

Table 13.1
WATER CONSUMPTION IN DELHI

Year	Number of Connections		Domestic Consumption Lgd	Comm-ercial Industrial Consumption Lgd	Total Consumption Lgd	Per Capita Consumption of Water (Gallons/Day)
1	Metered	Un-Metered	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	955721	297182	8451	1491	9942	94.09
99-2000	993939	300100	8451	1491	9942	91.15
2000-01	1031948	312000	8299	1317	9616	69.77
2001-02	1090000	320000	7272	1283	8555	57.33
2002-03	1128000	330000	8971	1233	10204	65.90

LGD - Lakh Gallons 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 - January, 2000**

Sewerage zones	Population (lakh)			Water supplied (mld)			Est. wastewater generation (mld)
	Served	Uns'v'd	Total	DJB	Other	Total	
Rithala	13.6	11.4	25.0	400	80	480	384
Coronation Pillar	5.0	4.2	9.2	250	50	300	240
Keshopur	18.1	15.4	33.5	620	124	744	592
Trans-Yamuna	14.6	12.3	26.9	390	78	468	375
Okhla	20.8	17.6	38.4	1080	216	1296	1037
Total	72.1	60.9	133.0	2740	548	3288	2628

Source : DJB & DUEIIP

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 1000 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	2002	2003	2001	2002	2003
1	2	3	4	5	6	7	8
1.	Urban Villages	135	135	135	93	93	93
2.	RegularisedUnauthorised Colonies	567	567	567	402	427	458
3.	JJ Resettlement Colonies	44	44	44	39	40	44

Source : Delhi Jal Board

Table 13.5**STATUS OF THE TRUNK SEWERS IN DELHI - MARCH, 2004**

S. No	Name of Trunk Sewer	Length (Km.)	Dia./Size in (mm)	Status (Approx. Time of Completion)
1.	Trunk sewer from Harsh Vihar to Hiderpuri SPS	3.70	1600	June 04
2.	University Trunk Sewer from Nangia Park Shakti Nagar to Nehru Vihar	5.15	1200	Dec.04
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	Dec. 05
5.	Relieving Trunk Sewer Vishal Cinema to keshopur STP	5.00	1600-1800	Dec. 04
6.	Jail Road Trunk Sewer from Lajwanti Chowk to Kehshopur STP	7.50	700-1800	Dec.04
7.	Punjabi Bagh Trunk Sewer from Rohtak road to Keshopur STP	8.00	750-1800	Dec. 04
8.	Trunk sewer No.4 from Geeta Colony to Preet Vihar SPS	2.50	1600	Sep. 04
9.	Trunk sewer No. 5 from Behari Colony to Preet Vihar SPS	3.20	2100	Sep. 04
10.	Trunk sewer from Jhilimil Colony to Jagriti SPS	3.30	1600-2100	Dec. 04
11.	Trunk sewer No. 1 from Khailsh Nagar to Geeta Colony SPS	2.18	600-1200	Dec. 04
12.	Sewer from Ganesh Nagar to Preet Vihar SPS	4.15	450-1000	June 04
13.	Trunk sewer coming to Dilshad Garden SPS	1.00	1000	Completed
14.	Out fall sewer from Q point to Kilokari SPS Reach under DJB	2.40	1650	June 04
15.	Ring Road T/sewer from, Red fort to Ring Road SPS	13.50	1250-2700	Dec. 05
16.	Cross Connection No.2 at Bhagwan Dass Road	13.50	1200	Dec.04
17.	Cross Connection No.3 at Zoo Park	0.50	1200	Dec.04
18.	Cross Connection No.4 near Nizamuddin (Barapulla nalla)	2.20	1200	June 04
19.	Sewer along Arbindo marg	4.70	600	Dec.04
20.	Karol Bhag sewer from block 65 Rothak Road to Gurdwara Kishan Ganj	4.00	900-1200	Completed
21.	Bela Road sewer	2.10	600-900	Dec. 05
22.	Revival & Rehabilitation of Indian Express Sewer	1.84	1600-1900	June 04
23.	Sita Ram bazaar EGC shape sewer	0.84	950-1425	June 04

Table 13.6
Projection of Total water demand upto the year 2021

Category of Demand	Water Demand, 1000 MLT				
	2004	2005	2006	2011	2021
Domestic	2,076	2,143	2,210	2,544	3,080
Commercial & Institutional	113	120	127	171	308
Industrial	496	537	580	858	1,871
Total Net Demand	2,685	2,800	2,917	3,573	5,259

Source:- Delhi Water Supply & Sewerage Project – Project Preparation Study Report