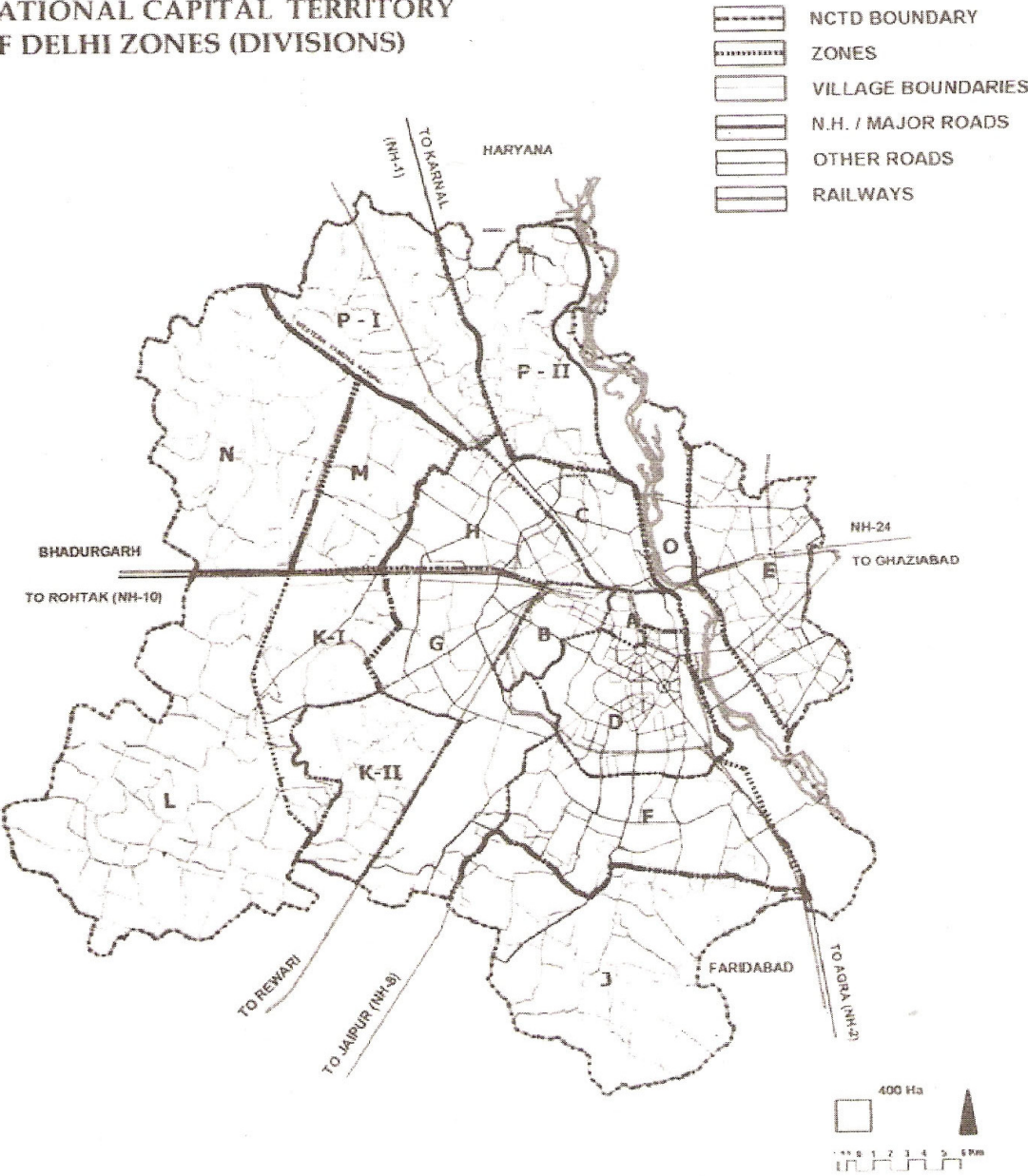


NATIONAL CAPITAL TERRITORY OF DELHI ZONES (DIVISIONS)

