

Assessment of Domestic Pollution Load from Urban Agglomeration in Ganga Basin: Uttar Pradesh

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 on the Tributaries of the River Ganga Executed in the State	11
3 Demographic Profile of Ganga Basin in the State	14
4 Religious Places and their Importance	28
5 Pollution Load	29
6 Conclusions	41
References	44
Appendix 1: Compilation of Data Sheets of Water Balance & Pollution Load (Domestic) of Class I Cities/Towns in Uttar Pradesh	46
Appendix 2: Compilation of Data Sheets of Water Balance & Pollution Load (Domestic) of Class II Cities/Towns in Uttar Pradesh	141
Appendix 3: Compilation of the Total Sewage Discharge through Point Sources in Ganga River Basin (Adopted from CPCB, 2013)	201
Appendix 4: Compilation of the Total Sewage Discharge through Point Sources in Ganga River Basin(Survey Assesment)	207

1. Introduction

Uttar Pradesh has a total area of 240,928sq km which is about 7.33 percent of the total area of the country (Census 2011). It is the fifthlargest state in the country having more than 32 large and small rivers. The state's population of 200 million (as per census 2011 provisional data) is equivalent to the population of Brazil. Based on economic activities, the state can be divided into four regions – Western, Central, Eastern and Bundelkhand. The first three regions fall in the Gangetic plains, while the fourth region lies in the southern part of the state. Uttar Pradesh has a total of 75 districts with Lucknow as its capital.

The Ganga River Basin (GRB) has a total catchment area of 1,086,000 sqkm across India, Tibet (China), Nepal and Bangladesh. The river basin in India, nearly covers 26% (861,404 sq km; about 80% of total catchment area of Ganga river basin) of the total geographical area. The sprawling Ganga basin, spread across 11 states, is the world's most populous river basin and home to more than 492 million Indians. Uttar Pradesh is one of the 11 states (Uttarakhand, Uttar Pradesh, Bihar, Chhattisgarh, Delhi, Haryana, Himachal Pradesh, Rajasthan, Madhya Pradesh, Jharkhand and West Bengal) of the GRB in India through which the Ganga River and her tributaries flow approximately in the direction of North West to South East. The entire geographical area of the state lies in GRB where Ganga River traverses a distance of about 1,140 km (Figures 1 and 2). A comparison of state-wise distribution of GRB area within the geographical areas of different states is presented in Table 1.

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

State/ Union Territory	*Total Geographical Area (sqkm)	#Area contributing to Ganga Basin (sqkm)	Percentage of the Basin Area (%)
Uttarakhand	53,483	53,436	6.2
Uttar Pradesh	240,928	240,928	28.0
Bihar	94,163	94,163	10.9
Jharkhand	79,716	49,798	5.8
Madhya Pradesh	308,252	198,962	23.1
Chhattisgarh	135,192		
Delhi	1,484	1,484	0.17
Haryana	44,212	34,341	4.0
Himachal Pradesh	55,673	4,317	0.5
Rajasthan	342,239	112,490	13.1
West Bengal	88,752	71,485	8.3

Source: *Census 2011; #<https://nmcg.nic.in/location.aspx>

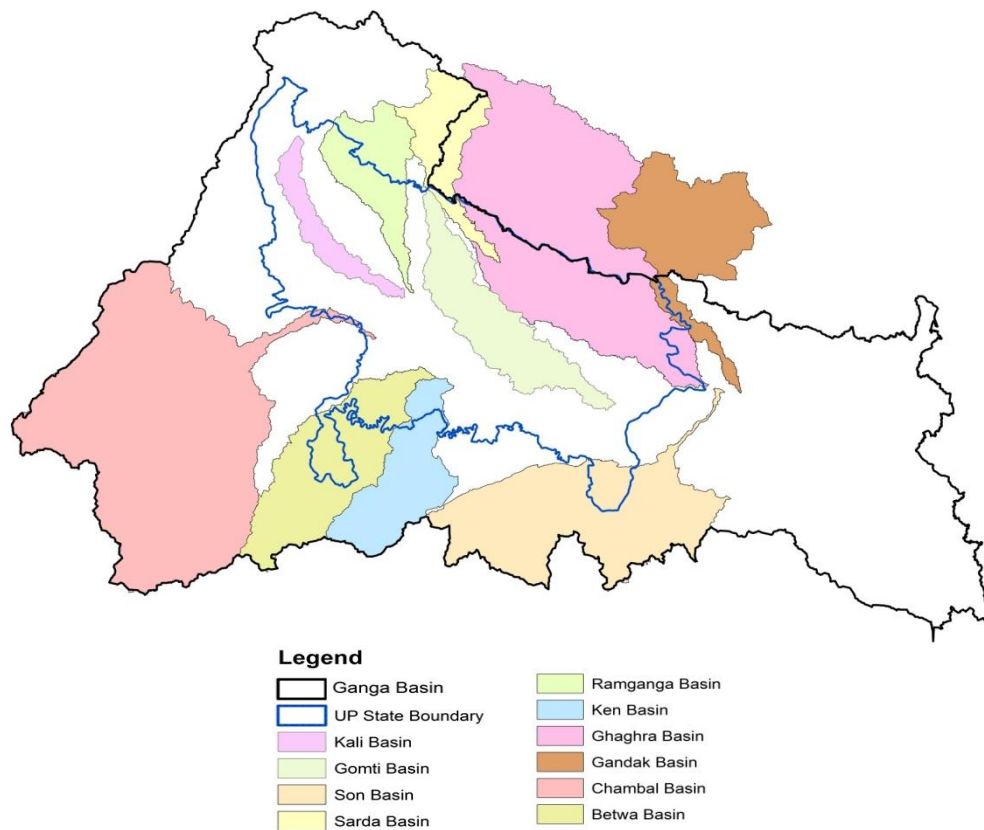


Figure 1: Ganga River Basin with its Major Sub-Basins within the Indian Territory

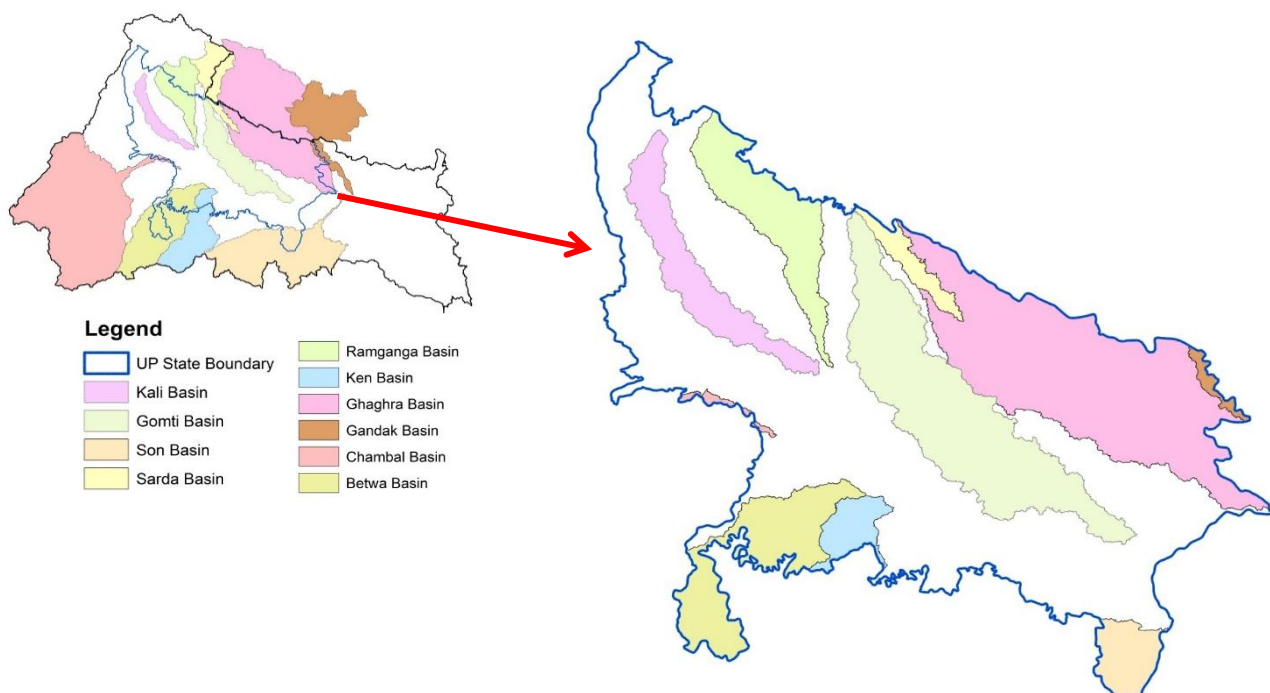


Figure 2: Major Sub-Basins or their Portions under the Ganga River Basin in the State of Uttar Pradesh

River Ganga enters in Uttar Pradesh near Balawali, Bijnora and exits near Ballia before confluence with Ghaghara River. During her course many tributaries such as

Ramganga, Gomti, Varuna, Ghaghara join Ganga on her left bank, whereas, Assi, Kali, Pandu, Yamuna, Tamas (also known as Tons), and Sone join on the right banks. The entire state of Uttar Pradesh is in GRB, and in terms of catchment area is the largest contributor. The salient features of major tributaries and sub-tributaries contributing directly or indirectly to the river Ganga in the state of Uttar Pradesh are presented in Table 2.

Table 2: Salient Features of Tributaries/ Sub-Tributaries of River Ganga in the State of Uttar Pradesh

Characteristics	Tributaries/ Sub-tributaries					
	Yamuna	Ramganga	Ghaghara	Gomti	Varuna	Tamsa/Tamas
Position	Right bank	Left bank	Left bank	Left bank	Left bank	Right bank
Region of origin	Yamunotri glacier at Bandarpunch, UK	Gairsain of Doodha-Toli ranges, UK	Tibetan Plateau near Lake Mansarovar	Gomat Tal, Pilibhit, UP	Jhigna Tal (Phulpur Tal) near Allahabad, UP	Kamore hills in Satna district, MP
Mouth	Ganga	Ganga	Ganga	Ganga	Ganga	Ganga
Total length (km)	1376	596	1,080	960	100	264
Total catchment area (sq km)	366,223	22,400	127,950	30,437	-	18,158
Catchment area in U.P. (sq km)	70,437	12,773	43,488	30,437	-	6,184
River bed/ Soil texture	Alluvial about 42% of the basin area, followed by medium black soil 25.5% and mixed red and black soil 15%	Clay, silt and gravel of various grades	Clay, sand, loam and deep black soil	Sand, silt, clay and occasional kankar bands	Clay, silt, sand and gravel of various grades	Deep black soil, shallow black soil and the mixed red and black soil

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	Tributaries/ Sub-tributaries					
Characteristics	Hindon	Chambal	Sind	Betwa	Ken	Sharda
Position	Left bank	Right bank	Right bank	Right bank	Right bank	Right bank
Region of origin	Sivalik hills	North wards slope of the Vindhyan mountains in native state of Indore, MP	North wards slope of the Vindhyan mountains originates at Hatoli District Vidisha, MP	North wards slope of the Vindhyan mountains , MP	North Western slope of the Vindhyan mountains in native state of Bhopal, MP	Kalapani, district Pithoragarh, UK
Mouth	Yamuna	Yamuna	Yamuna	Yamuna	Yamuna	Ghaghara
Total length (km)	400	960	415	590	427	350
Total catchment area (sq km)	7,083	143,219	25,879	47,940	28,058	18,140
Catchment area in U.P. (sq km)	7,083*	452*	748*	14,438*	3,366*	-
River bed	Sand	Stony rapid, sand banks and gravel bars	-	Stones, Sand, Riffle and Pools; Pebbles and Cobble	Rocks, Stones, Sand	-

Gopal and Sah (1993); Dwivedi (2006);*Rai et al. 2012

The total catchment area of the major tributaries (Yamuna, Hindon, Ghaghara, Gomti, Betwa, Ramganga, Varuna, Tamas, Kali, Son, Ken, Sharda, Gandak and Chambal) of River Ganga covers nearly 78 % of the total area of the state of Uttar Pradesh, while the balance 22 % of the state falls directly in the catchment of the main stem of River Ganga. Yamuna is one of the largest tributaries of river Ganga, having a total catchment area of 366,223 sq km, out of which near about 19-20% lies in Uttar Pradesh, alone covering 29.24% of the geographical area (240,928 sq km) of the state. The total annual average rainfall in the state of Uttar Pradesh is in the order of 1025mm.

2. Major Obstruction and Abstraction Projectson the Tributaries of the River GangaExecutedintheState

The natural flow regime in the river Ganga and her tributaries have been altered due to construction of a number of dams and barrages in the mountainous reaches. The mountainous region of the main stem river Ganga is obstructed due to the ongoing hydroelectric projects *i.e.*, Maneri Bhali I, Maneri Bhali II, Tehri and Koteshwar. Further downstream, Bhimgauda barrage diverts nearly all water during non-monsoon season to upper Ganga canal through Har ki Pauri, Haridwar. As the river enters the state of Uttar Pradesh, further obstacles occur in Bijnor and Narora districts in the form of diversions to Middle or Madhya (Kharif canal) and Lower Ganga Canal, respectively. The Madhya and Lower Ganga Canals have capacities of 290 and 254 cumec, respectively. A parallel canal system of 130 cumec was added later by the state of Uttar Pradesh. Substantial portion of the river flow is diverted to support agricultural activities through these canal systems. Further downstream at Kanpur the river is interrupted by Luvkush barrage. This barrage is essentially for meeting the domestic water supplies. The list of the major dams on Ganga River and its tributaries in Uttar Pradesh are mentioned underneath.

