

Assessment of Domestic Pollution Load from Urban Agglomeration in Yamuna Sub-Basin (Ganga Basin)

GRBMP: Ganga River Basin Management Plan

by

Consortium of 7 “Indian Institute of Technology” s (IITs)



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Preface

In exercise of the powers conferred by sub-sections (1) and (3) of Section 3 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government has constituted National Ganga River Basin Authority (NGRBA) as a planning, financing, monitoring and coordinating authority for strengthening the collective efforts of the Central and State Government for effective abatement of pollution and conservation of the river Ganga. One of the important functions of the NGRBA is to prepare and implement a Ganga River Basin Management Plan (GRBMP).

A Consortium of 7 Indian Institute of Technology (IIT) has been given the responsibility of preparing Ganga River Basin Management Plan (GRBMP) by the Ministry of Environment and Forests (MoEF), GOI, New Delhi. Memorandum of Agreement (MoA) has been signed between 7 IITs (Bombay, Delhi, Guwahati, Kanpur, Kharagpur, Madras and Roorkee) and MoEF for this purpose on July 6, 2010.

This report is one of the many reports prepared by IITs to describe the strategy, information, methodology, analysis and suggestions and recommendations in developing Ganga River Basin Management Plan (GRBMP). The overall Frame Work for documentation of GRBMP and Indexing of Reports is presented on the inside cover page.

There are two aspects to the development of GRBMP. Dedicated people spent hours discussing concerns, issues and potential solutions to problems. This dedication leads to the preparation of reports that hope to articulate the outcome of the dialog in a way that is useful. Many people contributed to the preparation of this report directly or indirectly. This report is therefore truly a collective effort that reflects the cooperation of many, particularly those who are members of the IIT Team. A list of persons who have contributed directly and names of those who have taken lead in preparing this report is given on the reverse side.

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Contents

	<i>Page</i>
1 Introduction	7
2 Major Obstruction and Abstraction Projects Executed in the Yamuna basin	10
3 Demographic Profile of Yamuna Basin	14
4 Religious Places and their Importance	28
5 Pollution Load	30
6 Conclusions	48
References	51
Appendix 1: Compilation of Data Sheets of Water Balance & Pollution Load (Domestic) of Major Class I Cities in Yamuna Basin	52
Appendix 2: Compilation of Data Sheets of Water Balance & Pollution Load (Domestic) of Major Class II Cities in Yamuna Basin	137

1. Introduction

River Yamuna, the largest tributary (1,376 km) of river Ganga, originates from Yamunotri glacier at Bandar Punch in the region of Mussourie range at 6,387 m above mean sea-level (msl), in the lower Himalayas. After flowing through the Sivaliks, river Yamuna emerges on the plains near Tajewala at 370 m (msl). The river then flows south-west to southwards for 224 km to enter the National Capital Territory of Delhi at 215 m (msl). After meandering through Delhi for about 22 km to Okhla, the river continues southwards for 272 km to Agra (146 m msl) and then turns south-east until its confluence with the River Ganga at Allahabad (100 m msl). All along its 1,170 km flow through the Gangetic plain, the average slope of the river bed decreases from about 0.56 m/km between Tajewala and Delhi to less than 20 cm/km between Delhi and Agra before becoming less than 5 cm/km thereafter, merging with the Ganges at Allahabad (Gopal and Sah, 1993). It has a total catchment area of 366,223 km². The total catchment basin of the river Yamuna is 42.5% of the Ganga basin and 11% of the total geographical landmass of the country (Gopal and Sah, 1993). Yamuna flows through the states of Delhi, Haryana and Uttar Pradesh. The total catchment area of the river Yamuna lies in the states of Uttarakhand, Uttar Pradesh, Himachal Pradesh, Haryana, Rajasthan, Madhya Pradesh and Delhi. The state-wise percent categorization of the Yamuna basin area are represented in Table 1. Major sub-basins in Yamuna basin is illustrated in Figure 1 while state-wise contribution in the basin is presented in Figure 2.

Table 1: State-wise Distribution of the Yamuna River Basin Area

State/ Union Territory	Total Geographical Area (sq. km)	Yamuna Catchment Area in the State (sq. km)
Uttarakhand	53,483	3,771
Uttar Pradesh	240,928	70,437
Himachal Pradesh	55,673	5,799
Haryana	44,212	21,265
Rajasthan	342,239	102,883
Madhya Pradesh	308,252	140,208
Delhi	1,484	1,484

*Misra and Mishra, 2014

Based on the hydrological and geo-morphological information river Yamuna can be sub-divided into 5 sub stretches (CPCB, 2006):

- a) Himalayan stretch from origin to Tajewala barrage (172 kms.) (YR1)
- b) Upper stretch Tajewala barrage to Wazirabad barrage (224 kms.) (YR2)
- c) Delhi stretch Wazirabad barrage to Okhla barrage (22 kms.) (YR3)
- d) Eutrophic stretch Okhla barrage to Chambal confluence (490 kms.) (YR4)
- e) Diluted stretch Chambal confluence to Ganga confluence (468 kms.) (YR5)

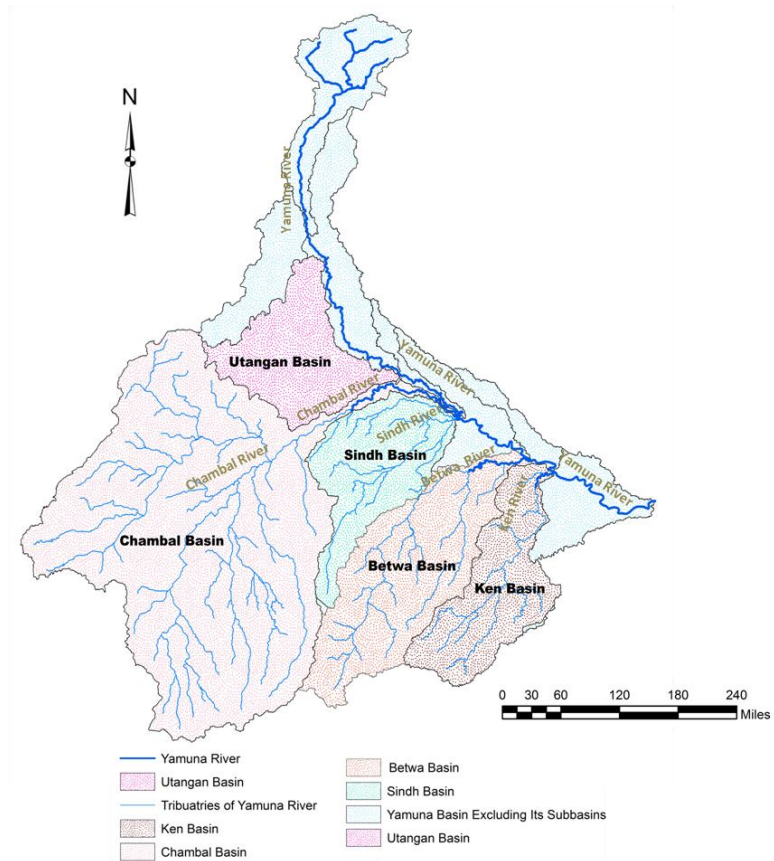


Figure 1: Major Sub-Basins in Yamuna River Basin

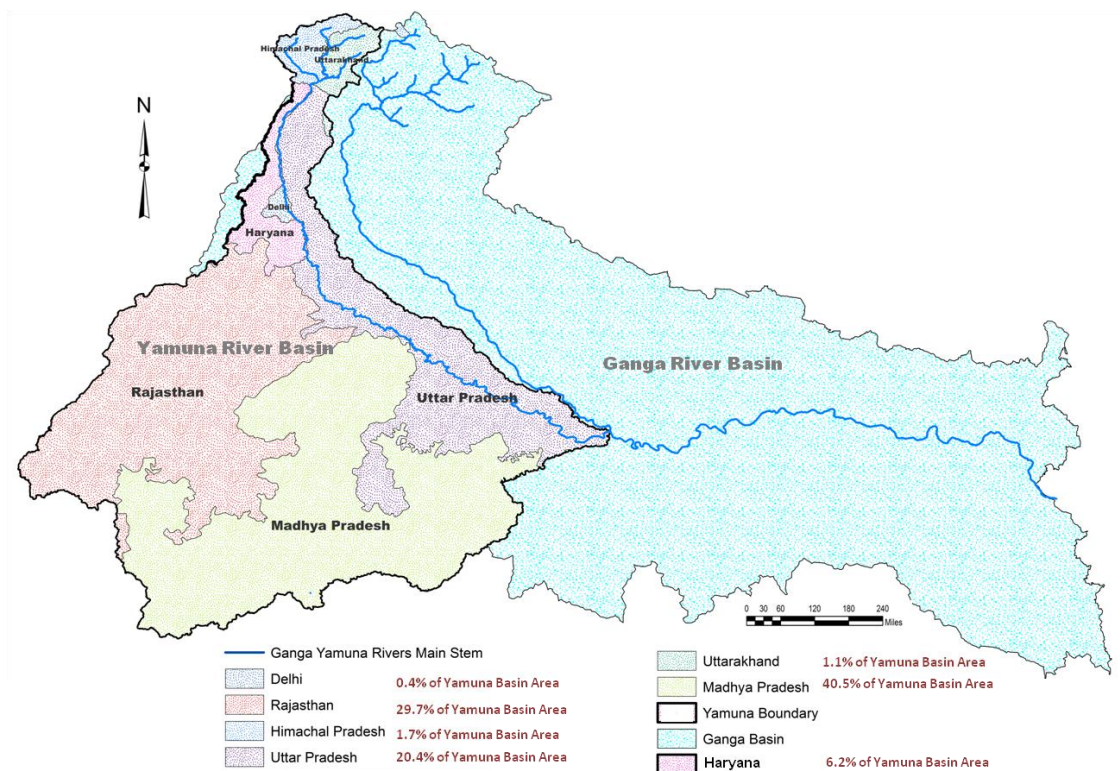


Figure 2: Major States Contributing in Yamuna River Basin

1.1. Salient Features of River Yamuna and its Tributaries

Several tributaries join river Yamuna along its path, transforming it into a fourth-order river. Several major tributaries join river Yamuna in the Gangetic plain. Its major tributaries and sub-tributaries of the Himalayan region are Tons, Asan, Giri and Pabbar while at plains it receives waters from Hindon, Betwa, Chambal, Ken, Senger and Sind River. The tributaries cater to a major portion (70.9%) of the catchment area, the balance (i.e., 29.1%) area is directly drained into Yamuna or is drained by smaller streams. The salient features of all the major tributaries of river Yamuna are described in Table 2. River Chambal, well known for its deep ravines, is the largest of these tributaries, with a catchment area of about 40% of the Yamuna river basin.

1.2. Physical Conditions of the River Yamuna

The Himalayan part of the basin experiences very low winter temperatures and high rainfall (1,200 to > 1,600 mm). In the plains, peak temperature rise above 45°C during summer (late May-June), but during winter the temperature (average 2-9°C December-January) rarely drops below the freezing-point (Gopal, 2003). The soils of the Yamuna basin vary considerably, as they have developed under different lithological, climatic, and pedogenetic, conditions (Raychaudhury et al., 1963). River bed of the upper Yamuna is primarily sandy in texture having sand in the range of 70.52-74.76%, silt in the range of 17.74-18.56% and clay in the range of 7.35-11.55%. Due to large variation in climate and soils, the natural vegetation is also highly variable in the Yamuna river basin (Mathur and Kapoor, 2013).

Table 2: Tributaries of River Yamuna

Characteristics	Tributaries at the Mountainous stretches				
	Tons	Asan	Giri	Pabbar	Paisuni
Position	Right bank tributary	Left bank tributary	Right bank tributary	Right bank tributary of Tons River	Right bank tributary
Region of origin	Banderpunchh Mountain	Chandrabani Village at the base of Siwalik	Kharapathar, Jubbal Tehsil of District Shimla	Gangadari Dhar (Chander Nahan) ranges of Himalaya	Kaimur hills of Vindhyan range
Mouth	Asan	Yamuna	Yamuna	Tons	Yamuna
Total catchment area (sq km)	16,860	654.47	2,600	1,200	-
Length (km)	150	42	155*	87*	100
River bed	Stones, Sand	Gravels, Course fractions, Boulders, Sand	-	-	Stones, Sand, Mud

	Tributaries at the Plains				
Characteristics	Hindon	Chambal	Sind	Betwa	Ken
Position	Left bank tributary	Right bank tributary	Right bank tributary	Right bank tributary	Right bank tributary
Region of origin	Sivalik hills	North wards slope of the Vindhyan mountains in native state of Indore (M.P.)	North wards slope of the Vindhyan mountains originates at Hatoli (District Vidisha)	North wards slope of the Vindhyan mountains	North Western slope of the Vindhyan mountains in native state of Bhopal
Mouth	Yamuna	Yamuna	Yamuna	Yamuna	Yamuna
Total catchment area (sq km)	7,083	143,219	27,940	46,580	28,224
Length (km)	400	960	415	590	360
River bed	Sand	Stony rapid, sand banks and gravel bars, alkaline and saline soils	-	Stones, Sand, Riffle and Pools; Pebbles and Cobble	Rocks, Stones, Sand

Gopal and Sah (1993); Dwivedi (2006); Chauhan et al. (2014); Garg et al. (2012): * approx measured length of the river

2. Major Obstruction and Abstraction Projects Executed in the Yamuna basin

In the Himalayan segment from the source (Yamunotri Glacier) to Indo-Gangetic plains at Dak Patthar in Uttaranchal the river water quality is good and it meets most of the water quality standards. The major water quality problems arise afterwards due to the flow regulation of river through dams and barrages and the stretches downstream to the dams are devoid of water or having very less water. The water of river Yamuna is abstracted at different locations for multiple uses. The flows are dissected at 5 barrages during its course *i.e.*, at Dakpathar; Hathnikund; Wazirabad; Okhla; and at Mathura (Gokul barrage). The river water is regulated for irrigation and power generation within the segment in Hathnikund/Tajewala in Yamuna Nagar district of Haryana state, and almost all water is diverted into Eastern Yamuna Canal (EYC) and Western Yamuna Canal (WYC). The stretch is devoid of water during summer and winters downstream of Hathnikund barrage. The statistical interpretation revealed that decadal average flow in the river downstream of Hathnikund barrage at Yamuna Nagar reducing to around 3,000 cumecs in 2000-08 from over 15,000 cumecs in 1961-70 (Panwar, 2009).

Downstream of Hathnikund the river regains water from ground water accrual and contributions of feeding canals and small tributaries etc. From Hathnikund the river sluggishly meanders and reaches Delhi at Palla after travelling a distance of about 224 km. At Wazirabad the river is trapped again through a barrage for drinking water supply to urban agglomeration at Delhi. From Wazirabad barrage no river water is allowed to flow

down particularly during summer, as the available water in the river is not adequate to fulfill the water supply demand of Delhi. The water flowing in the Yamuna River downstream of Wazirabad is the treated, partially treated or untreated domestic & industrial wastewater contributed by various drains joining river Yamuna and canal water. After 22 km downstream from Wazirabad barrage the Yamuna water is again blocked and diverted into Agra Canal for irrigation through another barrage at Okhla. Similar to what happens downstream of Wazirabad, downstream of Okhla barrage the water flows in the river is the drain water of domestic & industrial origin contributed mainly by Shahdara drain. After travelling a distance of around 166 km, the river reaches Mathura from where again a major part of water is diverted for drinking water supply through Gokul barrage. The Yamuna from Gokul barrage, after receiving water through other important tributaries and city drains, joins river Ganga at Allahabad after traversing about 790 km via cities of Agra, Bateshwar, Etawah, Hamirpur and Pratapgarh (CPCB, 2006). The points of abstraction and addition in water of Yamuna River are shown in Figure 3. A list of the dams and barrages constructed under the Yamuna basin are presented in Table 3.

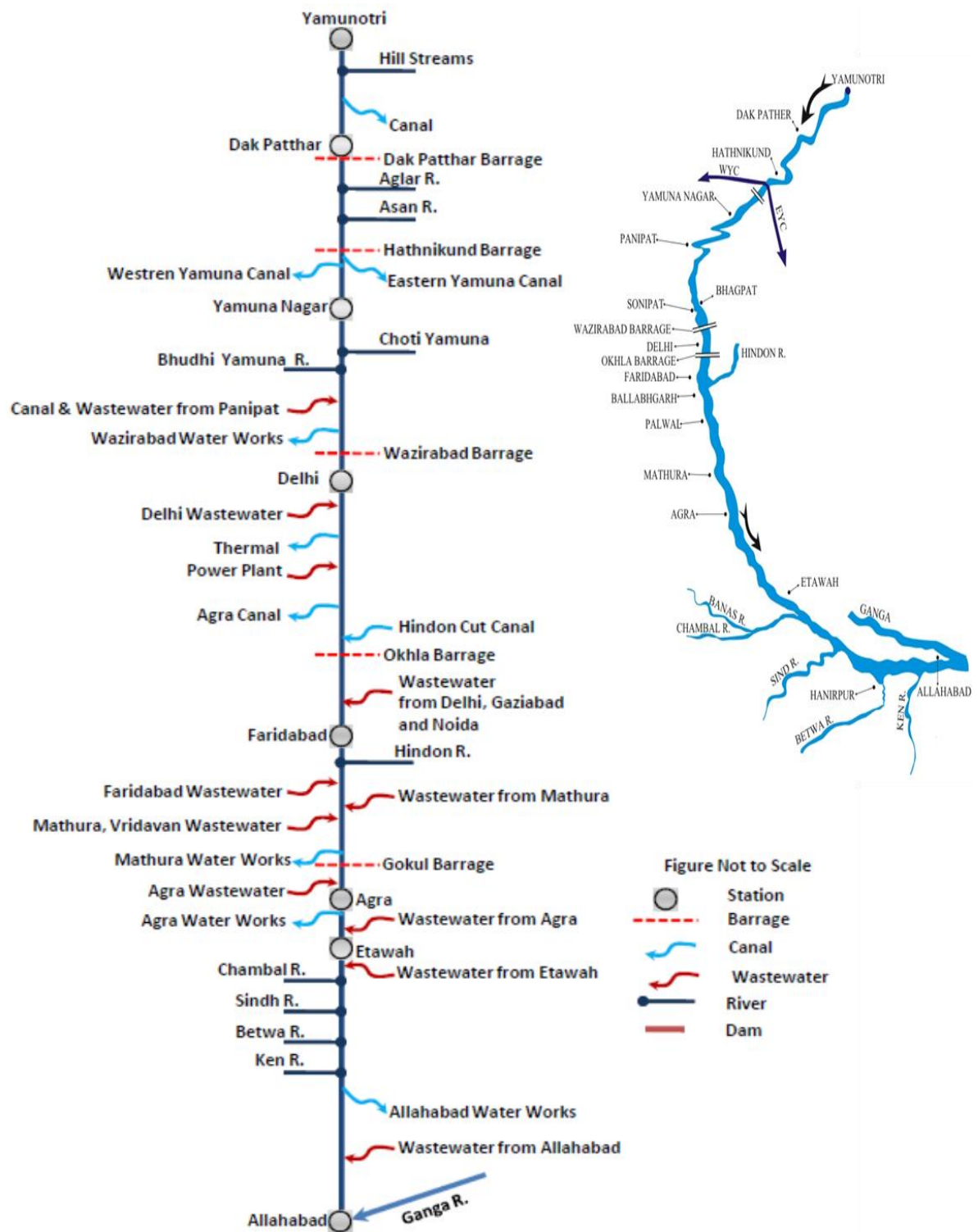


Figure 3:Line-diagram Depicting Points of Water Abstraction and Additions from/in Yamuna River

Table 3: Details of Major Dams/ Barrages/ Weirs on River Yamuna and its Tributaries

Projects	River	State	Year of Completion	Status	Remark
Lakhwar Dam	Yamuna	Uttarakhand	-	U/C	Hydroelectric, Irrigation
Dakpathar Barrage	Yamuna	Uttarakhand	1965	On	Hydroelectric
Tajewala barrage	Yamuna	Haryana	1873	On	Irrigation
Asan Barrage	Asan	Uttarakhand-Himachal Pradesh border region	1975	On	Hydroelectric
Khara Dam	Ahsan	Uttar Pradesh	1992	On	Hydroelectric
Hathni Kund Barrage	Yamuna	Haryana	1999	On	Irrigation
Gunta Dam	Gunta Nala (Yamuna)	Uttar Pradesh	2003	On	Irrigation
Gandhi Sagar Dam	Chambal	Madhya Pradesh	1960	On	Hydroelectric, Irrigation
Rana Pratap Sagar Dam	Chambal	Rajasthan	1970	On	Hydroelectric
Jawahar Sagar Dam	Chambal	Rajasthan	1972	On	Hydroelectric
Kota Barrage	Chambal	Rajasthan	1960	On	Irrigation
Gangau Weir	Ken	Madhya Pradesh	1915	On	Irrigation
Rangwan Dam	Ken	Madhya Pradesh	1957	On	Irrigation
Bariyarpur Weir	Ken	Madhya Pradesh	1905	On	Irrigation
Kishau Dam	Tons	Uttarakhand-Himachal Pradesh border region	-	U/C	Hydroelectric, Irrigation
Ichari Dam	Tons	Uttarakhand	1972	On	Hydroelectric
Rohini Dam	Rohini	Uttar Pradesh	1984	On	Irrigation
Parichha Dam	Betwa	Uttar Pradesh	1885	On	Irrigation
Dhukwan Dam	Betwa	Uttar Pradesh	1909	On	Irrigation
Matatila Dam	Betwa	Uttar Pradesh	1964	On	Hydroelectric, Irrigation
Rajghat Dam	Betwa	Madhya Pradesh-Uttar Pradesh border region	2006	On	Hydroelectric, Irrigation
Betwa Barrage	Betwa	Madhya Pradesh	-	On	Irrigation
Jamini Dam	Jamini	Uttar Pradesh	1973	On	Irrigation
Bhaunrat Dam	Jamini	Uttar Pradesh	-	On	Irrigation
Giri Dam	Giri	Himachal Pradesh	-	On	Hydroelectric, Irrigation
Renuka Ji Dam	Giri	Himachal Pradesh	2014	On	Hydroelectric, Irrigation
Sawra Kuddu Dam	Pabbar	Himachal Pradesh	2010	-	Hydroelectric
Dhamwari Sunda Barrage	Pabbar	Himachal Pradesh	-	-	Hydroelectric
Sainj Barrage	Sainj	Himachal Pradesh	-	-	Hydroelectric
Madikheda Dam	Sind	Madhya Pradesh	2008	On	Hydroelectric, Irrigation

India-WRIS (2015); U/C: Under construction

3. Demographic Profile of Yamuna Basin

As per estimation based on Census 2011 the Yamuna basin accommodates 84 Class I cities, 69 Class II towns and 229 Class III towns. These cities/ towns belong to of the states of Uttaranchal, Uttar Pradesh, Himachal Pradesh, Haryana, Rajasthan, Madhya Pradesh and Delhi. The total population of the basin is estimated to be 127 million (according to Census 2001). Population-wise the major contributing state is Uttar Pradesh, which contributes 32.95% of the basin population followed by Madhya Pradesh, Rajasthan, Haryana, Delhi, Uttarakhand and Himachal Pradesh (Rai et al., 2012). The total population of the Class I cities, Class II towns and Class III towns in the basin according to the Census 2011 is 54.5 million. Among the Class I Cities DMC (Delhi Municipal Corporation), Faridabad, Agra, Allahabad, Ghaziabad, Bhopal, Gwalior, Indore, Kota and Jaipur are the most populated cities having more than 1 million people, according to the Population Census 2011.

In the basin, 39.24% and 2.95% of the population lying in the Class I cities and Class II towns are situated along the main stem of river Yamuna. The overall share of Class III population in the basin is 12.45%. The population residing under major sub-basins lying in the state has also been estimated for Class I and Class II cities/ towns. The largest population is harboured in Chambal Basin (Class I: 17.63%) and least in Ken Basin (Class I: 1.22%). The Betwa, Sindh and Utangan basins accommodate 5.26, 3.18 and 4.33% respectively, of the total Class I population of the Yamuna basin. The least population of Class II towns also belong to Sindh basin (0.22%) and maximum to Chambal basin (1.79%). The other sub-basins – Betwa (1.09), Ken (0.28%) and Utangan (0.51%) – contain the remaining Class II population of the Yamuna basin. The total population residing outside the selected sub-basins for Class I cities and Class II towns in the state is 9.84%. Figure 4 shows the population distribution of Class I cities and Class II and III towns in the major sub-basins of river Yamuna and along the main stem of the river Yamuna. Figures 5 and 6 show the distribution of Class I cities and Class II towns in the state under Yamuna River Basin.

The details of the area, population and the major river systems of all the Class I, II and III cities are presented in Tables 4-6, respectively. The average population of class I town in the state is 0.5 million approximately, which is seven times and seventeen times higher than the average population of class II and class III towns, respectively. DMC is the most populated class I city having the population of the order of 11 million while Nagda is the least populated (0.1 million) class I city. Sadat Pur Gujran and Hodal are the cities having maximum and minimum population under class II towns, containing 0.09 and 0.05 million, respectively. In class III towns where the population is less than 0.05 million, the maximum population is in the Kotputli town (0.049 million) while the minimum is in the Maksi (0.02 million).

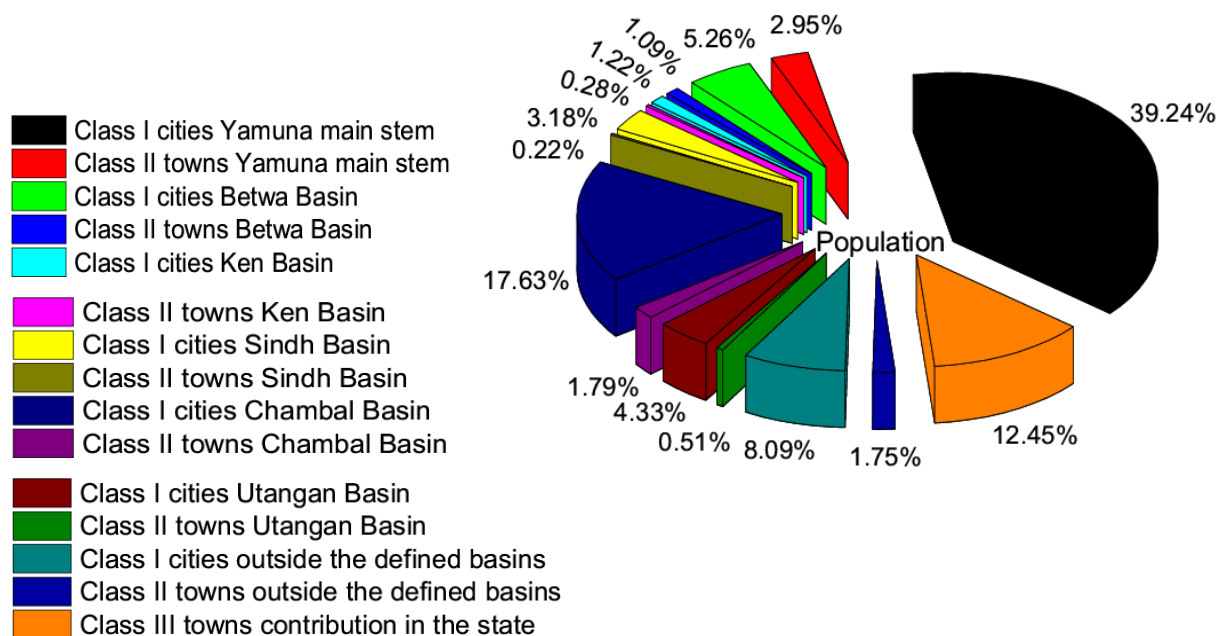


Figure 4: Population Distribution of Class I Cities and Class II, Class III Towns in the Major Basins of Yamuna Basin and Along the Main Stem of the River Yamuna