ANNXURE - I



MASTER PLAN FOR DELHI 2021

ANNEXURE -II

RECOMMENDATIONS OF THE COMMITTEE UNDER SECRETARY (UD) MOUD, GOVT. OF INDIA, FOR YAMUNA ACTION PLAN (2004)

1. Minimum flow in river Yamuna to be ensured by Riparian states by releasing adequate water

2. Refurbishment of Trunk Sewerage System

DJB has a network of approx. 130 Kms. length of trunk sewerage system to convey the collected sewage to different STPs for treatment. Nearly 91 Km of sewer lines are in highly dilapidated condition and have been silted to the extent of 50% to 70% at different stretches. Therefore, rehabilitation of following three major trunk sewers is proposed to be taken up under the Yamuna Action Plan.

(a) Rehabilitation of Ring Road trunk sewer under Yamuna Action Plan-II (YAP-II)

(b) Rehabilitation of Bela Road trunk sewer under YAP-II

(c) Rehabilitation of West Delhi trunk sewer under YAP-III

3. Treatment of the flows in Najafgarh and Shahdara drains

The drains contributing maximum to the pollution load in the river water are Najafgarh and Shahdara drains. Action plan to check flows in Najafgarh Drain and Shahdara drain is recommended. The untreated sewage results in pollution of the water flowing in the drain and affects its quality by increasing BOD level and suspended solid. Majority of the untreated sewage is contributed by unauthorised colonies. It would be possible to treat this sewage only after laying of internal sewerage system or installation of decentralized treatment plants, which are proposed to be attempted by MCD on pilot basis.

4. Laying of Sewer Lines in the un-sewered areas of Delhi

DJB has pointed that it has laid internal sewerage system in 482 unauthorized / regularised colonies and in 98 urban villages of Delhi. The sewerage systems in 496 unauthorized / regularised colonies and 103 urban villages are likely to be laid by December 2005. In 516 unauthorized / regularised colonies and 105 urban villages, sewerage systems are expected to be completed by May 2006.

5. Slum Cluster and Yamuna River Bed

One of the contributory factors to the flow of untreated sewage into river Yamuna is the slum clusters that have come up unauthorisedly on both eastern and western bank of river Yamuna. Local bodies have already removed several JJ Clusters existing on the Western Bank. Slum clusters need to be cleared from river bed.