Table 3: Details of the Major Dams on the River Ganga and Her Tributaries in the State of Uttar Pradesh

Projects	River	Year of Completion	Remark
Adwa Dam	Adwa	1978	Irrigation
Afzalgarh Dam	Ramganga	-	Irrigation
Ahaura Dam	Garai	1955	Irrigation
Arjun Dam	Arjun	1957	Irrigation
Aunjhar Dam	Aunjhar	1930	Irrigation
Bachara Dam	Bacharanala	1980	Irrigation
Baghel Khand Dam	Jamunahwa	1957	Irrigation
Baghla Dam	-	-	Irrigation
Balui Bandh	-	-	Irrigation
Balui Dam	Local	-	Irrigation
Banjari Kalan Dam	Local	-	Irrigation
Barwa Dam	Bora Nala	1967	Irrigation
Barwa Sagar Dam	Barwa Nala	-	-
Barwar Dam	Bora Nala	1923	Irrigation
Barwatola Dam	local nala	1957	Irrigation
BhagwanPur Dam	Nakti Nala	1965	Irrigation
Bhainsora Dam	Marhwa Nala	1926	Irrigation
Bhonka Dam	Bhonka	1951	Irrigation
Chandra Prabha Dam	Chandraprabha	1966	Irrigation
Chandrawal Dam	Chandrawal	1973	Irrigation
Chittaurgarh Dam	Gambhiri	1985	Irrigation
Deori Dam	Local	1978	Irrigation

Dhandhraul Dam	Son	1917	Irrigation
Dhenkwan Dam	PhatidariNala	1985	Irrigation
Dongia Dam	Garai	1918	Irrigation
Dongri Dam	Pahuj	1986	Irrigation
Ganeshpur Dam	Local nala	-	-
Garhwa Dam	Garhwa	1975	Irrigation
Ghooga Dam	Local	1951	Irrigation
Ghuri Dam	Ghuri	1915	Irrigation
Girgity Dam	RamsutiaNala	1966	Irrigation
Gointha Dam	Local	1992	Irrigation
Govind Sagar Dam	Shahzad	1953	Irrigation
Gularia Dam	Gularia Stream	1966	Irrigation
Gunta Dam	GuntaNala (Yamuna)	2003	Irrigation
Hinauti Dam	Col Nala	1964	Irrigation
Jaiwanti Dam	Jalwanti	1928	Irrigation
Jamini Dam	Jamni	1973	Irrigation
Jirgo Dam	Jirgo	1958	Irrigation
Jogendra Dam	Jogendra	1970	Irrigation
Kabrai Dam	Mageria	1955	Irrigation
Kachnoda Dam	Sajnam	2012	Irrigation
Kargara Dam	Local	1978	Irrigation
Keolari Dam	Keolari	1966	Irrigation
Khairman Dam	HengaNala	1958	Irrigation
Khandeha Dam	DasrathNala	1929	Irrigation
Khapatia Dam	Borera	1916	Irrigation
Khiriata Dam	Local	1992	Irrigation
Kohar Gaddi Dam	BhabharNala	1930	Irrigation
Kota Dam	Local	1960	Irrigation
KotraKhambha Dam	Harai	1915	Irrigation
Kuba Khurd Dam	Local	1988	Irrigation
Lachura Dam	Dhasan	1910	Irrigation
Lower Khajuri Dam	KuardariNalla	1949	Irrigation
Majhgawan Dam	GunchiNala	1917	Irrigation
Matatila Dam	Betwa	1958	Hydroelectric,Irrigation
Maudaha (Swami Brahmanand) Dam	Birma	2003	Irrigation
Meja Dam	Belan	1987	Irrigation
Moosakhand Dam	Karmnasa	1967	Irrigation
Muirpur Dam	Local	1992	Irrigation
Murtia Dam	Local	1977	Irrigation
Nagwa Dam	Karmanasa	1950	Irrigation
Nanauti Dam	Local	1963	Irrigation

Narson Dam	Narson	1988	Irrigation
Naugarh Dam	Karmnasa	1956	Irrigation
Newari Dam	Local	-	Irrigation
Obra Dam	Rihand	1970	Hydroelectric,Irrigation
Ohen Dam	Ohan	1961	Irrigation
Pachwara Lake Dam	Local	1694	Irrigation
Pahari Dam	Dhasan	1912	Irrigation
Pahuj Dam	Pahuj	1909	Irrigation
Patharai Dam	Pathari and Sukhnai (Tributary of Dhasan)	2002	Irrigation
Pili Dam	Pili	1968	Irrigation
Ragura Dam	Local	1976	Irrigation
Raipura Dam	Arjun nala	1930	Irrigation
Rajghat Dam	Betwa	2000	Hydroelectric,Irrigation,Water Storage
Rajkhar Dam	Local stream	1957	Irrigation
Rampur Dam	GoinghawaNala	1958	Irrigation
Rampur Kalyangarh Dam	Local	1925	Irrigation
Rampur PindariaDam(Tandadari Tal)	Local	1974	Irrigation
Rihand Dam	Rihand	1962	Hydroelectric,Irrigation
Rohini Dam	Rohini	1983	Irrigation
Sajnam Dam	Sajnam	1990	Irrigation
SakteshGarh Dam	Local	1989	Irrigation
Salarpur Dam	Kardia	1960	Irrigation
Saprar Dam	Saprar	1952	Irrigation
Sarai Garh Dam	Local	1970	Irrigation
Sarda Sagar Dam	Sharda	1962	Irrigation
Semri Dam	Local	1989	Irrigation
Shahjad Dam	Shahjad	1992	Irrigation
Siori Lake Dam	Siori	1911	Irrigation
Sirsi Dam	BakharNala	1958	Irrigation
Sukhra Dam	SukharaNala	1909	Irrigation
Suswar Dam	local	-	Irrigation
Upper Khajuri Dam	Chandauli and Shibati	1958	Irrigation
Urmil Dam	Urmil	1994	Irrigation
Vijaipur Dam	Local	1983	Irrigation

(Source: India-WRIS WebGIS)

3. Demographic Profile of Ganga Basin in the State

Uttar Pradesh in total has 63 Class I cities, 59 Class II towns and 232 Class III towns in catchment of Ganga River as per estimate based on Census-2011. The total population of the state according to the Census 2011 is approximately 200 million. The population density in the state is about 828 people per square kilometer. Some of the Class I cities are Agra, Aligarh, Allahabad, Ballia, Bareilly, Etawah, Farrukhabad, Gorakhpur, Ghaziabad, Greater Noida, Lucknow, Kanpur, Mathura, Meerut, Raibareilly, Varanasi and Sitapur. Among all the cities Kanpur, Lucknow and Ghaziabad are the most populated class I cities having more than 2 million residents each, according to the Census 2011. The percent urban population in the state is 22.27% in 2011 (Census-2011). In the state, 16.72% and 0.92% of the population live in the Class I cities and Class II towns situated along the main stem of river Ganga. The population cover along the main stem of river Yamuna is lesser for Class I cities (11.22%) while for Class II towns (1.5%) it is greater than that of cities/towns on the main stem of river Ganga. The overall share of Class III town's population in the state is 18.01%. The population residing in major sub-basins lying in the state has also been estimated for both Class I and Class II cities/ towns. The largest such population is harboured in Gomti Basin (Class I: 9.66%) and the least is in Ken Basin (Class I: 0.42%). The least population of Class II town also belongs to Ken basin (0.25%) while maximum belongs to Kali basin (1.36%). The total population residing outside the selected sub-basins for Class I cities and Class II towns in the state is 18.77%. Figure 3 shows the population distribution of Class I cities, Class II and III towns in the major sub-basins of river Ganga in the state and along the main stem of the river Ganga and Yamuna. Maps in Figures 4 and 5 show the distribution of Class I cities and Class II towns in the state under Ganga 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 Table 4-6, respectively. The average population of class I town in the state is 0.4 million which are approximately six times and fifteen times higher than the population of class II and class III towns, respectively. Lucknow is the highest populated class I city having population of the order of 2.8 million while Kasganj is the least populated (0.1 million) class I city. Deoband and Baghpat are the cities having maximum and minimum population under class II towns, contains 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 Padrauna town (0.049 million) while the minimum is in Mungra Badshahpur (0.02 million).

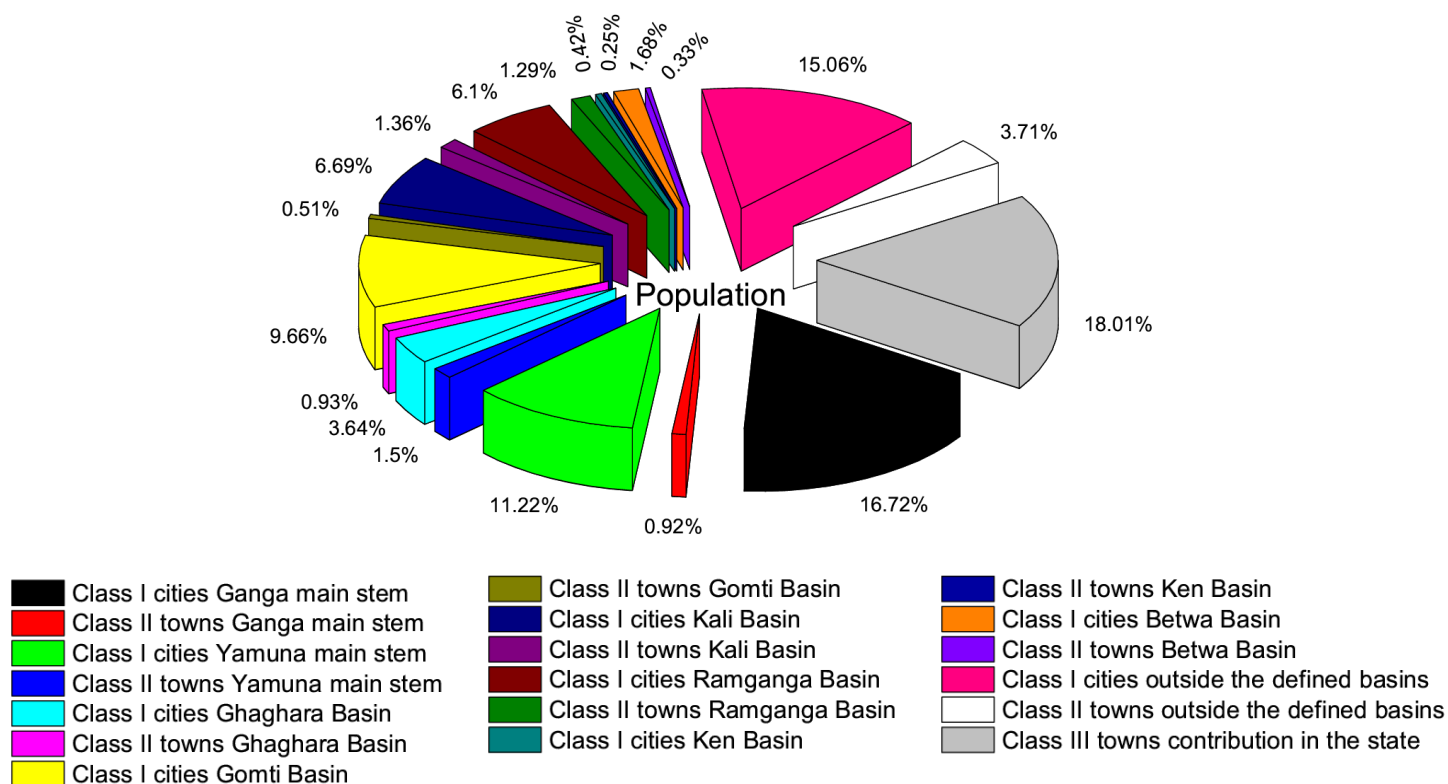


Figure 3: Population Distribution of Class I Cities and Class II, Class III Towns in the Major Sub-Basins of River Ganga in the State and Along the Main Stem of the River Ganga and Yamuna

Table 4: Demography of Class I Cities in Portion of the Ganga Basin Lying in the State of Uttar Pradesh

S No.	Town Name	River System	Area (sq km)	Town Population (Census 2011)
1	Agra	Yamuna River	120.6	1,585,704
2	Akbarpur	Tamsa River	72.5	111,447
3	Aligarh	Yamuna River	40.4	874,408
4	Allahabad	Ganga & Yamuna River	70.1	1,168,385
5	Amroha	Gangan River	9.0	198,471
6	Azamgarh	Tamsa River	12.7	110,983
7	Bahraich	Saryu River	13.3	186,223
8	Ballia	Ganga River	16.0	104,424
9	Banda	Ken River	16.0	160,473
10	Baraut	Yamuna River	10.4	103,764
11	Bareilly	Ramganga River	106.4	904,797
12	Basti	Kuwano River	19.5	114,657
13	Budaun	Shot River	6.1	159,285
14	Bulandshahr	Kali River	37.0	230,024
15	Chandausi	Shot River	8.8	114,383
16	Deoria	Kurna River	16.2	129,479
17	Etah	Ishan River	13.5	118,517
18	Etawah	Yamuna River	28.9	256,838
19	Faizabad	Sai River	16.0	165,228
20	Farrukhabad-cum-Fatehgarh	Ganga River	19.1	276,581
21	Fatehpur	Yamuna River	57.0	193,193
22	Firozabad	Yamuna River	21.4	604,214
23	Ghaziabad	Yamuna &Hindon	220.0	1,648,643
24	Ghazipur	Ganga River	18.3	121,020
25	Gonda	Teri River	24.6	114,046
26	Gorakhpur	Rapti River	141.0	673,446
27	Greater Noida	Yamuna River	20.0	102,054
28	Hapur	Kali River	14.2	262,983
29	Hardoi	Saie River	6.4	197,029
30	Hathras	Karvan River	6.8	143,020
31	Jaunpur	Gomti &Sai River	25.3	180,362
32	Jhansi	Betwa River	150.0	505,693
33	Kanpur	Ganga & Pandu	266.7	2,768,057
34	Kasganj	Kali River	7.5	101,277
35	Khora	Hindan River	4.3	190,005
36	Khurja	Kali River	16.7	121,207
37	Lakhimpur	Ull River	10.0	151,993
38	Lalitpur	Betwa River	17.4	133,305