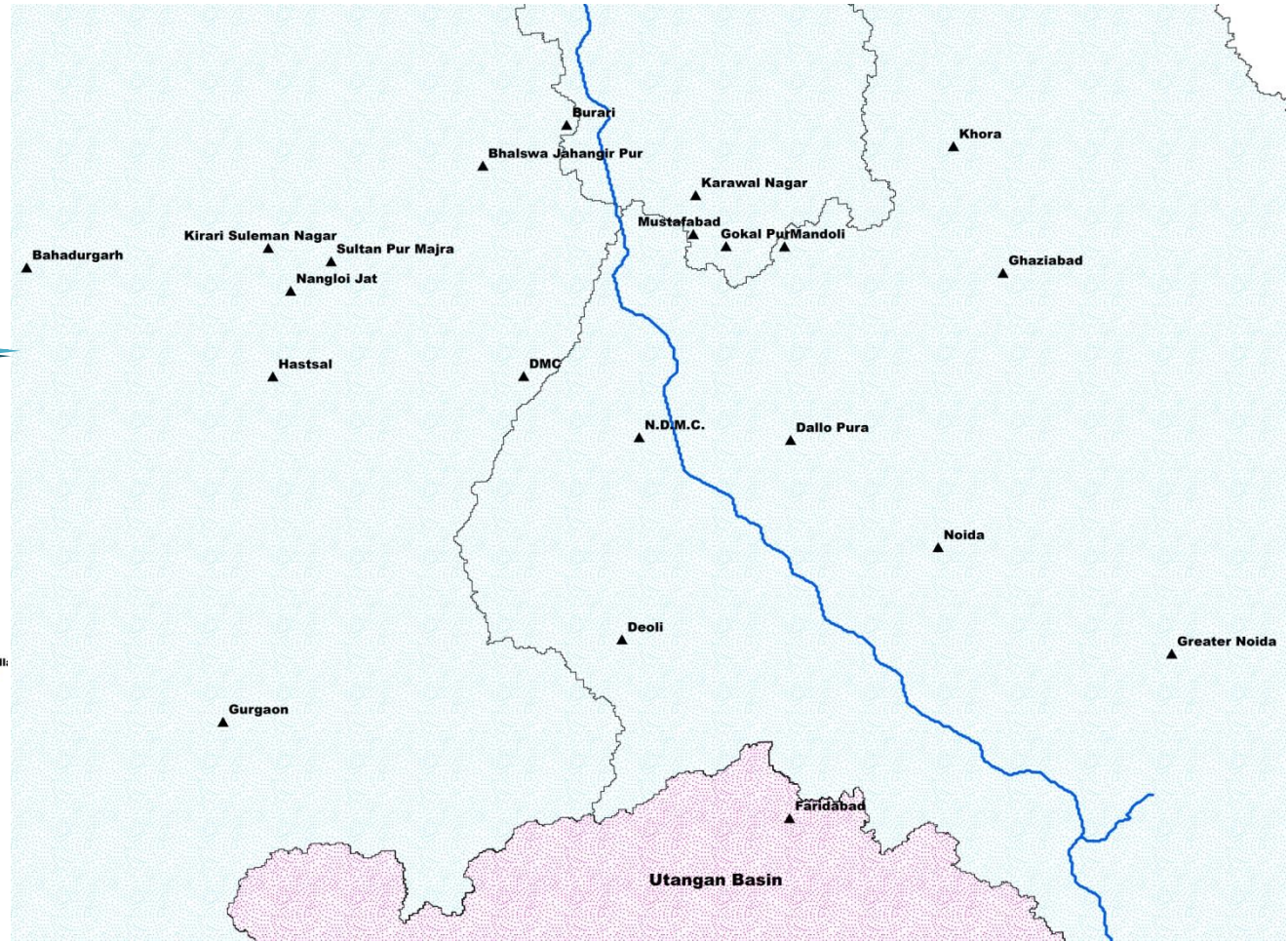


Figure 5: Class I Cities in Yamuna River Basin

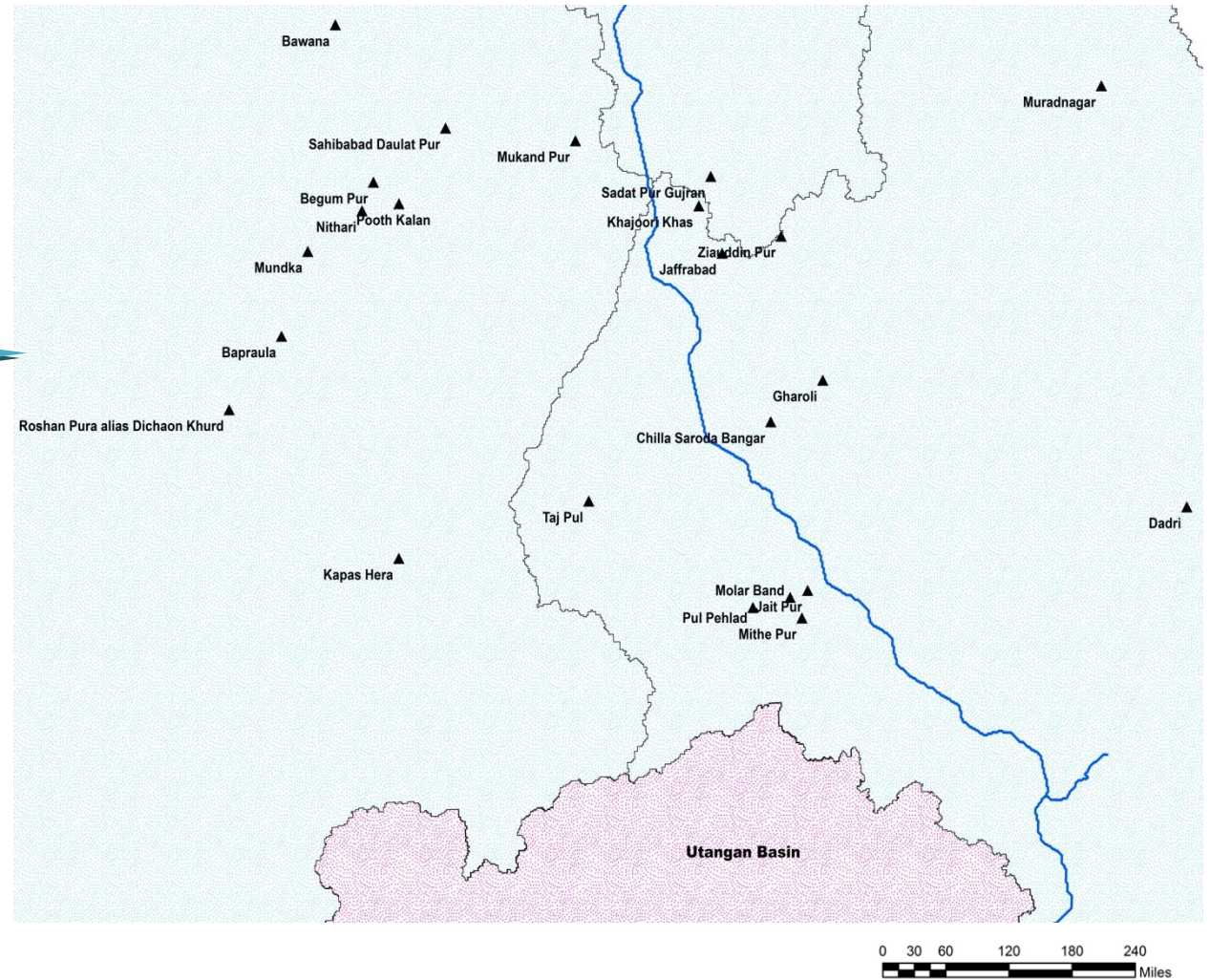


Figure 6: Class II Cities in Yamuna River Basin

Table 4: Demography of Major Class I Cities in Yamuna River Basin

S. No.	City/ Town	State	River System	Area (Sq. Km.)	Population (Census 2011)
1	DMC	NCT OF DELHI	Yamuna, Hindan River	561.3	11,034,555
2	N.D.M.C.		Yamuna, Hindan River	42.7	257,803
3	Kirari Suleman Nagar		Yamuna, Hindan River	4.7	283,211
4	Sultan Pur Majra		Yamuna, Hindan River	2.8	181,554
5	Bhalswa Jahangir Pur		Yamuna, Hindan River	6.7	197,148
6	Burari		Yamuna, Hindan River	11.2	146,190
7	Karawal Nagar		Yamuna, Hindan River	4.8	224,281
8	Mustafabad		Yamuna, Hindan River	1.3	127,167
9	Gokal Pur		Yamuna, Hindan River	2.3	121,870
10	Mandoli		Yamuna, Hindan River	5.9	120,417
11	Dallo Pura		Yamuna, Hindan River	2.3	154,791
12	Hastal		Yamuna, Hindan River	6.8	176,877
13	Nangloi Jat		Yamuna, Hindan River	6.7	205,596
14	Deoli		Yamuna, Hindan River	10.1	169,122
15	Bahadurgarh	Haryana	Yamuna River	29.5	170,767
16	Faridabad		Yamuna, Hindan River	204	1,414,050
17	Gurgaon		Yamuna, Hindan River	184.59	886,519
18	Jagadhri		Yamuna, Hindan River	24.8	124,894
19	Karnal		Yamuna, Hindan River	29.46	302,140
20	Palwal		Yamuna, Hindan River	8.42	131,926
21	Panipat		Yamuna, Hindan River	21.86	295,970
22	Rohatak		Yamuna, Hindan River	72.18	374,292
23	Rewari		Yamuna River 79 km	22.5	143,021
24	Sonipat		Yamuna, Hindan River	42.61	289,333
25	Yamunanagar		Yamuna River	16.48	217,071

S. No.	City/ Town	State	River System	Area (Sq. Km.)	Population (Census 2011)
26	Morena	Madhya Pradesh	Asan River	12.00	200,482
27	Bhind		Kunwari River	17.18	197,585
28	Bhopal		Betwa River	285.88	1,798,218
29	Chhatarpur		Dhasan River	15.56	142,128
30	Damoh		Ken River	33.23	139,561
31	Datia		Pahuj River	6.64	100,284
32	Dewas		Shipra River	100.22	289,550
33	Guna		Sindh River	45.75	180,935
34	Gwalior		SonRekha River	173.68	1054,420
35	Murwara		Katni River	68.57	221,883
36	Sehore		Parbati River	15.11	109,118
37	Shivpuri		Sindh River	81.11	179,977
38	Ujjain		Kshipra River	92.68	515,215
39	Vidisha		Betwa River	5.83	155,951
40	Mandsaur		Shivna River	36.36	141,667
41	Nagda		Chambal River	23.83	100,039
42	Neemach		Ratem River	22.00	128,575
43	Pithampur		Narmada 47 km	89.90	126,099
44	Ratlam		Mahi River	39.19	273,892
45	Sagar		Dhasan River	33.75	370,296
46	Indore		Saraswati River	172.39	1,994,397
47	Bundi	Rajasthan	Mez,Chambal River	27.79	104,919
48	Kishangarh		Luni River 46 Km	45.49	154,886
49	Alwar		Yamuna River 98 km	48.4	322,568
50	Bharatpur		Yamuna River	57.77	252,838
51	Bhilwara		Kothari,Banas River	118.49	359,483
52	Bhiwadi		Sahibi River	44.06	104,921
53	Chittaurgarh		Banas, Gambhiri River	41.76	116,406
54	Dhaulpur		Chambal,Utangan River	32.03	133,075
55	Gangapur		Kothari,Banas River	52.31	119,090
56	Hindaun		Utangan River	48	105,452
57	Jaipur		Banas River 60 Km	484.64	3,046,163
58	Tonk		Banas River	60.5	165,294
59	Udaipur		Sabarmati, Ayad River	56.92	451,100
60	Kota		Chambal,Kali Sindh,Parvan,Mez River	527.03	1,001,694
61	Sawai Madhopur		Parbati, Banas River	59	121,106
62	Baran		Parbati, Kali Sindh,Parvan River	72.36	117,992

S. No.	City/ Town	State	River System	Area (Sq. Km.)	Population (Census 2011)
63	Agra	Uttar Pradesh	Yamuna, Chambal River	120.57	1,585,704
64	Aligarh		Yamuna River	40.43	874,408
65	Allahabad		Ganga, Yamuna River	70.05	1,168,385
66	Banda		Ken, Yamuna River	16.00	160,473
67	Baraut		Yamuna River	10.36	103,764
68	Etawah		Sengar, Chambal, Yamuna River	28.94	256,838
69	Fatehpur		Ken, Ganga, Yamuna River	56.98	193,193
70	Firozabad		Chambal, Utangan, Yamuna River	21.35	604,214
71	Ghaziabad		Hindon, Yamuna River	220.00	1,648,643
72	Greater Noida		Hindon, Yamuna River		
73	Hathras		Yamuna River	6.76	143,020
74	Jhansi		Pahuj, Betwa River	150.00	505,693
75	Khora		Hindon, Yamuna River	4.26	190,005
76	Khurja		Yamuna River 36 km	16.70	121,207
77	Lalitpur		Shahzad, Sajnam, Jamani, Betwa River	17.35	133,305
78	Mathura		Yamuna River	28.05	349,909
79	Muzaffarnagar		Kali nadi, Ganga River	12.04	392,768
80	Orai		Yamuna, Betwa, Dhasan River	23.20	190,575
81	Saharanpur		Hindon, Yamuna, River	46.74	705,478
82	Shamli		Yamuna River	26.23	107,266
83	Shikohabad		Yamuna, Chambal, Utangan River	8.48	107,404
84	Noida		Yamuna, Hindon River	92.10	637,272

Table 5: Demography of Major Class II Cities in YamunaRiver Basin

S. No.	City/ Town	State	River System	Area (Sq. Km.)	Population (Census 2011)
1	Sahibabad Daulat Pur	NCT of Delhi	Yamuna,Hindon River	5.7	54,773
2	Bawana		Yamuna,Hindon River	17.0	73,680
3	Nithari		Yamuna,Hindon River	2.3	50,464
4	Begum Pur		Yamuna,Hindon River	1.9	53,682
5	Pooth Kalan		Yamuna,Hindon River	7.0	96,002
6	Mukand Pur		Yamuna,Hindon River	2.5	57,135
7	Sadat Pur Gujran		Yamuna,Hindon River	1.1	97,641
8	Khajoori Khas		Yamuna,Hindon River	0.9	76,640
9	Ziauddin Pur		Yamuna,Hindon River	1.8	68,993
10	Jaffrabad		Yamuna,Hindon River	0.9	54,601
11	Gharoli		Yamuna,Hindon River	3.6	92,540
12	Chilla Saroda Bangar		Yamuna,Hindon River	2.6	83,217
13	Bapraula		Yamuna River	5.6	52,744
14	Mundka		Yamuna River	11.9	54,541
15	Roshan Pura		Yamuna River	2.8	57,217
16	Kapas Hera		Yamuna River	3.4	74,073
17	Pul Pehlad		Yamuna,Hindon River	2.2	69,657
18	Taj Pul		Yamuna,Hindon River	1.2	68,796
19	Mitthe Pur		Yamuna, Hindon River	1.8	69,837
20	Molar Band		Yamuna,Hindon River	4.1	91,402
21	Jait Pur		Yamuna,Hindon River	3.8	59,330
22	Hodal	Haryana	Yamuna River	5.39	50,143
23	Panipat Taraf Makhdum Zadgan		Yamuna River	6.54	67,998
24	Ashta	Madhya Pradesh	Prabati river	15.78	53,184
25	Bangarda Chhota		Betwa River	11.19	64,213
26	Basoda		Betwa River	16.55	78,289
27	Sheopur		Parbati River	6.29	71,951
28	Shujalpur		Newaj River	7.74	51,225
29	Ashoknagar		Aur River	4.43	81,828
30	Bina		Bina River	12.00	64,529
31	Gohad		Chambal River	14.91	58,939
32	Jaora		Maleni River	14.54	74,907
33	Khurai		Bina River	11.03	51,108
34	Mandideep		Kaliasot River	12.78	59,654
35	Panna		Kilkila River	10.00	59,091
36	Raghogarh -Vijaypur		Parbati,Chopan,Sindh River	73.79	62,163
37	Sironj		Betwa River	9.99	52,460
38	Tikamgarh		Jamani River	6.22	79,106
39	Shajapur		Chiler River	17.19	69,263
40	Dabra		Sindh River	3.79	61,277
41	Dhar		Narmada River	30.00	95,000

S. No.	City/ Town	State	River System	Area (Sq. Km.)	Population (Census 2011)
42	Jhalawar	Rajasthan	Kali Sindh,Ahu River	12.95	66,919
43	Nimbahera		Banas River	12.74	61,949
44	Bari		Sabarmati, Ayad River	22.27	62,721
45	Chomun		-	22.53	64,417
46	Dausa		Utanganga,Banganga River	16	85,960
47	Karauli		Chambal,Utanganga River	35	82,960
48	Kuchaman		Luni River	12.5	61,969
49	Nasirabad		Luni,Khari River	22.93	50,804
50	Rajsamand		Banas,Gomati, Rajpura River	55	67,798
51	Auraiya	Uttar Pradesh	Sengar,Yamuna,Sindh,Pahuj, Kunwari Rlver	9.00	87,736
52	Baghpat		Yamuna,Hindon River	2.83	50,310
53	Budhana		Kali nadi,Yamuna River	7.61	53,722
54	Chitrakoot Dham (Karwi)		Paisuni,Yamuna River	7.77	57,402
55	Dadri		Yamuna,Hindon River	6.50	91,189
56	Deoband		Hindon River	7.90	97,037
57	Gangoh		Yamuna River	6.00	59,279
58	Jalaun		Yamuna,Betwa,Pahuj River	6.34	56,909
59	Kairana		Yamuna River	7.11	89,000
60	Kalpi		Yamuna,Betwa,Virma River	9.73	51,670
61	Kosi		Yamuna River	4.50	60,074
62	Konch		Dhasan,Betwa,Pahuj River	2.95	53,412
63	Mahoba		Urmil,KaliRiver	12.15	95,216
64	Mauranipur		Sukhnai Nadi,Dhasan River	5.53	61,449
65	Muradnagar		Yamuna,Hindon River	12.00	95,208
66	Rath		Virna,Dhasan,Betwa River	8.12	65,056
67	Sikandarabad		Yamuna, Hindon River	1.14	81,028
68	Tundla		Yamuna,Utangan River	8.25	50,423
69	Vrindavan		Yamuna River	13.50	63,005

Table6: Demography of Major Class II Cities in YamunaRiver Basin

S. No.	City/ Town	State	River System	Area (Sq. Km.)	Population (Census 2011)
1	Ali Pur	NCT OF DELHI	Yamuna,Hindon River	8.6	20,332
2	Libas Pur		Yamuna,Hindon River	2.3	44,,375
3	Siras Pur		Yamuna,Hindon River	4.3	30,445
4	Pehlad Pur Bangar		Yamuna,Hindon River	4.7	22,968
5	Karala		Yamuna,Hindon River	8.8	35,730
6	Kamal Pur Majra Burari		Yamuna,Hindon River	1.3	43,086
7	Jharoda Majra Burari		Yamuna,Hindon River	2.6	22,878
8	Dayal Pur		Yamuna,Hindon River	-	20,589
9	Jiwan Pur alias Johri Pur		Yamuna,Hindon River	1.0	43,054
10	Babar Pur		Yamuna,Hindon River	0.8	37,058
11	Gharonda Neemka Bangar alias Patpar Ganj		Yamuna,Hindon River	1.5	37,876
12	Kondli		Yamuna,Hindon River	1.9	38,207
13	Shafi Pur Ranhola		Yamuna River	4.3	31,944
14	Nilothi		Yamuna,Hindon River	3.9	43,371
15	Quamruddin Nagar		Yamuna,Hindon River	2.4	25,126
16	Dindar Pur		Yamuna River	3.9	35,856
17	Nangli Sakrawati		Yamuna River	3.1	37,706
18	Moradabad Pahari		Yamuna,Hindon River	1.2	21,502
19	Malik Pur Kohi Alias Rang Puri		-	7.5	23,726
20	Aya Nagar		Yamuna,Hindon River	8.2	33,123
21	Chattar Pur		Yamuna,Hindon River	7.4	46,776
22	Tigri		Yamuna,Hindon River	1.1	46,974
23	Aali		Yamuna,Hindon River	4.0	27,169
24	Dharuhera	Haryana	Sahibi River	11.49	30,344
25	Firozpur Jhirka		Yamuna River	8.86	24,750
26	Ganaur		Yamuna River	9.06	35,603
27	Gharaunda		Yamuna River	12.98	37,816
28	Hailey Mandi		Yamuna River	16.27	20,906
29	Jhajjar		Yamuna River	36	48,424
30	Kharkhoda		Yamuna River	1.63	25,051
31	Kundli		Yamuna,Hindon River	7.9	21,633
32	Manesar		Yamuna River	14.7	23,448
33	Palwal (Rural)		Yamuna River	20.1	23,072
34	Panipat Taraf Ansar		Yamuna River	7.88	42,877
35	Pataudi		Yamuna River	13.51	20,418
36	Punahana		Yamuna River	10.12	24,734
37	Samalkha		Yamuna River	4.66	39,710
38	Sampla		Yamuna River	17.83	20,563
39	Sasauli		Yamuna,Markanda River	2.88	22,479
40	Sohna		Yamuna River	9.7	36,552
41	Taoru		Yamuna River	4.52	22,599

42	Tilpat	Haryana	Yamuna,Hindon River	9.92	20,514
43	Ugra Kheri		Yamuna River	4.6	24,440
44	Paonta Sahib	Himachal Pradesh	Yamuna,Giri,Tons River	6.2	25,183
45	Solan		Giri River	6.18	39,256
46	Mussoorie	Uttaranchal	Bhagirathi,Yamuna River	64.75	30,118
47	Agar	Madhya Pradesh	Kali Sindh River	3.52	37,917
48	Alot		Kshipra River	2.78	24,115
49	Amla		Bel Nadi	6.39	30,215
50	Aron		Sindh River	20.01	28,010
51	Banda		Dhasan River	10.02	30,923
52	Badnagar		Chamla River	7.02	36,438
53	Begamganj		Bina River	18.46	34,031
54	Berasia		Baanh River	13.99	30,951
55	Bhander		Pahuj River	1.68	25,204
56	Bhanpura		Ahu River	8.00	21,013
57	Biaora		Parbati River	6.96	49,093
58	Garhakota		Sunar River	2.98	32,726
59	Khachrod		Chambal River	10.40	34,191
60	Maksi		Choti Kali Sindh River	19.19	20,088
61	Manasa		Ratem River	3.61	26,551
62	Pachor		Lakhundar River	25.79	27,396
63	Rahatgarh		Bina River	6.54	31,537
64	Rajgarh		Parbati River	9.36	20,668
65	Rehli		Sunar River	27.86	30,329
66	Tarana		Choti Kali Sindh River	1.45	24,908
67	Ambah		Chambal River	3.85	47,177
68	Bijawar		Dhasan River	25.72	20,513
69	Chanderi		Betwa River	14.87	33,081
70	Karera		Mahuar River	12.00	28,705
71	Lahar		Kwari River	19.04	35,674
72	Maharajpur		Narmada River	14.50	23,328
73	Mungaoli		Betwa River	17.98	26,192
74	Sabalgarh		Chambel River	8.57	40,333
75	Seondha		Sindh River	2.93	23,140
76	Sarangpur		Kali Sindh River	5.68	37,435
77	Badnawar		Mahi River	3.01	20,917
78	Mau		Parbati River	58.69	20,147
79	Bamor Kalan		Betwa River	3.43	32,838
80	Chitrakoot		Yamuna River	83.00	23,316
81	Deori		Narmada River	5.00	25,632
82	Gormi		Kunwari,ChambalRiver	17.00	20,841
83	Indergarh		Pahuj,Sindh River	18.05	23,045
84	Jaura Khurd		Asan,Chambal River	10.42	32,087
85	Jirapur		Kali Sindh River	9.25	21,724
86	Joura		Maleni,Chambal River	4.00	42,153

87	Kailaras		Chambal River	1.72	25,920
88	Laundi		Urmil,Ken River	25.04	22,002
89	Maihar		Mahanadi River	10.36	40,192
90	Mauganj		Sone River	36.91	26,420
91	Mehgaon		Sindh,Kunwari River	4.00	21,335
92	Mhowgaon		Narmada River	13.00	30,012
93	Niwari		Betwa River	14.91	23,724
94	Nowgong		Dhasan River	20.86	40,580
95	Obedullaganj		Tawa,Narmada River	29.86	22,845
96	Porsa		Kwari,Chambal,YamunaRiver	12.17	39,669
97	Prithvipur		Betwa Jamni River	0.55	26,883
98	Rajakhedi		Dhasan River	3.54	24,232
99	Rau		Narmada River	14.74	36,055
100	Shamgarh		Ahu,Chambal River	3.02	24,637
101	Pathari		Bina,Betwa River	19.24	21,026
102	Khajuraho		Khudar,Ken River	59.80	24,481
103	Hatta		Ken,Sunar River	6.29	32,465
104	Narsinghgarh		Parbati River	12.95	32,329
105	Raisen		Betwa River	19.08	44,162
106	Binaganj		Parbati River	11.65	21,860
107	Aklara	Rajasthan	Choti Nadi,Chapi River	5.00	26,240
108	Bagru		-	10.00	26,091
109	Bhawani Mandi		Piplaad,Ahu River	40.00	42,283
110	Chaksu		Banas River	13.25	33,432
111	Chhabra		Parbati River	9.00	32,285
112	Deoli		Banas,Khari River	3.75	22,065
113	Jahazpur		Banas,Khari River	5.00	20,586
114	Jhalrapatan		Kali Sindh,Ahu River	20.17	37,506
115	Kekri		Banas,Khari River	7.00	41,890
116	Keshoraipatan		Chambal,Mez River	25.9	24,627
117	Kotputli		-	36.00	49,202
118	Lakheri		Mez,Parbati,Chambal River	25.00	29,572
119	Lalsot		Banas River	9.42	34,363
120	Malpura		Banas River	45.35	36,028
121	Mangrol		Parbati,KaliSindh River	27.45	25,073
122	Nagar		Banganga River	3.61	25,572
123	Niwai		Banas River	48	37,765
124	Bandikui		Banganga River	5	44,664
125	Bassi		Banganga River	20.4	26,029
126	Behror		-	15.12	29,531
127	Borawar		Khari Rlver	24	24,975
128	Fatehnagar		Banas River	15	22,812

129	Kaithoon	Rajasthan	Chandrelahi, Chambal, Kali Sindh, Parvan River	17.23	24,260
130	Kaprain		Chambal, Mez, Kali Sindh River	64	20,748
131	Khairthal		-	21.09	38,298
132	Manoharpur		-	12.11	20,287
133	Nandri		Banganga, Utangan River	6.9	20,827
134	Nawa		-	24	22,088
135	Ramganj Mandi		Ahu, Kali Sindh River	10.82	41,328
136	Rawatbhata		Chambal River	21.53	37,699
137	Sarwar		Khari River	5	20,372
138	Suket		Ahu, Kali Sindh River	9.52	22,319
139	Todabhim		Banganga, Utangan River	5	22,977
140	Phulera		-	10	26,091
141	Kishangarh Renwal		-	25.94	29,201
142	Reengus		-	30	26,139
143	Sangod		Sangod, Kali Sindh, Parvan River	14.89	21,846
144	Shahpura (Bhilwara)		Banas, Khari, Maansi, Kothari River	56.52	30,320
145	Shahpura (Jaipur)		-	64	33,895
146	Todaraisingh		Banas, Khari River	54.14	23,559
147	Bayana		Utangan River	5.68	38,502
148	Deeg		Yamuna River	3.29	44,999
149	Kaman		Yamuna River	6	38,040
150	Kumher		Yamuna River	19.62	23,540
151	Nadbai		Utangan River	14.91	26,411
152	Rajakhera		Utangan, Chambal River	10	33,666
153	Ramgarh		-	2.57	33,024
154	Sambhar		-	12.5	22,327
155	Shri Madhopur		-	16	31,366
156	Tijara		-	21	24,747
157	Mahwa	Rajasthan	Banganga, Utangan River	3.06	24,846
158	Gulabpura		Khari River	12	27,215
159	Nathdwara		Banas River	24	42,016
160	Antah		Parvan, Kali Sindh, Parbati River	23.48	32,377
161	Begun		Brahmini River	6.62	20,705
162	Karanpur		Banas River	4.85	21,297
163	Rajgarh		Banganga River	25	26,631
164	Kapasan		Banas, Berach River	26.75	20,869
165	Achhnera	Uttar Pradesh	Yamuna, Utangan River	8.0	22,781
166	Babarpur Ajitmal		Yamuna River	5.0	29,284
167	Banat		Eastern Yamuna	2.9	20,728
168	Banki		Betwa River	4.3	21,317
169	Bidhuna		Rind River	10.0	32,252
170	Dasna		Yamuna, Hindon River	3.3	34,914
171	Dibiyapur		Rind, Sengar, Yamuna River	10.0	27,237

172	Fatehpur	Uttar Pradesh	Ganga,Yamuna,Virma, Betwa River	8.0	35,582
173	Hindalco Industries Ltd. (Renukoot)		Renu River	5.0	41,792
174	Jhinhak		Rind,Sengar,Yamuna River	5.4	24,027
175	Kanth		Ramganga,Gangan River	0.8	26,381
176	Khekada		Yamuna,Hindon River	8.0	48,676
177	Kheragarh		Utangan,Yamuna River	3.0	21,470
178	Khurja Rural		Yamuna River	9.7	21,383
179	Kiraoali		Utangan,Yamuna River	5.0	23,788
180	Kora Jahanabad		Rind,Yamuna,Betwa, Ganga River	3.1	26,359
181	Kul Pahar		Dhasan,Urmil River	2.8	20,096
182	Nakur		Yamuna River	6.3	22,712
183	Nanauta		Yamuna,Hindon River	4.0	22,551
184	Pukhrayan		Yamuna,Sengar River	15.0	24,258
185	Purquazi		Kali Nadi,Hindon,Ganga Rlver	4.9	29,041
186	Rampur Maniharan		Hindon,Yamuna River	2.0	27,979
187	Sarwat		Kali Nadi,Ganga, Malini River	6.9	24,846
188	Sewalkhas		Hindon,Yamuna River	4.0	24,882
189	Shahbudinpur		Kali Nadi	4.7	25,157
190	Shahpur		Kali Nadi	2.6	20,154
191	Shamsabad		Utangan,Yamuna, Chambal River	6.0	33,144
192	Sumerpur		Ganga,Sai River	7.5	39,132
193	Villimar Kundi		-	30.7	21,082
194	Ghatampur	Uttar Pradesh	Yamuna,Betwa River	4.00	40,623
195	Etmadpur		Yamuna River	4.00	21,897
196	Jewar		Yamuna River	18.17	32,269
197	Kabrai		Ken River	4.00	28,564
198	Khaga		Ganga,Yamuna River	16.00	35,637
199	Raya		Yamuna River	7.00	21,344
200	Sirsaganj		Yamuna River	2.14	32,098
201	Atarra		Ken,Kali Rlver	10.00	47,419
202	Barua Sagar		Betwa River	5.89	25,028
203	Bharthana		Sengar,Rind,Yamuna, Kunwari,Chambal River	6.00	44,120
204	Bindki		Ganga,Yamuna,Ken River	3.90	36,926
205	Charkhari		Virna River	5.00	27,760
206	Charthawal		Kali Nadi,Hindon River	8.75	20,653
207	Chhata		Yamuna River	14.00	23,537
208	Fatehabad		Yamuna,Utangan, Chambal River	6.00	23,278
209	Fatehpur Sikri		Yamuna,Utangan River	8.00	32,905
210	Govardhan		Yamuna River	8.00	22,756
211	Gursarai		Dhasan,Betwa River	2.24	26,869
212	Hamirpur		Ganga,SaiRiver	3.94	35,475

213	Jalalabad		Ganga,Ramganga River	9.00	38,202
214	Jalalabad		Kali River	4.10	27,921
215	Jalesar		Yamuna River	3.67	38,130
216	Jaswantnagar		Sengar,Chambal, Yamuna River	5.76	28,164
217	Kandhla		Yamuna River	5.96	46,796
218	Karhal		Chambal,Yamuna River	9.58	27,701
219	Khair		Karban Nadi,Yamuna River	15.54	35,751
220	Maudaha		Ken,Betwa,Yamuna, Virna River	6.07	40,003
221	Sadabad		Karwan, Yamuna River	3.97	40,926
222	Samthar		Betwa, Pahuj River	4.00	22,455
223	Thana Bhawan		Hindon,Yamuna River	1.11	36,669
224	Behat		Yamuna River	4.00	20,474
225	Rasulabad		Rind Rlver	8.00	22,196
226	Akbarpur		Sengar,Yamuna River	5.00	20,445
227	Jalalpur		Choti Saryu, Tons River	0.34	31,972
228	Bewar		Virna,Betwa River	9.00	23,729
229	Shamsabad		Ganga River	4.00	28,454

4. Religious Places and Their Importance

Yamuna basinis comprising of parts of six states (Uttarakhand, Himachal Pradesh, Haryana, Uttar Pradesh, Madhya Pradesh and Rajasthan) and one Union territory (National Capital Territory of Delhi).The basin has cultural, religious and traditional richness, marked with the presence of sages, seers, devotees and mystics. Allahabad, Mathura, Vrindavan, Ujjain, Orchha, Maihar, Chitrakoot, Jaipur, Udaipur, Bharatpur, Jhalawarand Karauli are major holy cities for Hindus. Hordes of pilgrims and devotees visit these places of pilgrimage every year and participate in festivals.

