

Table 13.1

WATER CONSUMPTION IN DELHI

Year	Number of Connections Metered	Un-Metered	Domestic Consumption LKLD	Comm-ercial Industrial Consumption LKLD	Total Consumption LKLD	Per Capita Consumption of Water (Gallons/Day)
1	2	3	4	5	6	7
1976-77	210931	28673	1174	387	1561	30.38
1977-78	239854	22633	1414	364	1778	33.17
1978-79	258307	20159	1529	352	1881	33.65
1979-80	314763	16131	1519	364	1883	32.26
1980-81	355157	13143	1542	411	1953	32.07
1981-82	386167	12620	1556	509	2065	32.24
1982-83	409184	11396	1648	490	2138	32.16
1983-84	437251	11185	NA	NA	NA	NA
1984-85	475009	10457	1929	507	2436	33.65
1985-86	501174	10054	2524	513	3037	40.22
1986-87	547000	26000	2918	483	3401	43.27
1987-88	580000	30000	NA	NA	NA	NA
1988-89	625000	126000	NA	NA	NA	NA
1989-90	637914	206850	3534	523	4067	45.57
1990-91	678461	226960	4013	527	4540	49.03
1991-92	700923	245451	4049	556	4605	47.66
1992-93	745029	253977	4082	567	4649	46.66
1993-94	804180	294174	4087	424	4511	43.74
1994-95	826624	311262	4057	433	4490	42.04
1995-96	853807	315687	4114	627	4841	43.76
1996-97	915974	284917	8377	1478	9855	80.24
1997-98	934170	290217	8120	1408	9528	94.11
1998-99	959432	297182	8451	1491	9942	51.00
99-2000	997057	300102	8451	1491	9942	51.00
2000-01	1034724	312000	9295	1475	10770	50.00
2001-02	102326	313112	9296	1640	10936	40.00
2002-03	1139373	322460	9624	1312	10936	39.50
2003-04	1173693	329278	9770	1332	11102	39.00
2004-05	1213049	335052	9820	1330	11150	38.00

LKLD - Lakh Kilo Liter Daily.

Source : Delhi Statistical Abstract, Delhi Statistical Handbook, Dte. of Economics & Statistics, Govt. of NCT of Delhi.

Table 13.2
ESTIMATED POPULATION, WATER SUPPLY, WASTEWATER
PRODUCTION FOR THE YEAR 2006

Sewerage zones	Population (lakh)			Water supplied (mld)			Est. wastewater generation (mld)
	Served	Uns'v'd	Total	DJB	Other	Total	
Rithala	16.70	5.56	22.26	429.53	107.38	536.91	429.53
Coronation Pillar	7.72	2.57	10.27	198.56	49.63	248.19	198.56
Keshopur	17.36	5.78	23.14	446.50	111.64	558.14	446.50
Trans-Yamuna	20.99	6.99	27.98	499.61	124.90	624.51	449.61
Okhla	26.51	8.84	35.35	682.11	170.53	852.64	682.11
Total	89.28	29.74	119.02	2256.31	564.08	2820.39	2256.31

Source : DJB

Table 13.3

DUEIIP PROJECTIONS FOR WATER REQUIREMENTS IN 2021

Domestic Demand

S No	Type of settlement	Approx. present Population in Million	Norm of Supply (lpcd)	Total requirement (MLD)
1	Upgraded J.J. Clusters	3.27	150	490.5
2	Upgraded Slums	4.20	150	630.0
3	Upgraded Regularised	1.17	150	175.5
4	Resettlement Colonies	2.79	200	558.0
5	Rural villages	1.17	150	175.5
6	Regularised Colonies	2.79	200	558.0
7	Urban villages	1.39	200	278.0
8	Planned Colonies	5.22	225	1174.5
			Total	4040.0

(b) Fire Demand based on 100Ö p =14.83 MLD

(c) Non Domestic Demand (Category -II)

Non domestic demand is based on present supply increased in the same proportion as population increase. Therefore non domestic demand (cat-II) = 120 X 1.64 =196.8 MLD

(d) Non Domestic Demand (Category -III)

Based on the same principle non domestic demand (cat-III) = 70.20 MLD

(e) Leakages & line losses (10%)

It is assumed that with use of better materials, technology up-gradation and strict quality control during construction, replacement of old pipes and fittings, rehabilitation of WTP and BPS, Ground reservoir and OHT. Leakage and line losses will be restricted to 10%.