39	Loni	Yamuna River	34.5	516,082
40	Lucknow	Gomti River	348.8	2,817,105
41	Mainpuri	Ishan River	7.0	136,557
42	Mathura	Yamuna River	28.1	349,909
43	MaunathBhanjan	Tauns/Tamsa River	39.0	278,745
44	Meerut	Kali River	141.9	1,305,429
45	Mirzapur-cum-Vindhyachal	Ganga River	38.9	234,871
46	Modinagar	-	14.0	130,325
47	Moradabad	Ramganga &Gangan River	75.0	887,871
48	Mughalsarai	Ganga River	16.6	109,650
49	Muzaffarnagar	Kali River	12.0	392,768
50	Noida	Yamuna River	92.1	637,272
51	Orai	Betwa River	23.2	190,575
52	Pilibhit	Devha River	10.0	127,988
53	Rae Bareli	Saie River	50.1	191,316
54	Rampur	Kosi River	20.2	325,313
55	Saharanpur	Dhamola River	46.7	705,478
56	Sambhal	Ganga River	15.7	220,813
57	Shahjahanpur	Khanaut&Garra River	11.4	329,736
58	Shamli	Yamuna River	26.2	107,266
59	Shikohabad	Yamuna River	8.5	107,404
60	Sitapur	Sarayan River	35.0	177,234
61	Sultanpur	Gomti River	12.0	107,640
62	Unnao	Ganga River	21.5	177,658
63	Varanasi	Ganga &Varuna River	82.1	1,198,491

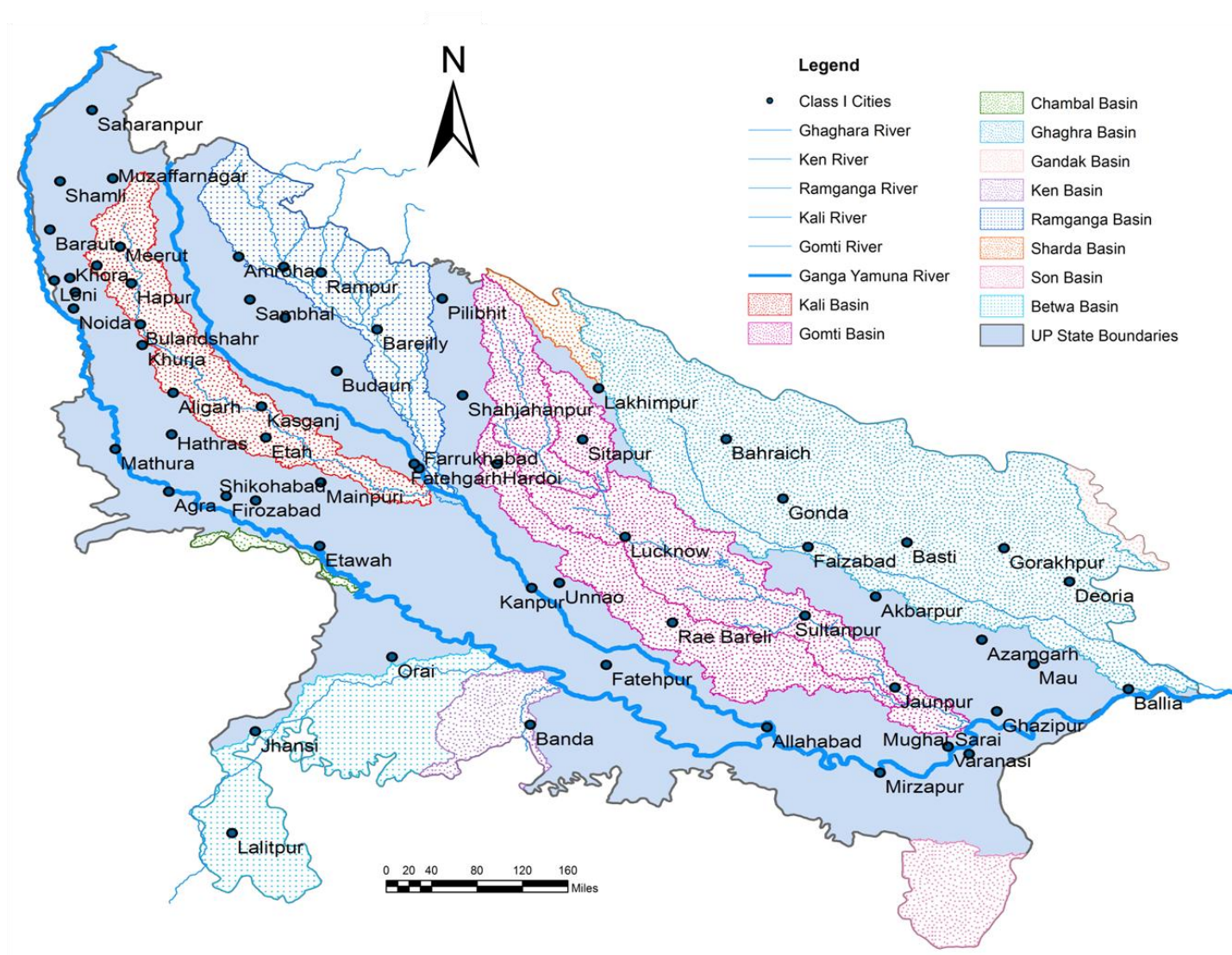


Figure 4: Class I Cities in the State of Uttar Pradesh under Ganga River Basin

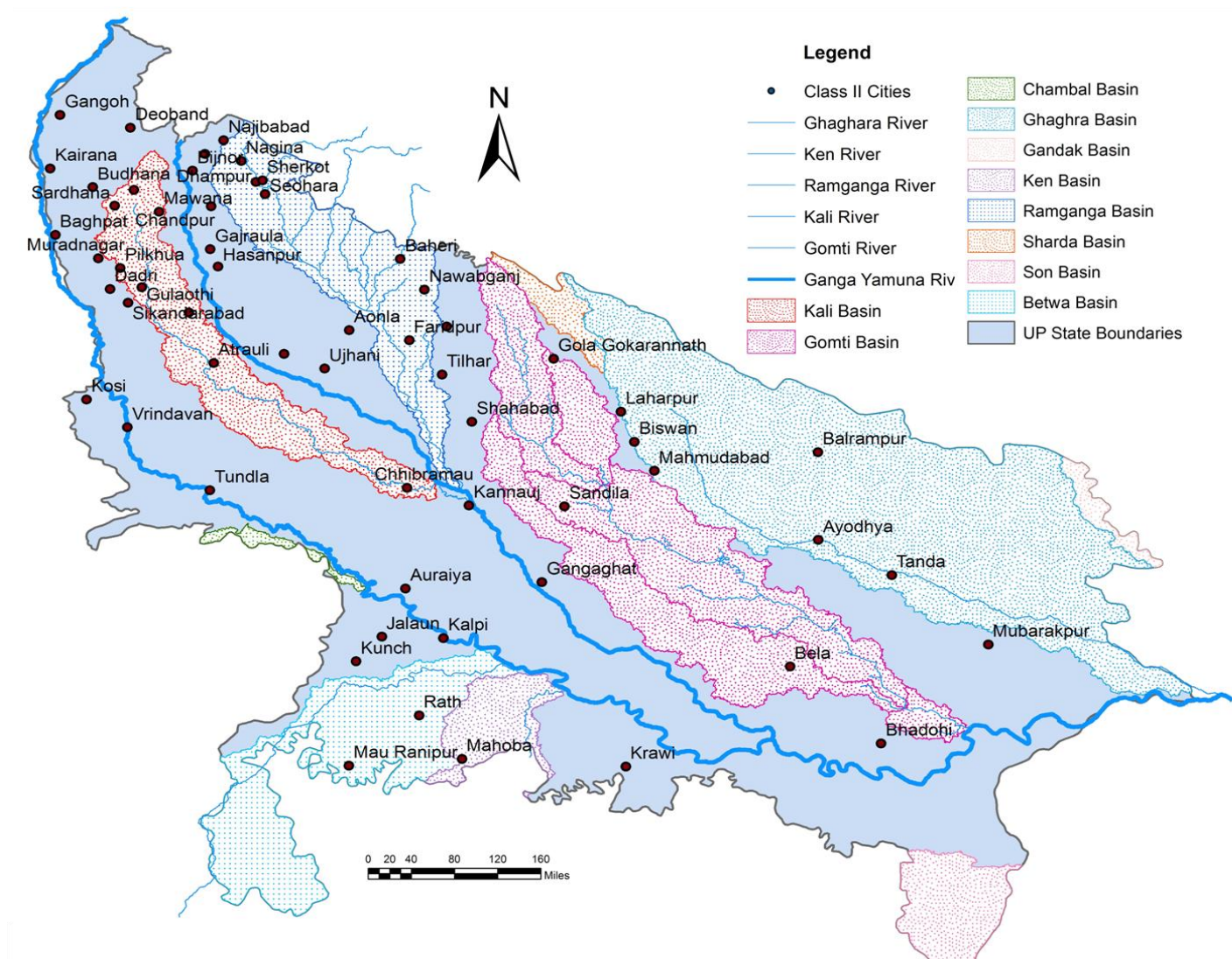


Figure 5: Class II Towns in the State of Uttar Pradesh under Ganga River Basin

Table 5: Demography of Class II Towns in Portion of the Ganga River Basin Lying in the State of Uttar Pradesh

S No.	Town Name	River System	Area (sq km)	Town Population (Census 2011)
1	Aonla	Ramganga River	15.0	55,629
2	Atrauli	Kali River	16.3	50,412
3	Auraiya	Yamuna River	9.0	87,736
4	Ayodhya	Ghaghra River	10.2	55,890
5	Baghpat	Yamuna River	2.8	50,310
6	Baheri	Gaula River	6.0	68,413
7	Balrampur	Rapti River	36.3	82,488
8	Bela Pratapgarh	Saie River	12.0	76,133
9	Bhadohi	Varuna River	8.0	94,620
10	Bijnor	Ganga River	3.6	93,297
11	Bisalpur	Katna&Devha River	3.0	73,551
12	Biswan	Ull River	7.8	55,780
13	Budhana	Kali River	7.6	53,722
14	Chandpur	Ganga River	23.4	83,441
15	Chhibramau	Yamuna River	11.0	60,986
16	Chitrakoot Dham (Karwi)	Mandakini River	7.8	57,402
17	Dadri	-	6.5	91,189
18	Deoband	-	7.9	97,037
19	Dhampur	Khoh River	3.9	50,997
20	Faridpur	Ramganga River	9.4	78,249
21	Gajraula	Ganga River	14.2	55,048
22	Gangaghat	Ganga River	4.9	84,072
23	Gangoh	Buriyamuna River	6.0	59,279
24	Gola Gokaran Nath	Gomti River	10.0	60,172
25	Gulaothi	Ganga River	2.2	50,823
26	Hasanpur	Bagad River	5.7	61,243
27	Jahangirabad	-	14.5	59,858
28	Jalaun	Betwa River	6.3	56,909
29	Kairana	Yamuna River	7.1	89,000
30	Kalpi	Yamuna River	9.7	51,670
31	Kannauj	Kali River	14.9	84,862
32	Khatauli	Ganga River	3.8	72,949
33	Kiratpur	Malini River	6.5	61,946
34	Konch	Betwa River	3.0	53,412
35	Kosi Kalan	Yamuna River	4.5	60,074
36	Laharpur	Ull River	13.0	61,990
37	Mahmudabad	Gomati River	12.8	50,777
38	Mahoba	Ken River	12.2	95,216
39	Mauranipur	Sukhnai River	5.5	61,449

40	Mawana	Ganga River	7.5	81,443
41	Mubarakpur	Tamsa River	9.0	70,463
42	Muradnagar	Hindan River	12.0	95,208
43	Nagina	Gangan&Padhoi River	10.3	95,246
44	Najibabad	Malin River	5.1	88,535
45	Nawabganj	Ramganga River	3.6	81,486
46	Pilkhuwa	-	5.3	83,736
47	Rath	Betwa River	8.1	65,056
48	Sahaswan	Ganga River	7.5	66,204
49	Sandila	Sai River	24.6	58,346
50	Sardhana	Hindan River	5.0	58,252
51	Seohara	Ramganga River	2.7	53,296
52	Shahabad	Garra River	9.7	80,226
53	Sherkot	Khoh River	6.0	62,226
54	Sikandrabad	Yamuna River	1.1	81,028
55	Tanda	Ghaghra River	10.5	95,516
56	Tilhar	Ramganga River	3.5	61,444
57	Tundla	Yamuna River	8.3	50,423
58	Ujhani	Ganga River	6.5	62,039
59	Vrindavan	Yamuna River	13.5	63,005

Table 6: Demography of Class IIITowns in Portion of the Ganga Basin Lying in the State of Uttar Pradesh