Allahabad/Prayaga is an ancient pilgrim site located at the confluence of River Ganga, Yamuna and the mythical Saraswati and plays a central role in Hindu scriptures. Sangam, rivers convergence point, is venue of many sacred fairs and rituals since ancient times which attracts thousands of pilgrims to take a holy dip throughout the year.Among the various festivals and fairs, the Kumbh Melais one of the greatest Indian cultural and religious fair. Magh Mela is another fair that is held annually in the month of Magh (Mid January to Mid February).

Mathura and Vrindavan are the most important places of pilgrimage for devotees of Lord Krishna.These ancient towns witness numerous mesmerizing temples of various ages, and stretch of the sacred Yamuna River which flows past here is lined with 25 ghats. Govardhan, Barsana, Gokul, Nandgaon, Mahavan, Baldeo and Chhatikara are some of the popular places.Mathura was earlier a Buddhist center before Hinduism rose to prominence.

Ujjain is an ideal destination for the spiritual souls, dedicated mostly to the Shaivite, Vaishnavite and followers of Shakta. It is one of the seven sacred cities (Sapta Puri) of the

Hindus located on the eastern bank of the Kshipra River. The place has several old age temples of 10th and 11th centuries and ancient caves which are believed to be in existence since Mahabharata era. Ujjain is one out of four pilgrimage sites in India where the largest Hindu fair (Kumbh Mela) is celebrated in every 12 years. There are about 15 Ghats along river Kshipra.

Orchha is one of the ancient towns situated on the bank of river Betwa and famous for its architectural heritage and its pilgrimage stature. It has many temples but is most famous for the Ram Raja mandir where devotees visit regularly. Orchha receives a huge number of devotees on certain important Hindu festivals like the Ram navami, Makar Sankranti, Vivaha Panchami, Basant Panchami, Shivratri and Kartik Purnima.

Bhojpur is a small town near to Bhopal having historical and religious importance. The place is located on river Betwa, famous for an ancient incomplete Bhojeshwar Temple dedicated to Lord Shiva and an unfinished Jain temple. Bhojeshwar Temple is also known as Somnath of the east. During Maha Shivratri, a big fair is organized every year.

Maihar is one of the 52 Shakti Peethas (shrines) located in the district of Satna, associated with the Goddess Shakti, also known as Sharda Devi. Millions of pilgrims throng the temple all round the year. Chitrakoot, 'the hill of many wonders', lies on the borders of Madhya Pradesh–Uttar Pradesh. The town has spiritual, cultural and historical significance, known for a number of ancient temples as well as bathing ghats along the Mandakini River. The place is renowned as Lord Rama Pilgrimage, and devotees believed that Lord Rama along with his brother Lakshman and goddess Sita spent 11 and half years of their 14 years exile in forests around Chitrakoot. This holy town is crowded with pilgrims visiting throughout the year. Some major religious events and their features have been illustrated in Table 7.

Table 7: Major Religious Events on River Banks in Yamuna and Its Major Tributaries in Yamuna Basin

S No	Religious Events	Place	River Bank	Duration	Period
1	Kumbha Mela	Allahabad	Ganga, Yamuna	January–February	Every twelfth year
2	Kumbha Mela (Simhastha)	Ujjain	Kshipra	When Jupiter ascends into sun sign Leo's quarter or the Simha constellation of zodiac	Every twelfth year
3	Ardh Kumbha Mela	Allahabad	Ganga, Yamuna River	January–February	Every twelfth year
4	Magh Mela	Allahabad	Ganga, Yamuna	January–February	Annual
5	Kartik Poornima	Orchha	Betwa	November	Annual
6	Ganga Dusshera	Allahabad, Garhmukteshwar	Ganga	June	Annual

7	Garh Ganga Mela	Garhmuketeshwar	Ganga	November	Annual
8	Bateshwar Fair	Agra	Yamuna	October–November	Annual
9	Ramayan Mela	Chitrakoot	Mandakini	February, March	Annual
10	Ram Navmi	Orchha	Betwa River	April	Annual
11	Makar Sankranti	Orchha	Betwa River	January 14	Annual
12	Vivaha panchami	Orchha	Betwa River	November–December	Annual
13	Basant Panchami	Orchha	Betwa River	February	Annual
14	Shivratri	Orchha	Betwa River	March	Annual
15	Banganag Fair	Jaipur	Banganga River	April–May	Annual
16	Brij Festival	Bharatpur	Banganga River	March	Annual
17	Chandrabahga Fair	Jhalawar	Chadrabhaga River	November	Annual
18	Kaila Devi Fair	Karauli	Kalisil River	March–April	Annual

5. Pollution Load

The major pollution load in the area of basin under the state is due to point and nonpoint sources. Discharges of untreated/partially treated sewage from urban centres, discharges from open drains carrying sewage, discharges from the tributaries and discharges of untreated/partially treated wastewater from industrial units are the major point sources that contribute to the pollution load in the state. The major nonpoint sources *i.e.*, agricultural activities, sediment remobilization or entrainment, groundwater intrusion or a combination of these sources are also significantly contributed in the pollution. The major towns along the river Yamuna are Kota, Gwalior, Indore, Nagda, Khetri, Yamuna Nagar, Panipat, Sonapat, Delhi, Baghpat, Ghaziabad, Gautam BudhaNagar, Agra, Faridabad and Mathura.

According to Upadhyay and Rai (2013), 8,444 MLD of wastewater is generated in the basin, out of which about 4,458 MLD is discharged directly into the Yamuna river and about 1,200 MLD is discharged into its tributaries. The remaining 2,786 MLD is either disposed of on land or used for irrigation. The large number of pulp and paper, sugar, distillery, leather, textile, chemical, thermal power, and food processing industries situated in Class I and Class II cities (Kota, Gwalior, Indore, Yamuna Nagar, Panipat, Sonapat, Delhi, Baghpat, Ghaziabad, Gautam Buddha Nagar, Faridabad, Mathura, Vrindavan, Agra and others) on the banks of the river Yamuna and its tributaries, directly or indirectly influencing the water quality of river by discharging their treated and untreated effluents into the nearby riverine systems. The estimation of the amount of pollution load generated by the industries and its

contribution in the river Yamuna is a strenuous task. According to Rai et al. (2012), the state-wise maximum industrial effluent generation in Yamuna basin is by Uttar Pradesh (55%), followed by Delhi (18%), Madhya Pradesh (14%), Haryana (7%), Rajasthan (4%) and Himachal Pradesh (2%).

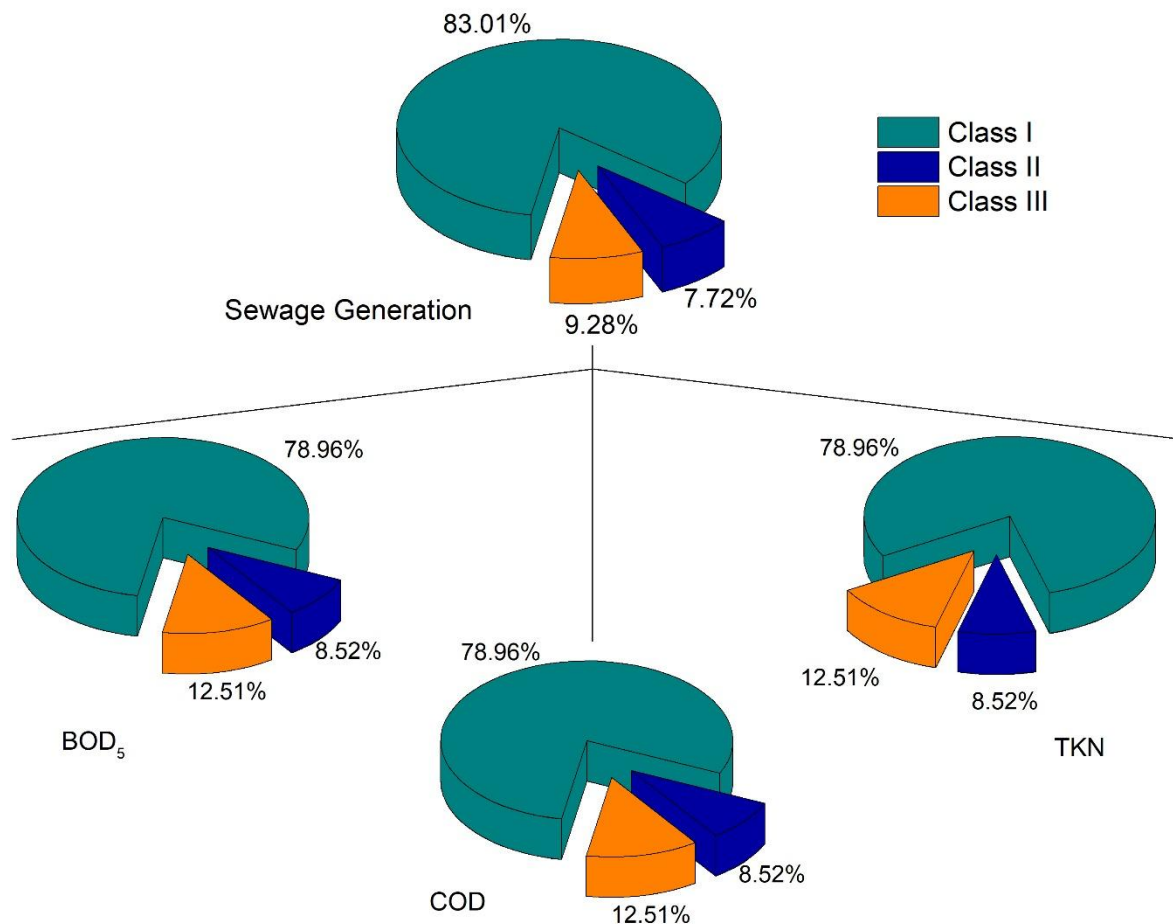


Figure 7: Distribution of Pollution Load of Class I Cities and Class II, Class III Towns in Yamuna Basin

The pollution load for Class I cities, Class II and III towns have been estimated by the data received through rigorous field survey of almost all the major cities and towns in the state (Figure 7). The maximum sewage generation is in the Class I cities (83.01%) followed by Class III (9.28%) and Class II towns (7.72%). The BOD, COD and TKN load for Class I cities, Class II and Class III towns are in the order of 78.96, 8.52 and 12.51%, respectively. The BOD, COD and TKN load of all the Class I cities, Class II and Class III towns are estimated on the per capita basis by using standard values. The domestic water demand is estimated from the population data. The standard water use of 135 lpcd in urban centres is considered for the domestic water requirement and also as per standard 80% of the water is generated as sewage water. The assessment of the total water supply and total sewage generation of class I cities in the state revealed that the maximum sewage generation is in DMC(U). which is 1191.73MLD. In case of the class II towns the sewage generation in Sikandrabad is maximum at 48.79 MLD, approx 800% of its total water supply. The total BOD and COD

loads in tons/day has been estimated for Class I towns and their averages are approximately 13.8 and 23.4 tons/day, respectively. The average BOD and COD loads from the Class II towns are 1.80 and 3.07 tons/day, respectively whereas Class III towns contribute approximately 0.8 tons/day and 1.36 tons/day of BOD and COD, respectively. The maximum BOD, COD and TKN contributing city in Class I towns are DMC(U) while minimum BOD, COD and TKN contribution are made by Nagda. In Class II and Class III towns, maximum BOD, COD and TKN load are from Sadat Pur Gujran and Kotputli, respectively, while minimum contribution are from Hodal and Maksi, respectively.

The estimates of total water supply, total sewage generated, BOD, COD and TKN loads are summarized and illustrated in Figures 8a(Part i) to 10b(Part ii) for class I cities and class II towns. All the plots from Figures 8 to 10 are in two parts (Parts i and ii) for proper understanding of the observations. The comparative account of towns of all the classes (I, II and III) for their population, sewage generation, water supply and BOD, COD and TKN load are presented in Figure 11.

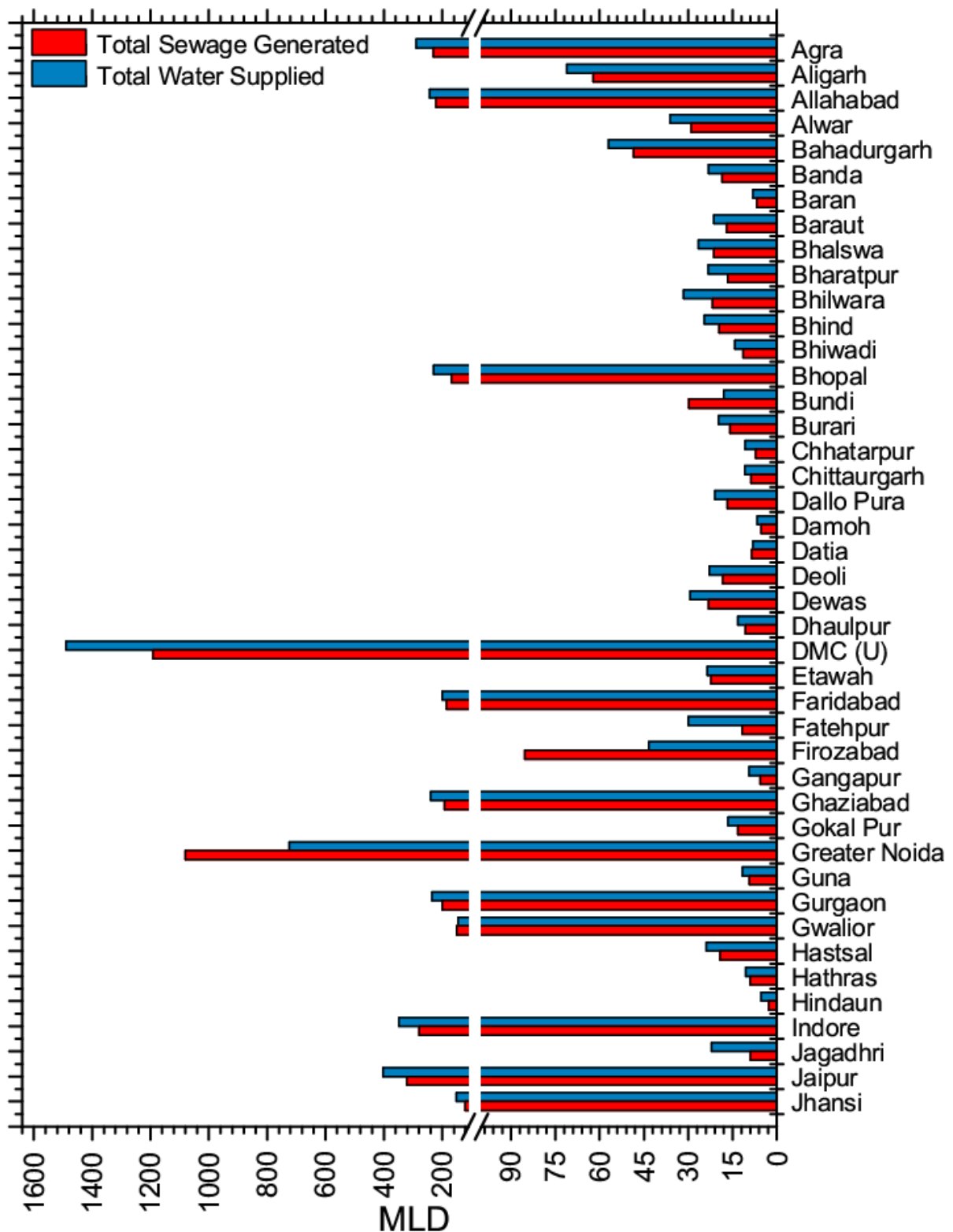


Figure 8a (Part i): Assessment of Water Supply and Sewage Generation (MLD) in Class I Towns in Yamuna River Basin

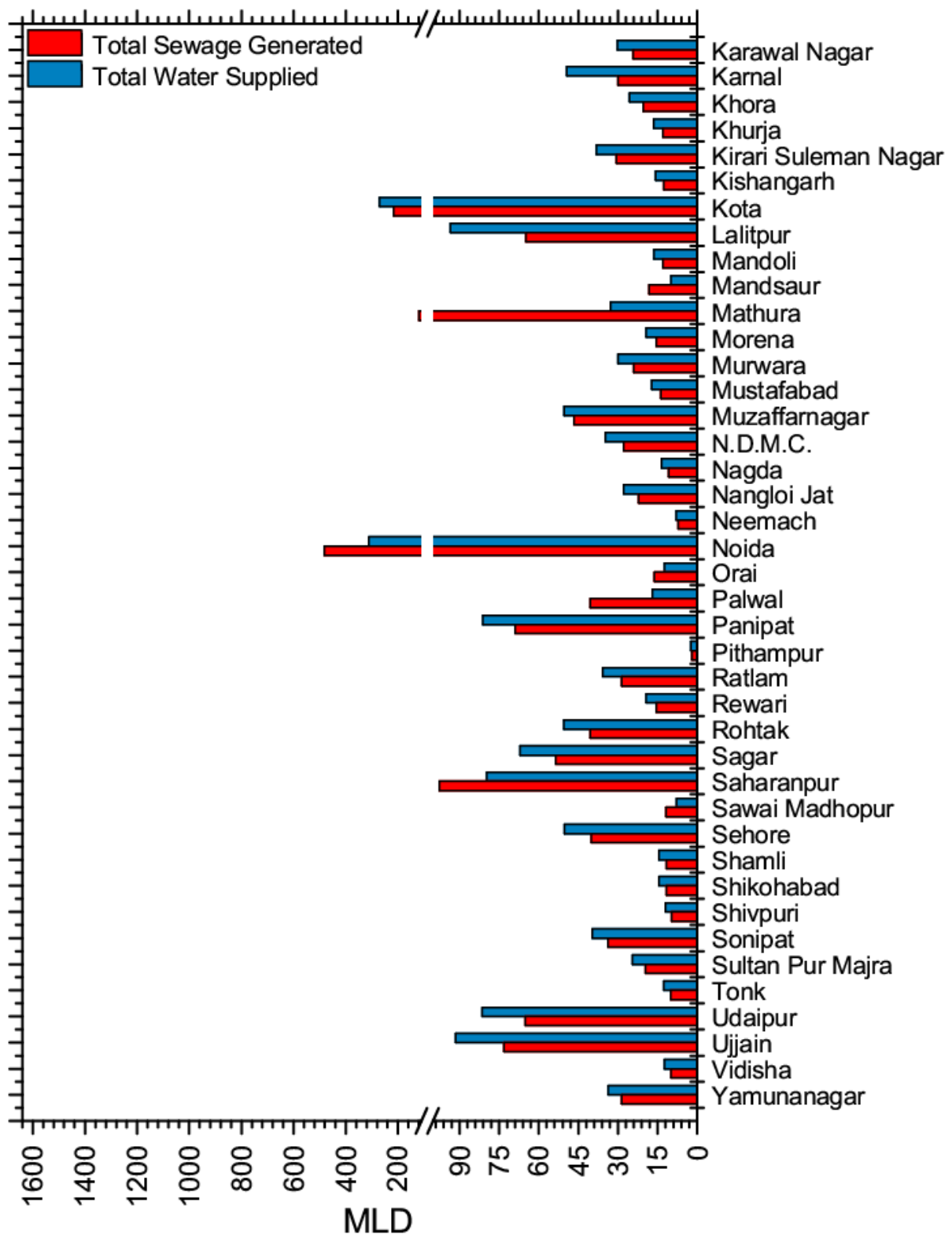


Figure 8a (Part ii): Assessment of Water Supply and Sewage Generation (MLD) in Class I Towns in Yamuna River Basin

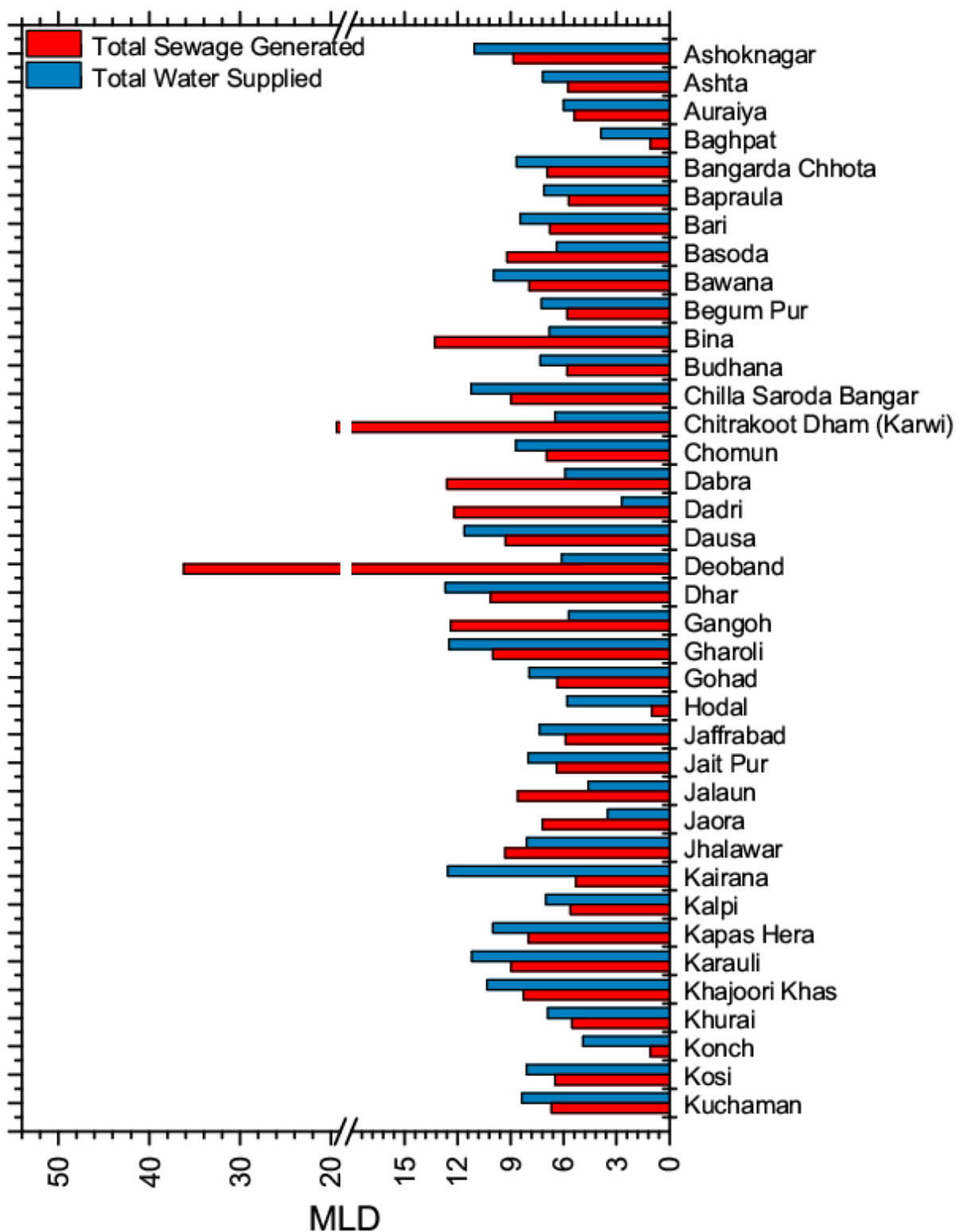


Figure 8b (Part i): Assessment of Water Supply and Sewage Generation (MLD) in Class II Towns in Yamuna River Basin

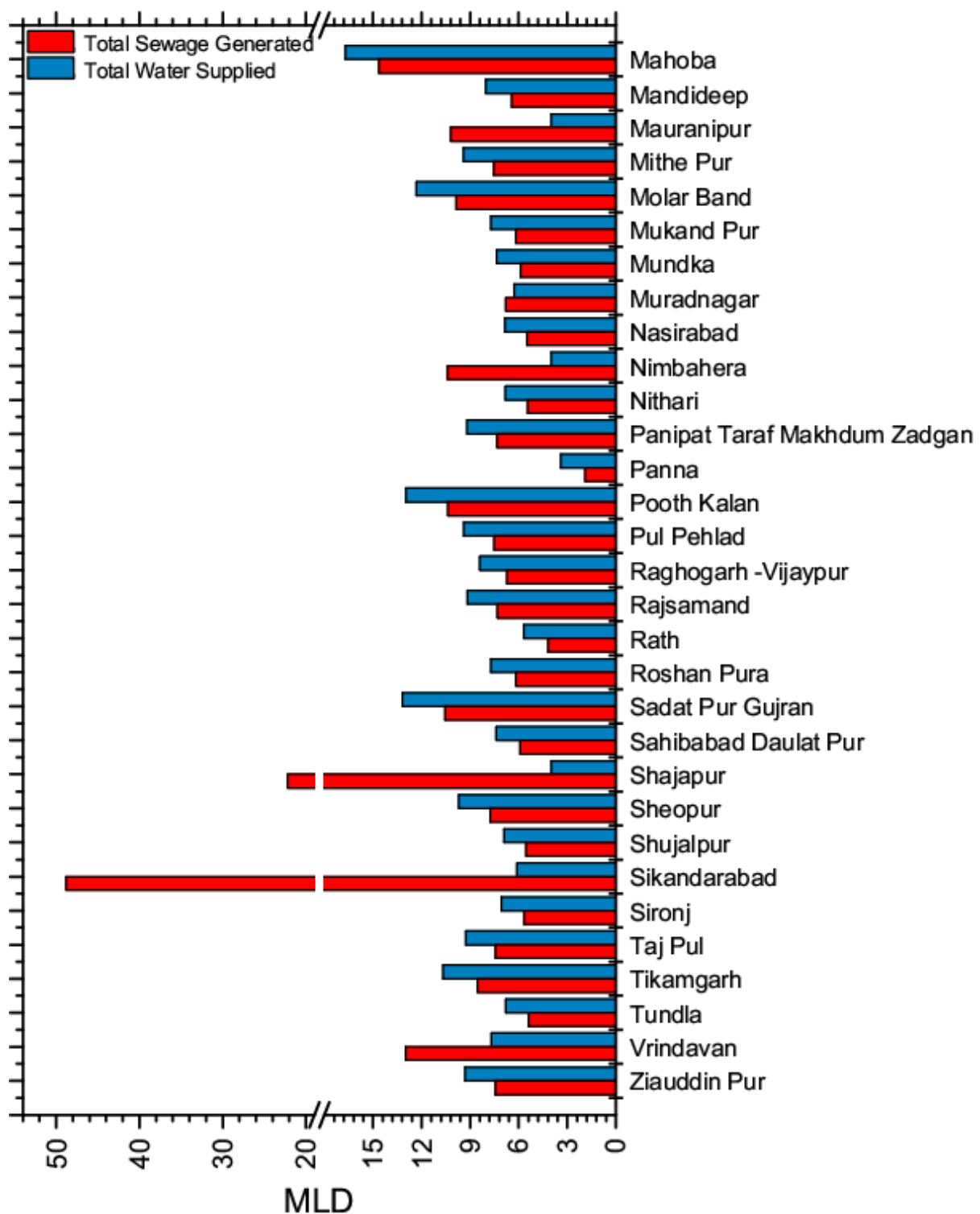


Figure 8b (Part ii): Assessment of Water Supply and Sewage Generation (MLD) in Class II Towns in Yamuna River Basin

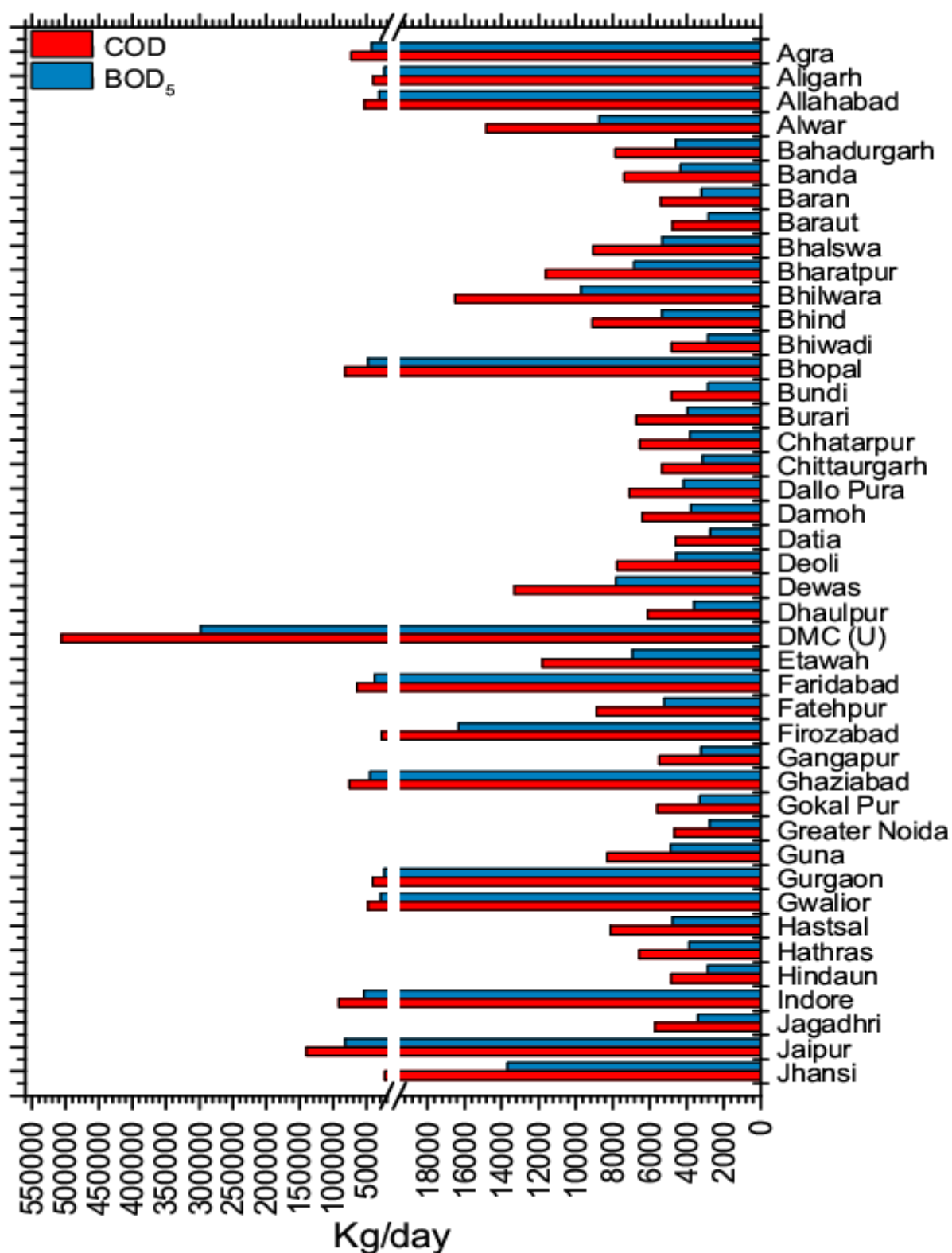


Figure 9a (Part i): Assessment of Water Organic Pollution Load (kg/day) from Class I Towns in Yamuna River Basin