= 430.80 MLD

Total Future Demand = 4752.63 MLD

Table 13.4

**SEWERAGE FACILITIES IN DIFFERENT TYPES OF
SETTLEMENTS IN DELHI**

SN	Type of settlement	Total No. of settlements in the year			Sewerage facilities in the settlements in the year (Cummulative)			
		2001	2003	2005	2001	2003	2005	2006
1	2	3	4	5	6	7	8	9
1	Urban Villages	135	135	135	93	93	100	105
2	Regularised Unauthorised Colonies	567	567	567	402	458	500	506
3	JJ Resettle-ment Colonies	44	44	44	39	44	44	44

Source : Delhi Jal Board

Table 13.5

STATUS OF THE TRUNK SEWERS IN DELHI - MARCH, 2005

.No	Name of Trunk Sewer	Length (Km.)	Dia./Size in (mm)	Status 31.03.2005
1.	Trunk sewer from Harsh Vihar to Haiderpuri SPS	3.70	1600	3.6 km. Completed
2.	University Trunk Sewer from Nangia Park Shakti Nagar to Nehru Vihar	5.15	1200	Est. under scrutiny of Planning
3.	North Trunk Sewer from Bharat Nagar bridge to Patel Chest bridge.	5.33	1200	Work completed
4.	West Delhi Trunk Sewer from Moti Nagar to Keshopur STP(Najafgarh Trunk Sewer)	7.00	1650	Study and DPR are under YAP II and execution under YAP III
5.	Relieving Trunk Sewer Vishal Cinema to keshopur STP	5.00	1600-1800	3.0 Km. Completed
6.	Jail Road Trunk Sewer from Lajwanti Chowk to Kehshopur STP	7.50	700-1800	Tender Due
7.	Punjabi Bagh Trunk Sewer from Rohtak road to Keshopur STP	8.00	750-1800	Tender Due
8.	Trunk sewer No.4 from Geeta Colony to Preet Vihar SPS	2.50	1600	Completed
9.	Trunk sewer No. 5 from Behari Colony to Preet Vihar SPS	3.20	2100	1.6 Km. Completed
10.	Trunk sewer from Jhilimil Colony to Jagriti SPS	3.30	1600-2100	Tender Received
11.	Trunk sewer No. 1 from Khailsh Nagar to Geeta Colony SPS	2.18	600-1200	Completed
12.	Sewer from Ganesh Nagar to Preet Vihar SPS	4.15	450-1000	Completed

13.	Trunk sewer coming to Dilshad Garden SPS	1.00	1000	Completed
14.	Rehabilitation of 66" (1650)mm dia. Old brick barrel from Q point SPS Kilokari and 1200mm dia. Cross Connection no. IV from 66" dia. Brick barrel to Rly. Bridge Nizamuddin (Revised)	2.40 + 2.20	1650 & 1200	84 % completed
15.	Ring Road T/sewer from, Red fort to Ring Road SPS	13.50	1250-2700	3.5 Km Completed
16.	Cross Connection No.2 at Bhagwan Dass Road	13.50	1200	Est. under Approval
17.	Cross Connection No.3 at Zoo Park	0.50	1200	Est Approved
18.	Sewer along Arbindo marg	4.70	600	Completed
19.	Karol Bhag sewer from block 65 Rothak Road to Gurdwara Kishan Ganj	4.00	900-1200	Completed
20.	Bela Road sewer	2.10	600-900	Under YAP II
21.	Revival & Rehabilitation of Indian Express Sewer college lane	1.84	1600-1900	1.44 Km completed
22.	Sita Ram bazaar EGC shape sewer	0.84	950-1425	0.7 Kms. Completed
23.	Replacement of old and damaged brick barrel for improvement of S/System of Bazar Lal to Hauz Quazi Chowk	0.80	900	90% Work completed
24.	Rehabilitation through Trenchless Technology for T-Junction Sheikh Sarai to Madangir Road No. 13	1.00	900	Work completed

Table 13.6

PROJECTION OF TOTAL WATER DEMAND UPTO THE YEAR 2021

Category of Demand	Water Demand, MLD			
	2005	2006	2011	2021
Domestic	2880	3099	3689	3673
Commercial & Institutional	161	178	248	367
Industrial	722	813	1244	2232
Total Net Demand	3763	4090	5181	6272

Source:- DJB.