S No.	Town Name	River System	Area (sq km)	Town Population (Census 2011)
1	Achhnera	Bandi	8.0	22,781
2	Afzalgarh	PurviNayar	6.8	29,101
3	Ahraura	Ganga	4.8	24,967
4	Akbarpur	Ganga	5.0	20,445
5	Aliganj	Gomti	1.6	28,396
6	Allapur	Ghaghara	7.8	23,985
7	Amilo	Ghaghara	3.7	30,339
8	Anupshahr	KaaliNadi	5.6	29,087
9	Atarra	Nahar	10.0	47,419
10	Aurangabad	Ganga	3.0	26,544
11	BabarpurAjitmal	Yamuna	5.0	29,284
12	Bachhraon	Ganga	9.5	31,101
13	Bahjoi	Ganga	8.0	37,037
14	Bakshi Ka Talab	Gomti	41.9	49,166
15	Banat	Eastern Yamuna	2.9	20,728
16	Bangarmau	Ganga	3.5	44,204
17	Banki	Betwa	4.3	21,317
18	Bansdih	Basanhi	3.5	21,201
19	Bansi	Rapti	13.0	41,057
20	Barel	Gomti	5.0	27,207
21	Barhalganj	Ghaghara	6.0	21,290
22	Barua Sagar	Barwa Sagar	5.9	25,028
23	Behat	Yamuna	4.0	20,474
24	Belthara Road	Ghaghara	11.5	20,404
25	Bewar	Virma	9.0	23,729
26	Bhargain	Old Ganga	4.0	21,891
27	Bharthana	Yamuna	6.0	44,120
28	Bhinga	Rapti	5.5	23,780
29	Bhogaon	Yamuna	4.3	30,874
30	BhojpurDharampur	Ramganga	4.5	31,305
31	Bidhuna	Ramganga	10.0	32,252
32	Bilari	Ramganga	3.5	37,567
33	Bilaspur	Ramganga	20.0	43,908
34	Bilgram	Ganga	5.0	29,768
35	Bilhaur	Isan	3.0	20,493
36	Bilsi	Sot	13.6	26,604
37	Bindki	Chhoti Nahar	3.9	36,926
38	Bisauli	-	5.7	32,780

39	Chandauli	Ganga	5.8	23,020
40	Charkhari	-	5.0	27,760
41	Charthawal	-	8.8	20,653
42	ChharraRafatpur	-	18.6	21,146
43	Chhata	-	14.0	23,537
44	Chitbara Gaon	Tamsa	6.0	21,879
45	Chunar	Ganga	14.0	37,185
46	Colonelganj	Ganga	1.8	29,435
47	Dasna	Hindon	3.3	34,914
48	Dataganj	Ganga	6.0	26,244
49	Deoranian	-	5.0	20,815
50	Dhanauli	Yamuna	7.1	28,990
51	Dhanaura	-	4.7	30,007
52	Dhanipur	Ganga	1.5	20,511
53	DhauraTanda	-	6.0	23,727
54	Dhaurehra	-	5.2	24,518
55	Dibai	Ganga	2.3	39,818
56	Dibiyapur	Lower Ganga	10.0	27,237
57	Domariyaganj	Rapti	12.0	30,698
58	Etmadpur	Yamuna	4.0	21,897
59	Fatehabad	Yamuna	6.0	23,278
60	FatehganjPashchimi	Gaula	7.0	26,607
61	Fatehpur	Utangan	8.0	35,582
62	Fatehpur Sikri	Utangan	8.0	32,905
63	Ganj Dundawara	Old Ganga	2.6	45,385
64	Garhmukhteshwar	Ganga	32.0	46,077
65	GauraBarhaj	Ghaghara	8.0	36,459
66	Ghatampur	Yamuna	4.0	40,623
67	Ghosi	-	11.0	39,165
68	Ghosia Bazar	Ganga	5.0	20,760
69	Govardhan	Manasi Ganga	8.0	22,756
70	Gunnaur	Bardman	9.0	23,665
71	Gursahaiganj	KaaliNadi	16.0	46,060
72	Gursarai	-	2.2	26,869
73	Hamirpur	Betwa & Yamuna	3.9	35,475
74	Handia	-	5.4	21,798
75	Hargaon	Sarda	4.1	20,920
76	Hastinapur	Ganga	7.6	26,452
77	Renukoot	Renu	5.0	41,792
78	Islamnagar	-	18.3	31,022
79	Jais	-	0.8	26,735
80	Jalalabad (Muzaffarnagar)	-	4.1	27,921
81	Jalalabad (Bijnor)	-	1.2	20,360

82	Jalalabad (Shahjahanpur)	Ramganga	9.0	38,202
83	Jalali	Ganga	17.6	20,238
84	Jalalpur	-	0.3	31,972
85	Jalesar	-	3.7	38,130
86	Jaswantnagar	Sarsa	5.8	28,164
87	Jewar	Yamuna	18.2	32,269
88	Jhalu	Eastern Ganga	4.0	20,978
89	Jhinhak	Lower Ganga	5.4	24,027
90	JhusiKohna	Ganga	2.0	20,023
91	Kabrai	Ken	4.0	28,564
92	Kaimganj	-	2.0	34,384
93	Kakrala	-	2.6	37,986
94	Kandhla	-	6.0	46,796
95	Kanth (Moradabad)	Ramganga	0.8	26,381
96	Kanth (Shahjahanpur)	Garra	6.8	27,137
97	Kaptanganj	ChhotiGandakNadi	10.0	23,526
98	Karhal	-	9.6	27,701
99	Katra	Garra	4.0	32,440
100	Katri Piper Khera	Ganga	3.3	26,475
101	Kemri	-	14.0	28,698
102	Khaga	Pakka Talab	16.0	35,637
103	Khair	KarbanNadi	15.5	35,751
104	Khairabad	-	9.0	48,538
105	Khalilabad	-	7.0	47,847
106	Khamaria	-	5.0	25,929
107	Khekada	-	8.0	48,676
108	Kheragarh	Utangan	3.0	21,470
109	Kheri	Sarda	5.0	33,355
110	Khurja Rural	-	9.7	21,383
111	Kiraoali	-	5.0	23,788
112	Kithaur	-	4.0	27,933
113	Kopaganj	ChhotiSaryu	7.7	34,782
114	Kora Jahanabad	Rind	3.1	26,359
115	Kukra	-	4.5	29,454
116	Kul Pahar	-	2.8	20,096
117	Kunda	Duar	10.0	27,179
118	Kundarki	-	3.5	29,951
119	Kuraoali	-	12.6	24,969
120	Kushinagar	ChhotiGandak	21.0	22,214
121	Lal Gopalganj Nindaura	Sharda	12.7	28,288
122	Lalganj	Ganga	4.1	23,124
123	Lar	ChhotiGandakNadi	10.0	28,307

		i		
124	Lawar	Ganga	8.0	22,024
125	Lohta	-	1.2	25,596
126	Machhlisahr	-	2.4	26,107
127	Maharajganj	Sarua	18.0	33,930
128	Maholi	-	4.3	21,331
129	MajharaPiparAhatmali	Ganga	2.6	25,310
130	Majhauriraj	ChhotiGandakNad i	10.6	20,818
131	Mallawan	Ganga	11.8	36,915
132	Mandawar	Malini	3.0	21,078
133	Mariahu	Sharda	4.4	22,778
134	Maudaha	-	6.1	40,003
135	Mehdawal	-	3.0	27,897
136	Milak	-	11.0	30,553
137	Miranpur	Ganga	8.0	29,283
138	MograBadshahpur	-	2.5	20,004
139	Mohammadabad (Farrukhabad)	Ganga	10.0	24,687
140	Mohammadabad (Ghazipur)	-	6.4	38,328
141	Mohammadi	Ganga	10.0	44,968
142	Mohenpur		2.7	21,812
143	Mughalsarai Railway Settlement	-	15.0	20,441
144	Muhammadabad	Ganga	12.0	41,780
145	Nakur	Yamuna	6.3	22,712
146	Nanauta	Eastern Yamuna	4.0	22,551
147	Nanpara	Babai	2.0	48,337
148	Naraura	Ganga	7.2	22,775
149	Naugawan Sadat	Preshak Nahar	5.6	32,954
150	Nautanwa	-	8.0	33,753
151	Nawabganj	Ghaghara	2.2	39,241
152	Nehtaur	Ganga	8.0	47,834
153	Noorpur	-	1.6	38,806
154	Northern Railway Colony	Ganga	4.7	20,916
155	NyoriaHusainpur	Sharda	6.1	21,812
156	Obra	Rihand	16.0	46,574
157	Padrauna	Bansi	6.9	49,723
158	Pahasu	Kaali	20.0	20,672
159	Pakbara	Ganga	4.0	26,728
160	Paliya Kalan	Sarda	12.0	41,126
161	Parasi	Rihand	3.0	23,966
162	Phulpur	Ganga	2.6	22,998

163	Phulwaria	Varuna	2.1	20,466
164	Pihani	Sai	5.0	36,014
165	Powayan	Gomati	15.0	28,613
166	Pukhrayan	Yamuna	15.0	24,258
167	Puranpur	Gomati	4.0	40,007
168	Purdilnagar	-	12.0	21,885
169	Purquazi	Upper Ganga	4.9	29,041
170	Purwa	-	3.7	24,467
171	Ramnagar	Ganga	3.6	49,132
172	Rampur Maniharan	Eastern Yamuna	2.0	27,979
173	Rasra	Tamsa	6.0	31,765
174	Rasulabad	Ganga	8.0	22,196
175	Raya	Yamuna	7.0	21,344
176	Renukoot	Renu	2.0	20,076
177	Reoti	Ghaghara	4.1	26,359
178	Richha	-	1.7	20,977
179	Rudauli	Ghaghara	8.0	43,091
180	Rudrapur	-	16.0	34,014
181	Sadabad	Karwan	4.0	40,926
182	Safipur	Rani Taal	8.5	25,688
183	Sahanpur	-	2.0	21,639
184	Sahaspur	-	1.8	24,463
185	Sahatwar	Ghaghara & Ganga	5.6	20,615
186	Sahawar	Ganga	6.8	24,067
187	Sahjanwan	Rapti	25.0	32,886
188	Saidpur	Ganga	5.2	24,338
189	Salempur	ChhotiGandak	4.0	21,124
190	Samdhan	Kaali Nadi	10.3	31,479
191	Samthar	Pahuj	4.0	22,455
192	Sandi	Ghagra	12.0	26,007
193	Sarwat	KaaliNadi	6.9	24,846
194	Sewalkhas	Upper Ganga	4.0	24,882
195	Sewarhi	Bansi	8.0	23,077
196	Shahabad	Ganga	15.0	38,276
197	Shahbudinpur	Pathrala&BoliNadi	4.7	25,157
198	Shahganj	-	4.0	26,556
199	Shahpur	Lower Ganga	2.6	20,154
200	Shamsabad (Farrukhabad)	Ganga	4.0	28,454
201	Shamsabad (Agra)	Yamuna	6.0	33,144
202	Shikarpur	KaaliNadi	9.0	37,969
203	Shishgarh	-	6.0	25,815
204	Siana	Ganga	5.2	44,415

205	Siddharthnagar	Tinaau	9.0	25,422
206	Sidhauli	-	12.0	24,976
207	Sikanderpur	Yamuna	6.5	23,986
208	Sikandrarao	Rehtom	2.8	46,038
209	Sirauli	Utangan	2.2	23,650
210	Sirsaganj	-	2.1	32,098
211	Sirsi	Ganga	3.4	26,519
212	Siswa Bazar	Gandak	8.0	20,963
213	Sonbhadra	Sone	3.5	36,689
214	Soron	Kali	1.0	27,468
215	Suar	Kosi	4.0	32,158
216	Sumerpur	Betwa	7.5	39,132
217	Tambaur-cum-Ahamdabad	-	1.5	26,052
218	Tanda	Ghaghara	9.1	48,059
219	Thakurdwara	-	10.0	44,255
220	Thana Bhawan	-	1.1	36,669
221	ThiriyaNizamat Khan	-	3.6	23,184
222	Tirwaganj	-	6.0	24,082
223	Tulsipur	West Rapti	2.1	24,488
224	Ujhari	-	4.5	24,488
225	Uska Bazar	Dano	10.0	24,444
226	Utraula	Rapti	4.5	36,145
227	VillimarKundi	-	30.7	21,082
228	Walidpur	Upper Ganga	6.2	25,589
229	Warhapur	Khoh	1.5	23,456
230	Wazirganj	Saryu	10.2	21,844
231	Zaidpur	Kosi	2.5	34,443
232	Zamania	Ganga	9.4	33,243

4. Religious Places and Their Importance

Uttar Pradesh, a state in the Gangetic basin, is home to many holy places, marked with the presence of sages, seers, devotees and mystics. Varanasi, Allahabad, Mathura, Vrindavan, Ayodhya, Garhmuketswar and Chitarkoot are major holy cities for Hindus, while Kushinagar

and Sarnath are important Buddhist places and Agra-Fatehpur Sikri, Lucknow-Unnao and Aligarh host major Muslim pilgrimage sites. Hordes of pilgrims and devotees visit these places of pilgrimage every year and participate in festivals.

Varanasi, also known as Kashi and Benaras, is the cultural capital of India and famous for spiritualism, mysticism, Hinduism and Indian philosophy. It is one of the most ancient cities in the world and home to several Hindu temples, ashrams and ghats, which are important pilgrimage sites for visitors. Ghats at the river banks are undoubtedly an important asset of the city. Varanasi has 87 ghats and most of them are used for bathing and religious ceremonies, while 2 ghats (Manikarnika Ghat and the Harishchandra Ghat) are used exclusively for cremation activities. Varanasi is also rich in Buddhist Stupas and Jain temples.

Allahabad/Prayagraj 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, the three rivers' convergence point, is the venue of many sacred fairs and rituals since ancient times which attract thousands of pilgrims to take a holy dip throughout the year. Among the major festivals and fairs at the site, the Kumbh Mela is 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 the 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.

Ayodhya is an ancient spiritual city for followers of epic hero Lord Rama, located on the right bank of Sarayu River. Ayodhya also shows cultural influence of Buddhism, Jainism and Islam. However, its history and heritage hold an unequivocal importance for Hindus. Immense Holy Spirit of the city with numerous temples of various ages and pilgrimage sites attracts devotees throughout the year.

Sarnath and Kushinagar are the popular Buddhist pilgrim places in Uttar Pradesh. These ancient cities gain more importance for devotees because Lord Buddha gave his first sermon after becoming "The enlightened one" in Sarnath and delivered his last sermon in Kushinagar. Both cities are home to several ancient stupas and viharas, dating from the 3rd to 5th centuries. These places are also sacred for Jains. Some major religious events and their features have been illustrated in Table 7.