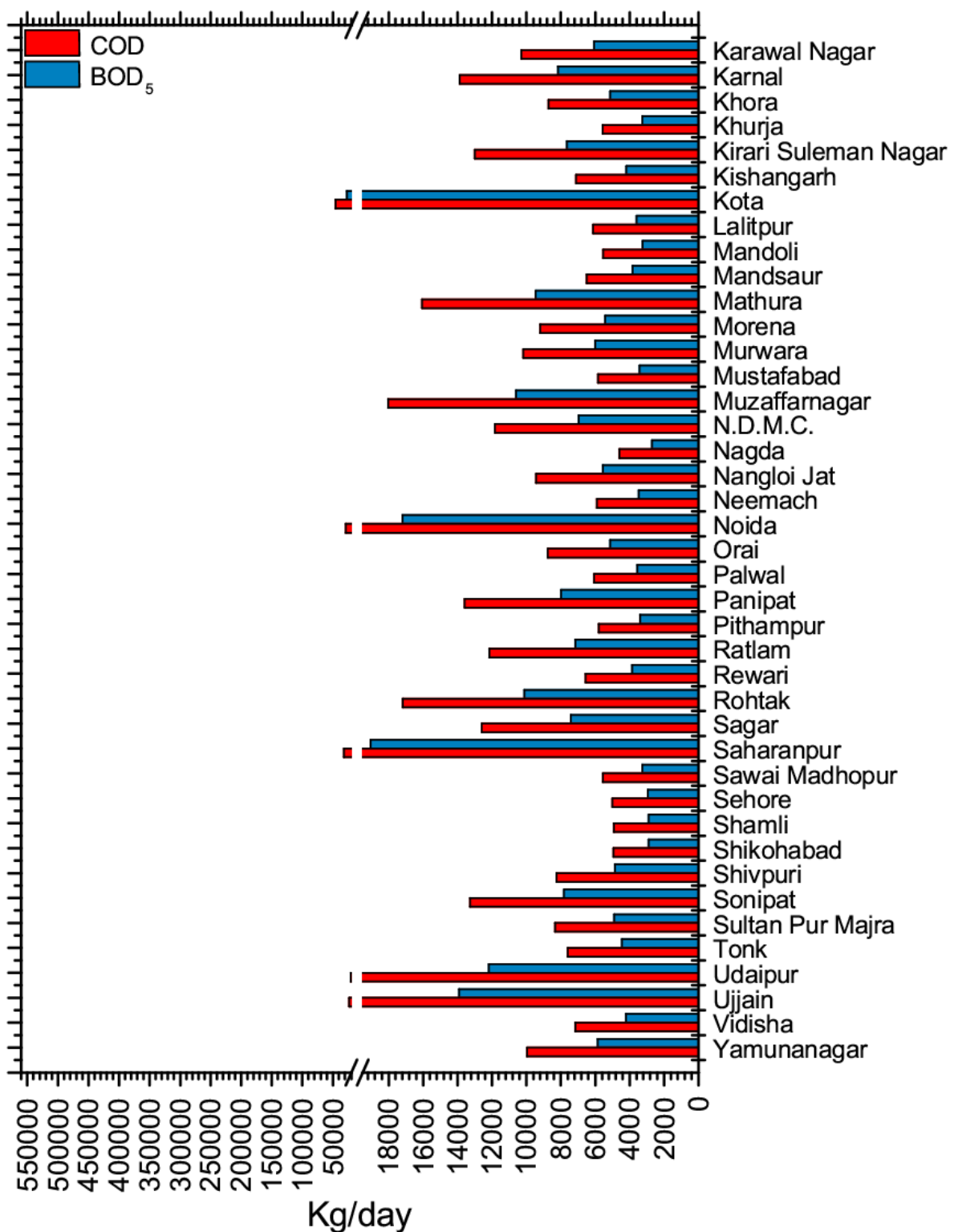


Figure 9a (Part ii): Assessment of Organic Pollution Load (kg/day) from Class I Towns in Yamuna River Basin

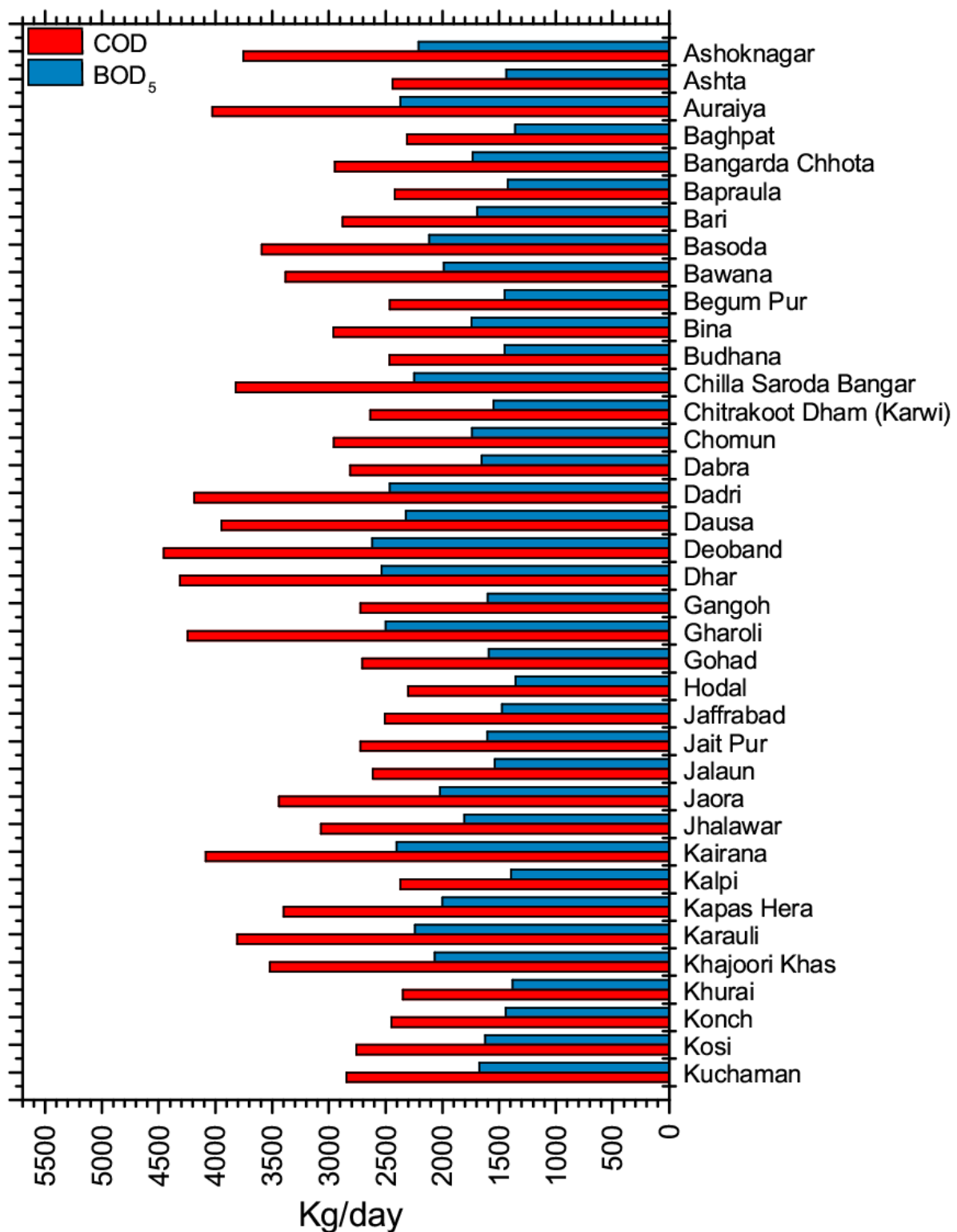


Figure 9b (Part i): Assessment of Water Organic Pollution Load (kg/day) from Class II Towns in Yamuna River Basin

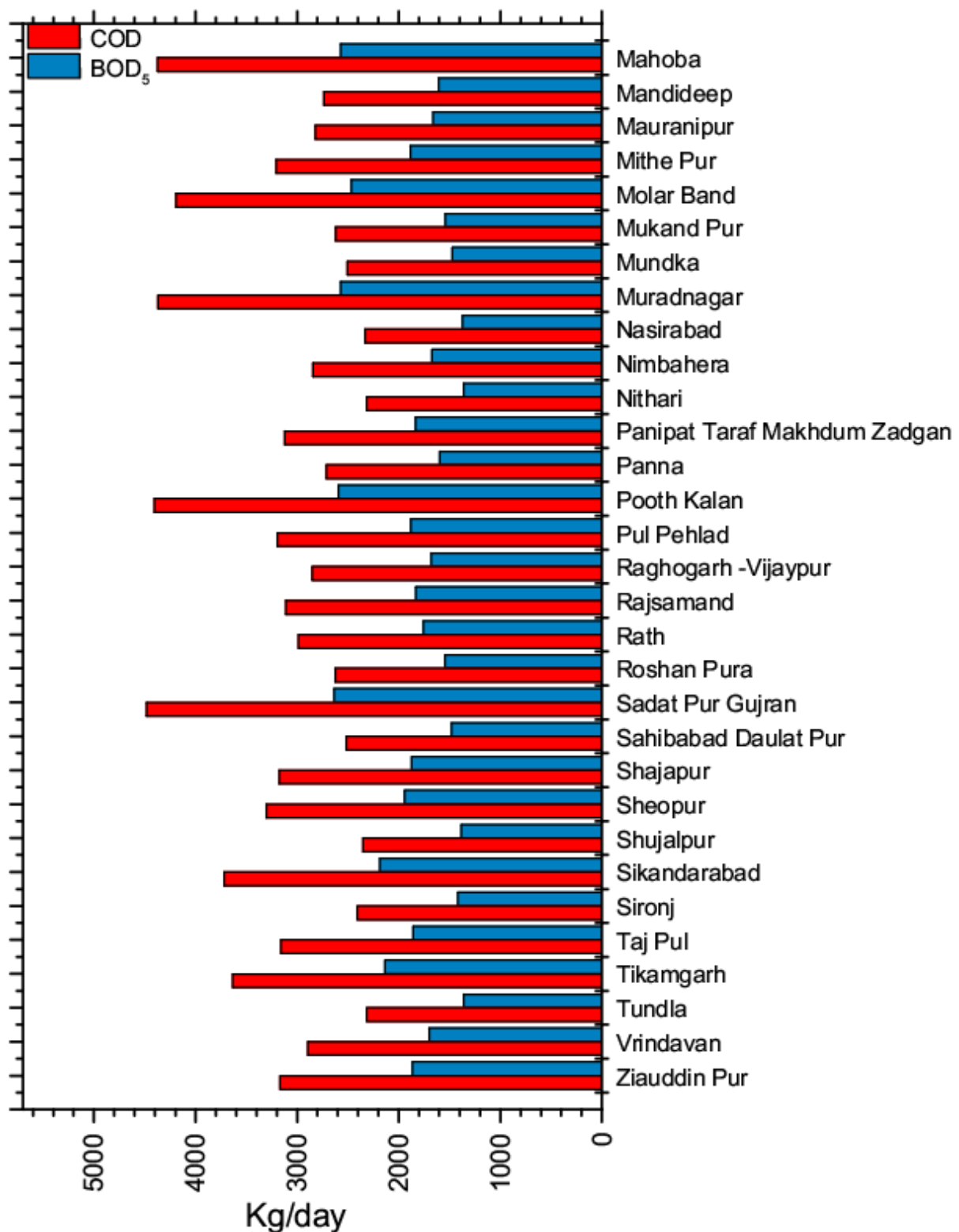


Figure 9b (Part ii): Assessment of Water Organic Pollution Load (kg/day) from Class II Towns in Yamuna River Basin

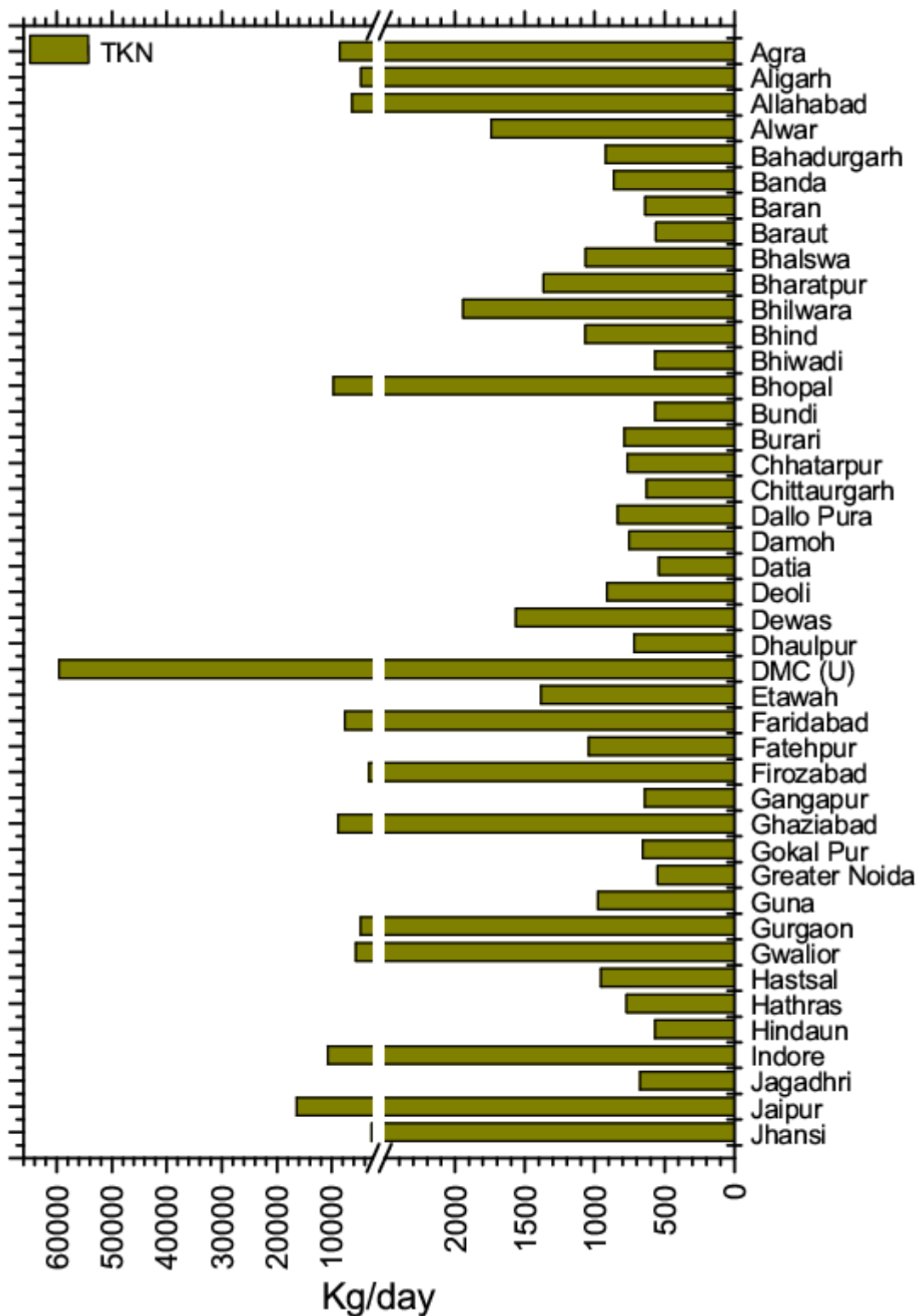


Figure 10a (Part i): Assessment of Water TKN Load (kg/day) from Class I Towns in Yamuna River Basin

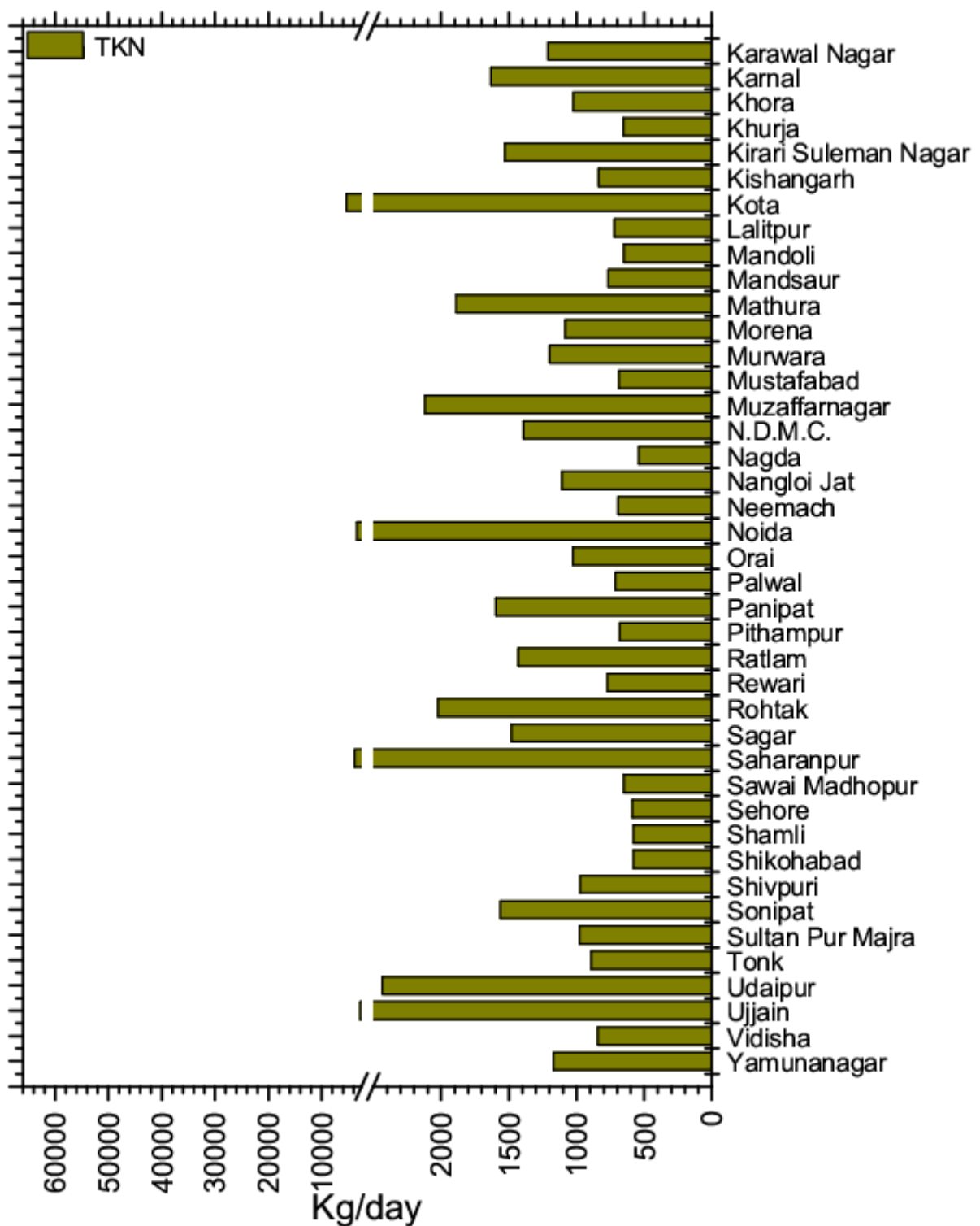


Figure 10a (Part ii): Assessment of Water TKN Load (kg/day) from Class I Towns in Yamuna River Basin

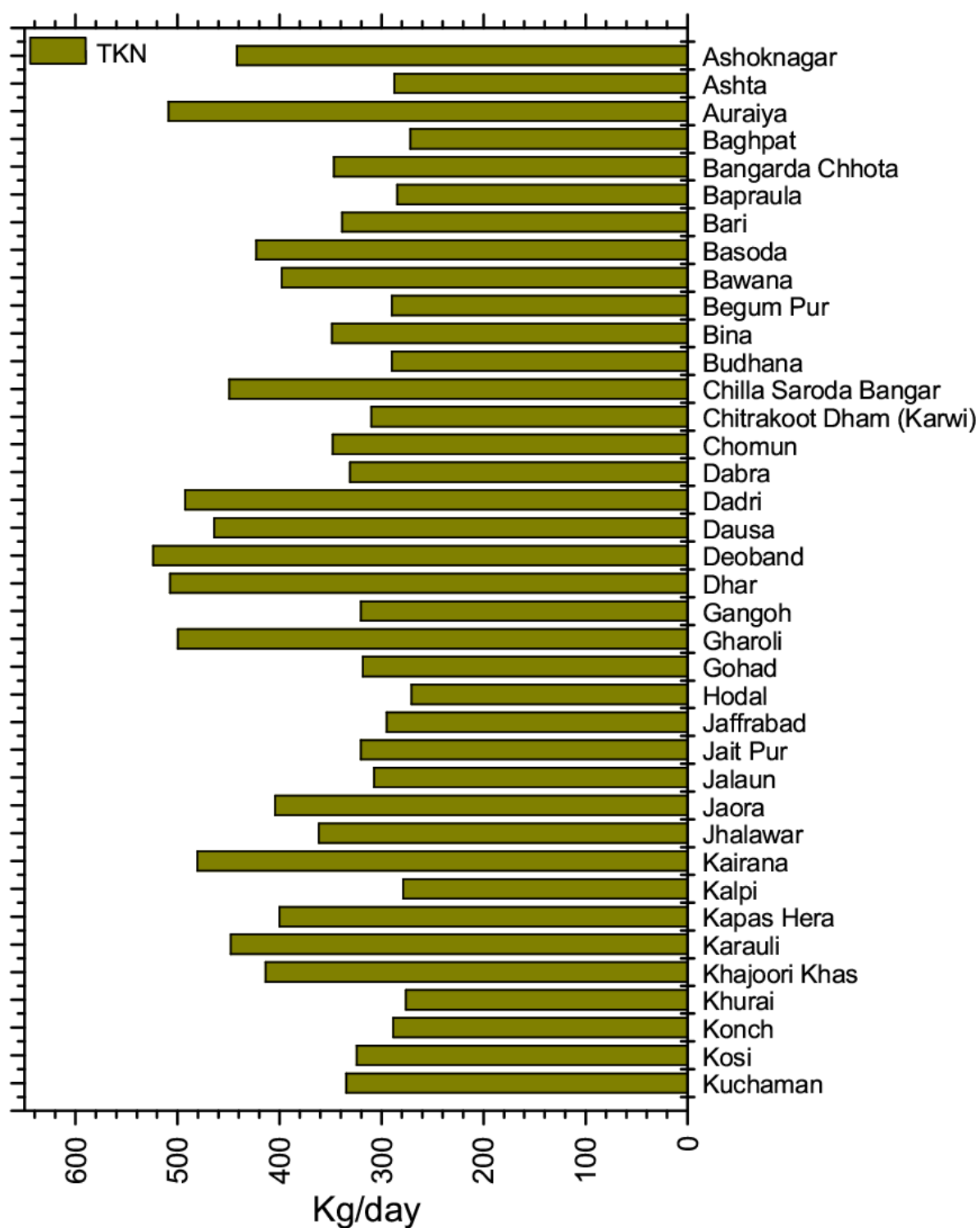


Figure 10b (Part i): Assessment of Water TKN Load (kg/day) from Class II Towns in Yamuna River Basin

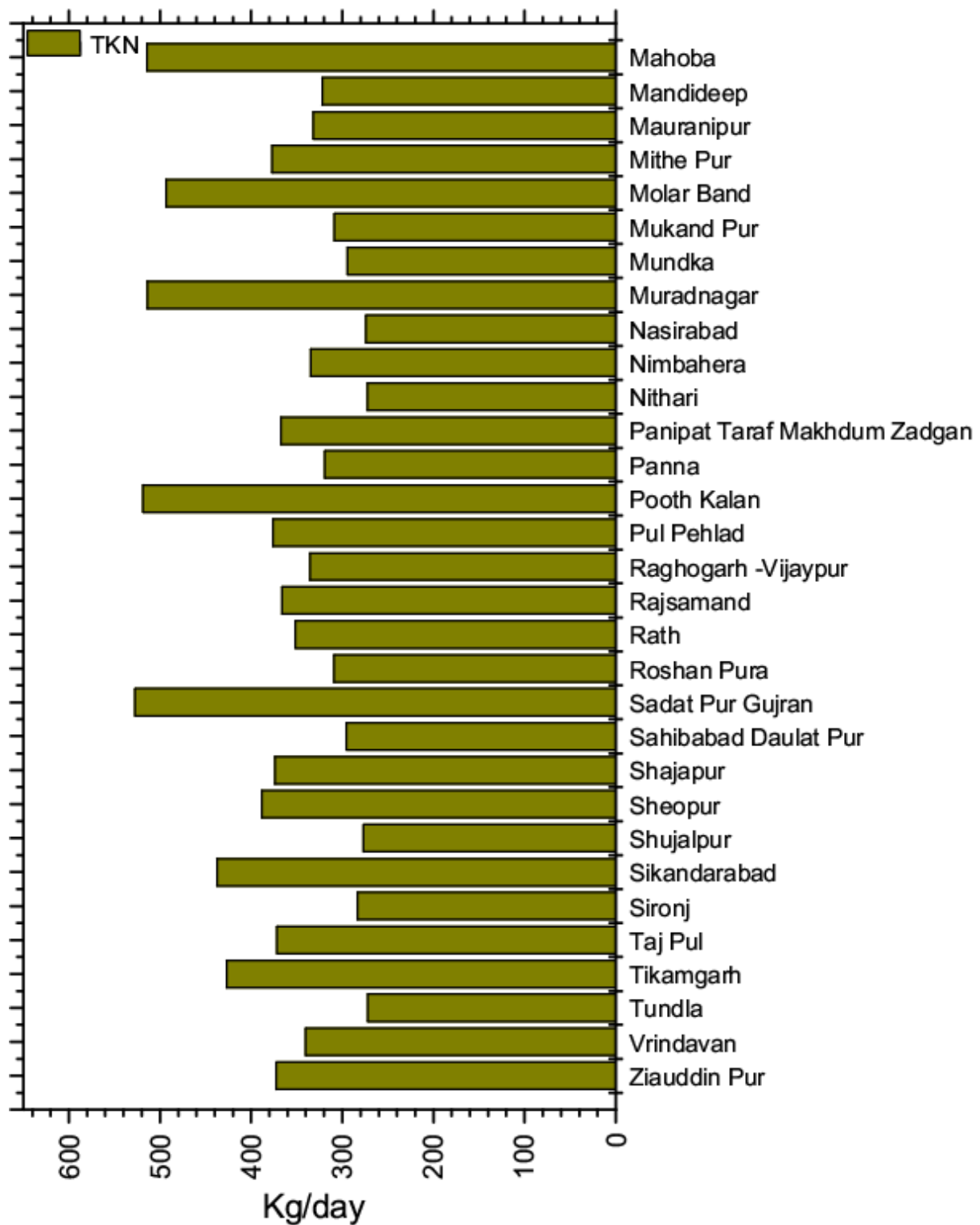


Figure 10b (Part ii): Assessment of Water TKN Load (kg/day) from Class II Towns in Yamuna River Basin

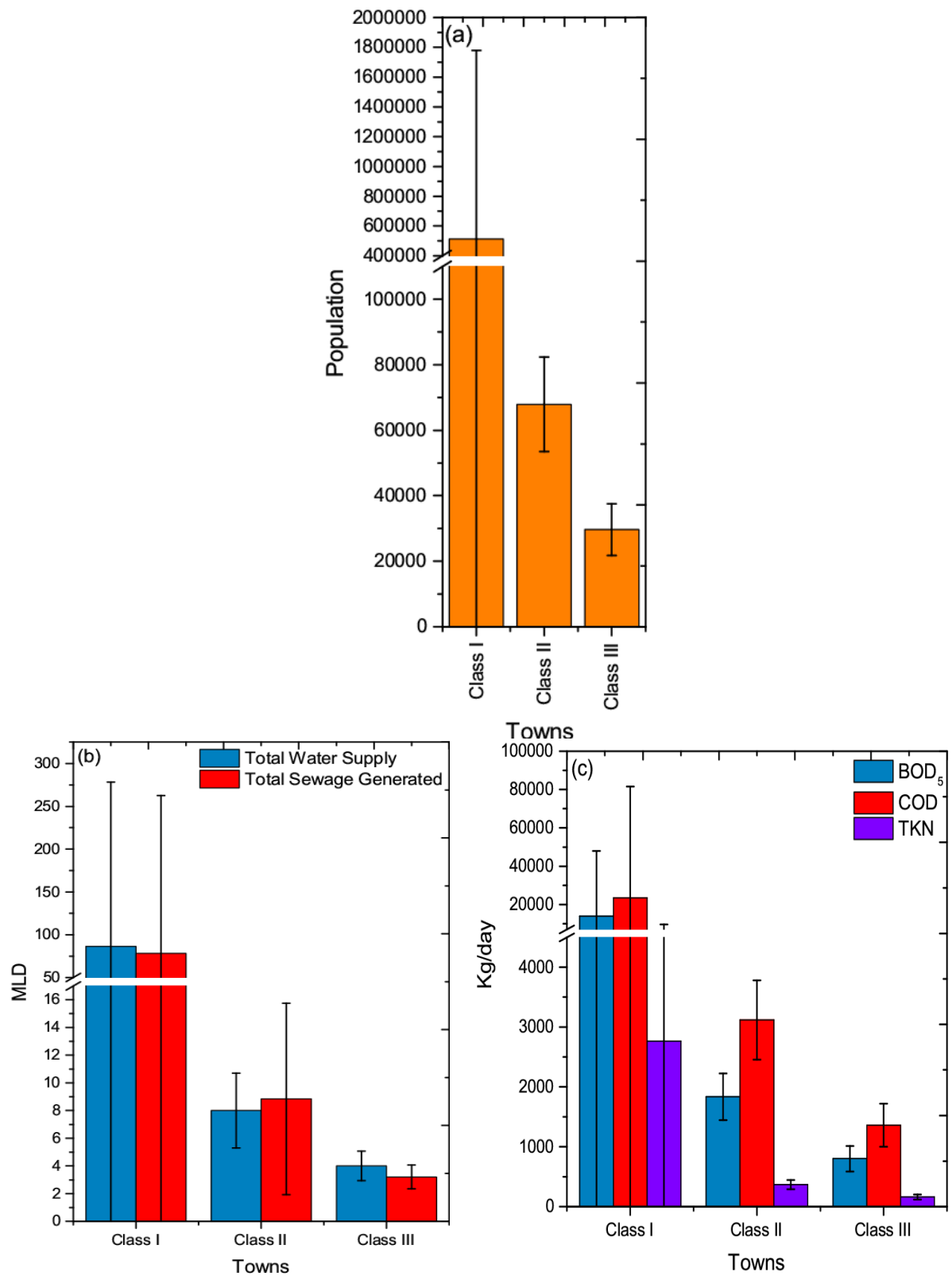


Figure 11: Comparative Analysis of Class I, Class II and Class III Cities/Towns in Yamuna Basin: (a) Population (b) Total Water Supply and Sewage Generation (c) Pollution Load