Table 13.7

INSTALLED CAPACITY OF WATER TREATMENT PLANTS AT THE END OF FIVE YEAR PLANS

[MGD]

S.No.	Name of Plant	1stFYP	2ndFYP	3rdFYP	4thFYP	5thFYP	6thFYP	7thFYP	8thFYP	9thFYP	10 th FYP
1	2	3	4	5	6	7	8	9	10	11	12
1	Chandrawal	60	90	90	90	90	90	90	90	90	90
2	Wazirabad	-	-	40	80	80	80	100	120	120	120
3	Haiderpur	-	-	-	-	50	100	100	200	200	200
4	Bhgirathi	-	-	-	-	-	37	100	100	100	100
5	Nangloi	-	-	-	-	-	-	-	-	40	40
6	Ranney wells/ Tublewells	-	-	-	5	20	30	47	63	88	100
7	Okhla (Iron Removal)	-	-	-	-	-	-	-	7	12	-
	Total	60	90	130	175	240	337	437	580	650	650

Table 13.8

**INSTALLED CAPACITY OF SEWAGE TREATMENT PLANTS AT THE END
OF FIVE YEAR PLANS**

[MGD]

S.No.	Name of Plant	1stFYP	2ndFYP	3rdFYP	4thFYP	5thFYP	6thFYP	7thFYP	8thFYP	9thFYP	10 th FYP
1	2	3	4	5	6	7	8	9	10	11	12
1	Okhla	36	36	66	66	66	88	100	124	140	140
2	Coronation Pillar	-	20	20	20	20	20	20	20	40	40
3	Keshopur	-	12	12	12	32	32	62	72	72	72
4	Rithala	-	-	-	-	-	-	10	40	80	80
5	Yamuna Vihar	-	-	-	-	-	-	-	-	10	20
6	Oxidation pond, Timarpur	-	-	-	-	-	12	12	12	6	6
7	Vasant Kunj	-	-	-	-	-	-	2	2	5	5
8	Kondli	-	-	-	-	-	-	10	10	45	45
9	Dr. Sen Nursing Home	-	-	-	-	-	-	-	-	2.2	2.2
10	Najafgarh	-	-	-	-	-	-	-	-	5	5
11	Ghitorni	-	-	-	-	-	-	-	-	5	5
12	Pappankalan	-	-	-	-	-	-	-	-	20	20
13	Narela	-	-	-	-	-	-	-	-	10	10
14	Delhi Gate	-	-	-	-	-	-	-	-	2.2	2.2
15	Nilothi	-	-	-	-	-	-	-	-	40	40
16	Mehrauli	-	-	-	-	-	-	-	-	-	5
17	Rohini	-	-	-	-	-	-	-	-	-	15
	Total	36	68	98	98	118	152	216	280	482.4	512.4

Table No. 13.9

SOURCE OF WATER (CENSUS 2001)

Sl.No.	Source	No. of Households		
		Total	Rural	Urban
1	All sources	2554149 (100.00)	169528 (100.00)	2384621 (100.00)
2	Tap	1924140 (75.33)	87417 (51.56)	1836723 (77.02)
3	Handpump/tubewell	559518 (21.91)	65290 (38.51)	494228 (20.73)
4	Well	1019 (0.04)	612 (0.36)	407 (0.02)
5	Other Including River/Canal/Tank/Spring	69472 (2.72)	16209 (9.57)	53263 (2.23)

(Figures in the bracket show percentage)

Source : Delhi Statistical Handbook- 2004