Table 7: Major Religious Events on River Banks in Uttar Pradesh

S No	Religious Events	Place	River Bank	Duration	Period
1	Kumbha Mela	Allahabad	Ganga, Yamuna	January–February	Every twelfth

					year
2	Ardh Kumbha Mela	Allahabad	Ganga, Yamuna	January–February	Every sixth year
3	Magh Mela	Allahabad	Ganga, Yamuna	January–February	Annual
4	Kartik Poornima	Varanasi	Ganga	November	Annual
5	Krishna Leela	Varanasi	Ganga	October–November	Annual
6	Ganga Dusshera	Varanasi, Allahabad, Kanpur, Garhmukteshwar, Prayag	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	SawanJhulaMela	Ayodhya	Sarayu	August	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, discharge from open drain carrying sewage, discharges from the tributaries and discharge of untreated/partially treated wastewater from industrial units are the major point sources that contribute to the pollution load in the state. The major cities contributing wastewater discharge of approximately 3,289 MLD through 45 number of drains in river Ganga are in Bijnor, Garhmuketshwar, Gajrola, Babrala, Kannauj, Kanpur, Allahabad and Varanasi (CPCB, 2013). The discharge of wastewater through the state of Uttar Pradesh alone is 54% of the total discharge through the 4 major states (Uttarakhand, Uttar Pradesh, Bihar, and West Bengal) covered under the GRB.

The Central Pollution Control Board (CPCB) and Central Water Commission (CWC) have planned to install 13 Real Time Water Quality Monitoring Stations for monitoring in-situ river water quality parameters of the river Ganga and her tributaries (Gomti and Ramganga). Seven stations (at Kannauj, Kanpur, Allahabad, Varanasi, Agra, Moradabad and Lucknow) might be installed in the state of Uttar Pradesh. The report published by CPCB in 2009 revealed that the total sewage generation of class I cities in Ganga basin is 15,305.55 MLD while its treatment capacity is only 32% of the total sewage generation (4,886.28 MLD). The

situation gets more critical in the class II towns as the difference between the sewage generation (1,083.85 MLD) and its treatment capacity (91.82 MLD) increased. The sewage treatment capacity is only 8% of the total sewage generation in class II towns in the states under Ganga river basin. The statewise assessment of sewage generation and treatment capacity of class I cities and class II towns under Ganga basin has been presented in Figure 6. The state-wise maximum sewage is generated by class I cities and class II towns of Uttar Pradesh, 3,506.01 and 345.7 MLD, respectively followed by West Bengal, 2,345.21 and 180.42 MLD, respectively. The comparison of the total sewage generation and sewage treatment capacity of the Class I cities and Class II towns of different states lying under Ganga basin has been represented in Figure 7. The assessment shows that there is also a massive gap between the generation and treatment capacity in the main stretch of the Ganga. The trends of the data in Uttar Pradesh depicted that the maximum share of sewage generation (81.62%) is from class I cities followed by class II and III towns, 11.1 and 7.28%, respectively. CPCB in 2013 has identified 64 STPs (Sewage Treatment Plants) under Ganga river Catchment, out of which 8 STPs in Uttar Pradesh having a total installed capacity of 358 MLD treats waste water of 287 MLD. A single STP was found to be non-operational.

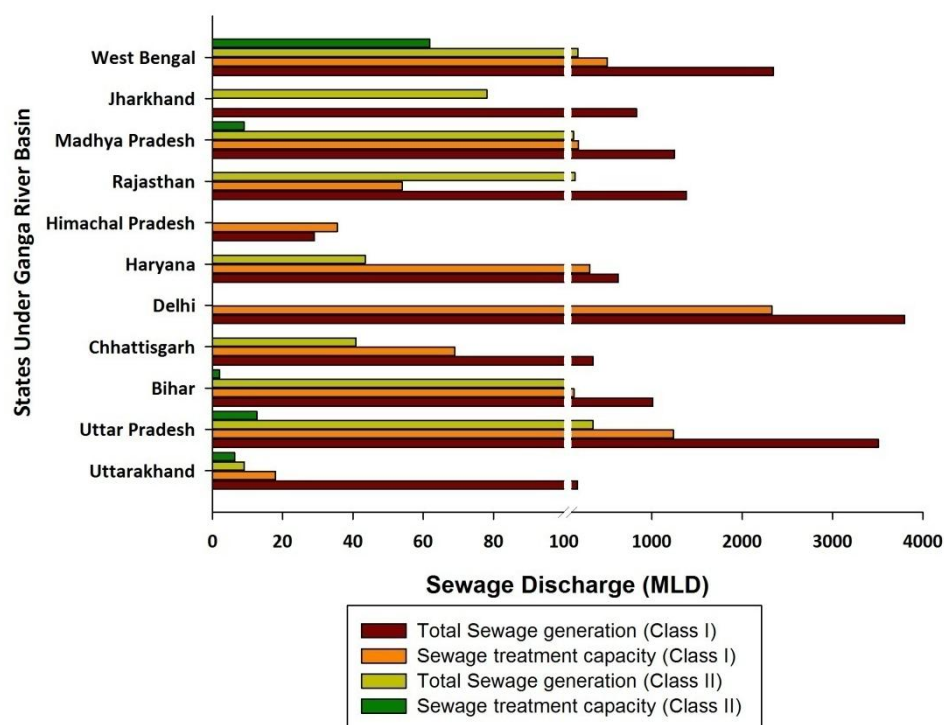


Figure 6: Assessment of Total Sewage Generation (MLD) and Sewage Treatment Capacity of Class I and II Cities in the States under Ganga River Basin

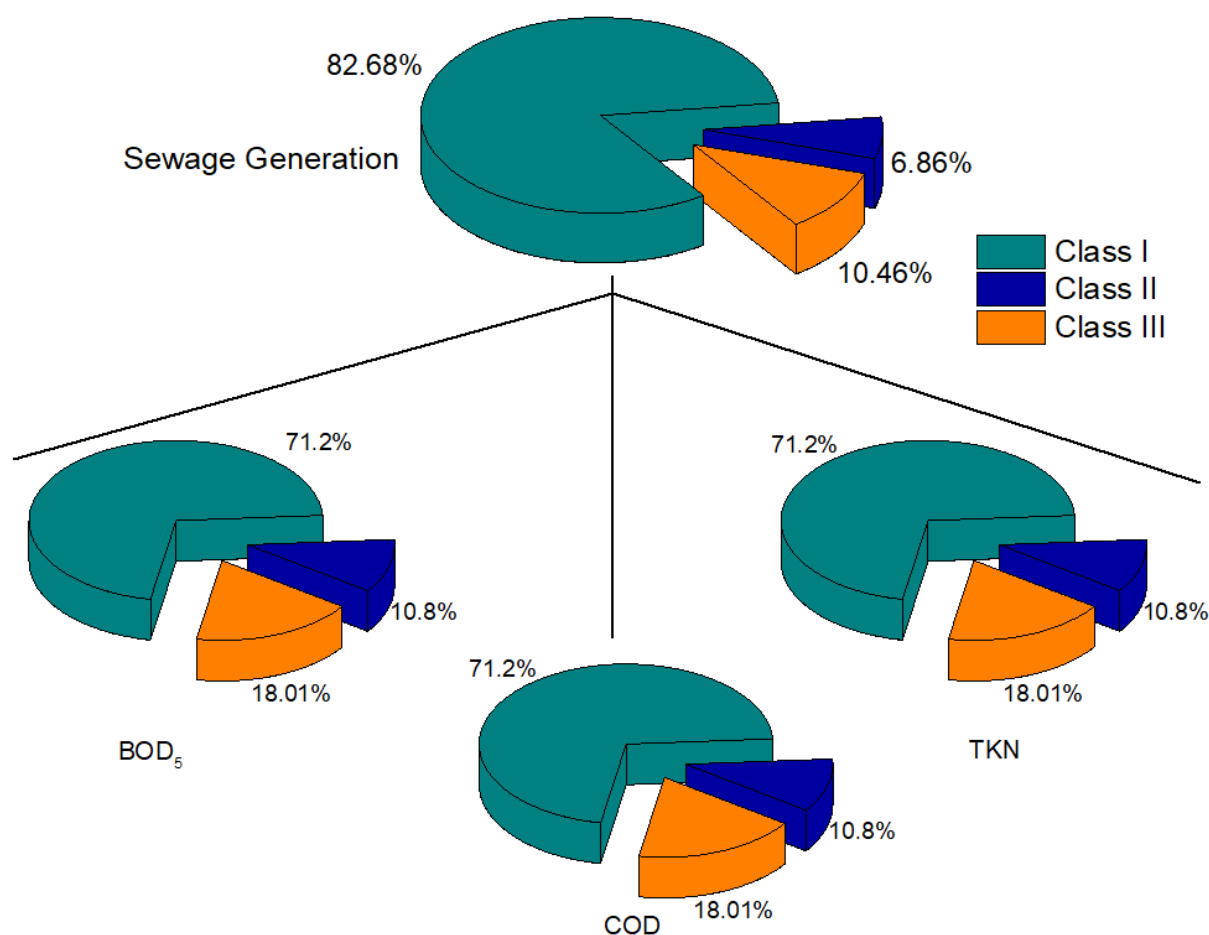


Figure 7: Distribution of Pollution Load of Class I Cities and Class II, Class III Towns in Uttar Pradesh

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 (82.68%) followed by Class III (10.46%) and Class II towns (6.86%). The BOD and COD load for Class I cities, Class II and Class III towns are in the range of 71, 11 and 18%, respectively. The TKN load almost showing the same trend as BOD and COD load. The BOD, COD and TKN load of all the Class I cities, Class II and Class III towns are estimated on per capita basis by using standard values.

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 Greater Noida 1080 MLD, approximately 149% of the municipal water supply. In case of the class II towns the sewage generation in Sikandrabad is maximum 48.79 MLD, approx 800% of its total water supply. The total BOD and COD load in tons/day has been estimated for Class I towns and its average is approximately 12.3 and 20.1 tons/day, respectively. The average BOD and COD load from Class II towns is 1.85 and 3.14 tons/day, respectively whereas Class III towns contribute approximately 0.8 tons/day and 1.4 tons/day of BOD and COD, respectively. The maximum and minimum BOD, COD and TKN contributing cities in Class I towns are Lucknow and Orai,

respectively. In Class II towns, maximum BOD, COD and TKN load is from Deoband, whereas minimum is from Baghpat. In class III towns, maximum and minimum BOD, COD and TKN load is from Padrauna and Mogra Badshahpur. The estimates of total water supply, total sewage generated, BOD, COD and TKN loads are summarized and illustrated in Figures 8a-10b for class I cities and class II towns. The comparative account of all the classes (I, II and III) for its population, sewage generation, water supply and BOD, COD and TKN loads are presented in Figure 11.

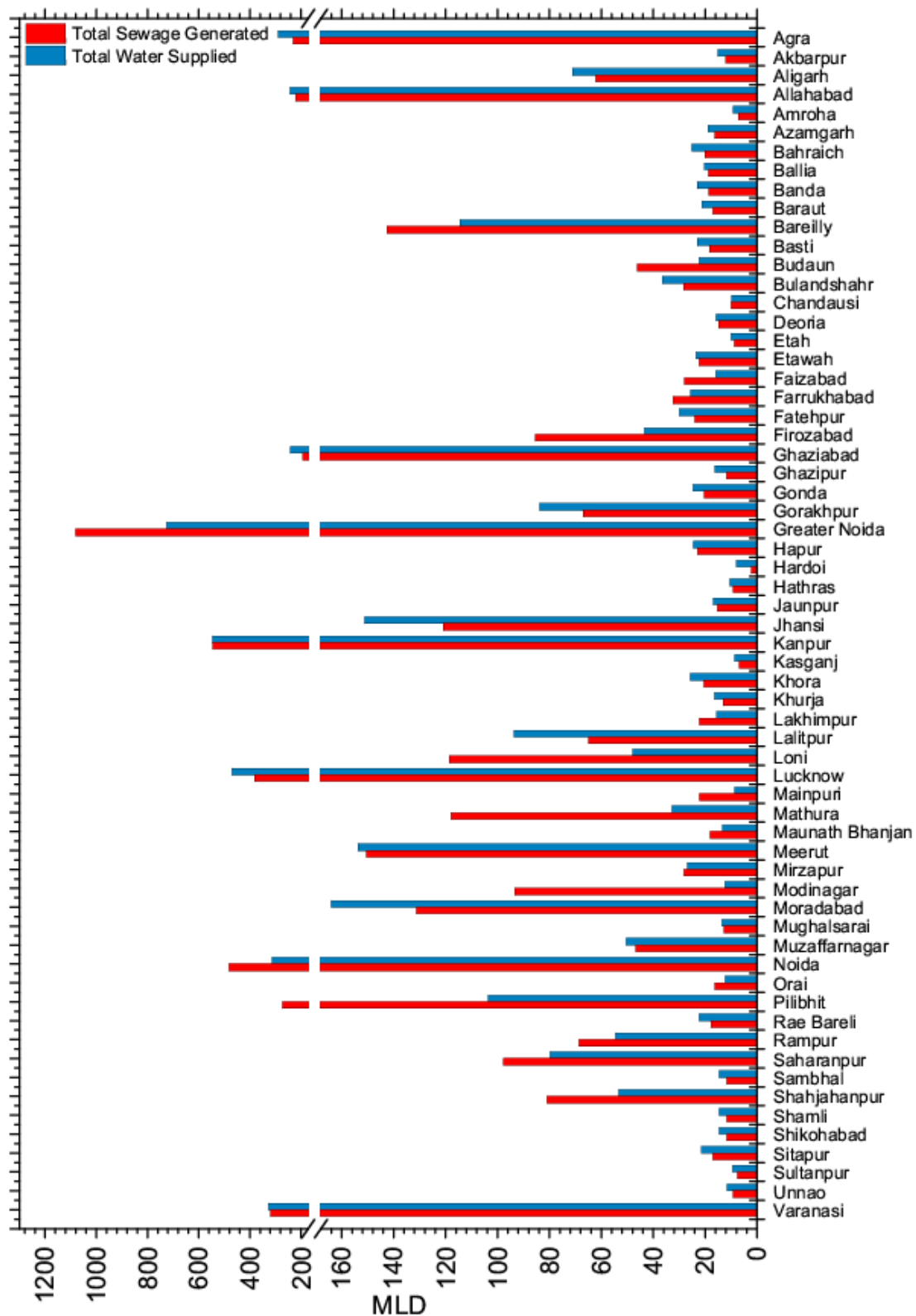


Figure 8a: Assessment of Water Supply and Sewage Generation (MLD) in Class I Cities in the Ganga River Basin Lying in the State of Uttar Pradesh

