through Pumping) Horticulture & Flushing purposes in CWG flats
19	Molar-Bandh	NIL	-
20	Chilla	Approximate 0.2MGD (STP's internal Hort.)	DJB Horticulture
Total		117.94	

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4. Status of Sewage Treatment Plants.

SN	STP which are being compliance the DPCC norms.	Capacity in MGD	Design parameters	Status
1	Kondli Ph-I	10	10/10 mg/l	Meeting design parameter as per DPCC norms
2	Kondli Ph-II	25	10/10 mg/l	Meeting design parameter as per DPCC norms
3	Kondli Ph-III	10	10/10 mg/l	Meeting design parameter as per DPCC norms
4	Kondli Ph-IV	45	10/10 mg/l	Meeting design parameter as per DPCC norms
5	Chilla	9	10/10 mg/l	Meeting design parameter as per DPCC norms
6	Yamuna Vihar Ph-II	15	10/10 mg/l	Meeting design parameter as per DPCC norms
7	Coronation new	70	10/10 mg/l	Meeting design parameter as per DPCC norms
8	Rithala Ph-I	40	10/10 mg/l	Meeting design parameter as per DPCC norms
9	Rithala Ph-II	40	10/10 mg/l	Meeting design parameter as per DPCC norms
10	Kapashera	5	10/10 mg/l	Meeting design parameter as per DPCC norms
11	Pappankalan Ph-II	20	10/10 mg/l	Meeting design parameter as per DPCC norms
12	Nilothi Ph-II	20	10/10 mg/l	Meeting design parameter as per DPCC norms
13	CWG	1	10/10 mg/l	Meeting design parameter as per DPCC norms
14	Okhla Ph-VI	30	10/10 mg/l	Meeting design parameter as per DPCC norms
15	Okhla New	124	10/10 mg/l	Meeting design parameter as per DPCC norms
16	SNH drain	2.2	10/10 mg/l	Meeting design parameter as per DPCC norms
17	Delhi gate Ph-I	2.2	10/10 mg/l	Meeting design parameter as per DPCC norms
18	Delhi gate Ph-II	15	10/10 mg/l	Meeting design parameter as per DPCC norms
19	Soniya Vihar New	7	10/10 mg/l	Meeting design parameter as per DPCC norms
20	Okhla Ph-V	16	30/50 mg/l	Meeting design parameter as per DPCC norms
21	Rohini	15	10/10 mg/l	Meeting design parameter as per DPCC norms
22	Narela	10	10/10 mg/l	Meeting design parameter as per DPCC norms
23	Najafgarh	5	10/10 mg/l	Meeting design parameter as per DPCC norms
24	Coronation Pillar Ph-III	10	10/10 mg/l	Meeting design parameter as per DPCC norms

Status of remaining STPs is as under:

1	Coronation Pillar Ph-II	10	30/50 mg/l	The STPs are functional on existing design parameters of 30/50 mg/l. However, plant is being upgraded on the design parameters of 10/10mg/l and likely to be completed by Mar-25
2	Keshopur Ph-II	20	30/50 mg/l	
3	Keshopur Ph-III	40	30/50 mg/l	
4	Pappankalan Ph-I	20	30/50 mg/l	The STPs are functional on existing design parameters of 30/50 mg/l. However, plant is being upgraded on the design parameters of 10/10mg/l and likely to be completed by June-25
5	Nilothi Ph-I	40	30/50 mg/l	
6	Yamuna Vihar Ph-I	10	30/50 mg/l	The STPs are functional on existing design parameters as BOD/TSS 30/50 & 20/30 mg/l. However, the block estimate is under process for seeking approval for upgradation from the competent authority. Tentative date of upgradation work is June-26
7	Yamuna Vihar Ph-III	25	20/30 mg/l	
8	Keshopur Ph-I	12	20/30 mg/l	
9	Vasant Kunj Ph-I	2.2	30/50 mg/l	
10	Vasant Kunj Ph-II	3	30/50 mg/l	
11	Ghitorni	5	30/50 mg/l	
12	Mehrauli	5	30/50 mg/l	
13	Molar band	0.66	30/50 mg/l	

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