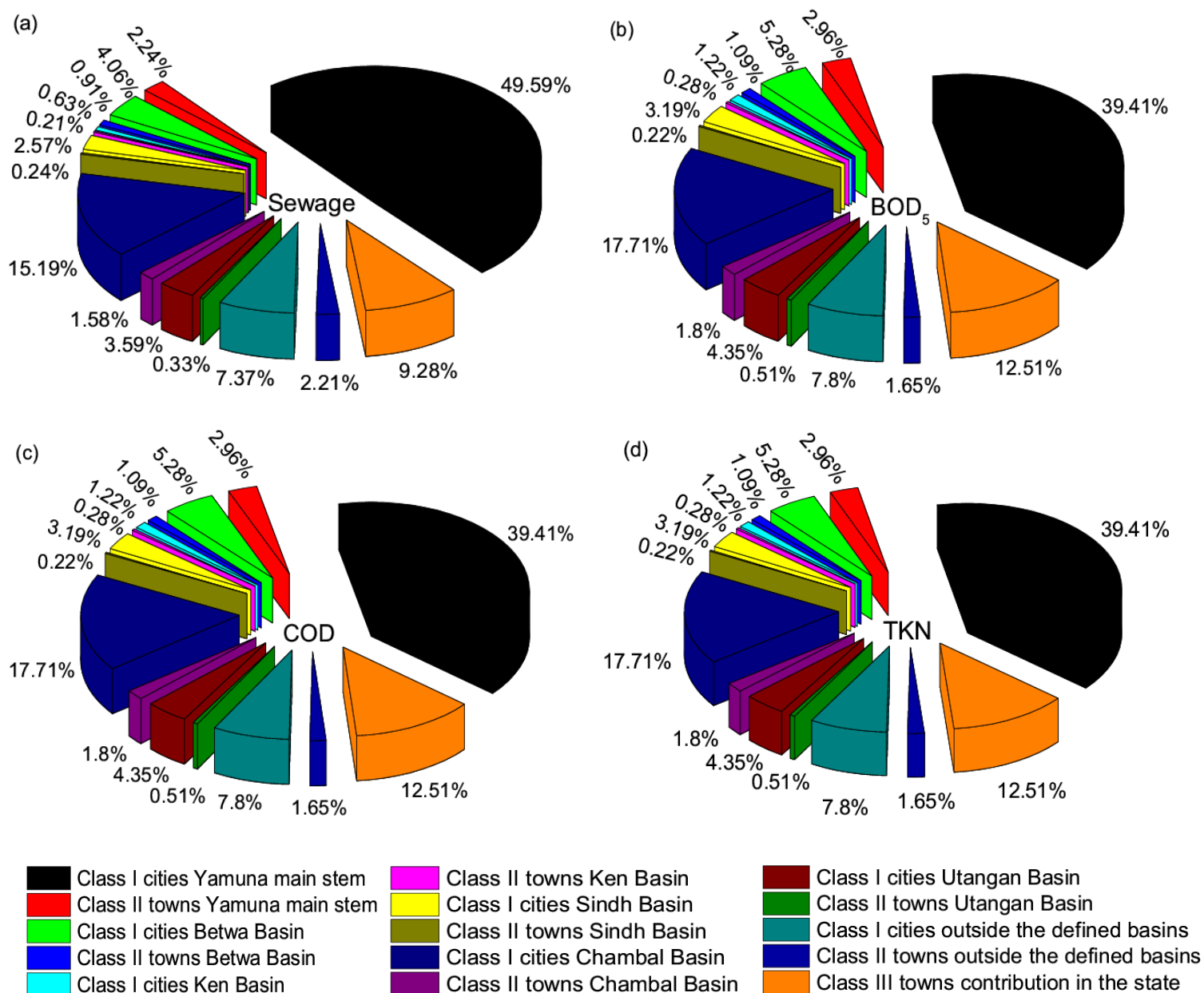


Figure 12 (a-d): Pollution load of Class I Cities and Class II, Class III Towns in Major Basins in Yamuna Basin and Along the Main Stem of the River Yamuna: (a) Sewage Generation; (b) BOD₅; (c) COD; (d) TKN

The pollution loads of Class I cities, Class II and Class III towns under the major sub-basins of river Yamuna in the Yamuna basin have been evaluated (Figure 12a) and the results revealed that the percentage of the total sewage generation is maximum in Class I cities situated along the main stem of Yamuna (49.59%) followed by Class I cities in the Chambal basin (15.19%). Apart from the Chambal basin, other basins generated relatively lesser amount of sewage for Class I cities (Betwa: 4.06%; Utangan: 3.59%; Sindh: 2.57%; Ken: 0.63%). Class I cities outside the selected basins generated 7.37% of the total sewage generated in the Yamuna Basin. The sewage generation for Class II towns in all the

selected sub-basins under Yamuna basin is less than one percent of the total sewage generated in the Yamuna basin by Class I, II and III cities/ towns except in Chambal sub-basin where the Class II towns sewage generation is more than one percent (1.58%). Class II towns outside the major defined sub-basins release 2.21% of sewage water. The Class II towns along the main stem of river Yamuna also contribute a significant 2.24% of the total sewage generation in the Yamuna basin. The percentage sewage generation by Class III towns of the entire Yamuna basin is 9.28%.

The BOD, COD and TKN load contributed by Class I cities of the main stem of Yamuna is 39.41%. The Class III towns of the basin impart around 12.51% of the total BOD, COD and TKN load. The sub-basin wise major contributors of Class I cities for BOD, COD and TKN load are Chambal (17.71%), Betwa (5.28%), Utangan (4.35%), Sindh (3.19%) and Ken (1.22%). But significant BOD, COD and TKN loads are also contributed by the Class I cities and Class II towns lying outside the selected basins (7.80 and 1.65%, respectively). The sub-basin wise contributors of Class II cities for BOD, COD and TKN load are Chambal (1.80%), Betwa (1.09%), Utangan (0.51%), Ken (0.28%) and Sindh (0.22%). The details of the BOD and COD load in the state are presented in Figure 12b and c. The TKN load is presented in Figure 12d.

6. Conclusions

Yamuna river basin is one of the major river basin in India. River Yamuna is a tributary of Ganga river system, originating from the Yamunotri glacier near Bundar Punch in the lower Himalayas at an elevation of about 6,320 m. It is being polluted by many point and nonpoint sources. The scenario of water quality in the system fluctuates from bad to worse based on the spatial and temporal alterations. Multitudinous problems also arise during lean season due to the continuous discharge of untreated and/or partially treated sewage and industrial wastewater. The water quality of the river deteriorates extensively in the middle stretch of the river between Delhi to Agra, where the river gets converted into an open drain due to unavailability of water and merging of large number of cumulative discharges of domestic, industrial and agricultural waste waters. The catchment of the river bears the pollution load of 84 Class I cities, 69 Class II towns and 229 Class III towns, directly or indirectly. The main Class I cities of the state falling on at the bank of Yamuna river are Agra, Allahabad, Delhi, Yamuna Nagar, Etawah, Faridabad, Fatehpur, Greater Noida, Mathura and others.

The maximum sewage generation in the basin is from Class I cities (83.01%) followed by Class III (9.28%) and Class II towns (7.72%). Pollution load (BOD, COD and TKN load) also follows the same trend with maximum values for Class I cities. DMC(U) and Sikandrabad are the Class I and Class II towns, respectively that show maximum sewage generation in comparison to their water supply. The maximum BOD, COD and TKN contributing Class I cities, Class II and III towns are DMC(U), Sadat Pur Gujran and Kotputli while the minimum loads are from Nagda (Class I), Hodal (Class II) and Maksi (Class III) in the basin.

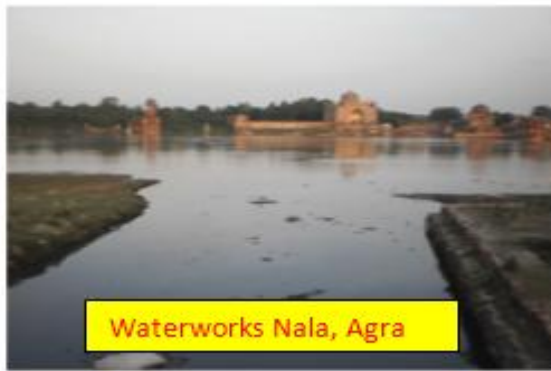


Plate1: Major Drains Disposing Sewage into River Yamuna

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Appendix-1

Compilation of Data Sheets of Water Balance & Pollution Load (Domestic) of Major Class I Cities in Yamuna Basin

Water Balance & Pollution Load (Domestic) Data Sheet

City: Agra		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	120.57
2	Population as in 2011	:	1585704
3	Population Growth Rate as in 2011 (%)	:	24.36
4	Total Number of Wards	:	90
5	Population per Ward (Thousands)	:	17,619
6	Total Number of Household as in 2011	:	267945
7	Number of Household per Ward	:	2977
8	Surface Water Supply (MLD)	:	285
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	7058
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	2
15	Total Pumping Capacity (MLD)	:	285
16	Average Water Supply Rate from ULB Sources (lpcd)	:	179.73
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	288.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	182.00
19	Total Sewage Generation (MLD)*	:	154.40
20	Per Capita Sewage Generation (lpcd)	:	88.20
21	Sewage Collection (MLD)	:	106.50
22	Percentage of Sewage Collection (%)	:	68.98
23	Number of STPs	:	5
24	Total Installed Capacity of STPs under GAP & YAP I & II (MLD)	:	116
25	Current Utilized Capacity of STPs (MLD)	:	106.50
26	Percentage Utilization of Installed Capacity (%)	:	91.80
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	100
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 42814.00
		COD	: 72783.80
		TKN	: 8562.80
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:	11
33	Number of Water Bodies	:	NA
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Aligarh		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		40.43
2	Population as in 2011	:		874408
3	Population Growth Rate as in 2011 (%)	:		30.69
4	Total Number of Wards	:		70
5	Population per Ward (Thousands)	:		12,492
6	Total Number of Household as in 2011	:		147363
7	Number of Household per Ward	:		2105
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		69.10
10	Number of Bore Wells	:		72
11	Ground Water Extraction per Bore Well (MLD)	:		0.96
12	Number of Hand Pumps/ Tubewells	:		4100
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		79.02
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		71.15
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		81.37
19	Total Sewage Generation (MLD)*	:		62.21
20	Per Capita Sewage Generation (lpcd)	:		71.14
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	23609.00
		COD	:	40135.30
		TKN	:	4721.80
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		1
33	Number of Water Bodies	:		21
34	Gross Area of Water Bodies (Hectare)	:		8.42
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Allahabad			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		70.05
2	Population as in 2011	:		1168385
3	Population Growth Rate as in 2011 (%)	:		14.76
4	Total Number of Wards	:		80
5	Population per Ward (Thousands)	:		14605
6	Total Number of Household as in 2011	:		205529
7	Number of Household per Ward	:		2569
8	Surface Water Supply (MLD)	:		70
9	Ground Water (GW) Supply (MLD)	:		171.50
10	Number of Bore Wells	:		189
11	Ground Water Extraction per Bore Well (MLD)	:		1.12
12	Number of Hand Pumps	:		2383
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		3
15	Total Pumping Capacity (MLD)	:		70
16	Average Water Supply Rate from ULB Sources (lpcd)	:		172.50
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		242.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		207.70
19	Total Sewage Generation (MLD)	:		221.40
20	Per Capita Sewage Generation (lpcd)	:		189.50
21	Sewage Collection (MLD)	:		87.50
22	Percentage of Sewage Collection (%)	:		39.50
23	Number of STPs	:		2
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		89
25	Current Utilized Capacity of STPs (MLD)	:		87.50
26	Percentage Utilization of Installed Capacity (%)	:		98.30
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		60
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	25203.60
		COD	:	67256.20
		TKN	:	10230.20
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	31546.40
		COD	:	53628.90
		TKN	:	6309.30
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Ganga, Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		57 (Tapped: 15)
33	Number of Water Bodies	:		17
34	Gross Area of Water Bodies (Hectare)	:		8.44
35	Area of Water Bodies as % of Total Area	:		<<1.0