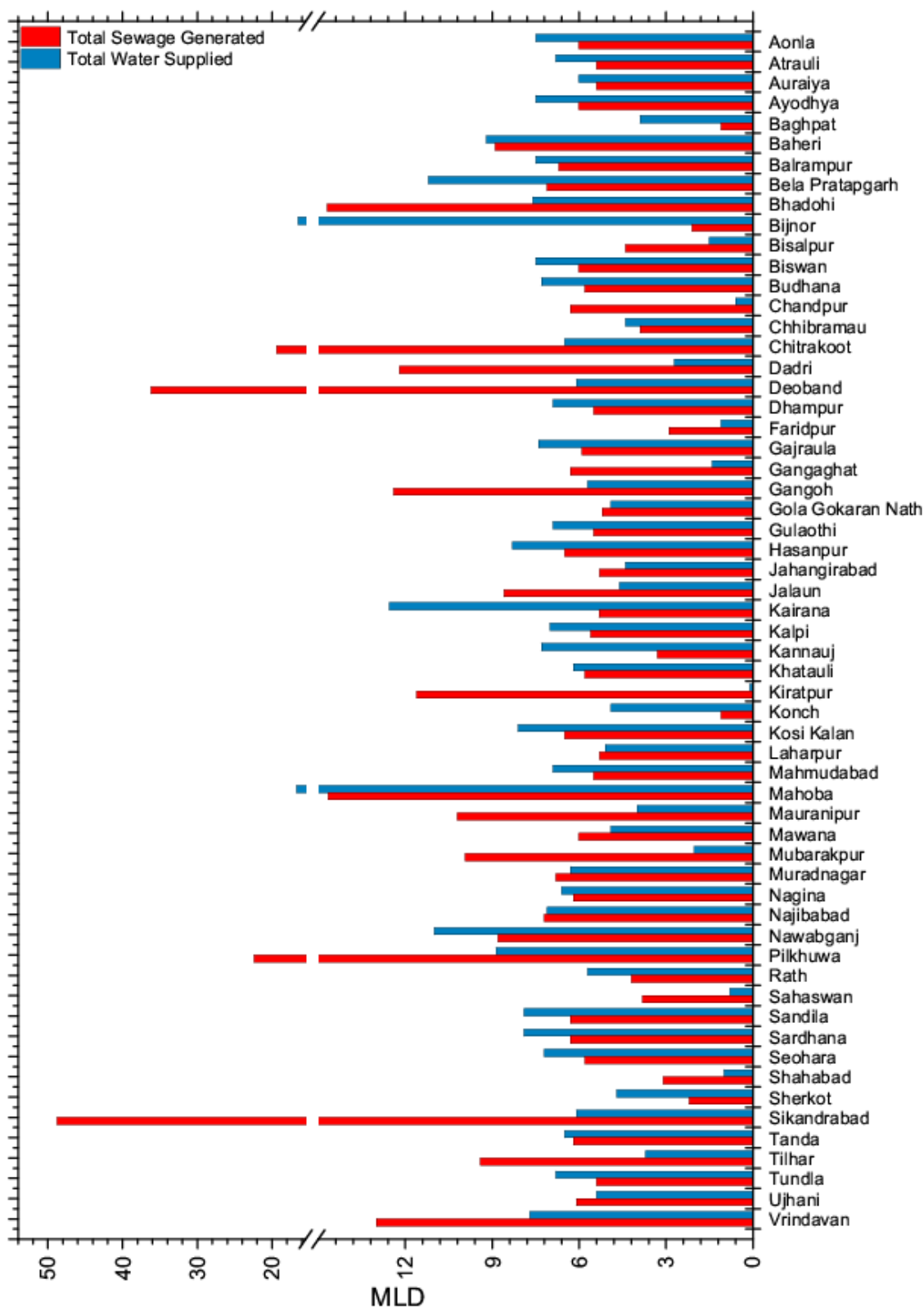


Figure 8b: Assessment of Water Supply and Sewage Generation (MLD) in Class II Towns in the Ganga River Basin Lying in the State of Uttar Pradesh

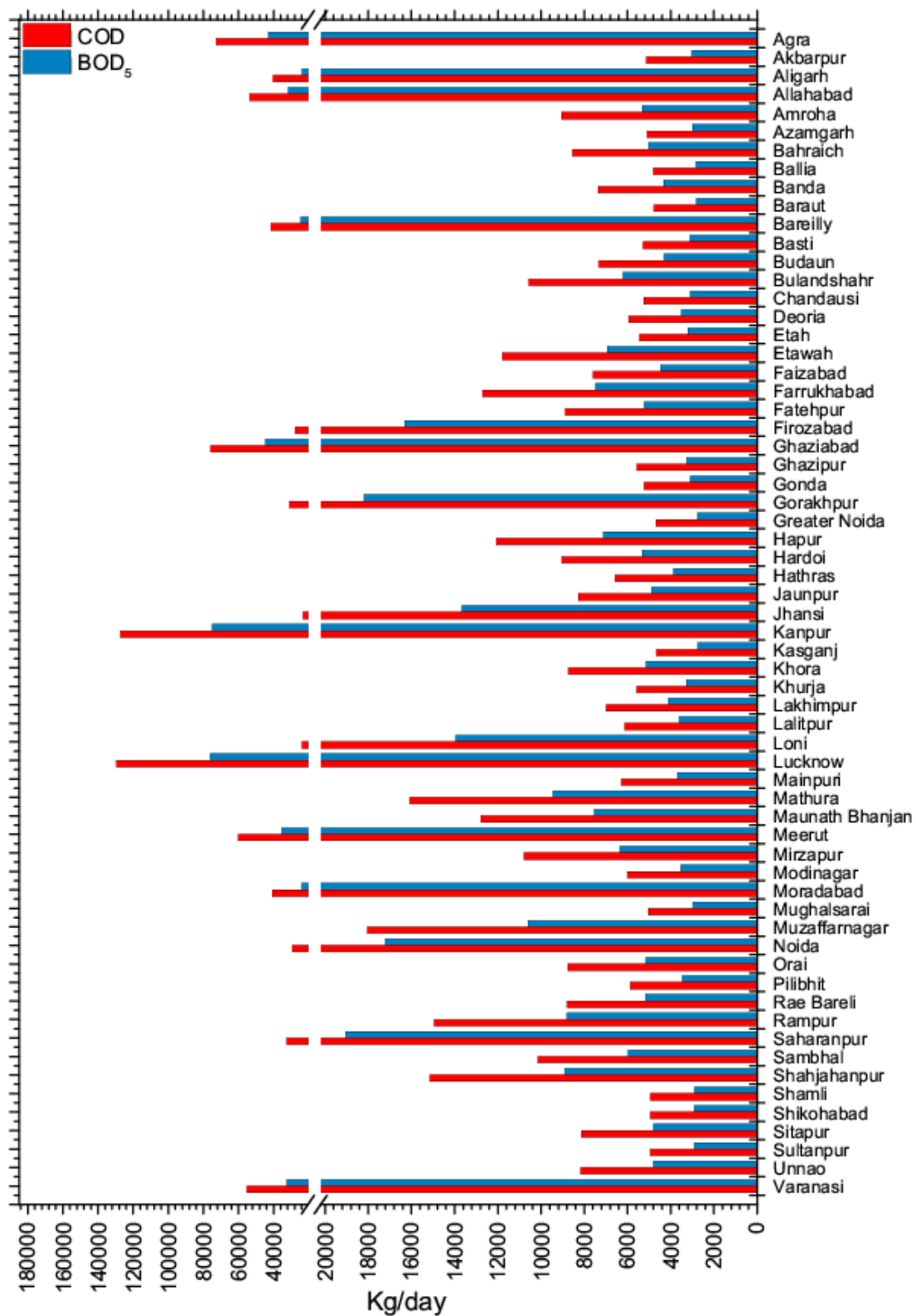


Figure 9a: Assessment of Organic Pollution Load (kg/day) from Class I Cities in the Ganga River Basin lying in Uttar Pradesh

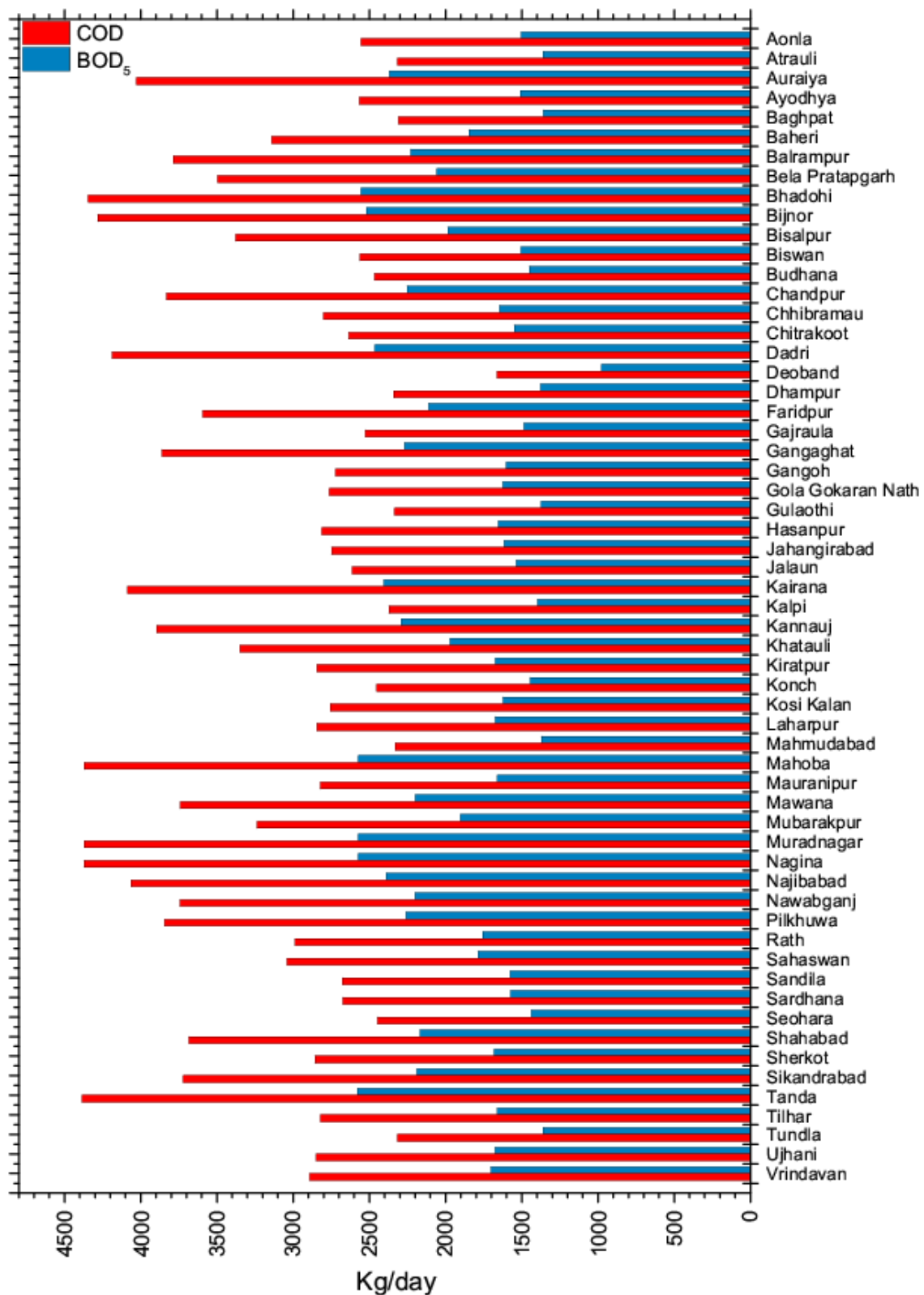


Figure 9b: Assessment of Organic Pollution Load (kg/day) from Class II Towns in the Ganga River Basin Lying in Uttar Pradesh