6. Treatment of Industrial Effluent

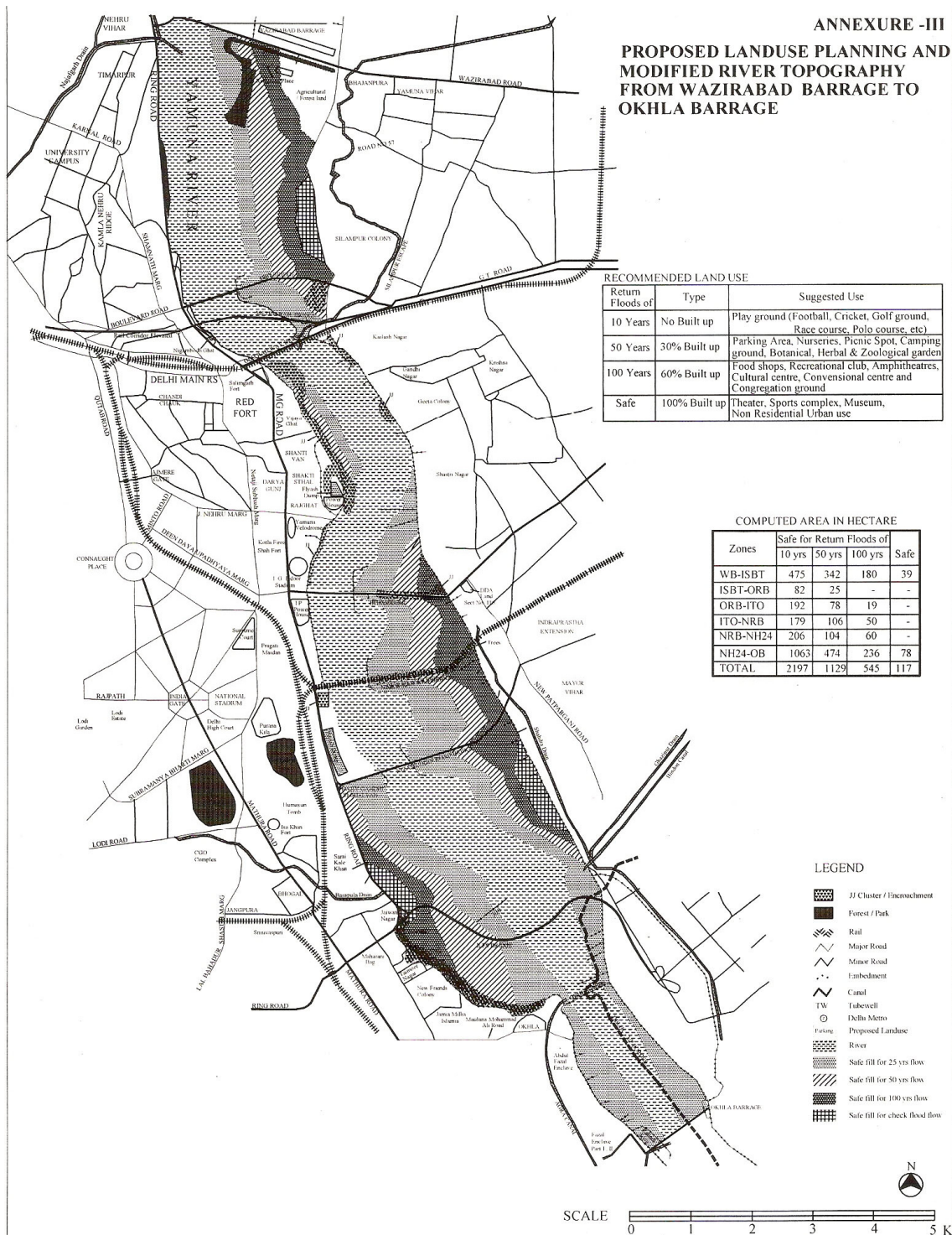
Delhi Small Industries Development Corporation has constructed 10 Common Effluent Treatment Plants (CETPs) having an installed capacity of 133 mld for treating the industrial effluent before they are discharged into the drains/river. Better capacity utilisation and laying of conveyance system wherever required is needed.

7. Utilisation of Treated Effluent

Currently 109.5 MGD of treated effluent is being supplied by DJB to CPWD, DDA, Pragati Power Plant and Minor Irrigation Department. Additional 241 MGD is available for other user agencies. The issue of utilising the additional treated water is being deliberated by CPWD.

8. Removal of Coliform at STPs.

The task force has set up a Committee to determine the permissible level of coliform in the treated wastewater and the process required for achieving the same keeping in view its techno-economic feasibility.