Water Balance & Pollution Load (Domestic) Data Sheet

City: Alwar		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	48.40
2	Population as in 2011	:	322568
3	Population Growth Rate as in 2011 (%)	:	21.17
4	Total Number of Wards	:	52
5	Population per Ward (Thousands)	:	6203
6	Total Number of Household as in 2011	:	62776
7	Number of Household per Ward	:	1207
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	350
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	36.20
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	112.20
19	Total Sewage Generation (MLD)*	:	29.00
20	Per Capita Sewage Generation (lpcd)	:	89.80
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 8709.30
		COD	: 14805.90
		TKN	: 1741.90
30	Wastewater Disposal Means	:	Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal	:	2
33	Number of Water Bodies	:	0
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Bahadurgarh			State: Haryana	
S. No.	Items			Value
1	Total Area (sq km)	:		29.50
2	Population as in 2011	:		170767
3	Population Growth Rate as in 2011 (%)	:		29.44
4	Total Number of Wards	:		31
5	Population per Ward (Thousands)	:		5509
6	Total Number of Household as in 2011	:		34910
7	Number of Household per Ward	:		1126
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tube wells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		23.10
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		18.40
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		3.00
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		18.00
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		1.00
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	4610.70
		COD	:	7838.20
		TKN	:	922.10
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		2
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Banda			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	16.00
2	Population as in 2011		:	160473
3	Population Growth Rate as in 2011 (%)		:	15.09
4	Total Number of Wards		:	28
5	Population per Ward (Thousands)		:	4980
6	Total Number of Household as in 2011		:	29162
7	Number of Household per Ward		:	1042
8	Surface Water Supply (MLD)		:	9.57
9	Ground Water (GW) Supply (MLD)		:	13.11
10	Number of Bore Wells		:	21
11	Ground Water Extraction per Bore Well (MLD)		:	0.62
12	Number of Hand Pumps/ Tubewells		:	834
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	9.57
16	Average Water Supply Rate from ULB Sources (lpcd)		:	141.14
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	23.10
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	143.90
19	Total Sewage Generation (MLD)*		:	13.50
20	Per Capita Sewage Generation (lpcd)*		:	84.30
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	4
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	4332.80
		COD	:	7365.70
		TKN	:	866.60
30	Wastewater Disposal Means		:	Land & River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Ken River
32	Number of Drains/Nallah for Wastewater Disposal		:	2
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Baran		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	72.36
2	Population as in 2011	:	117992
3	Population Growth Rate as in 2011 (%)	:	49.99
4	Total Number of Wards	:	35
5	Population per Ward (Thousands)	:	3371
6	Total Number of Household as in 2011	:	23277
7	Number of Household per Ward	:	665
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	950
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	8.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	71.80
19	Total Sewage Generation (MLD)*	:	6.80
20	Per Capita Sewage Generation (lpcd)	:	57.60
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 3185.80
		COD	: 5415.80
		TKN	: 637.20
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Parbati, Parvan, Kali Sindh River
32	Number of Drains/Nallah for Wastewater Disposal	:	3
33	Number of Water Bodies	:	3
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Baraut			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		10.36
2	Population as in 2011	:		103764
3	Population Growth Rate as in 2011 (%)	:		21.07
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		4,151
6	Total Number of Household as in 2011	:		17924
7	Number of Household per Ward	:		717
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		21
10	Number of Bore Wells	:		18
11	Ground Water Extraction per Bore Well (MLD)	:		1.17
12	Number of Hand Pumps/ Tubewells	:		424
13	Ground Water Extraction per Hand Pump (lpcd)	:		600
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		202.40
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		21.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		204.80
19	Total Sewage Generation (MLD)*	:		7.90
20	Per Capita Sewage Generation (lpcd)*	:		76.40
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2801.60
		COD	:	4762.80
		TKN	:	560.30
30	Wastewater Disposal Means	:		Land & River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		3
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Bhalswa Jahangir Pur			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		6.70
2	Population as in 2011	:		197148
3	Population Growth Rate as in 2011 (%)	:		29.41
4	Total Number of Wards	:		3
5	Population per Ward (Thousands)	:		65716
6	Total Number of Household as in 2011	:		38157
7	Number of Household per Ward	:		12719
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		26.60
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		21.30
20	Per Capita Sewage Generation (lpcd)*	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	5323.00
		COD	:	9049.10
		TKN	:	1064.60
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		4
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Bharatpur		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	57.77
2	Population as in 2011	:	252838
3	Population Growth Rate as in 2011 (%)	:	23.19
4	Total Number of Wards	:	53
5	Population per Ward (Thousands)	:	4771
6	Total Number of Household as in 2011	:	45914
7	Number of Household per Ward	:	9866
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	131
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	23.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	92.00
19	Total Sewage Generation (MLD)*	:	16.60
20	Per Capita Sewage Generation (lpcd)	:	65.70
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 6826.60
		COD	: 11605.30
		TKN	: 1365.30
30	Wastewater Disposal Means	:	Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal	:	3
33	Number of Water Bodies	:	8
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Bhilwara		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	118.49
2	Population as in 2011	:	359483
3	Population Growth Rate as in 2011 (%)	:	28.33
4	Total Number of Wards	:	50
5	Population per Ward (Thousands)	:	7,190
6	Total Number of Household as in 2011	:	74184
7	Number of Household per Ward	:	1484
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	1600
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	32.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	90.10
19	Total Sewage Generation (MLD)*	:	21.70
20	Per Capita Sewage Generation (lpcd)	:	60.40
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 9706.00
		COD	: 16500.30
		TKN	: 1941.20
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Kothari, Banas River
32	Number of Drains/Nallah for Wastewater Disposal	:	3
33	Number of Water Bodies	:	9
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Bhind		State: Madhya Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	17.18
2	Population as in 2011	:	197585
3	Population Growth Rate as in 2011 (%)	:	28.51
4	Total Number of Wards	:	39
5	Population per Ward (Thousands)	:	5,066
6	Total Number of Household as in 2011	:	33592
7	Number of Household per Ward	:	861
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	19.08
10	Number of Bore Wells	:	42
11	Ground Water Extraction per Bore Well (MLD)	:	0.45
12	Number of Hand Pumps/ Tubewells	:	5400
13	Ground Water Extraction per Hand Pump (lpcd)	:	1000
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	24.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	124.00
19	Total Sewage Generation (MLD)*	:	19.60
20	Per Capita Sewage Generation (lpcd)	:	99.20
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 5334.80
		COD	: 9069.20
		TKN	: 1067.00
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Kunwari River
32	Number of Drains/Nallah for Wastewater Disposal	:	2
33	Number of Water Bodies	:	2
34	Gross Area of Water Bodies (Hectare)	:	27.00
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Bhiwadi		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	44.06
2	Population as in 2011	:	104921
3	Population Growth Rate as in 2011 (%)	:	209.71
4	Total Number of Wards	:	35
5	Population per Ward (Thousands)	:	2998
6	Total Number of Household as in 2011	:	24449
7	Number of Household per Ward	:	699
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	NA
13	Ground Water Extraction per Hand Pump (lpcd)	:	NA
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	14.20
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	NA
19	Total Sewage Generation (MLD)*	:	11.30
20	Per Capita Sewage Generation (lpcd)	:	107.70
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 2832.90
		COD	: 4815.90
		TKN	: 566.60
30	Wastewater Disposal Means	:	Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal	:	NA
33	Number of Water Bodies	:	1
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Bhopal		State: Madhya Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	285.88
2	Population as in 2011	:	1798218
3	Population Growth Rate as in 2011 (%)	:	23.30
4	Total Number of Wards	:	70
5	Population per Ward (Thousands)	:	25,689
6	Total Number of Household as in 2011	:	382690
7	Number of Household per Ward	:	5467
8	Surface Water Supply (MLD)	:	211.96
9	Ground Water (GW) Supply (MLD)	:	15.14
10	Number of Bore Wells	:	1675
11	Ground Water Extraction per Bore Well (MLD)	:	0.01
12	Number of Hand Pumps/ Tubewells	:	5275
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	211.96
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	229.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	127.70
19	Total Sewage Generation (MLD)*	:	168.50
20	Per Capita Sewage Generation (lpcd)	:	93.70
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 48551.90
		COD	: 82538.20
		TKN	: 9710.40
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Betwa River
32	Number of Drains/Nallah for Wastewater Disposal	:	5
33	Number of Water Bodies	:	29
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Bundi		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	27.79
2	Population as in 2011	:	104919
3	Population Growth Rate as in 2011 (%)	:	18.06
4	Total Number of Wards	:	41
5	Population per Ward (Thousands)	:	2559
6	Total Number of Household as in 2011	:	20555
7	Number of Household per Ward	:	501
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	372
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	1
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	18.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	171.60
19	Total Sewage Generation (MLD)*	:	29.80
20	Per Capita Sewage Generation (lpcd)	:	284
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 2832.80
		COD	: 4815.80
		TKN	: 566.60
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Mez River
32	Number of Drains/Nallah for Wastewater Disposal	:	4
33	Number of Water Bodies	:	7
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Burari		State: NCT Delhi	
S. No.	Items		Value
1	Total Area (sq km)	:	11.20
2	Population as in 2011	:	146190
3	Population Growth Rate as in 2011 (%)	:	110.85
4	Total Number of Wards	:	3
5	Population per Ward (Thousands)	:	48730
6	Total Number of Household as in 2011	:	28610
7	Number of Household per Ward	:	9537
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	NA
13	Ground Water Extraction per Hand Pump (lpcd)	:	NA
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	NA
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	19.70
19	Total Sewage Generation (MLD)*	:	135.00
20	Per Capita Sewage Generation (lpcd)	:	15.80
21	Sewage Collection (MLD)	:	108.00
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 3947.10
		COD	: 6710.10
		TKN	: 789.40
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:	NA
33	Number of Water Bodies	:	2
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Chhatarpur		State: Madhya Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	15.56
2	Population as in 2011	:	142128
3	Population Growth Rate as in 2011 (%)	:	30.30
4	Total Number of Wards	:	40
5	Population per Ward (Thousands)	:	3,553
6	Total Number of Household as in 2011	:	26793
7	Number of Household per Ward	:	670
8	Surface Water Supply (MLD)	:	0.75
9	Ground Water (GW) Supply (MLD)	:	1.67
10	Number of Bore Wells	:	10
11	Ground Water Extraction per Bore Well (MLD)	:	0.17
12	Number of Hand Pumps/ Tubewells	:	16480
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	0.75
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	10.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	75.30
19	Total Sewage Generation (MLD)*	:	7.20
20	Per Capita Sewage Generation (lpcd)	:	50.70
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 3837.50
		COD	: 6523.70
		TKN	: 767.50
30	Wastewater Disposal Means	:	Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal	:	2
33	Number of Water Bodies	:	7
34	Gross Area of Water Bodies (Hectare)	:	10.00
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Chittaurgarh		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	41.76
2	Population as in 2011/2001	:	116406
3	Population Growth Rate as in 2011 (%)	:	20.98
4	Total Number of Wards	:	40
5	Population per Ward (Thousands)	:	2,910
6	Total Number of Household as in 2011	:	24739
7	Number of Household per Ward	:	618
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	513
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	11.10
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	95.00
19	Total Sewage Generation (MLD)*	:	8.60
20	Per Capita Sewage Generation (lpcd)	:	74.20
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 3143.00
		COD	: 5343.00
		TKN	: 628.60
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Gambhiri River
32	Number of Drains/Nallah for Wastewater Disposal	:	2
33	Number of Water Bodies	:	18
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Dallo Pura		State: NCT Delhi	
S. No.	Items		Value
1	Total Area (sq km)	:	2.29
2	Population as in 2011/2001	:	154791
3	Population Growth Rate as in 2011 (%)	:	16.72
4	Total Number of Wards	:	4
5	Population per Ward (Thousands)	:	38697.75
6	Total Number of Household as in 2011	:	31009
7	Number of Household per Ward	:	7752
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	NA
13	Ground Water Extraction per Hand Pump (lpcd)	:	NA
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	20.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	135.00
19	Total Sewage Generation (MLD)*	:	16.70
20	Per Capita Sewage Generation (lpcd)	:	108.00
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 4179.40
		COD	: 7104.90
		TKN	: 835.90
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:	NA
33	Number of Water Bodies	:	NA
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Damoh		State: Madhya Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	33.23
2	Population as in 2011/2001	:	139561
3	Population Growth Rate as in 2011 (%)	:	9.06
4	Total Number of Wards	:	39
5	Population per Ward (Thousands)	:	3,578
6	Total Number of Household as in 2011	:	28274
7	Number of Household per Ward	:	725
8	Surface Water Supply (MLD)	:	6.30
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	550
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	6.30
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	6.60
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	47.30
19	Total Sewage Generation (MLD)*	:	5.30
20	Per Capita Sewage Generation (lpcd)	:	37.80
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 3768.10
		COD	: 6405.80
		TKN	: 753.60
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Sunar River
32	Number of Drains/Nallah for Wastewater Disposal	:	1
33	Number of Water Bodies	:	9
34	Gross Area of Water Bodies (Hectare)	:	119.44
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Datia		State: Madhya Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	6.64
2	Population as in 2011/2001	:	100284
3	Population Growth Rate as in 2011 (%)	:	21.18
4	Total Number of Wards	:	36
5	Population per Ward (Thousands)	:	2,786
6	Total Number of Household as in 2011	:	19254
7	Number of Household per Ward	:	535
8	Surface Water Supply (MLD)	:	4
9	Ground Water (GW) Supply (MLD)	:	1
10	Number of Bore Wells	:	26
11	Ground Water Extraction per Bore Well (MLD)	:	0.04
12	Number of Hand Pumps/ Tubewells	:	3000
13	Ground Water Extraction per Hand Pump (lpcd)	:	1000
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	4
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	8.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	79.80
19	Total Sewage Generation (MLD)*	:	8.50
20	Per Capita Sewage Generation (lpcd)	:	84.80
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 2707.70
		COD	: 4603.00
		TKN	: 541.50
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Pahuj River
32	Number of Drains/Nallah for Wastewater Disposal	:	4
33	Number of Water Bodies	:	10
34	Gross Area of Water Bodies (Hectare)	:	60.80
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Deoli		State: NCT Delhi	
S. No.	Items		Value
1	Total Area (sq km)	:	10.10
2	Population as in 2011/2001	:	169122
3	Population Growth Rate as in 2011 (%)	:	41.56
4	Total Number of Wards	:	3
5	Population per Ward (Thousands)	:	56374
6	Total Number of Household as in 2011	:	32344
7	Number of Household per Ward	:	10781
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	NA
13	Ground Water Extraction per Hand Pump (lpcd)	:	NA
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	NA
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	22.80
19	Total Sewage Generation (MLD)*	:	135.00
20	Per Capita Sewage Generation (lpcd)	:	18.30
21	Sewage Collection (MLD)	:	108.00
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 4566.30
		COD	: 7762.70
		TKN	: 913.30
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:	NA
33	Number of Water Bodies	:	1
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Dewas		State: Madhya Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	100.22
2	Population as in 2011/2001	:	289550
3	Population Growth Rate as in 2011 (%)	:	24.98
4	Total Number of Wards	:	45
5	Population per Ward (Thousands)	:	6,434
6	Total Number of Household as in 2011	:	57397
7	Number of Household per Ward	:	1275
8	Surface Water Supply (MLD)	:	6.35
9	Ground Water (GW) Supply (MLD)	:	4
10	Number of Bore Wells	:	507
11	Ground Water Extraction per Bore Well (MLD)	:	0.01
12	Number of Hand Pumps/ Tubewells	:	236
13	Ground Water Extraction per Hand Pump (lpcd)	:	4238
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	6.35
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	29.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	101.50
19	Total Sewage Generation (MLD)*	:	23.10
20	Per Capita Sewage Generation (lpcd)	:	79.80
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 7817.90
		COD	: 13290.30
		TKN	: 1563.60
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Kshipra River
32	Number of Drains/Nallah for Wastewater Disposal	:	3
33	Number of Water Bodies	:	2
34	Gross Area of Water Bodies (Hectare)	:	3.06
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Dhaulpur		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	32.03
2	Population as in 2011	:	133075
3	Population Growth Rate as in 2011 (%)	:	36.08
4	Total Number of Wards	:	42
5	Population per Ward (Thousands)	:	3168
6	Total Number of Household as in 2011	:	22563
7	Number of Household per Ward	:	537
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	320
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	13.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	100.40
19	Total Sewage Generation (MLD)*	:	10.60
20	Per Capita Sewage Generation (lpcd)	:	79.40
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 3593.00
		COD	: 6108.10
		TKN	: 718.60
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Chambal, Utangan River
32	Number of Drains/Nallah for Wastewater Disposal	:	1
33	Number of Water Bodies	:	5
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: DMC (U)		State: NCT Delhi	
S. No.	Items		Value
1	Total Area (sq km)	:	561.27
2	Population as in 2011/2001	:	11034555
3	Population Growth Rate as in 2011 (%)	:	11.70
4	Total Number of Wards	:	217
5	Population per Ward (Thousands)	:	50850
6	Total Number of Household as in 2011	:	2306675
7	Number of Household per Ward	:	10630
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	NA
13	Ground Water Extraction per Hand Pump (lpcd)	:	NA
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	NA
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	1489.70
19	Total Sewage Generation (MLD)*	:	135.00
20	Per Capita Sewage Generation (lpcd)	:	1191.70
21	Sewage Collection (MLD)	:	108.00
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 297933.00
		COD	: 506486.10
		TKN	: 59586.60
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Yamuna, Hindan River
32	Number of Drains/Nallah for Wastewater Disposal	:	NA
33	Number of Water Bodies	:	NA
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Etawah		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	28.94
2	Population as in 2011	:	256838
3	Population Growth Rate as in 2011 (%)	:	22.04
4	Total Number of Wards	:	36
5	Population per Ward (Thousands)	:	5,846
6	Total Number of Household as in 2011	:	44659
7	Number of Household per Ward	:	1241
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	23.00
10	Number of Bore Wells	:	43
11	Ground Water Extraction per Bore Well (MLD)	:	0.47
12	Number of Hand Pumps/ Tubewells	:	930
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	89.55
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	23.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	91.40
19	Total Sewage Generation (MLD)	:	22.40
20	Per Capita Sewage Generation (lpcd)	:	87.30
21	Sewage Collection (MLD)	:	10.45
22	Percentage of Sewage Collection (%)	:	46.60
23	Number of STPs	:	1
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	10.45
25	Current Utilized Capacity of STPs (MLD)	:	10.45
26	Percentage Utilization of Installed Capacity (%)	:	100
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 6934.60
		COD	: 11788.90
		TKN	: 1386.90
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:	2
33	Number of Water Bodies	:	19
34	Gross Area of Water Bodies (Hectare)	:	7.29
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Faridabad			State: Haryana	
S. No.	Items			Value
1	Total Area (sq km)	:		204.00
2	Population as in 2011	:		1414050
3	Population Growth Rate as in 2011 (%)	:		33.91
4	Total Number of Wards	:		35
5	Population per Ward (Thousands)	:		40401
6	Total Number of Household as in 2011	:		290675
7	Number of Household per Ward	:		8305
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		190.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		152.72
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		142.30
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		4
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	38179.40
		COD	:	64904.90
		TKN	:	7635.90
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		4
33	Number of Water Bodies	:		4
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Fatehpur			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		56.98
2	Population as in 2011	:		193193
3	Population Growth Rate as in 2011 (%)	:		27.04
4	Total Number of Wards	:		30
5	Population per Ward (Thousands)	:		6,440
6	Total Number of Household as in 2011	:		34745
7	Number of Household per Ward	:		1158
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		29.61
10	Number of Bore Wells	:		47
11	Ground Water Extraction per Bore Well (MLD)	:		0.63
12	Number of Hand Pumps	:		786
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		153.27
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		30.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		155.30
19	Total Sewage Generation (MLD)*	:		11.80
20	Per Capita Sewage Generation (lpcd)	:		60.90
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	5216.20
		COD	:	8867.60
		TKN	:	1043.20
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		2
33	Number of Water Bodies	:		7
34	Gross Area of Water Bodies (sq km)	:		2.30
35	Area of Water Bodies as % of Total Area	:		<<<1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Firozabad			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		21.35
2	Population as in 2011	:		604214
3	Population Growth Rate as in 2011 (%)	:		51.96
4	Total Number of Wards	:		42
5	Population per Ward (Thousands)	:		14,386
6	Total Number of Household as in 2011	:		99833
7	Number of Household per Ward	:		2377
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		42.65
10	Number of Bore Wells	:		194
11	Ground Water Extraction per Bore Well (MLD)	:		0.22
12	Number of Hand Pumps/ Tubewells	:		1415
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		70.59
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		43.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		71.80
19	Total Sewage Generation (MLD)	:		85.30
20	Per Capita Sewage Generation (lpcd)	:		141.20
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	16313.80
		COD	:	27733.40
		TKN	:	3262.80
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		2
33	Number of Water Bodies	:		16
34	Gross Area of Water Bodies (Hectare)	:		5.35
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Gangapur		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	52.31
2	Population as in 2011	:	119090
3	Population Growth Rate as in 2011 (%)	:	22.97
4	Total Number of Wards	:	20
5	Population per Ward (Thousands)	:	5955
6	Total Number of Household as in 2011	:	21068
7	Number of Household per Ward	:	1053
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	5242
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	12.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	100.90
19	Total Sewage Generation (MLD)*	:	5.60
20	Per Capita Sewage Generation (lpcd)	:	47.00
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 3215.40
		COD	: 5466.20
		TKN	: 643.10
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Kothari, Banas River
32	Number of Drains/Nallah for Wastewater Disposal	:	3
33	Number of Water Bodies	:	0
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Ghaziabad		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	220.00
2	Population as in 2011	:	1648643
3	Population Growth Rate as in 2011 (%)	:	70.27
4	Total Number of Wards	:	80
5	Population per Ward (Thousands)	:	20,608
6	Total Number of Household as in 2011	:	336069
7	Number of Household per Ward	:	4201
8	Surface Water Supply (MLD)	:	73
9	Ground Water (GW) Supply (MLD)	:	320
10	Number of Bore Wells	:	334
11	Ground Water Extraction per Bore Well (MLD)	:	0.96
12	Number of Hand Pumps/ Tubewells	:	5353
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	73
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	395.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	240.00
19	Total Sewage Generation (MLD)*	:	163.80
20	Per Capita Sewage Generation (lpcd)	:	99.40
21	Sewage Collection (MLD)	:	120.00
22	Percentage of Sewage Collection (%)	:	73.26
23	Number of STPs	:	3
24	Total Installed Capacity of STPs under YAP I & II (MLD)	:	126
25	Current Utilized Capacity of STPs (MLD)	:	120
26	Percentage Utilization of Installed Capacity (%)	:	95.24
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	224
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 44513.40
		COD	: 75672.70
		TKN	: 8902.70
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Yamuna & Hindan River
32	Number of Drains/Nallah for Wastewater Disposal	:	9
33	Number of Water Bodies	:	121
34	Gross Area of Water Bodies (Hectare)	:	50.00
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Gokal Pur		State: NCT Delhi	
S. No.	Items		Value
1	Total Area (sq km)	:	2.30
2	Population as in 2011	:	121870
3	Population Growth Rate as in 2011 (%)	:	33.69
4	Total Number of Wards	:	5
5	Population per Ward (Thousands)	:	24374
6	Total Number of Household as in 2011	:	22592
7	Number of Household per Ward	:	4518
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	NA
13	Ground Water Extraction per Hand Pump (lpcd)	:	NA
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	16.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	135.00
19	Total Sewage Generation (MLD)*	:	13.20
20	Per Capita Sewage Generation (lpcd)	:	108.00
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under YAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 3290.50
		COD	: 5593.80
		TKN	: 658.10
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:	NA
33	Number of Water Bodies	:	NA
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Greater Noida			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	20.00
2	Population as in 2011		:	102054
3	Population Growth Rate as in 2011 (%)		:	NA
4	Total Number of Wards		:	58
5	Population per Ward (Thousands)		:	1,760
6	Total Number of Household as in 2011		:	20779
7	Number of Household per Ward		:	358
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	74.00
10	Number of Bore Wells		:	108
11	Ground Water Extraction per Bore Well (MLD)		:	0.69
12	Number of Hand Pumps/ Tubewells		:	NA
13	Ground Water Extraction per Hand Pump (lpcd)		:	1000
14	Number of Pumping Stations for Water Supply		:	1
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	74.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	725.10
19	Total Sewage Generation (MLD)*		:	110.20
20	Per Capita Sewage Generation (lpcd)		:	1080.30
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	47
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2755.50
		COD	:	4684.30
		TKN	:	551.10
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal		:	1
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Guna		State: Madhya Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	45.75
2	Population as in 2011	:	180935
3	Population Growth Rate as in 2011 (%)	:	31.90
4	Total Number of Wards	:	37
5	Population per Ward (Thousands)	:	4,890
6	Total Number of Household as in 2011	:	34383
7	Number of Household per Ward	:	929
8	Surface Water Supply (MLD)	:	5
9	Ground Water (GW) Supply (MLD)	:	5.50
10	Number of Bore Wells	:	254
11	Ground Water Extraction per Bore Well (MLD)	:	0.02
12	Number of Hand Pumps/ Tubewells	:	284
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	5
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	11.60
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	64.10
19	Total Sewage Generation (MLD)*	:	9.30
20	Per Capita Sewage Generation (lpcd)	:	51.30
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 4885.20
		COD	: 8304.90
		TKN	: 977.00
30	Wastewater Disposal Means	:	Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal	:	1
33	Number of Water Bodies	:	3
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Gurgaon			State: Haryana	
S. No.	Items			Value
1	Total Area (sq km)	:		184.59
2	Population as in 2011	:		886519
3	Population Growth Rate as in 2011 (%)	:		340.30
4	Total Number of Wards	:		74
5	Population per Ward (Thousands)	:		11980
6	Total Number of Household as in 2011	:		208229
7	Number of Household per Ward	:		2814
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		119.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		95.70
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		3
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		148.00
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	23936.00
		COD	:	40691.20
		TKN	:	4787.20
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		4
33	Number of Water Bodies	:		7
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Gwalior			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		173.68
2	Population as in 2011	:		1054420
3	Population Growth Rate as in 2011 (%)	:		27.50
4	Total Number of Wards	:		60
5	Population per Ward (Thousands)	:		17,574
6	Total Number of Household as in 2011	:		199466
7	Number of Household per Ward	:		3324
8	Surface Water Supply (MLD)	:		135
9	Ground Water (GW) Supply (MLD)	:		10
10	Number of Bore Wells	:		1485
11	Ground Water Extraction per Bore Well (MLD)	:		0.01
12	Number of Hand Pumps/ Tubewells	:		1270
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		135
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		145.60
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		138.10
19	Total Sewage Generation (MLD)*	:		150.30
20	Per Capita Sewage Generation (lpcd)	:		142.50
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	28469.30
		COD	:	48397.90
		TKN	:	5693.90
30	Wastewater Disposal Means	:		Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal	:		2
33	Number of Water Bodies	:		14
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Hastsal			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		6.80
2	Population as in 2011	:		176877
3	Population Growth Rate as in 2011 (%)	:		104.35
4	Total Number of Wards	:		3
5	Population per Ward (Thousands)	:		58959
6	Total Number of Household as in 2011	:		33977
7	Number of Household per Ward	:		11326
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		23.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		19.10
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	4775.70
		COD	:	8118.70
		TKN	:	955.10
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		1
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Hathras			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	6.76
2	Population as in 2001		:	143020
3	Population Growth Rate as in 2001 (%)		:	13.19
4	Total Number of Wards		:	27
5	Population per Ward (Thousands)		:	4,680
6	Total Number of Household as in 2001		:	25402
7	Number of Household per Ward		:	941
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	10.23
10	Number of Bore Wells		:	14
11	Ground Water Extraction per Bore Well (MLD)		:	0.73
12	Number of Hand Pumps/ Tubewells		:	530
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	80.96
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	10.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	83.10
19	Total Sewage Generation (MLD)*		:	9.10
20	Per Capita Sewage Generation (lpcd)		:	64.00
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	3861.50
		COD	:	6564.60
		TKN	:	772.30
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Karvan River
32	Number of Drains/Nallah for Wastewater Disposal		:	1
33	Number of Water Bodies		:	1
34	Gross Area of Water Bodies (Hectare)		:	1.30
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Hindaun		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	48.00
2	Population as in 2011	:	105452
3	Population Growth Rate as in 2011 (%)	:	24.26
4	Total Number of Wards	:	40
5	Population per Ward (Thousands)	:	2,636
6	Total Number of Household as in 2011	:	18299
7	Number of Household per Ward	:	457
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	150
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	5.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	50.00
19	Total Sewage Generation (MLD)*	:	2.70
20	Per Capita Sewage Generation (lpcd)	:	25.60
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 2847.20
		COD	: 4840.20
		TKN	: 569.40
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Utangan River
32	Number of Drains/Nallah for Wastewater Disposal	:	3
33	Number of Water Bodies	:	NA
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Indore		State: Madhya Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	172.39
2	Population as in 2011	:	1994397
3	Population Growth Rate as in 2011 (%)	:	32.42
4	Total Number of Wards	:	96
5	Population per Ward (Thousands)	:	20,775
6	Total Number of Household as in 2011	:	405090
7	Number of Household per Ward	:	4220
8	Surface Water Supply (MLD)	:	221.50
9	Ground Water (GW) Supply (MLD)	:	27
10	Number of Bore Wells	:	4000
11	Ground Water Extraction per Bore Well (MLD)	:	0.01
12	Number of Hand Pumps/ Tubewells	:	50000
13	Ground Water Extraction per Hand Pump (lpcd)	:	2000
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	221.50
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	348.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	174.70
19	Total Sewage Generation (MLD)*	:	278.80
20	Per Capita Sewage Generation (lpcd)	:	139.80
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 53848.70
		COD	: 91542.80
		TKN	: 10769.70
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Saraswati River
32	Number of Drains/Nallah for Wastewater Disposal	:	1
33	Number of Water Bodies	:	25
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Jagadhari		State: Haryana	
S. No.	Items		Value
1	Total Area (sq km)	:	24.80
2	Population as in 2011	:	124894
3	Population Growth Rate as in 2011 (%)	:	23.30
4	Total Number of Wards	:	31
5	Population per Ward (Thousands)	:	4029
6	Total Number of Household as in 2011	:	26716
7	Number of Household per Ward	:	862
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	NA
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	16.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	135.00
19	Total Sewage Generation (MLD)*	:	13.49
20	Per Capita Sewage Generation (lpcd)	:	108.00
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 3372.10
		COD	: 5732.60
		TKN	: 674.40
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:	1
33	Number of Water Bodies	:	NA
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Jaipur		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	484.64
2	Population as in 2011	:	3046163
3	Population Growth Rate as in 2011 (%)	:	31.15
4	Total Number of Wards	:	77
5	Population per Ward (Thousands)	:	39,561
6	Total Number of Household as in 2011	:	599507
7	Number of Household per Ward	:	7786
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	1983
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	403.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	132.30
19	Total Sewage Generation (MLD)*	:	321.60
20	Per Capita Sewage Generation (lpcd)	:	105.60
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 82246.40
		COD	: 139818.90
		TKN	: 16449.30
30	Wastewater Disposal Means	:	Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal	:	NA
33	Number of Water Bodies	:	14
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Jhansi		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	150.00
2	Population as in 2011	:	505693
3	Population Growth Rate as in 2011 (%)	:	18.65
4	Total Number of Wards	:	60
5	Population per Ward (Thousands)	:	8,428
6	Total Number of Household as in 2011	:	91150
7	Number of Household per Ward	:	1519
8	Surface Water Supply (MLD)	:	66
9	Ground Water (GW) Supply (MLD)	:	9.00
10	Number of Bore Wells	:	29
11	Ground Water Extraction per Bore Well (MLD)	:	0.31
12	Number of Hand Pumps/ Tubewells	:	2812
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	66
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	76.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	151.10
19	Total Sewage Generation (MLD)*	:	12.00
20	Per Capita Sewage Generation (lpcd)	:	23.70
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 1365.40
		COD	: 23211.30
		TKN	: 2730.70
30	Wastewater Disposal Means	:	Land & River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Betwa River
32	Number of Drains/Nallah for Wastewater Disposal	:	4
33	Number of Water Bodies	:	3
34	Gross Area of Water Bodies (Hectare)	:	1.80
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Karawal Nagar		State: NCT Delhi	
S. No.	Items		Value
1	Total Area (sq km)	:	4.80
2	Population as in 2011	:	224281
3	Population Growth Rate as in 2011 (%)	:	50.90
4	Total Number of Wards	:	4
5	Population per Ward (Thousands)	:	56070.25
6	Total Number of Household as in 2011	:	41116
7	Number of Household per Ward	:	10279
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	NA
13	Ground Water Extraction per Hand Pump (lpcd)	:	NA
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	30.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	135.00
19	Total Sewage Generation (MLD)*	:	24.20
20	Per Capita Sewage Generation (lpcd)	:	108.00
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 6055.60
		COD	: 10294.50
		TKN	: 1211.10
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:	NA
33	Number of Water Bodies	:	2
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Karnal			State: Haryana	
S. No.	Items			Value
1	Total Area (sq km)	:		29.46
2	Population as in 2011	:		302140
3	Population Growth Rate as in 2011 (%)	:		36.57
4	Total Number of Wards	:		20
5	Population per Ward (Thousands)	:		15,107
6	Total Number of Household as in 2011	:		63280
7	Number of Household per Ward	:		11062
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		40.79
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		32.63
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		30.84
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		2.00
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		48.00
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	8157.80
		COD	:	13868.20
		TKN	:	1631.60
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		1
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Khora		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	4.26
2	Population as in 2011	:	190005
3	Population Growth Rate as in 2011 (%)	:	6.68
4	Total Number of Wards	:	25
5	Population per Ward (Thousands)	:	7,600
6	Total Number of Household as in 2011	:	37467
7	Number of Household per Ward	:	1499
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	NA
13	Ground Water Extraction per Hand Pump (lpcd)	:	NA
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	25.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	135.00
19	Total Sewage Generation (MLD)*	:	20.50
20	Per Capita Sewage Generation (lpcd)	:	108.00
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 5130.10
		COD	: 8721.20
		TKN	: 1026.00
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Hindan River
32	Number of Drains/Nallah for Wastewater Disposal	:	NA
33	Number of Water Bodies	:	NA
34	Gross Area of Water Bodies (sq km)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Khurja			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	16.70
2	Population as in 2011		:	121207
3	Population Growth Rate as in 2011 (%)		:	22.92
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	4,848
6	Total Number of Household as in 2011		:	21548
7	Number of Household per Ward		:	862
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	NA
13	Ground Water Extraction per Hand Pump (lpcd)		:	NA
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	16.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	135.00
19	Total Sewage Generation (MLD)*		:	13.10
20	Per Capita Sewage Generation (lpcd)		:	108.00
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	3272.60
		COD	:	5563.40
		TKN	:	654.50
30	Wastewater Disposal Means		:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Hindan River
32	Number of Drains/Nallah for Wastewater Disposal		:	NA
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (sq km)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet				
City: Kirari Suleman Nagar			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		4.70
2	Population as in 2011	:		283211
3	Population Growth Rate as in 2011 (%)	:		83.15
4	Total Number of Wards	:		3
5	Population per Ward (Thousands)	:		94403.66
6	Total Number of Household as in 2011	:		53072
7	Number of Household per Ward	:		17691
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		38.20
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		30.60
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	7646.70
		COD	:	12999.40
		TKN	:	1529.30
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		5
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Kishangarh		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	45.49
2	Population as in 2011	:	154886
3	Population Growth Rate as in 2011 (%)	:	33.27
4	Total Number of Wards	:	45
5	Population per Ward (Thousands)	:	3,442
6	Total Number of Household as in 2011	:	28353
7	Number of Household per Ward	:	630
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	720
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	16.20
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	104.30
19	Total Sewage Generation (MLD)*	:	12.60
20	Per Capita Sewage Generation (lpcd)	:	81.60
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 4181.90
		COD	: 7109.30
		TKN	: 836.40
30	Wastewater Disposal Means	:	Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal	:	2
33	Number of Water Bodies	:	4
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Kota		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	527.03
2	Population as in 2011	:	1001694
3	Population Growth Rate as in 2011 (%)	:	44.27
4	Total Number of Wards	:	60
5	Population per Ward (Thousands)	:	16,695
6	Total Number of Household as in 2011	:	210135
7	Number of Household per Ward	:	3502
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	3115
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	271.80
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	271.30
19	Total Sewage Generation (MLD)*	:	216.20
20	Per Capita Sewage Generation (lpcd)	:	215.80
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 27045.70
		COD	: 45977.80
		TKN	: 5409.10
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Chambal, Kali Sindh River
32	Number of Drains/Nallah for Wastewater Disposal	:	5
33	Number of Water Bodies	:	9
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Lalitpur			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	17.35
2	Population as in 2011		:	133305
3	Population Growth Rate as in 2011 (%)		:	9.36
4	Total Number of Wards		:	26
5	Population per Ward (Thousands)		:	5,127
6	Total Number of Household as in 2011		:	24424
7	Number of Household per Ward		:	939
8	Surface Water Supply (MLD)		:	12.10
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	736
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	1
15	Total Pumping Capacity (MLD)		:	12.10
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	12.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	93.50
19	Total Sewage Generation (MLD)*		:	8.60
20	Per Capita Sewage Generation (lpcd)		:	64.80
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	3599.20
		COD	:	6118.70
		TKN	:	719.80
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Betwa River
32	Number of Drains/Nallah for Wastewater Disposal		:	1
33	Number of Water Bodies		:	1
34	Gross Area of Water Bodies (Hectare)		:	20.23
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Mandoli			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		5.87
2	Population as in 2011	:		120417
3	Population Growth Rate as in 2011 (%)	:		16.72
4	Total Number of Wards	:		4
5	Population per Ward (Thousands)	:		30104
6	Total Number of Household as in 2011	:		21916
7	Number of Household per Ward	:		5479
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		16.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		13.00
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	3251.30
		COD	:	5527.10
		TKN	:	650.30
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna, Hindon River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Mandsaur			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		36.36
2	Population as in 2011	:		141667
3	Population Growth Rate as in 2011 (%)	:		20.51
4	Total Number of Wards	:		40
5	Population per Ward (Thousands)	:		3,542
6	Total Number of Household as in 2011	:		28916
7	Number of Household per Ward	:		723
8	Surface Water Supply (MLD)	:		0.75
9	Ground Water (GW) Supply (MLD)	:		9.09
10	Number of Bore Wells	:		42
11	Ground Water Extraction per Bore Well (MLD)	:		0.22
12	Number of Hand Pumps/ Tubewells	:		350
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		0.75
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		10.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		70.60
19	Total Sewage Generation (MLD)*	:		18.10
20	Per Capita Sewage Generation (lpcd)	:		127.80
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	3825.00
		COD	:	6502.50
		TKN	:	765.00
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Shivna River
32	Number of Drains/Nallah for Wastewater Disposal	:		5
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Mathura		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	28.05
2	Population as in 2011	:	349909
3	Population Growth Rate as in 2011 (%)	:	15.57
4	Total Number of Wards	:	45
5	Population per Ward (Thousands)	:	7,776
6	Total Number of Household as in 2011	:	59781
7	Number of Household per Ward	:	1328
8	Surface Water Supply (MLD)	:	11
9	Ground Water (GW) Supply (MLD)	:	18.36
10	Number of Bore Wells	:	90
11	Ground Water Extraction per Bore Well (MLD)	:	0.20
12	Number of Hand Pumps/ Tubewells	:	1447
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	11
16	Average Water Supply Rate from ULB Sources (lpcd)	:	92
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	32.80
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	93.70
19	Total Sewage Generation (MLD)*	:	117.90
20	Per Capita Sewage Generation (lpcd)	:	337.10
21	Sewage Collection (MLD)	:	28.10
22	Percentage of Sewage Collection (%)	:	22.98
23	Number of STPs	:	2
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	28.10
25	Current Utilized Capacity of STPs (MLD)	:	28.10
26	Percentage Utilization of Installed Capacity (%)	:	100
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 9447.50
		COD	: 16060.80
		TKN	: 1889.50
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:	3
33	Number of Water Bodies	:	11
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Morena			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		12.00
2	Population as in 2011	:		200482
3	Population Growth Rate as in 2011 (%)	:		32.81
4	Total Number of Wards	:		39
5	Population per Ward (Thousands)	:		5,141
6	Total Number of Household as in 2011	:		33104
7	Number of Household per Ward	:		849
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		18
10	Number of Bore Wells	:		85
11	Ground Water Extraction per Bore Well (MLD)	:		0.21
12	Number of Hand Pumps/ Tubewells	:		2600
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		19.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		96.30
19	Total Sewage Generation (MLD)*	:		15.40
20	Per Capita Sewage Generation (lpcd)	:		77.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	5413.00
		COD	:	9202.10
		TKN	:	1082.60
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Asan, Chambal River
32	Number of Drains/Nallah for Wastewater Disposal	:		1
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Murwara (Katni)		State: Madhya Pradesh	
S.No.	Items		Value
1	Total Area (sq km)	:	68.57
2	Population as in 2011	:	221883
3	Population Growth Rate as in 2011 (%)	:	18.64
4	Total Number of Wards	:	45
5	Population per Ward (Thousands)	:	4,931
6	Total Number of Household as in 2011	:	46261
7	Number of Household per Ward	:	1028
8	Surface Water Supply (MLD)	:	7.50
9	Ground Water (GW) Supply (MLD)	:	8
10	Number of Bore Wells	:	133
11	Ground Water Extraction per Bore Well (MLD)	:	0.06
12	Number of Hand Pumps/ Tubewells	:	565
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	7.50
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	30.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	135.00
19	Total Sewage Generation (MLD)*	:	24.00
20	Per Capita Sewage Generation (lpcd)	:	108.00
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 5990.80
		COD	: 10184.40
		TKN	: 1198.20
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Katni River
32	Number of Drains/Nallah for Wastewater Disposal	:	1
33	Number of Water Bodies	:	59
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Mustafabad		State: NCT Delhi	
S.No.	Items		Value
1	Total Area (sq km)	:	1.30
2	Population as in 2011	:	127167
3	Population Growth Rate as in 2011 (%)	:	41.03
4	Total Number of Wards	:	3
5	Population per Ward (Thousands)	:	42389
6	Total Number of Household as in 2011	:	20348
7	Number of Household per Ward	:	6783
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	NA
13	Ground Water Extraction per Hand Pump (lpcd)	:	NA
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	17.20
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	135.00
19	Total Sewage Generation (MLD)*	:	13.70
20	Per Capita Sewage Generation (lpcd)	:	108.00
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 3433.50
		COD	: 5837.00
		TKN	: 686.70
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:	NA
33	Number of Water Bodies	:	1
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Muzaffarnagar			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	12.04
2	Population as in 2011		:	392768
3	Population Growth Rate as in 2011 (%)		:	18.42
4	Total Number of Wards		:	45
5	Population per Ward (Thousands)		:	8,728
6	Total Number of Household as in 2011		:	68975
7	Number of Household per Ward		:	1533
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	50.00
10	Number of Bore Wells		:	40
11	Ground Water Extraction per Bore Well (MLD)		:	0.43
12	Number of Hand Pumps/ Tubewells		:	858
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	127.30
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	50.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	128.40
19	Total Sewage Generation (MLD)		:	46.70
20	Per Capita Sewage Generation (lpcd)		:	118.80
21	Sewage Collection (MLD)		:	22.00
22	Percentage of Sewage Collection (%)		:	47.13
23	Number of STPs		:	1
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	35.00
26	Percentage Utilization of Installed Capacity (%)		:	62.86
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	12
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	10604.70
		COD	:	18028.10
		TKN	:	2120.90
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Kali River
32	Number of Drains/Nallah for Wastewater Disposal		:	2
33	Number of Water Bodies		:	2
34	Gross Area of Water Bodies (Hectare)		:	12.50
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: NDMC			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)		:	42.74
2	Population as in 2011		:	257803
3	Population Growth Rate as in 2011 (%)		:	-14.74
4	Total Number of Wards		:	9
5	Population per Ward (Thousands)		:	28645
6	Total Number of Household as in 2011		:	59500
7	Number of Household per Ward		:	6611
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	NA
13	Ground Water Extraction per Hand Pump (lpcd)		:	NA
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	34.80
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	135.00
19	Total Sewage Generation (MLD)		:	27.80
20	Per Capita Sewage Generation (lpcd)		:	108.00
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	6960.70
		COD	:	11833.20
		TKN	:	1392.10
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal		:	NA
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Nagda		State: Madhya Pradesh	
S.No.	Items		Value
1	Total Area (sq km)	:	3.58
2	Population as in 2011	:	100039
3	Population Growth Rate as in 2011 (%)	:	23.83
4	Total Number of Wards	:	36
5	Population per Ward (Thousands)	:	2779
6	Total Number of Household as in 2011	:	20177
7	Number of Household per Ward	:	560
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	NA
13	Ground Water Extraction per Hand Pump (lpcd)	:	NA
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	13.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	134.90
19	Total Sewage Generation (MLD)*	:	10.80
20	Per Capita Sewage Generation (lpcd)	:	108.00
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 2701.10
		COD	: 4591.80
		TKN	: 540.20
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Chambal, Kshipra River
32	Number of Drains/Nallah for Wastewater Disposal	:	NA
33	Number of Water Bodies	:	1
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Nangloi Jat		State: NCT Delhi	
S.No.	Items		Value
1	Total Area (sq km)	:	6.70
2	Population as in 2011	:	205596
3	Population Growth Rate as in 2011 (%)	:	36.20
4	Total Number of Wards	:	4
5	Population per Ward (Thousands)	:	51399
6	Total Number of Household as in 2011	:	39410
7	Number of Household per Ward	:	9853
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	NA
13	Ground Water Extraction per Hand Pump (lpcd)	:	NA
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	27.80
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	135.00
19	Total Sewage Generation (MLD)*	:	22.20
20	Per Capita Sewage Generation (lpcd)	:	108.00
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 5551.10
		COD	: 9436.90
		TKN	: 1110.20
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:	NA
33	Number of Water Bodies	:	3
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Neemach		State: Madhya Pradesh	
S.No.	Items		Value
1	Total Area (sq km)	:	22.04
2	Population as in 2011	:	128561
3	Population Growth Rate as in 2011 (%)	:	13.92
4	Total Number of Wards	:	40
5	Population per Ward (Thousands)	:	3,214
6	Total Number of Household as in 2011	:	25549
7	Number of Household per Ward	:	639
8	Surface Water Supply (MLD)	:	6.82
9	Ground Water (GW) Supply (MLD)	:	1
10	Number of Bore Wells	:	40
11	Ground Water Extraction per Bore Well (MLD)	:	0.03
12	Number of Hand Pumps/ Tubewells	:	193
13	Ground Water Extraction per Hand Pump (lpd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	6.82
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	7.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	96.50
19	Total Sewage Generation (MLD)*	:	7.30
20	Per Capita Sewage Generation (lpcd)	:	45.90
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 3471.10
		COD	: 5900.90
		TKN	: 694.20
30	Wastewater Disposal Means	:	Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal	:	5
33	Number of Water Bodies	:	3
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Noida			State: Uttar Pradesh	
S.	Items			Value
1	Total Area (sq km)		:	92.10
2	Population as in 2011		:	637272
3	Population Growth Rate as in 2011 (%)		:	108.90
4	Total Number of Wards		:	198
5	Population per Ward (Thousands)		:	3,219
6	Total Number of Household as in 2011		:	153474
7	Number of Household per Ward		:	775
8	Surface Water Supply (MLD)		:	48
9	Ground Water (GW) Supply (MLD)		:	264.82
10	Number of Bore Wells		:	249
11	Ground Water Extraction per Bore Well (MLD)		:	1.06
12	Number of Hand Pumps/ Tubewells		:	NA
13	Ground Water Extraction per Hand Pump (lpcd)		:	1000
14	Number of Pumping Stations for Water Supply		:	1
15	Total Pumping Capacity (MLD)		:	48
16	Average Water Supply Rate from ULB Sources (lpcd)		:	521.33
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	312.80
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	521.30
19	Total Sewage Generation (MLD)*		:	481.80
20	Per Capita Sewage Generation (lpcd)		:	756.00
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	17206.30
		COD	:	29250.80
		TKN	:	3441.30
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal		:	3
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Orai			State: Uttar Pradesh	
S.	Items			Value
1	Total Area (sq km)		:	23.20
2	Population as in 2011		:	190575
3	Population Growth Rate as in 2001 (%)		:	36.79
4	Total Number of Wards		:	28
5	Population per Ward (Thousands)		:	4,976
6	Total Number of Household as in 2001		:	33919
7	Number of Household per Ward		:	1211
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	12
10	Number of Bore Wells		:	27
11	Ground Water Extraction per Bore Well (MLD)		:	0.37
12	Number of Hand Pumps/ Tubewells		:	523
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	86.13
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	12.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	88.00
19	Total Sewage Generation (MLD)*		:	16.20
20	Per Capita Sewage Generation (lpcd)		:	85.00
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	437.40
		COD	:	743.60
		TKN	:	1029.10
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Betwa River
32	Number of Drains/Nallah for Wastewater Disposal		:	1
33	Number of Water Bodies		:	4
34	Gross Area of Water Bodies (Hectare)		:	3.20
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Palwal			State: Haryana	
S.	Items			Value
1	Total Area (sq km)	:		8.42
2	Population as in 2011	:		131926
3	Population Growth Rate as in 2011 (%)	:		30.98
4	Total Number of Wards	:		32
5	Population per Ward (Thousands)	:		4,123
6	Total Number of Household as in 2011	:		23742
7	Number of Household per Ward	:		742
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tube wells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		17.81
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		14.25
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		1
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		9
25	Current Utilized Capacity of STPs (MLD)	:		9
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	3562.00
		COD	:	6055.40
		TKN	:	712.40
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		2
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Panipat			State: Haryana	
S.	Items			Value
1	Total Area (sq km)	:		21.86
2	Population as in 2011	:		295970
3	Population Growth Rate as in 2011 (%)	:		10.07
4	Total Number of Wards	:		24
5	Population per Ward (Thousands)	:		12,332
6	Total Number of Household as in 2011	:		60905
7	Number of Household per Ward	:		2538
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tube wells	:		NA
13	Ground Water Extraction per Hand Pump (lpd)	:		500
14	Number of Pumping Stations for Water Supply	:		2
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		40.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		154.40
20	Per Capita Sewage Generation (lpcd)	:		88.20
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		2
24	Total Installed Capacity of STPs under GAP & YAP I & II (MLD)	:		45
25	Current Utilized Capacity of STPs (MLD)	:		45
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	7991.20
		COD	:	13585.00
		TKN	:	1598.20
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		2
33	Number of Water Bodies	:		3
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Pithampur		State: Madhya Pradesh	
S.No.	Items		Value
1	Total Area (sq km)	:	75.51
2	Population as in 2011	:	126200
3	Population Growth Rate as in 2011 (%)	:	85.37
4	Total Number of Wards	:	31
5	Population per Ward (Thousands)	:	4,071
6	Total Number of Household as in 2011	:	31136
7	Number of Household per Ward	:	1004
8	Surface Water Supply (MLD)	:	1
9	Ground Water (GW) Supply (MLD)	:	1.20
10	Number of Bore Wells	:	30
11	Ground Water Extraction per Bore Well (MLD)	:	0.04
12	Number of Hand Pumps/ Tubewells	:	225
13	Ground Water Extraction per Hand Pump (lpcd)	:	900
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	1
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	2.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	19.00
19	Total Sewage Generation (MLD)*	:	1.90
20	Per Capita Sewage Generation (lpcd)	:	15.20
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 3407.40
		COD	: 5792.60
		TKN	: 681.50
30	Wastewater Disposal Means	:	Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal	:	NA
33	Number of Water Bodies	:	1
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Ratlam		State: Madhya Pradesh	
S.No.	Items		Value
1	Total Area (sq km)	:	39.19
2	Population as in 2011	:	264914
3	Population Growth Rate as in 2011 (%)	:	19.22
4	Total Number of Wards	:	49
5	Population per Ward (Thousands)	:	5,406
6	Total Number of Household as in 2011	:	53133
7	Number of Household per Ward	:	1084
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	96
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	961
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	35.80
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	133.60
19	Total Sewage Generation (MLD)*	:	28.60
20	Per Capita Sewage Generation (lpcd)	:	108.00
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 7152.70
		COD	: 12159.60
		TKN	: 1430.50
30	Wastewater Disposal Means	:	Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal	:	5
33	Number of Water Bodies	:	2
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Rewari			State: Haryana	
S.	Items			Value
1	Total Area (sq km)	:		22.50
2	Population as in 2011	:		143021
3	Population Growth Rate as in 2011 (%)	:		42.05
4	Total Number of Wards	:		31
5	Population per Ward (Thousands)	:		4614
6	Total Number of Household as in 2011	:		28702
7	Number of Household per Ward	:		926
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		19.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		15.40
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	3861.60
		COD	:	6564.70
		TKN	:	772.30
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Rohtak			State: Haryana	
S.	Items			Value
1	Total Area (sq km)	:		72.18
2	Population as in 2011	:		374292
3	Population Growth Rate as in 2011 (%)	:		27.06
4	Total Number of Wards	:		31
5	Population per Ward (Thousands)	:		12074
6	Total Number of Household as in 2011	:		75528
7	Number of Household per Ward	:		2436
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		50.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		40.40
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		3
24	Total Installed Capacity of STPs under GAP & YAP I & II (MLD)	:		20
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		16.0
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	10105.90
		COD	:	17180.00
		TKN	:	2021.20
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		2
33	Number of Water Bodies	:		4
34	Gross Area of Water Bodies (Hectare)	:		6.88
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Sagar			State: Madhya Pradesh	
S.	Items			Value
1	Total Area (sq km)	:		72.18
2	Population as in 2011	:		374292
3	Population Growth Rate as in 2011 (%)	:		27.06
4	Total Number of Wards	:		31
5	Population per Ward (Thousands)	:		12074
6	Total Number of Household as in 2011	:		75528
7	Number of Household per Ward	:		2436
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		50.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		40.40
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		3
24	Total Installed Capacity of STPs under GAP & YAP I & II (MLD)	:		20
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		16.0
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	10105.90
		COD	:	17180.00
		TKN	:	2021.20
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		2
33	Number of Water Bodies	:		4
34	Gross Area of Water Bodies (Hectare)	:		6.88
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Saharanpur		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	46.74
2	Population as in 2011	:	705478
3	Population Growth Rate as in 2011 (%)	:	14.05
4	Total Number of Wards	:	60
5	Population per Ward (Thousands)	:	7,596
6	Total Number of Household as in 2011	:	129856
7	Number of Household per Ward	:	2164
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	79.00
10	Number of Bore Wells	:	60
11	Ground Water Extraction per Bore Well (MLD)	:	0.76
12	Number of Hand Pumps/ Tubewells	:	1511
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	173.34
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	79.80
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	175.00
19	Total Sewage Generation (MLD)*	:	97.60
20	Per Capita Sewage Generation (lpcd)	:	138.30
21	Sewage Collection (MLD)	:	35.00
22	Percentage of Sewage Collection (%)	:	57.66
23	Number of STPs	:	1
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	35
26	Percentage Utilization of Installed Capacity (%)	:	92
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	12
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: 10038.80
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 19047.90
		COD	: 32381.40
		TKN	: 3809.60
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Dhamola River
32	Number of Drains/Nallah for Wastewater Disposal	:	2
33	Number of Water Bodies	:	365
34	Gross Area of Water Bodies (Hectare)	:	122.34
35	Area of Water Bodies as % of Total Area	:	1.65