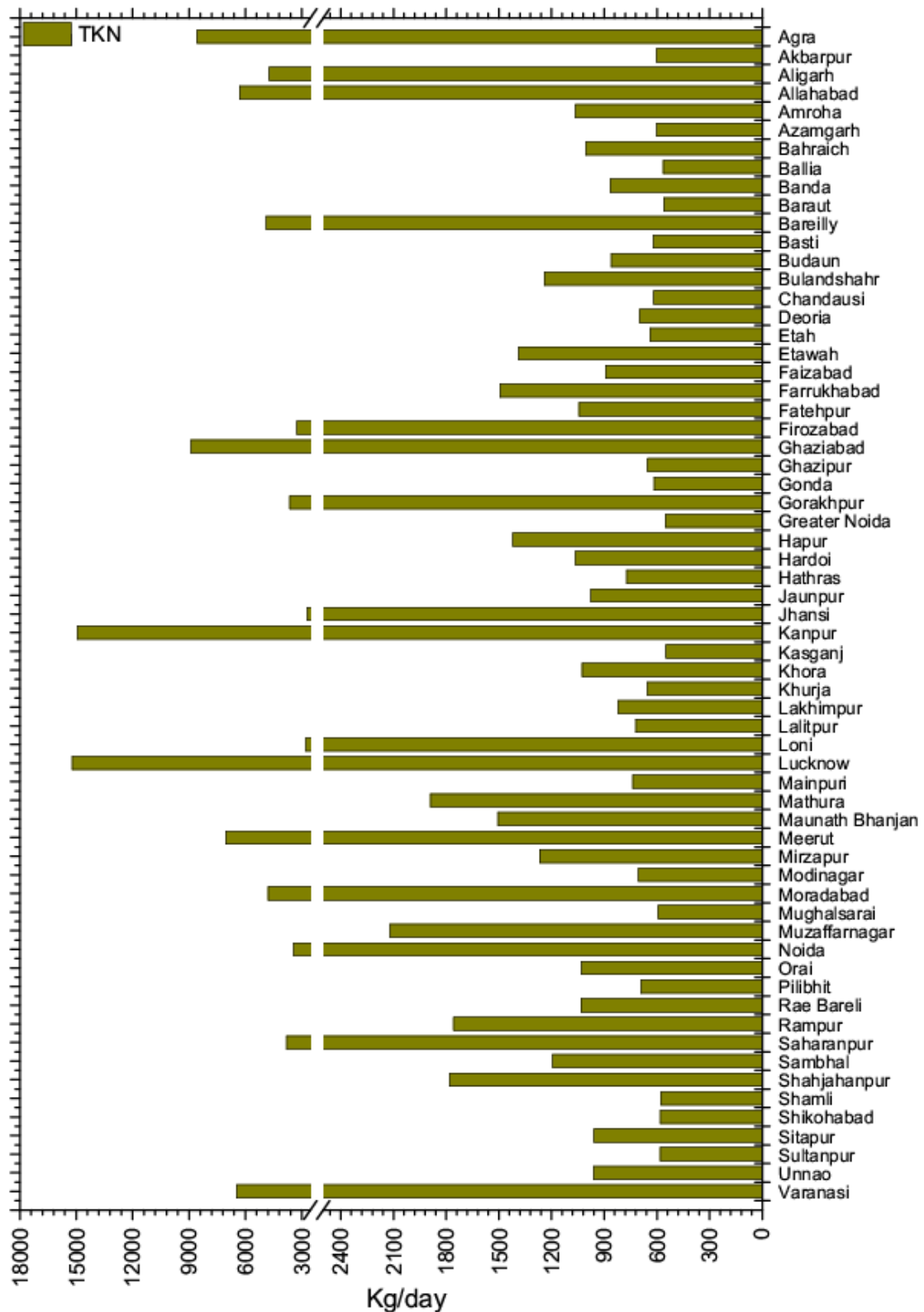


Figure 10a: Assessment of TKN Load (kg/day) from Class I Cities in the Ganga River Basin Lying in the State of Uttar Pradesh

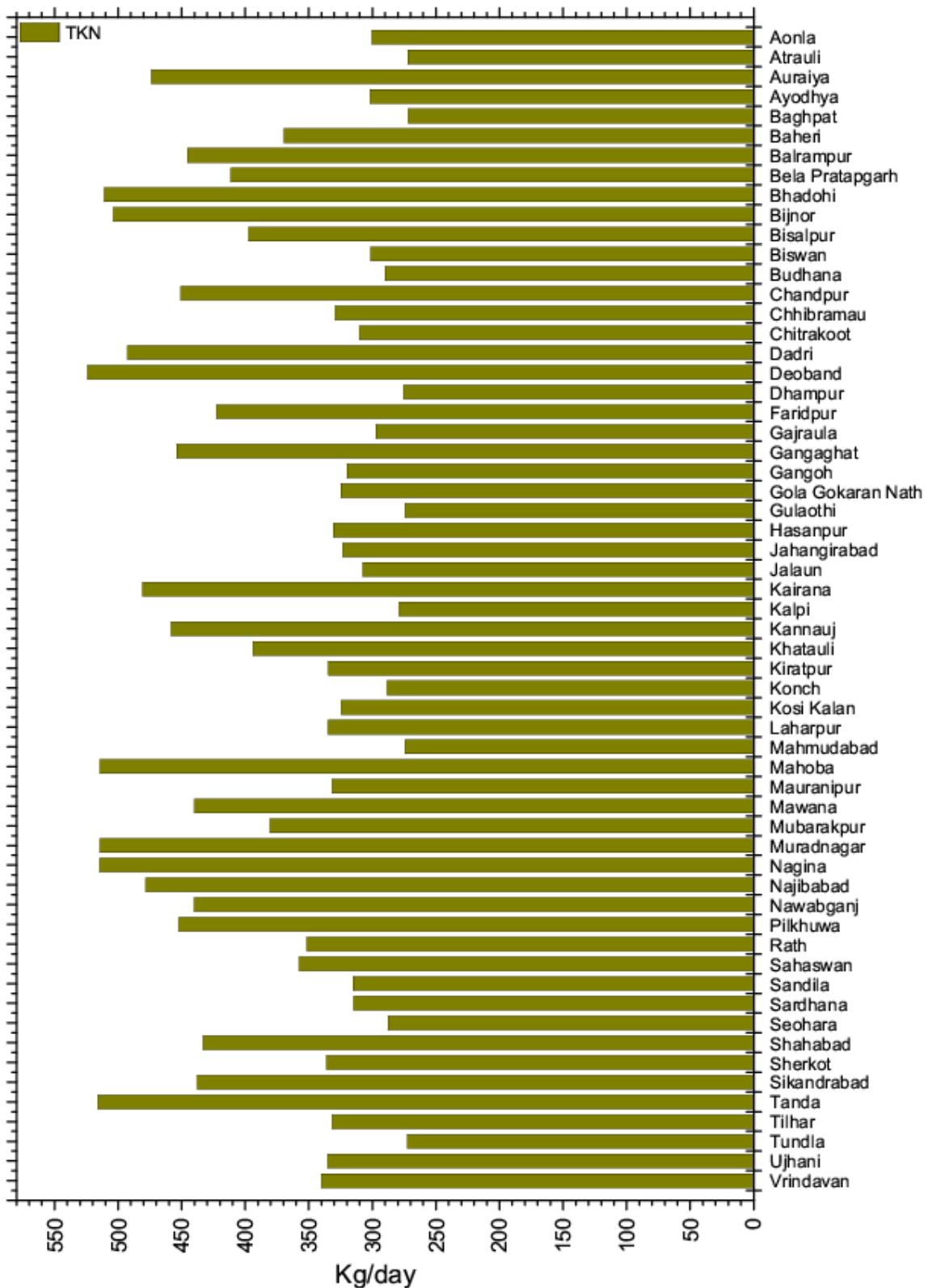


Figure10b: Assessment of TKN Load (kg/day) from Class II Towns in the Ganga River Basin Lying in the State of Uttar Pradesh

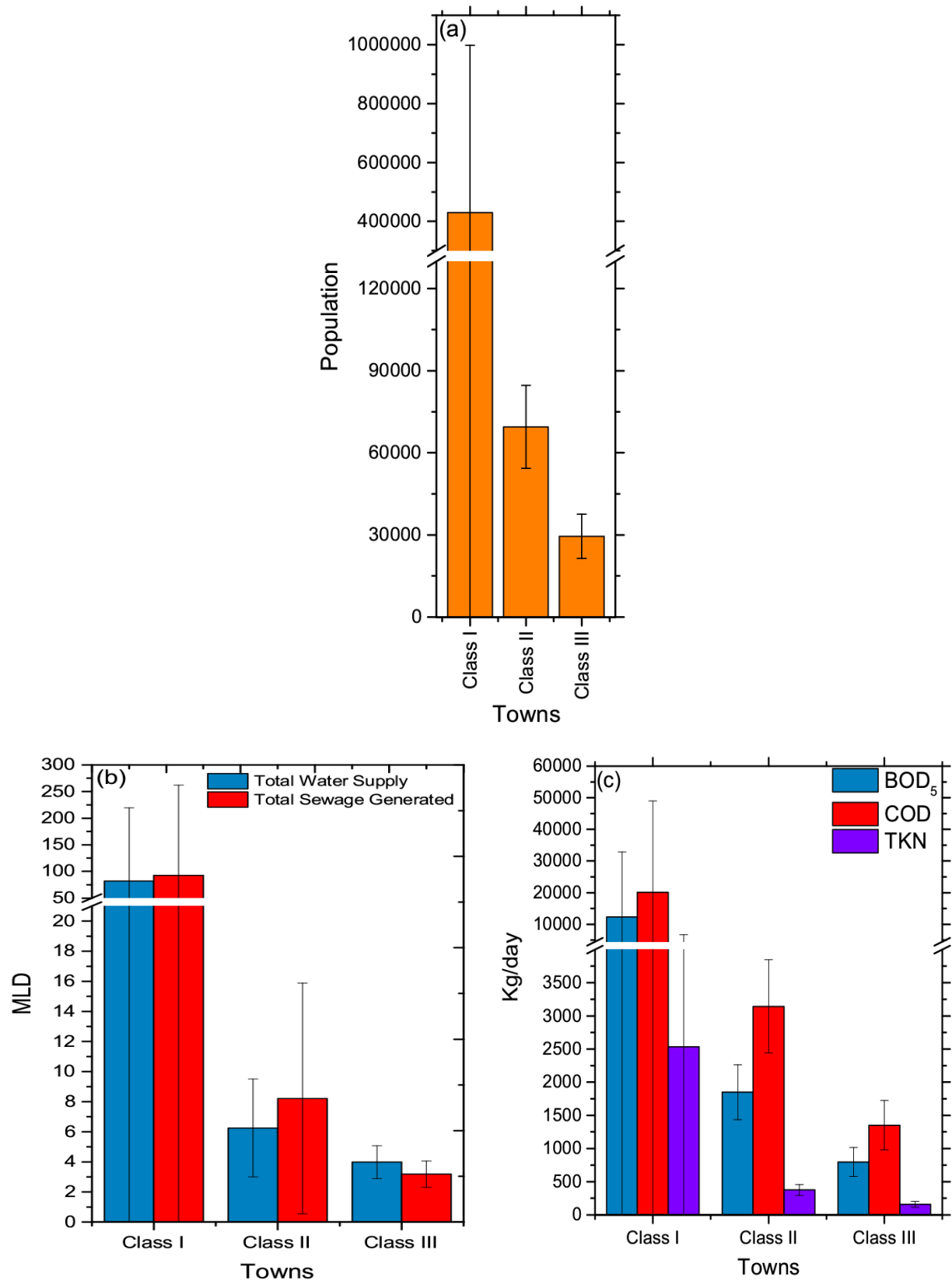


Figure 11: Comparative Analysis of Class I, Class II and Class III Cities/Towns Lying Under the State: (a) Population (b) Total Water Supply and Sewage Generation (c) Pollution Load

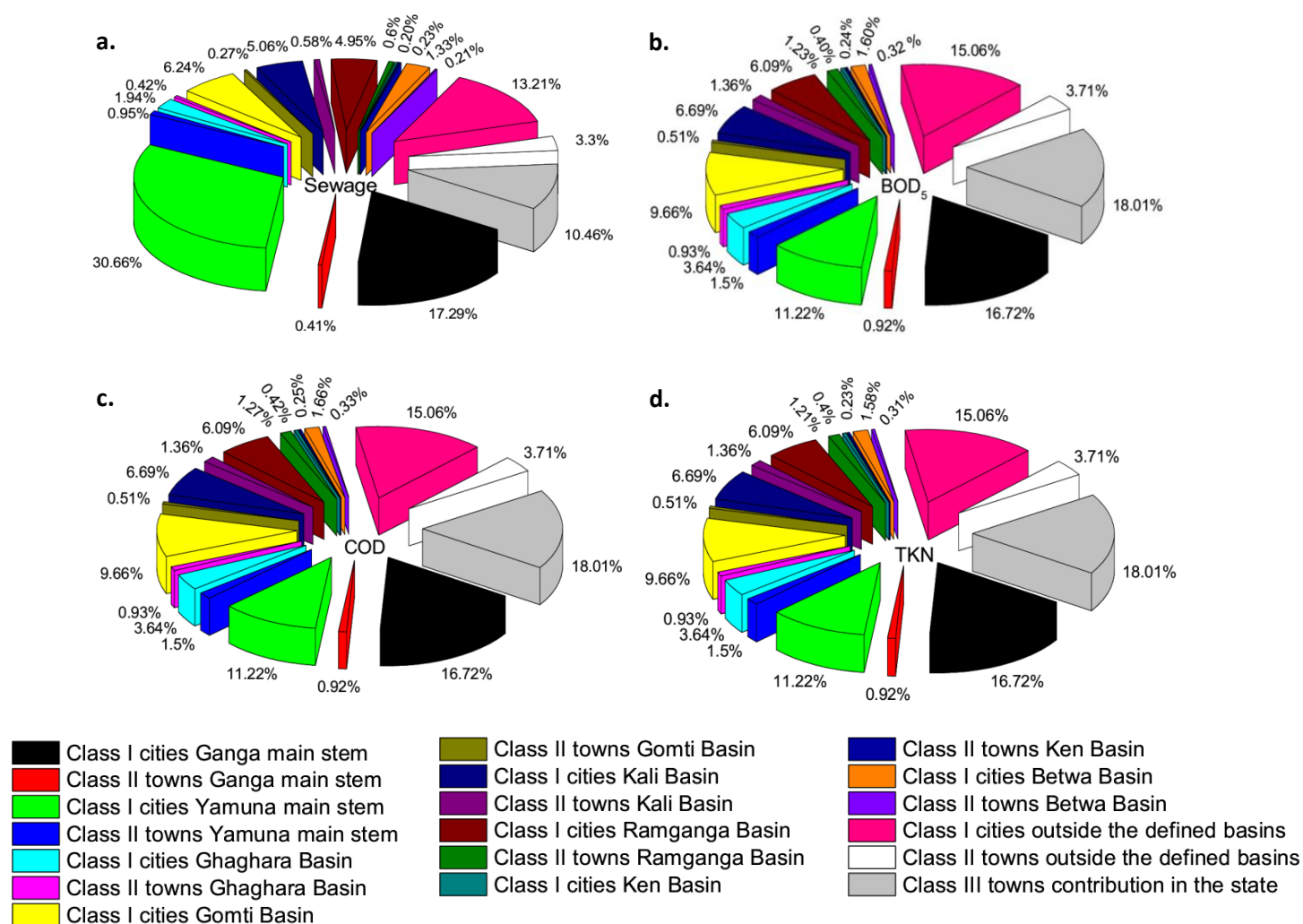


Figure 12 (a-d): Pollution load of Class I Cities and Class II, Class III Towns in the Major Basins of River Ganga in the State and Along the Main Stem of the River Ganga and Yamuna: (a) Sewage Generation; (b) BOD₅; (c) COD; (d) TKN

The results of the pollution load of Class I cities, Class II and Class III towns under the major basins of river Ganga in the state has 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 (30.66%) which is 1.8 times higher than the total percent contribution of the Class I cities placed along the main stem of river Ganga (17.29%). The sewage generation in the Gomti basin is highest for Class I cities (6.24%) and is higher than the Kali (5.06%) and Ramganga basin (4.95%) compared with the total sewage generation. All the Class I cities of the other basins individually (Ghaghara, Ken and Betwa) are discharging less than 2% of the total sewage generation. The sewage generation in all Class II towns in all the basins in the state is less than one percent. The Class I cities and Class II towns outside the major defined basins combinedly release 16.51% of waste water. The percentage sewage generation by Class III towns of the entire state is 10.46% of the total sewage generated by the state.