ANNEXURE -IV

SUB DIVISIONS FOR ZONES (DIVISIONS) A TO H



MASTER PLAN FOR DELHI 2021

ANNEXURE- V

Tentative List of Unauthorised Colonies

S.No.	Name of Colonies	S.No.	Name of Colonies
1..	A-Block, Jait pur Extn, Delhi-44.	36	Meethapur Extn., Badarpur, New Delhi-44.
2..	A-Block, Hari Nagar Extn.Pt.-II Badarpur	37.	Meethapur Extn.Part-III, New Delhi-44.
3..	A-Block, Hari Nagar Extn. Pt-II, Badarpur	38.	N Block Hari Nagar Extn. Jaitpur Badarpur New Delhi-44.
4..	A-Block, Mithapur Extn, Badarpur, Delhi-44	39.	Pir Baba Basti, VIII, Jaitpur, Badarpur, New Delhi-44.
5.	Abdul Fazal Enclave Pt-II Shaheen Bagh.	40.	Prince Colony, Hari Nagar Extn. Part-III, Block-D,E & F Badarpur New Delhi-44.
6..	Abdul Fazal Enclave Pt-II Block G & H Delhi-25.	41.	R Block, Saurabh Vihar Harinagar Extn. Part-1 Badarpur.
7..	A- Block, Mithapur Extn, Badarpur, Delhi-44	42.	Sai Nagar, Mithapur Extn. Badarpur, New Delhi.
8..	Abdul Fazal Enclave (Main), Block-A,B,C,D Kalindi Kunj Road, Okhla New Delhi-25	43.	Saurabh Vihar Block-O,Harinagar Ext/II. Badarpur, N.Delhi-44.
9..	Abdul Fazal Enclave E to N Okhla, N.D-25.	44.	Shakti Vihar, Mithapur, Badarpur Delhi-44.
10.	Block-D,Meethapur Extn. Badarpur,Delhi-44	45..	Shiv Puri, Mithapur Extn., Badarpur New Delhi-44
11..	Block-'D', Mithapur Extn, Badarpur, Delhi-44	46.	New Aruna Nagar Colony (Majnu-ka-Tila)
12..	Block-'D', Hari Nagar Extn, Jaitpur,Badarpur, New Delhi-	47.	Laddhakh Budh Vihar Colony
13..	Ekta Vihar-4, Nithapur Extn; Badarpur, New Delhi.	48.	Block-D Hari Nagar Extn. Jaitpur Badarpur,New Delhi
14.	Hari Nagar Extn.H-Block Jaitpur Road Badarpur.	49.	Sonia Vihar,
15.	Hari Nagar Extn.H-Block LOP Jaitpur Road Delhi.	50.	Bachraj colony Meethapur Extn
16.	Hari Nagar Extn. Jaitpur Block-D-II, Badarpur, N.D-44.	51.	Hari Nagar D-Block Pt.II Badarpur
17.	Hari Nagar Extn. Part-II, Block-F Badarpur, N.D.-44.	52.	Hari Nagar, E-Block Part-II
18.	Hari Nagar Extn. Jaitpur Road Badarpur. Delhi-44.	53.	N-Block, Saurabh Vihar Amar Market
19..	Hari Nagar Extn.2, A-Block Jaitpur Road Badarpur.	54.	Sudarshan Park, Badarpur
20..	I-Block Hari Nagar Extn. Jaitpur Road Badarpur.	55.	S-Block, Saurabh Vihar, Hari Nagar Extension, Jaitpur Badarpur
21.	Jaitpur Extn. New Delhi-44, Block-E,F,G,H.	56	Jagatpur Extension, Jagatpur Mor,Delhi-84
22.	Jaitpur Extn. (Part-1)Mehrauli New Delhi-44.	57	Milan Vihar, Near Jagatpur bund, Sant Nagar(Burari) Delhi-84
23.	Jaitpur Extn., Block-1, Badarpur, New Delhi-44.	58	Shastri Park Extension, Buland Masjid, Delhi-53
24.	Jaitpur Extn., E-1 Block, Badarpur, New Delhi.	59	Sri Ram colony, Rajiv Nagar, Delhi-94
25.	Jaitpur Extn., L-Block, Badarpur, New Delhi-44.	60	Hari Nagar Extn -A Block
26.	Jaitpur Extn., Part-II, New Delhi-44, Badarpur.	61	A to F Block Hari Nagar Extn
27.	K-Block, Jaitpur Extn. Badarpur, New Delhi-44.	62	Madanpur Extn. Part-II, F Block
28	K-Block Sourabh Vihar Hari Nagar Jaitpur Badarpur.	63	Madanpur Extn
29	Lakhat Colony Pt-I Mithapur Extn. Badarpur.	64	A-II Block, Meethapur
30.	Lakhat Colony Pt-II Mithapur Extn. New Delhi.	65	Ekta Vihar Block- A,B,C
31	M-Block Hari Nagar, Vistar Sourav Vihar, New Delhi-44.	66	Shakti Vihar, A Block
32.	Madanpur Extn. Part-I,II,III, Khadar, New Delhi-76.	67	Om Nagar colony
33.	Meethapur Colony, Block-B, School Road, Badarpur, New Delhi-44.	68	Gagan Vihar
34.	Meethapur Extn.1 Block ABC 2D	69	J Block Arpan Vihar
35.	Meethapur Extn. 'A'Block, Badarpur New Delhi-44.	70	Subhapur, Chouhan Patti