Water Balance & Pollution Load (Domestic) Data Sheet

City: Sawai Madhopur		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	59.00
2	Population as in 2011	:	121106
3	Population Growth Rate as in 2011 (%)	:	18.73
4	Total Number of Wards	:	40
5	Population per Ward (Thousands)	:	3,028
6	Total Number of Household as in 2011	:	22841
7	Number of Household per Ward	:	571
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	469
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	8.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	66.30
19	Total Sewage Generation (MLD)*	:	11.80
20	Per Capita Sewage Generation (lpcd)	:	97.40
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 3269.90
		COD	: 5558.80
		TKN	: 654.00
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Banas River
32	Number of Drains/Nallah for Wastewater Disposal	:	1
33	Number of Water Bodies	:	15
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Sehore		State: Madhya Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	15.11
2	Population as in 2011	:	109118
3	Population Growth Rate as in 2011 (%)	:	17.94
4	Total Number of Wards	:	35
5	Population per Ward (Thousands)	:	3,118
6	Total Number of Household as in 2011	:	20314
7	Number of Household per Ward	:	580
8	Surface Water Supply (MLD)	:	40
9	Ground Water (GW) Supply (MLD)	:	10
10	Number of Bore Wells	:	55
11	Ground Water Extraction per Bore Well (MLD)	:	0.18
12	Number of Hand Pumps/ Tubewells	:	440
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	40
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	50.20
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	460.10
19	Total Sewage Generation (MLD)*	:	40.20
20	Per Capita Sewage Generation (lpcd)	:	368.00
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 2946.20
		COD	: 5008.50
		TKN	: 589.20
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Karbala River
32	Number of Drains/Nallah for Wastewater Disposal	:	1
33	Number of Water Bodies	:	NA
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Shamli			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	26.23
2	Population as in 2011		:	107266
3	Population Growth Rate as in 2011 (%)		:	19.11
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	4,291
6	Total Number of Household as in 2011		:	18622
7	Number of Household per Ward		:	745
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	NA
13	Ground Water Extraction per Hand Pump (lpcd)		:	NA
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	14.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	135.00
19	Total Sewage Generation (MLD)*		:	11.60
20	Per Capita Sewage Generation (lpcd)		:	108.00
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2896.20
		COD	:	4923.50
		TKN	:	579.20
30	Wastewater Disposal Means		:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal		:	NA
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Shikohabad			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	8.48
2	Population as in 2011		:	107404
3	Population Growth Rate as in 2011 (%)		:	21.83
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	4,296
6	Total Number of Household as in 2011		:	18622
7	Number of Household per Ward		:	745
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	NA
13	Ground Water Extraction per Hand Pump (lpcd)		:	NA
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	14.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	135.00
19	Total Sewage Generation (MLD)*		:	11.60
20	Per Capita Sewage Generation (lpcd)		:	108.00
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2899.90
		COD	:	4929.80
		TKN	:	580.00
30	Wastewater Disposal Means		:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal		:	NA
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Shivpuri		State: Madhya Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	81.11
2	Population as in 2011	:	179977
3	Population Growth Rate as in 2011 (%)	:	22.52
4	Total Number of Wards	:	39
5	Population per Ward (Thousands)	:	4,615
6	Total Number of Household as in 2011	:	33803
7	Number of Household per Ward	:	867
8	Surface Water Supply (MLD)	:	5
9	Ground Water (GW) Supply (MLD)	:	7
10	Number of Bore Wells	:	430
11	Ground Water Extraction per Bore Well (MLD)	:	0.02
12	Number of Hand Pumps/ Tubewells	:	80
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	5
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	12.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	66.70
19	Total Sewage Generation (MLD)*	:	9.60
20	Per Capita Sewage Generation (lpcd)	:	53.30
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 4859.40
		COD	: 8260.90
		TKN	: 971.90
30	Wastewater Disposal Means	:	Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal	:	1
33	Number of Water Bodies	:	7
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Sonipat			State: Haryana	
S. No.	Items			Value
1	Total Area (sq km)	:		42.61
2	Population as in 2011	:		289333
3	Population Growth Rate as in 2011 (%)	:		28.55
4	Total Number of Wards	:		31
5	Population per Ward (Thousands)	:		9,333
6	Total Number of Household as in 2011	:		57740
7	Number of Household per Ward	:		1863
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		39.06
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		31.25
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		1
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		30
25	Current Utilized Capacity of STPs (MLD)	:		30
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	7812.00
		COD	:	13280.40
		TKN	:	1562.40
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		1
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Sultan Pur Majra			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)		:	2.80
2	Population as in 2011		:	181554
3	Population Growth Rate as in 2011 (%)		:	10.42
4	Total Number of Wards		:	5
5	Population per Ward (Thousands)		:	36311
6	Total Number of Household as in 2011		:	33029
7	Number of Household per Ward		:	6606
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	NA
13	Ground Water Extraction per Hand Pump (lpcd)		:	NA
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	24.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	135.00
19	Total Sewage Generation (MLD)*		:	19.60
20	Per Capita Sewage Generation (lpcd)		:	108.00
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP & YAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	4902.00
		COD	:	8333.30
		TKN	:	980.40
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal		:	NA
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Tonk		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	60.50
2	Population as in 2011	:	165294
3	Population Growth Rate as in 2011 (%)	:	21.82
4	Total Number of Wards	:	45
5	Population per Ward (Thousands)	:	3,673
6	Total Number of Household as in 2011	:	29098
7	Number of Household per Ward	:	647
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	546
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	12.90
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	77.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	10.10
19	Total Sewage Generation (MLD)*	:	61.00
20	Per Capita Sewage Generation (lpcd)	:	NA
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP & YAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 4462.90
		COD	: 7587.00
		TKN	: 892.60
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Banas River
32	Number of Drains/Nallah for Wastewater Disposal	:	1
33	Number of Water Bodies	:	14
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Udaipur		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	56.92
2	Population as in 2011	:	451100
3	Population Growth Rate as in 2011 (%)	:	15.83
4	Total Number of Wards	:	55
5	Population per Ward (Thousands)	:	8,202
6	Total Number of Household as in 2011	:	94704
7	Number of Household per Ward	:	1722
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	2380
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	82.60
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	183.10
19	Total Sewage Generation (MLD)*	:	65.10
20	Per Capita Sewage Generation (lpcd)	:	144.40
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 12179.70
		COD	: 20705.50
		TKN	: 2435.90
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Ayad River
32	Number of Drains/Nallah for Wastewater Disposal	:	3
33	Number of Water Bodies	:	3
34	Gross Area of Water Bodies (Hectare)	:	17254.00
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Ujjain		State: Madhya Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	92.68
2	Population as in 2011	:	515215
3	Population Growth Rate as in 2011 (%)	:	19.49
4	Total Number of Wards	:	54
5	Population per Ward (Thousands)	:	9,541
6	Total Number of Household as in 2011	:	102401
7	Number of Household per Ward	:	1896
8	Surface Water Supply (MLD)	:	87.06
9	Ground Water (GW) Supply (MLD)	:	3.79
10	Number of Bore Wells	:	85
11	Ground Water Extraction per Bore Well (MLD)	:	0.04
12	Number of Hand Pumps/ Tubewells	:	1282
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	87.06
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	91.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	177.60
19	Total Sewage Generation (MLD)*	:	73.20
20	Per Capita Sewage Generation (lpcd)	:	142.10
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 13910.80
		COD	: 23648.40
		TKN	: 2782.20
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Kshipra River
32	Number of Drains/Nallah for Wastewater Disposal	:	9
33	Number of Water Bodies	:	23
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Vidisha		State: Madhya Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	5.83
2	Population as in 2011	:	155951
3	Population Growth Rate as in 2011 (%)	:	24.31
4	Total Number of Wards	:	36
5	Population per Ward (Thousands)	:	4,332
6	Total Number of Household as in 2011	:	31627
7	Number of Household per Ward	:	879
8	Surface Water Supply (MLD)	:	9
9	Ground Water (GW) Supply (MLD)	:	1
10	Number of Bore Wells	:	12
11	Ground Water Extraction per Bore Well (MLD)	:	0.08
12	Number of Hand Pumps/ Tubewells	:	4830
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	9
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	12.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	79.50
19	Total Sewage Generation (MLD)*	:	9.92
20	Per Capita Sewage Generation (lpcd)	:	63.60
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 4210.70
		COD	: 7158.20
		TKN	: 842.10
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Betwa River
32	Number of Drains/Nallah for Wastewater Disposal	:	1
33	Number of Water Bodies	:	1
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Yamunanagar			State: Haryana	
S. No.	Items			Value
1	Total Area (sq km)		:	16.48
2	Population as in 2011		:	217071
3	Population Growth Rate as in 2011 (%)		:	14.43
4	Total Number of Wards		:	31
5	Population per Ward (Thousands)		:	7002
6	Total Number of Household as in 2011		:	45351
7	Number of Household per Ward		:	1463
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	NA
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	29.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	135.00
19	Total Sewage Generation (MLD)*		:	23.40
20	Per Capita Sewage Generation (lpcd)		:	108.00
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	2
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	35
25	Current Utilized Capacity of STPs (MLD)		:	35
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	5860.90
		COD	:	9963.60
		TKN	:	1172.20
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal		:	4
33	Number of Water Bodies		:	2
34	Gross Area of Water Bodies (Hectare)		:	3.70
35	Area of Water Bodies as % of Total Area		:	<<< 1

Appendix-2

Compilation of Data Sheets of Water Balance & Pollution Load (Domestic) of Major Class II Towns in Yamuna Basin