- Source: As per the list of Un-authorized colonies received from GNCTD

ANNEXURE- VI

Strategy for cleaning drains in Delhi

Group	S. No. of drain	Name of drain	Average flow in mld (2005)	Step-I	Step-II
1.	1.	Magazine Road	5.58	Online treatment of minor drains	Residual treatment at outfall of drain (minimum capacity : 38mld)
	2.	Sweeper's Colony	10.80	Online treatment of minor drains	
	3.	Khyber Pass	13.39	Online treatment of minor drains	
	4.	Metcalf House	8.06	Online treatment of minor drains	
2.	5.	ISBT+Mori Gate	33.41	Online treatment of minor drains	Residual treatment at outfall of drain (minimum capacity : 75.39mld)
	6.	Tonga Stand	4.68	Online treatment of minor drains	
	7.	Civil Mill	37.30	Online treatment of minor drains	
3.	8.	Delhi Gate	43.20	Online treatment of minor drains	To be taken to delhi Gate STP after augmenting capacity
4.	9.	Sen Nursing Home	112.0	Online treatment of minor drains	To be taken to SNH STP after augmenting capacity
	10.	Drain No.14	12.46	Online treatment of minor drains	
5.	11.	Barapullah	82.9	Online treatment of minor drains	Treatment facility at the outfall (146.1 mld)
	12.	Maharani Bagh	63.2	Online treatment of minor drains	
6.	13.	Near LPG Bottling Plant	48.96	Online treatment of minor drains	Trapped to Okhla STP along with drain near Sarita Vihar bridge
	14.	Drain near Sarita Vihar	692.35		
7.	15.	Tehkhand	26.57	Online treatment of minor drains	Treatment at out fall of drain (min capacity 55 mld)
	16.	Tughlakabad	26.78		
8.	17.	Kalkaji	5.98	Online treatment of minor drains	Online treatment of drains

Note: CPCB recorded no flow in Moat drain. If there is any flow it could be taken to treatment facility for group 2. The river floodplain area recently cleared of slums, can be utilized for environmental services like sewage treatment; Najafgarh, Supplementary and Shahdara drain are not considered as flow is quite significant.

Action Plan to reduce waste flow into Yamuna

	Action Plan	Agency responsible
	UTILISATION OF STPs	
1.	75 per cent of installed capacity	DJB
2.	85 per cent of installed capacity	DJB
3.	Full utilization of treatment capacity available in drain catchment	DJB
	FLOW FROM NEIGHBOURING STATES	
4.	Haryana to plug sewage outfall into Najafgarh drain	Chief Secretary, Haryana Govt.
5.	Uttar Pradesh to stop outfalls through Loni and Sahibabad drains into Shahdara drain	Chief Secretary, Uttar Pradesh Govt.
6.	AUGMENTATION OF TREATMENT CAPACITY	
A	Treatment at source	
1.	Standards for reuse	CPCB
2.	Policy on treatment of waste at source (wastewater recycling and dual piping)	Delhi Government/ DJB
B	Estimating water use and waste generation in Delhi (including sewerage/unsewered/illegal areas/urban and rural villages), flows through drains and projecting the wastewater scenario for 2021 and 2031	Central Pollution Control Board (CPCB), Central Water Commission and DJB
C	Based on the survey, identifying the treatment technology and locations for additional treatment capacity (looking at options, including decentralised and natural systems, online treatment of drains)	NEERI/WAPCOS
D	Pilot project on online treatment of drains (three drains)	CPCB/DJB
E	Final plans for seven treatment facilities (4 at outfall of drains and 3 augmentation)	DJB
F	Implementing plans for 7 treatment facilities (4 at outfall of drains and 3 augmentation).	DJB
G	Implementing treatment capacity (minimum capacity for at least year 2011)	DJB

Source CSE (2007) Sewage Canal – How to clean the Yamuna