Water Balance & Pollution Load (Domestic) Data Sheet

City: Askok Nagar			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		4.43
2	Population as in 2011	:		81828
3	Population Growth Rate as in 2011 (%)	:		41.80
4	Total Number of Wards	:		22
5	Population per Ward (Thousands)	:		3,719
6	Total Number of Household as in 2011	:		15806
7	Number of Household per Ward	:		718
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		11.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		134.40
19	Total Sewage Generation (MLD)*	:		8.80
20	Per Capita Sewage Generation (lpcd)	:		107.50
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2209.40
		COD	:	3755.90
		TKN	:	441.90
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Aur River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Ashta			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		15.78
2	Population as in 2011	:		53184
3	Population Growth Rate as in 2011 (%)	:		30.90
4	Total Number of Wards	:		19
5	Population per Ward (Thousands)	:		2,799
6	Total Number of Household as in 2011	:		10006
7	Number of Household per Ward	:		527
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		7.20
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.40
19	Total Sewage Generation (MLD)*	:		5.70
20	Per Capita Sewage Generation (lpcd)	:		107.20
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1436.00
		COD	:	2441.10
		TKN	:	287.20
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Parbati River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Auraiya			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	9.00
2	Population as in 2011		:	87736
3	Population Growth Rate as in 2011 (%)		:	35.52
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	2,590
6	Total Number of Household as in 2011		:	15898
7	Number of Household per Ward		:	636
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	5.53
10	Number of Bore Wells		:	14
11	Ground Water Extraction per Bore Well (MLD)		:	0.22
12	Number of Hand Pumps/ Tubewells		:	440
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	66.11
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	6.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	68.60
19	Total Sewage Generation (MLD)*		:	5.40
20	Per Capita Sewage Generation (lpcd)		:	61.50
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2368.90
		COD	:	4027.10
		TKN	:	508.90
30	Wastewater Disposal Means		:	Land & River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal		:	1
33	Number of Water Bodies		:	5
34	Gross Area of Water Bodies (Hectare)		:	11.15
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Baghpat			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	2.83
2	Population as in 2011		:	50310
3	Population Growth Rate as in 2011 (%)		:	38.28
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	2,012
6	Total Number of Household as in 2011		:	7880
7	Number of Household per Ward		:	315
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	3.71
10	Number of Bore Wells		:	7
11	Ground Water Extraction per Bore Well (MLD)		:	0.53
12	Number of Hand Pumps/ Tubewells		:	457
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	73.74
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	3.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	78.30
19	Total Sewage Generation (MLD)*		:	1.10
20	Per Capita Sewage Generation (lpcd)		:	21.80
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1358.40
		COD	:	2309.20
		TKN	:	271.70
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal		:	3
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Bangarda Chhota			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		11.19
2	Population as in 2011	:		64213
3	Population Growth Rate as in 2011 (%)	:		18.94
4	Total Number of Wards	:		1
5	Population per Ward (Thousands)	:		64,213
6	Total Number of Household as in 2011	:		13345
7	Number of Household per Ward	:		13345
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		8.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.50
19	Total Sewage Generation (MLD)*	:		6.90
20	Per Capita Sewage Generation (lpcd)	:		107.50
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1733.80
		COD	:	2947.40
		TKN	:	346.80
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Kherkhali River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Bapraula			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		5.62
2	Population as in 2011	:		52744
3	Population Growth Rate as in 2011 (%)	:		291.51
4	Total Number of Wards	:		1
5	Population per Ward (Thousands)	:		52744
6	Total Number of Household as in 2011	:		10069
7	Number of Household per Ward	:		10069
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		7.10
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		5.70
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1424.10
		COD	:	2420.90
		TKN	:	284.80
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		2
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Bari			State: Rajasthan	
S. No.	Items			Value
1	Total Area (sq km)	:		22.27
2	Population as in 2011	:		62721
3	Population Growth Rate as in 2011 (%)	:		24.26
4	Total Number of Wards	:		30
5	Population per Ward (Thousands)	:		2091
6	Total Number of Household as in 2011	:		10456
7	Number of Household per Ward	:		349
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		950
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		9.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		143.10
19	Total Sewage Generation (MLD)*	:		6.80
20	Per Capita Sewage Generation (lpcd)	:		108.40
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1693.50
		COD	:	2878.90
		TKN	:	338.70
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Ayad River
32	Number of Drains/Nallah for Wastewater Disposal	:		3
33	Number of Water Bodies	:		0
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Basoda			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		16.55
2	Population as in 2011	:		78289
3	Population Growth Rate as in 2011 (%)	:		20.56
4	Total Number of Wards	:		24
5	Population per Ward (Thousands)	:		3,262
6	Total Number of Household as in 2011	:		14219
7	Number of Household per Ward	:		592
8	Surface Water Supply (MLD)	:		2.27
9	Ground Water (GW) Supply (MLD)	:		2.33
10	Number of Bore Wells	:		29
11	Ground Water Extraction per Bore Well (MLD)	:		0.08
12	Number of Hand Pumps/ Tubewells	:		3520
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		2.27
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		10.60
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		158.40
19	Total Sewage Generation (MLD)*	:		8.50
20	Per Capita Sewage Generation (lpcd)	:		75.40
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2113.80
		COD	:	3593.50
		TKN	:	422.80
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Betwa River
32	Number of Drains/Nallah for Wastewater Disposal	:		2
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Bawana			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		17.00
2	Population as in 2011	:		73680
3	Population Growth Rate as in 2011 (%)	:		219.04
4	Total Number of Wards	:		1
5	Population per Ward (Thousands)	:		73680
6	Total Number of Household as in 2011	:		12961
7	Number of Household per Ward	:		12961
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		9.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		8.00
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1989.40
		COD	:	3381.90
		TKN	:	397.90
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		1
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Begum Pur			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		1.90
2	Population as in 2011	:		53682
3	Population Growth Rate as in 2011 (%)	:		135.05
4	Total Number of Wards	:		1
5	Population per Ward (Thousands)	:		53682
6	Total Number of Household as in 2011	:		10446
7	Number of Household per Ward	:		10446
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		7.20
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		5.80
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1449.40
		COD	:	2464.00
		TKN	:	289.90
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Bina			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		12.00
2	Population as in 2011	:		64529
3	Population Growth Rate as in 2011 (%)	:		26.08
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		2,581
6	Total Number of Household as in 2011	:		12356
7	Number of Household per Ward	:		494
8	Surface Water Supply (MLD)	:		4
9	Ground Water (GW) Supply (MLD)	:		2
10	Number of Bore Wells	:		32
11	Ground Water Extraction per Bore Well (MLD)	:		0.06
12	Number of Hand Pumps/ Tubewells	:		1520
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		4
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		8.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		7.00
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1742.30
		COD	:	2961.90
		TKN	:	348.50
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Motichur, Bina, Betwa River
32	Number of Drains/Nallah for Wastewater Disposal	:		1
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Budhana			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		7.61
2	Population as in 2011	:		53722
3	Population Growth Rate as in 2011 (%)	:		63.04
4	Total Number of Wards	:		17
5	Population per Ward (Thousands)	:		3,160
6	Total Number of Household as in 2011	:		8252
7	Number of Household per Ward	:		485
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		7.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		5.80
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1450.50
		COD	:	2465.80
		TKN	:	290.10
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Kali River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Chilla Saroda Bangar			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		2.58
2	Population as in 2011	:		83217
3	Population Growth Rate as in 2011 (%)	:		24.76
4	Total Number of Wards	:		3
5	Population per Ward (Thousands)	:		27739
6	Total Number of Household as in 2011	:		18124
7	Number of Household per Ward	:		6041
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		11.20
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		9.00
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2246.90
		COD	:	3819.70
		TKN	:	449.40
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Chitrakoot Dham (Karwi)			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		7.77
2	Population as in 2011	:		57402
3	Population Growth Rate as in 2011 (%)	:		17.41
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		2,296
6	Total Number of Household as in 2011	:		10250
7	Number of Household per Ward	:		410
8	Surface Water Supply (MLD)	:		5.12
9	Ground Water (GW) Supply (MLD)	:		1.21
10	Number of Bore Wells	:		4
11	Ground Water Extraction per Bore Well (MLD)	:		0.30
12	Number of Hand Pumps/ Tubewells	:		298
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		5.12
16	Average Water Supply Rate from ULB Sources (lpcd)	:		110.17
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		6.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		113.10
19	Total Sewage Generation (MLD)*	:		19.40
20	Per Capita Sewage Generation (lpcd)	:		337.40
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1549.90
		COD	:	2634.80
		TKN	:	310.00
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Mandakini River
32	Number of Drains/Nallah for Wastewater Disposal	:		6
33	Number of Water Bodies	:		1
34	Gross Area of Water Bodies (Hectare)	:		1.00
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Chomu			State: Rajasthan	
S. No.	Items			Value
1	Total Area (sq km)		:	22.53
2	Population as in 2011		:	64417
3	Population Growth Rate as in 2011 (%)		:	27.04
4	Total Number of Wards		:	30
5	Population per Ward (Thousands)		:	2147
6	Total Number of Household as in 2011		:	9921
7	Number of Household per Ward		:	331
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	950
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	9.20
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	142.40
19	Total Sewage Generation (MLD)*		:	7.00
20	Per Capita Sewage Generation (lpcd)		:	108.70
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1739.30
		COD	:	2956.70
		TKN	:	347.90
30	Wastewater Disposal Means		:	Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal		:	3
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Dabra			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		3.79
2	Population as in 2011	:		61277
3	Population Growth Rate as in 2011 (%)	:		8.13
4	Total Number of Wards	:		24
5	Population per Ward (Thousands)	:		2,553
6	Total Number of Household as in 2011	:		11085
7	Number of Household per Ward	:		462
8	Surface Water Supply (MLD)	:		1.50
9	Ground Water (GW) Supply (MLD)	:		4
10	Number of Bore Wells	:		107
11	Ground Water Extraction per Bore Well (MLD)	:		0.04
12	Number of Hand Pumps/ Tubewells	:		130
13	Ground Water Extraction per Hand Pump (lpcd)	:		3000
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		1.50
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		8.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		6.60
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1654.50
		COD	:	2812.60
		TKN	:	330.90
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Sindh River
32	Number of Drains/Nallah for Wastewater Disposal	:		1
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Dadri			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	6.50
2	Population as in 2011		:	91189
3	Population Growth Rate as in 2011 (%)		:	58.82
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	3,648
6	Total Number of Household as in 2011		:	16215
7	Number of Household per Ward		:	649
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	2.10
10	Number of Bore Wells		:	2
11	Ground Water Extraction per Bore Well (MLD)		:	1.05
12	Number of Hand Pumps/ Tubewells		:	1200
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	23.00
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	2.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	29.60
19	Total Sewage Generation (MLD)*		:	12.20
20	Per Capita Sewage Generation (lpcd)		:	134.20
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2462.10
		COD	:	4185.60
		TKN	:	492.40
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	-
32	Number of Drains/Nallah for Wastewater Disposal		:	1
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Dausa			State: Rajasthan	
S. No.	Items			Value
1	Total Area (sq km)		:	16.00
2	Population as in 2011		:	85960
3	Population Growth Rate as in 2011 (%)		:	39.54
4	Total Number of Wards		:	35
5	Population per Ward (Thousands)		:	2456
6	Total Number of Household as in 2011		:	15465
7	Number of Household per Ward		:	442
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	950
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	12.10
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	140.50
19	Total Sewage Generation (MLD)*		:	9.30
20	Per Capita Sewage Generation (lpcd)		:	108.20
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2320.90
		COD	:	3945.60
		TKN	:	464.20
30	Wastewater Disposal Means		:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Banganga River
32	Number of Drains/Nallah for Wastewater Disposal		:	3
33	Number of Water Bodies		:	2
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Deoband			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	7.90
2	Population as in 2011		:	97037
3	Population Growth Rate as in 2011 (%)		:	18.86
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	3,881
6	Total Number of Household as in 2011		:	15630
7	Number of Household per Ward		:	625
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	6.00
10	Number of Bore Wells		:	11
11	Ground Water Extraction per Bore Well (MLD)		:	0.55
12	Number of Hand Pumps/ Tubewells		:	175
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	61.81
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	6.10
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	62.70
19	Total Sewage Generation (MLD)*		:	36.20
20	Per Capita Sewage Generation (lpcd)		:	372.70
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	976.50
		COD	:	1660.10
		TKN	:	524.00
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	-
32	Number of Drains/Nallah for Wastewater Disposal		:	2
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Dhar			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		36.00
2	Population as in 2011	:		93917
3	Population Growth Rate as in 2011 (%)	:		24.60
4	Total Number of Wards	:		30
5	Population per Ward (Thousands)	:		3,131
6	Total Number of Household as in 2011	:		18531
7	Number of Household per Ward	:		618
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		263
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		12.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.20
19	Total Sewage Generation (MLD)*	:		10.10
20	Per Capita Sewage Generation (lpcd)	:		107.50
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2535.80
		COD	:	4310.80
		TKN	:	507.20
30	Wastewater Disposal Means	:		Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal	:		1
33	Number of Water Bodies	:		4
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Gangoh			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	6.00
2	Population as in 2011		:	59279
3	Population Growth Rate as in 2011 (%)		:	9.95
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	2,371
6	Total Number of Household as in 2011		:	9657
7	Number of Household per Ward		:	386
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	5.50
10	Number of Bore Wells		:	13
11	Ground Water Extraction per Bore Well (MLD)		:	0.42
12	Number of Hand Pumps/ Tubewells		:	315
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	92.46
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	5.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	95.10
19	Total Sewage Generation (MLD)*		:	12.40
20	Per Capita Sewage Generation (lpcd)		:	209.30
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1600.50
		COD	:	2720.90
		TKN	:	320.10
30	Wastewater Disposal Means		:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Buriyamuna River
32	Number of Drains/Nallah for Wastewater Disposal		:	2
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Gharoli			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		3.56
2	Population as in 2011	:		92540
3	Population Growth Rate as in 2011 (%)	:		33.26
4	Total Number of Wards	:		3
5	Population per Ward (Thousands)	:		30847
6	Total Number of Household as in 2011	:		19819
7	Number of Household per Ward	:		6606
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		12.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		10.00
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2498.60
		COD	:	4247.60
		TKN	:	499.70
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna, Hindan River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		1
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Gohad			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		14.91
2	Population as in 2011	:		58939
3	Population Growth Rate as in 2011 (%)	:		30.30
4	Total Number of Wards	:		18
5	Population per Ward (Thousands)	:		3,274
6	Total Number of Household as in 2011	:		10161
7	Number of Household per Ward	:		565
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		8.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.70
19	Total Sewage Generation (MLD)*	:		6.40
20	Per Capita Sewage Generation (lpcd)	:		108.60
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1591.40
		COD	:	2705.30
		TKN	:	318.30
30	Wastewater Disposal Means	:		Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Hodal			State: Haryana	
S. No.	Items			Value
1	Total Area (sq km)	:		5.39
2	Population as in 2011	:		50143
3	Population Growth Rate as in 2011 (%)	:		30.89
4	Total Number of Wards	:		17
5	Population per Ward (Thousands)	:		2,950
6	Total Number of Household as in 2011	:		8579
7	Number of Household per Ward	:		505
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		6.77
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135
19	Total Sewage Generation (MLD)*	:		5.42
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1353.90
		COD	:	2301.60
		TKN	:	270.80
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Jaffrabad			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		0.90
2	Population as in 2011	:		54601
3	Population Growth Rate as in 2011 (%)	:		-4.96
4	Total Number of Wards	:		3
5	Population per Ward (Thousands)	:		18200
6	Total Number of Household as in 2011	:		8815
7	Number of Household per Ward	:		2938
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		7.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		5.90
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1474.20
		COD	:	2506.20
		TKN	:	294.80
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Jait Pur			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		3.60
2	Population as in 2011	:		59330
3	Population Growth Rate as in 2011 (%)	:		140.10
4	Total Number of Wards	:		1
5	Population per Ward (Thousands)	:		59330
6	Total Number of Household as in 2011	:		11070
7	Number of Household per Ward	:		11070
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		8.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		6.40
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1601.90
		COD	:	2723.20
		TKN	:	320.40
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Jalaun			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		6.34
2	Population as in 2011	:		56909
3	Population Growth Rate as in 2011 (%)	:		13.69
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		2,276
6	Total Number of Household as in 2011	:		9560
7	Number of Household per Ward	:		382
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		4.32
10	Number of Bore Wells	:		6
11	Ground Water Extraction per Bore Well (MLD)	:		0.72
12	Number of Hand Pumps/ Tubewells	:		484
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		75.96
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		4.60
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		80.90
19	Total Sewage Generation (MLD)*	:		8.60
20	Per Capita Sewage Generation (lpcd)	:		151.80
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1536.50
		COD	:	2612.10
		TKN	:	307.30
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		1
33	Number of Water Bodies	:		9
34	Gross Area of Water Bodies (Hectare)	:		4.15
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Jaora			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		14.54
2	Population as in 2011	:		74907
3	Population Growth Rate as in 2011 (%)	:		15.05
4	Total Number of Wards	:		30
5	Population per Ward (Thousands)	:		2,497
6	Total Number of Household as in 2011	:		13102
7	Number of Household per Ward	:		437
8	Surface Water Supply (MLD)	:		3.25
9	Ground Water (GW) Supply (MLD)	:		0.15
10	Number of Bore Wells	:		61
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		159
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		3.25
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		10.10
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		8.10
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2022.50
		COD	:	3438.20
		TKN	:	404.50
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Maleni River
32	Number of Drains/Nallah for Wastewater Disposal	:		2
33	Number of Water Bodies	:		2
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Jhalawar			State: Rajasthan	
S. No.	Items			Value
1	Total Area (sq km)		:	12.95
2	Population as in 2011		:	66919
3	Population Growth Rate as in 2011 (%)		:	39.26
4	Total Number of Wards		:	30
5	Population per Ward (Thousands)		:	2231
6	Total Number of Household as in 2011		:	13595
7	Number of Household per Ward		:	453
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	950
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	8.60
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	128.10
19	Total Sewage Generation (MLD)*		:	9.30
20	Per Capita Sewage Generation (lpcd)		:	139.00
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1806.80
		COD	:	3071.60
		TKN	:	361.40
30	Wastewater Disposal Means		:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Kali Sindh, Ahu River
32	Number of Drains/Nallah for Wastewater Disposal		:	3
33	Number of Water Bodies		:	10
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Kairana			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		7.11
2	Population as in 2011	:		89000
3	Population Growth Rate as in 2011 (%)	:		21.90
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		3,560
6	Total Number of Household as in 2011	:		13951
7	Number of Household per Ward	:		558
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		12.43
10	Number of Bore Wells	:		23
11	Ground Water Extraction per Bore Well (MLD)	:		0.54
12	Number of Hand Pumps/ Tubewells	:		235
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		130.72
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		12.55
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		131.95
19	Total Sewage Generation (MLD)*	:		5.31
20	Per Capita Sewage Generation (lpcd)	:		59.70
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2403.00
		COD	:	4085.10
		TKN	:	480.60
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		1
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Kalpi			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		9.73
2	Population as in 2011	:		51670
3	Population Growth Rate as in 2011 (%)	:		20.46
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		2,067
6	Total Number of Household as in 2011	:		8408
7	Number of Household per Ward	:		336
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		7.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		5.60
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1395.10
		COD	:	2371.70
		TKN	:	279.00
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Kapas Hera			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		3.40
2	Population as in 2011	:		74073
3	Population Growth Rate as in 2011 (%)	:		242.66
4	Total Number of Wards	:		1
5	Population per Ward (Thousands)	:		74073
6	Total Number of Household as in 2011	:		21370
7	Number of Household per Ward	:		21370
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		10.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		8.00
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2000.00
		COD	:	3400.00
		TKN	:	400.00
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Karauli			State: Rajasthan	
S. No.	Items			Value
1	Total Area (sq km)		:	35.00
2	Population as in 2011		:	82960
3	Population Growth Rate as in 2011 (%)		:	25.24
4	Total Number of Wards		:	35
5	Population per Ward (Thousands)		:	2370
6	Total Number of Household as in 2011		:	14578
7	Number of Household per Ward		:	417
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	950
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	11.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	140.70
19	Total Sewage Generation (MLD)*		:	9.00
20	Per Capita Sewage Generation (lpcd)		:	108.50
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2239.90
		COD	:	3807.90
		TKN	:	448.00
30	Wastewater Disposal Means		:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Utangan River
32	Number of Drains/Nallah for Wastewater Disposal		:	3
33	Number of Water Bodies		:	0
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Khanjoori Khas			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		0.90
2	Population as in 2011	:		76640
3	Population Growth Rate as in 2011 (%)	:		69.98
4	Total Number of Wards	:		1
5	Population per Ward (Thousands)	:		76640
6	Total Number of Household as in 2011	:		13186
7	Number of Household per Ward	:		13186
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		10.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		8.30
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2069.30
		COD	:	3517.80
		TKN	:	413.90
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Khurai			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		11.03
2	Population as in 2011	:		51108
3	Population Growth Rate as in 2011 (%)	:		23.12
4	Total Number of Wards	:		27
5	Population per Ward (Thousands)	:		1,893
6	Total Number of Household as in 2011	:		9798
7	Number of Household per Ward	:		363
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		6.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		5.50
20	Per Capita Sewage Generation (lpcd)	:		107.60
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1379.90
		COD	:	2345.90
		TKN	:	276.00
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Bina River
32	Number of Drains/Nallah for Wastewater Disposal	:		1
33	Number of Water Bodies	:		2
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Konch			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	2.95
2	Population as in 2011		:	53412
3	Population Growth Rate as in 2011 (%)		:	5.05
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	2,136
6	Total Number of Household as in 2011		:	8655
7	Number of Household per Ward		:	346
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	4.70
10	Number of Bore Wells		:	9
11	Ground Water Extraction per Bore Well (MLD)		:	0.52
12	Number of Hand Pumps/ Tubewells		:	462
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	87.97
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	4.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	92.30
19	Total Sewage Generation (MLD)*		:	1.10
20	Per Capita Sewage Generation (lpcd)		:	20.50
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1442.10
		COD	:	2451.60
		TKN	:	288.40
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Betwa River
32	Number of Drains/Nallah for Wastewater Disposal		:	1
33	Number of Water Bodies		:	3
34	Gross Area of Water Bodies (Hectare)		:	24.62
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Koshi Kalan			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	4.50
2	Population as in 2011		:	60074
3	Population Growth Rate as in 2011 (%)		:	31.39
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	2,403
6	Total Number of Household as in 2011		:	9879
7	Number of Household per Ward		:	395
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	NA
13	Ground Water Extraction per Hand Pump (lpcd)		:	NA
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	8.10
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	135.00
19	Total Sewage Generation (MLD)*		:	6.50
20	Per Capita Sewage Generation (lpcd)		:	108.00
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1622.00
		COD	:	2757.40
		TKN	:	324.40
30	Wastewater Disposal Means		:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal		:	NA
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City:Kuchaman			State: Rajasthan	
S. No.	Items			Value
1	Total Area (sq km)		:	12.50
2	Population as in 2011		:	61969
3	Population Growth Rate as in 2011 (%)		:	22.50
4	Total Number of Wards		:	30
5	Population per Ward (Thousands)		:	2066
6	Total Number of Household as in 2011		:	9643
7	Number of Household per Ward		:	321
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	950
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	8.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	143.20
19	Total Sewage Generation (MLD)*		:	6.70
20	Per Capita Sewage Generation (lpcd)		:	108.10
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1673.20
		COD	:	2844.40
		TKN	:	334.60
30	Wastewater Disposal Means		:	Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal		:	3
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Mahoba			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	12.15
2	Population as in 2011		:	95216
3	Population Growth Rate as in 2011 (%)		:	20.86
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	3,809
6	Total Number of Household as in 2011		:	17283
7	Number of Household per Ward		:	691
8	Surface Water Supply (MLD)		:	11.86
9	Ground Water (GW) Supply (MLD)		:	4.25
10	Number of Bore Wells		:	20
11	Ground Water Extraction per Bore Well (MLD)		:	0.21
12	Number of Hand Pumps/ Tubewells		:	1090
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	11.86
16	Average Water Supply Rate from ULB Sources (lpcd)		:	168.77
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	16.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	174.48
19	Total Sewage Generation (MLD)*		:	14.66
20	Per Capita Sewage Generation (lpcd)		:	153.91
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2570.80
		COD	:	4370.40
		TKN	:	514.20
30	Wastewater Disposal Means		:	Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Ken River
32	Number of Drains/Nallah for Wastewater Disposal		:	4
33	Number of Water Bodies		:	4
34	Gross Area of Water Bodies (Hectare)		:	194.70
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Mandideep			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		12.78
2	Population as in 2011	:		59654
3	Population Growth Rate as in 2011 (%)	:		49.66
4	Total Number of Wards	:		18
5	Population per Ward (Thousands)	:		3,314
6	Total Number of Household as in 2011	:		14330
7	Number of Household per Ward	:		796
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NIL
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		8.10
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.80
19	Total Sewage Generation (MLD)*	:		6.40
20	Per Capita Sewage Generation (lpcd)	:		107.30
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1610.70
		COD	:	2738.10
		TKN	:	322.10
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Kaliasot River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		1
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Mauranipur			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		5.53
2	Population as in 2011	:		61449
3	Population Growth Rate as in 2011 (%)	:		20.77
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		2,458
6	Total Number of Household as in 2011	:		10879
7	Number of Household per Ward	:		435
8	Surface Water Supply (MLD)	:		2.84
9	Ground Water (GW) Supply (MLD)	:		0.90
10	Number of Bore Wells	:		4
11	Ground Water Extraction per Bore Well (MLD)	:		0.23
12	Number of Hand Pumps/ Tubewells	:		453
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		2.84
16	Average Water Supply Rate from ULB Sources (lpcd)	:		63.98
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		4.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		67.90
19	Total Sewage Generation (MLD)*	:		10.20
20	Per Capita Sewage Generation (lpcd)	:		166.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1659.10
		COD	:	2820.50
		TKN	:	331.80
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Suknai River
32	Number of Drains/Nallah for Wastewater Disposal	:		6
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Mithe Pur			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		1.80
2	Population as in 2011	:		69837
3	Population Growth Rate as in 2011 (%)	:		71.83
4	Total Number of Wards	:		1
5	Population per Ward (Thousands)	:		69837
6	Total Number of Household as in 2011	:		14160
7	Number of Household per Ward	:		14160
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		9.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		7.50
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1885.60
		COD	:	3205.50
		TKN	:	377.10
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Molar Band			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		4.10
2	Population as in 2011	:		91402
3	Population Growth Rate as in 2011 (%)	:		125.55
4	Total Number of Wards	:		3
5	Population per Ward (Thousands)	:		30467
6	Total Number of Household as in 2011	:		18159
7	Number of Household per Ward	:		6053
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		12.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		9.90
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2467.90
		COD	:	4195.40
		TKN	:	493.60
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Mukand Pur			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		2.50
2	Population as in 2011	:		57135
3	Population Growth Rate as in 2011 (%)	:		167.62
4	Total Number of Wards	:		1
5	Population per Ward (Thousands)	:		57135
6	Total Number of Household as in 2011	:		10975
7	Number of Household per Ward	:		10975
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		7.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		6.20
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1542.60
		COD	:	2622.50
		TKN	:	308.50
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Mundka			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		11.90
2	Population as in 2011	:		54541
3	Population Growth Rate as in 2011 (%)	:		24.32
4	Total Number of Wards	:		3
5	Population per Ward (Thousands)	:		18180
6	Total Number of Household as in 2011	:		10615
7	Number of Household per Ward	:		3538
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		7.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		5.90
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1472.60
		COD	:	2503.40
		TKN	:	294.50
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		2
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Muradnagar			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	12.00
2	Population as in 2011		:	95208
3	Population Growth Rate as in 2011 (%)		:	28.40
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	3,808
6	Total Number of Household as in 2011		:	15241
7	Number of Household per Ward		:	610
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	6.16
10	Number of Bore Wells		:	5
11	Ground Water Extraction per Bore Well (MLD)		:	1.23
12	Number of Hand Pumps/ Tubewells		:	294
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	61.60
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	6.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	63.10
19	Total Sewage Generation (MLD)*		:	6.80
20	Per Capita Sewage Generation (lpcd)		:	71.60
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2570.60
		COD	:	4370.00
		TKN	:	514.10
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Hindon River
32	Number of Drains/Nallah for Wastewater Disposal		:	1
33	Number of Water Bodies		:	2
34	Gross Area of Water Bodies (Hectare)		:	1.57
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Nasirabad			State: Rajasthan	
S. No.	Items			Value
1	Total Area (sq km)		:	22.93
2	Population as in 2011		:	50804
3	Population Growth Rate as in 2011 (%)		:	3.41
4	Total Number of Wards		:	7
5	Population per Ward (Thousands)		:	7258
6	Total Number of Household as in 2011		:	9078
7	Number of Household per Ward		:	1297
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	950
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	7.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	145.20
19	Total Sewage Generation (MLD)*		:	5.50
20	Per Capita Sewage Generation (lpcd)		:	108.30
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1371.70
		COD	:	2331.90
		TKN	:	274.30
30	Wastewater Disposal Means		:	Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal		:	3
33	Number of Water Bodies		:	2
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Nimbahera			State: Rajasthan	
S. No.	Items			Value
1	Total Area (sq km)		:	12.74
2	Population as in 2011		:	61949
3	Population Growth Rate as in 2011 (%)		:	16.17
4	Total Number of Wards		:	30
5	Population per Ward (Thousands)		:	2065
6	Total Number of Household as in 2011		:	12776
7	Number of Household per Ward		:	426
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	950
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	4.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	72.20
19	Total Sewage Generation (MLD)*		:	10.40
20	Per Capita Sewage Generation (lpcd)		:	167.90
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1672.60
		COD	:	2843.50
		TKN	:	334.50
30	Wastewater Disposal Means		:	Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal		:	3
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Nithari			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		2.29
2	Population as in 2011	:		50464
3	Population Growth Rate as in 2011 (%)	:		44.08
4	Total Number of Wards	:		1
5	Population per Ward (Thousands)	:		50464
6	Total Number of Household as in 2011	:		9460
7	Number of Household per Ward	:		9460
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		6.80
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		5.50
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1362.50
		COD	:	2316.30
		TKN	:	272.50
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		1
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Panipat Taraf Makhdum Zadgan			State: Haryana	
S. No.	Items			Value
1	Total Area (sq km)	:		6.54
2	Population as in 2011	:		67998
3	Population Growth Rate as in 2011 (%)	:		93.42
4	Total Number of Wards	:		1
5	Population per Ward (Thousands)	:		67,998
6	Total Number of Household as in 2011	:		14066
7	Number of Household per Ward	:		14066
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		9.18
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		7.34
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1835.90
		COD	:	3121.10
		TKN	:	367.20
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Panna			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		10.00
2	Population as in 2011	:		59091
3	Population Growth Rate as in 2011 (%)	:		13.51
4	Total Number of Wards	:		22
5	Population per Ward (Thousands)	:		2,686
6	Total Number of Household as in 2011	:		10019
7	Number of Household per Ward	:		455
8	Surface Water Supply (MLD)	:		2.34
9	Ground Water (GW) Supply (MLD)	:		1.06
10	Number of Bore Wells	:		65
11	Ground Water Extraction per Bore Well (MLD)	:		0.02
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		2.34
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		8.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		6.40
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1595.50
		COD	:	2712.30
		TKN	:	319.10
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Kilkila, Ken River
32	Number of Drains/Nallah for Wastewater Disposal	:		1
33	Number of Water Bodies	:		12
34	Gross Area of Water Bodies (Hectare)	:		54.47
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Pooth Kalan			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		7.00
2	Population as in 2011	:		96002
3	Population Growth Rate as in 2011 (%)	:		89.74
4	Total Number of Wards	:		1
5	Population per Ward (Thousands)	:		96002
6	Total Number of Household as in 2011	:		19516
7	Number of Household per Ward	:		19516
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		13.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		10.40
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2592.10
		COD	:	4406.50
		TKN	:	518.40
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Pul Pehlad			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)		:	2.20
2	Population as in 2011		:	69657
3	Population Growth Rate as in 2011 (%)		:	31.79
4	Total Number of Wards		:	1
5	Population per Ward (Thousands)		:	69657
6	Total Number of Household as in 2011		:	14734
7	Number of Household per Ward		:	14734
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	NA
13	Ground Water Extraction per Hand Pump (lpcd)		:	NA
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	9.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	135.00
19	Total Sewage Generation (MLD)*		:	7.50
20	Per Capita Sewage Generation (lpcd)		:	108.00
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1880.70
		COD	:	3197.30
		TKN	:	376.10
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal		:	NA
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Raghogarh -Vijaypur			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		73.79
2	Population as in 2011	:		62163
3	Population Growth Rate as in 2011 (%)	:		26.42
4	Total Number of Wards	:		24
5	Population per Ward (Thousands)	:		2,590
6	Total Number of Household as in 2011	:		12409
7	Number of Household per Ward	:		517
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		8.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.10
19	Total Sewage Generation (MLD)*	:		6.70
20	Per Capita Sewage Generation (lpcd)	:		107.80
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1678.40
		COD	:	2853.30
		TKN	:	335.70
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Parbati, Chopan River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		7
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City:Rajsamand		State: Rajasthan	
S. No.	Items		Value
1	Total Area (sq km)	:	55.00
2	Population as in 2011	:	67798
3	Population Growth Rate as in 2011 (%)	:	21.75
4	Total Number of Wards	:	30
5	Population per Ward (Thousands)	:	2260
6	Total Number of Household as in 2011	:	13765
7	Number of Household per Ward	:	459
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	NA
10	Number of Bore Wells	:	NA
11	Ground Water Extraction per Bore Well (MLD)	:	NA
12	Number of Hand Pumps/ Tubewells	:	950
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	9.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	142.70
19	Total Sewage Generation (MLD)*	:	7.30
20	Per Capita Sewage Generation (lpcd)	:	107.70
21	Sewage Collection (MLD)	:	NA
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NA
25	Current Utilized Capacity of STPs (MLD)	:	NA
26	Percentage Utilization of Installed Capacity (%)	:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 1830.50
		COD	: 3111.90
		TKN	: 366.10
30	Wastewater Disposal Means	:	Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Banas,Gomati River
32	Number of Drains/Nallah for Wastewater Disposal	:	3
33	Number of Water Bodies	:	1
34	Gross Area of Water Bodies (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Rath			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		8.12
2	Population as in 2011	:		65056
3	Population Growth Rate as in 2011 (%)	:		16.28
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		2,238
6	Total Number of Household as in 2011	:		11274
7	Number of Household per Ward	:		451
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		5.50
10	Number of Bore Wells	:		11
11	Ground Water Extraction per Bore Well (MLD)	:		0.50
12	Number of Hand Pumps/ Tubewells	:		348
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		84.49
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		5.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		87.20
19	Total Sewage Generation (MLD)*	:		4.20
20	Per Capita Sewage Generation (lpcd)	:		65.20
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1756.50
		COD	:	2986.10
		TKN	:	351.30
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Betwa/ Dhasan River
32	Number of Drains/Nallah for Wastewater Disposal	:		1
33	Number of Water Bodies	:		9
34	Gross Area of Water Bodies (Hectare)	:		19.90
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Roshan Pura alias Dichaon Khurd			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		2.80
2	Population as in 2011	:		57217
3	Population Growth Rate as in 2011 (%)	:		48.30
4	Total Number of Wards	:		1
5	Population per Ward (Thousands)	:		57217
6	Total Number of Household as in 2011	:		10956
7	Number of Household per Ward	:		10956
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		7.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		6.20
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1544.90
		COD	:	2626.30
		TKN	:	309.00
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Sadat Pur Gujran			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		1.10
2	Population as in 2011	:		97641
3	Population Growth Rate as in 2011 (%)	:		125.91
4	Total Number of Wards	:		1
5	Population per Ward (Thousands)	:		97641
6	Total Number of Household as in 2011	:		18679
7	Number of Household per Ward	:		18679
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		13.20
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		10.50
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2636.30
		COD	:	4481.70
		TKN	:	527.30
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		1
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Sahibabad Daulat Pur			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		5.70
2	Population as in 2011	:		54773
3	Population Growth Rate as in 2011 (%)	:		52.23
4	Total Number of Wards	:		1
5	Population per Ward (Thousands)	:		54773
6	Total Number of Household as in 2011	:		11720
7	Number of Household per Ward	:		11720
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		7.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		5.90
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1478.90
		COD	:	2514.10
		TKN	:	295.80
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna, Hindan River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Shajapur			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		17.19
2	Population as in 2011	:		69263
3	Population Growth Rate as in 2011 (%)	:		19.79
4	Total Number of Wards	:		29
5	Population per Ward (Thousands)	:		2,388
6	Total Number of Household as in 2011	:		13066
7	Number of Household per Ward	:		451
8	Surface Water Supply (MLD)	:		4
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		60
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		4
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		9.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		7.50
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NIL
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1870.10
		COD	:	3179.20
		TKN	:	374.00
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Chiler, Lakhunder River
32	Number of Drains/Nallah for Wastewater Disposal	:		9
33	Number of Water Bodies	:		2
34	Gross Area of Water Bodies (Hectare)	:		3.04
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Sheopur			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		6.29
2	Population as in 2011	:		71951
3	Population Growth Rate as in 2011 (%)	:		23.33
4	Total Number of Wards	:		23
5	Population per Ward (Thousands)	:		3,128
6	Total Number of Household as in 2011	:		13724
7	Number of Household per Ward	:		597
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		9.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		7.80
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1942.70
		COD	:	3302.60
		TKN	:	388.50
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Parbati River
32	Number of Drains/Nallah for Wastewater Disposal	:		5
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Shujalpur			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		7.74
2	Population as in 2011	:		51225
3	Population Growth Rate as in 2011 (%)	:		20.63
4	Total Number of Wards	:		21
5	Population per Ward (Thousands)	:		2,439
6	Total Number of Household as in 2011	:		9833
7	Number of Household per Ward	:		468
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		6.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		5.50
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1383.10
		COD	:	2351.20
		TKN	:	276.60
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Newaj River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Sikandrabad			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		1.14
2	Population as in 2011	:		81028
3	Population Growth Rate as in 2011 (%)	:		15.97
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		3,241
6	Total Number of Household as in 2011	:		13231
7	Number of Household per Ward	:		529
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		6.00
10	Number of Bore Wells	:		5
11	Ground Water Extraction per Bore Well (MLD)	:		1.20
12	Number of Hand Pumps/ Tubewells	:		235
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		75
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		6.10
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		76.47
19	Total Sewage Generation (MLD)*	:		48.79
20	Per Capita Sewage Generation (lpcd)	:		602.18
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2187.80
		COD	:	3719.20
		TKN	:	437.60
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		2
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Sironj			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		9.99
2	Population as in 2011	:		52460
3	Population Growth Rate as in 2011 (%)	:		24.37
4	Total Number of Wards	:		21
5	Population per Ward (Thousands)	:		2,498
6	Total Number of Household as in 2011	:		9928
7	Number of Household per Ward	:		473
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		7.10
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		5.70
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1416.40
		COD	:	2407.90
		TKN	:	283.30
30	Wastewater Disposal Means	:		Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Land Disposal
32	Number of Drains/Nallah for Wastewater Disposal	:		2
33	Number of Water Bodies	:		1
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Taj Pul			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)	:		1.20
2	Population as in 2011	:		68796
3	Population Growth Rate as in 2011 (%)	:		15.35
4	Total Number of Wards	:		2
5	Population per Ward (Thousands)	:		34398
6	Total Number of Household as in 2011	:		13825
7	Number of Household per Ward	:		6913
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		9.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		7.40
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1857.50
		COD	:	3157.70
		TKN	:	371.50
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Tikamgarh			State: Madhya Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		6.22
2	Population as in 2011	:		79106
3	Population Growth Rate as in 2011 (%)	:		15.61
4	Total Number of Wards	:		27
5	Population per Ward (Thousands)	:		2,930
6	Total Number of Household as in 2011	:		14587
7	Number of Household per Ward	:		540
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		10.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		8.50
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2135.90
		COD	:	3631.00
		TKN	:	427.20
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Jamani River
32	Number of Drains/Nallah for Wastewater Disposal	:		7
33	Number of Water Bodies	:		6
34	Gross Area of Water Bodies (Hectare)	:		125.28
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Tundla			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		8.25
2	Population as in 2011	:		50423
3	Population Growth Rate as in 2011 (%)	:		24.63
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		2,017
6	Total Number of Household as in 2011	:		8744
7	Number of Household per Ward	:		350
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		NA
10	Number of Bore Wells	:		NA
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps/ Tubewells	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpcd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		6.80
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		5.40
20	Per Capita Sewage Generation (lpcd)	:		108.00
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		NA
25	Current Utilized Capacity of STPs (MLD)	:		NA
26	Percentage Utilization of Installed Capacity (%)	:		NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1361.40
		COD	:	2314.40
		TKN	:	272.30
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Vrindavan			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	13.49
2	Population as in 2011		:	63005
3	Population Growth Rate as in 2011 (%)		:	11.14
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	2,520
6	Total Number of Household as in 2011		:	11637
7	Number of Household per Ward		:	465
8	Surface Water Supply (MLD)		:	1.50
9	Ground Water (GW) Supply (MLD)		:	6
10	Number of Bore Wells		:	28
11	Ground Water Extraction per Bore Well (MLD)		:	0.21
12	Number of Hand Pumps/ Tubewells		:	400
13	Ground Water Extraction per Hand Pump (lpcd)		:	600
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	1.50
16	Average Water Supply Rate from ULB Sources (lpcd)		:	119.04
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	7.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	122.80
19	Total Sewage Generation (MLD)*		:	13.00
20	Per Capita Sewage Generation (lpcd)		:	206.90
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1701.10
		COD	:	2891.90
		TKN	:	340.20
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal		:	6
33	Number of Water Bodies		:	7
34	Gross Area of Water Bodies (Hectare)		:	2.00
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Ziauddin Pur			State: NCT Delhi	
S. No.	Items			Value
1	Total Area (sq km)		:	1.80
2	Population as in 2011		:	68993
3	Population Growth Rate as in 2011 (%)		:	43.61
4	Total Number of Wards		:	3
5	Population per Ward (Thousands)		:	22998
6	Total Number of Household as in 2011		:	12057
7	Number of Household per Ward		:	4019
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	NA
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	NA
13	Ground Water Extraction per Hand Pump (lpcd)		:	NA
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	9.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	135.00
19	Total Sewage Generation (MLD)*		:	7.50
20	Per Capita Sewage Generation (lpcd)		:	108.00
21	Sewage Collection (MLD)		:	NA
22	Percentage of Sewage Collection (%)		:	NA
23	Number of STPs		:	NA
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	NA
25	Current Utilized Capacity of STPs (MLD)		:	NA
26	Percentage Utilization of Installed Capacity (%)		:	NA
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	NA
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1862.80
		COD	:	3166.80
		TKN	:	372.60
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Yamuna River
32	Number of Drains/Nallah for Wastewater Disposal		:	NA
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1