The BOD, COD and TKN load contributed by Class I cities of the main stem of Ganga and Yamuna is 16.72 and 11.22%, respectively. The Class III towns of the state impart around 18.01% of the total BOD, COD and TKN load. The basin wise major contributors of Class I cities for BOD, COD and TKN load are Gomti (9.66%), Kali (6.69%) and Ramganga (6.09%) river basins. The other basins like Ken, Betwa and Ghaghara contributed relatively lesser BOD, COD and TKN load and are in the range of 0.2-3.7%. But significant BOD, COD and TKN loads are also contributed by the Class I cities and Class II towns lying outside the selected basins (15.06 and 3.71%, respectively). The details of the BOD and COD load in the state are presented in Figures 12b and c.

6. Conclusions

River Ganga flowing in the Indo-Gangetic plains of the state is one of the most sacred rivers in India, yet it is being polluted by many sources. Pollution levels in the river contributed 9-12% of the total burden of diseases in the state (Mallikarjun, 2003). The catchment of the river bears the load of 63 Class I cities, 59 Class II towns and 232 Class III towns, directly or indirectly. The main Class I cities of the state falling on at the bank of Ganges river are Narora, Farrukhabad, Kannauj, Kanpur, Allahabad, Mirzapur, Varanasi, Ghazipur and Ballia. The scenario of water quality in the system fluctuates from bad to worse base on the spatial and temporal alterations. The multitudinous problems also arise during lean season due to the continuous discharge of untreated and/or partially treated sewage and industrial wastewater. The Kali, Ramganga, Pandu and Gomti tributaries discharge their partially treated and untreated effluent into river Ganga.

The maximum sewage generation is in the Class I cities (81.62%) followed by Class III (11.1%) and Class II towns (7.28%). Pollution load (BOD, COD and TKN load) also follows the same trend with maximum values for Class I cities. Greater Noida and Sikandrabad are the Class I and Class II towns showing maximum amount of sewage generation in comparison to their water supply. The maximum BOD, COD and TKN contributing Class I cities, Class II and III towns are Lucknow, Deoband and Padrauna while the minimum load is from Kasganj (Class I), Baghpat (Class II) and Moga Badsahpur (Class III) in the state.

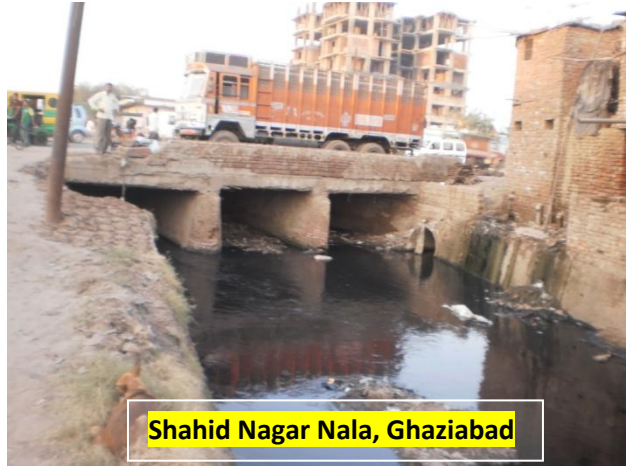


Plate 1: Major Drains Disposing Sewage into River Ganga or her Tributary



Khatauli



Allahbad



Nazibabad



District: Mirzapur, U.P.
Fig 13: Ollar Ghat Nala
25°09.215'N 82°34.295'E

Mirzapur



District: Ballia, U.P.
Fig 24: Katahar Nala
(flowing through left side of the city)

Ballia



Farukkabad



District: Varanasi, U.P.
Fig 7: Mansarovar ghat Nala (View 1)
25°18.225'N 83°10.516'E

Varanasi



District: Chandauli, U.P.
City: Mughalsarai
Fig 1: Nala behind nagar parishad (View 1)
25°17.130'N 83°07.290'E

Mughalsarai

Plate 2: Major Drains Disposing Sewage into River Ganga or its Tributary

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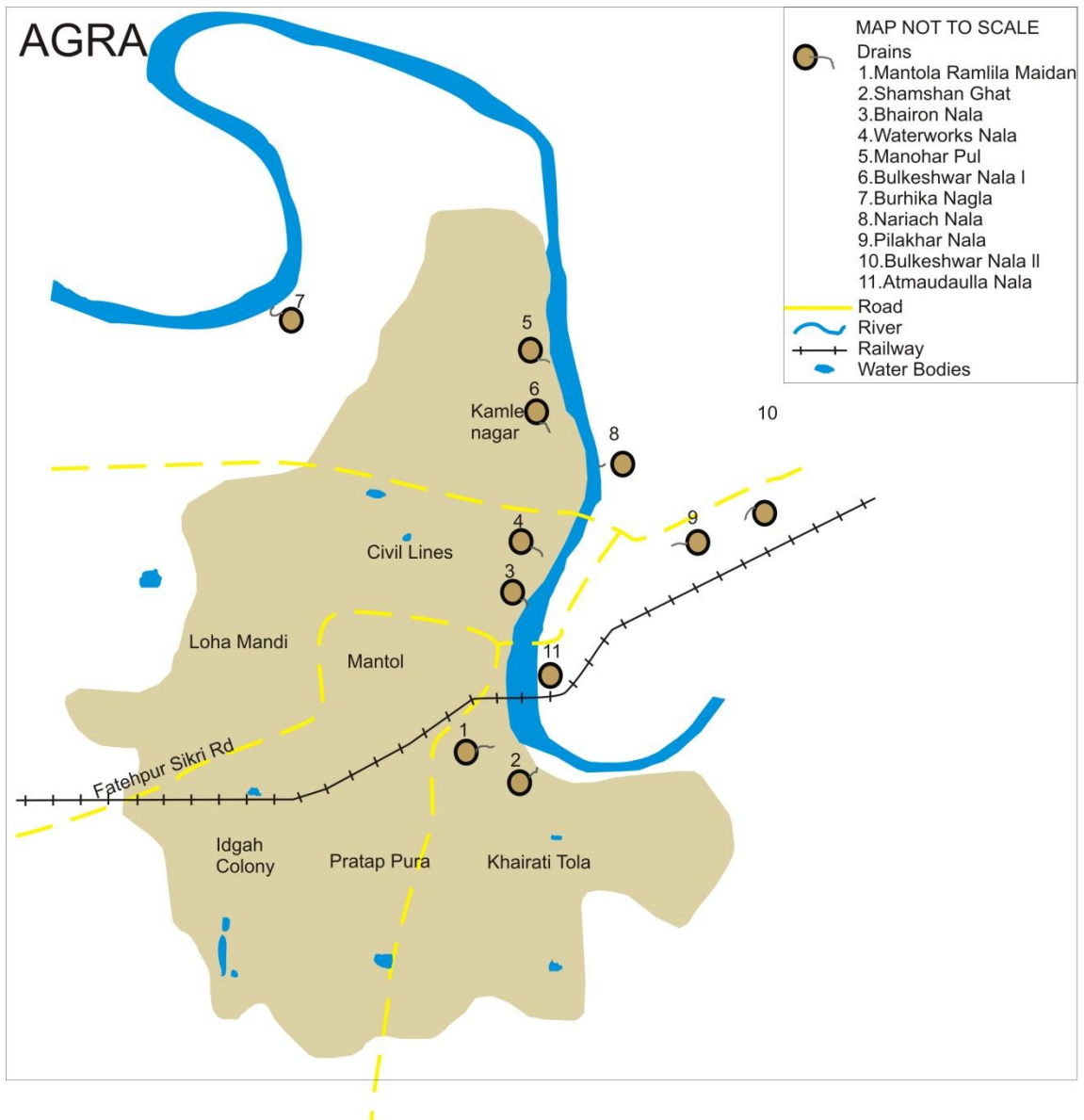
Appendix-1

Compilation of Data Sheets of Water Balance & Pollution Load (Domestic) of Major Class I Cities/Towns in Uttar Pradesh

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

*



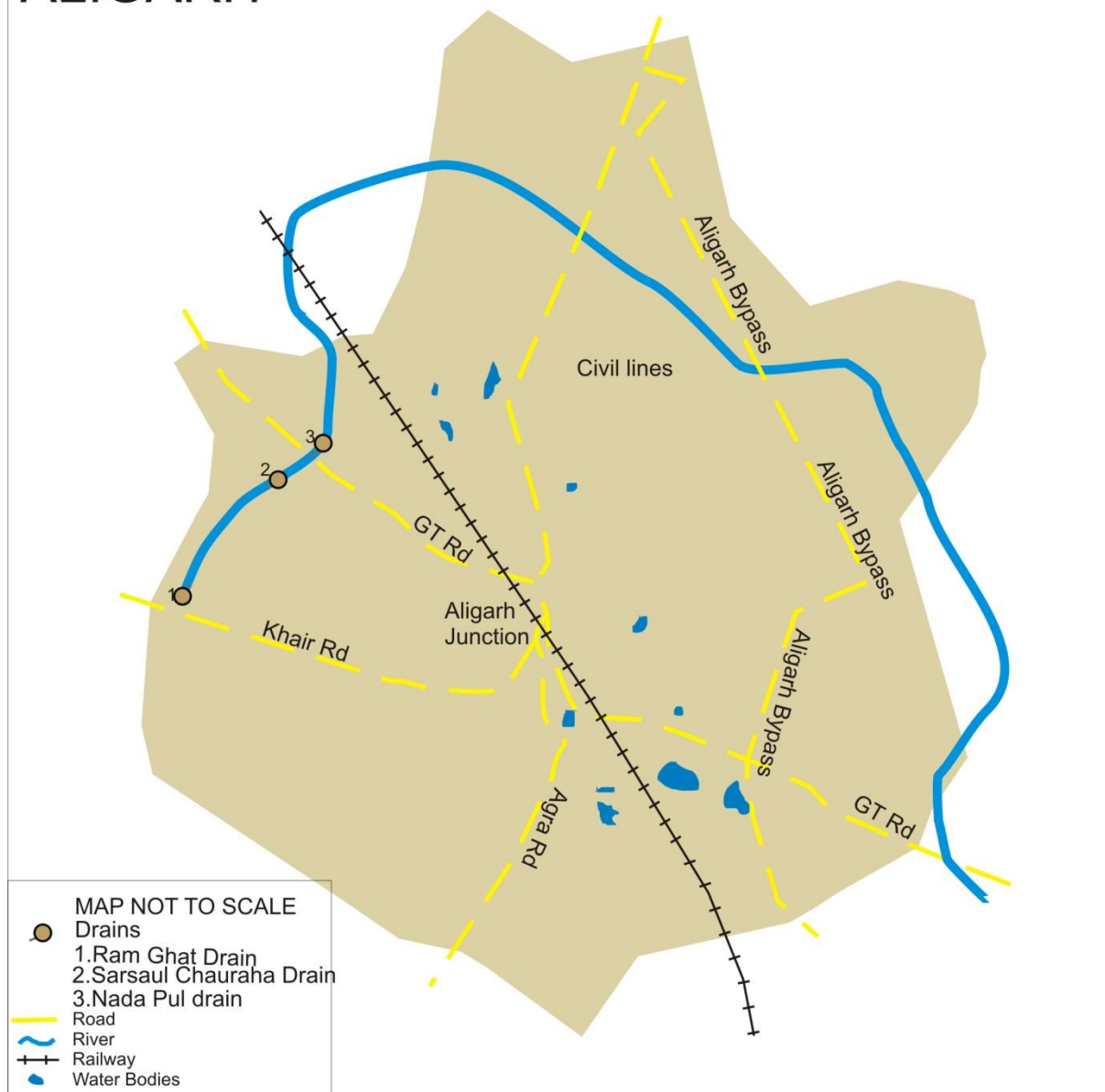
Water Balance & Pollution Load (Domestic) Data Sheet

City: Akbarpur		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	72.47
2	Population as in 2011	:	111447
3	Population Growth Rate as in 2011 (%)	:	228.69
4	Total Number of Wards	:	61
5	Population per Ward (Thousands)	:	1,827
6	Total Number of Household as in 2011	:	17720
7	Number of Household per Ward	:	290
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)	:	15.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	135.00
19	Total Sewage Generation (MLD)*	:	12.00
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	: 3009.10
		COD	: 5115.40
		TKN	: 601.80
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Tamsa 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

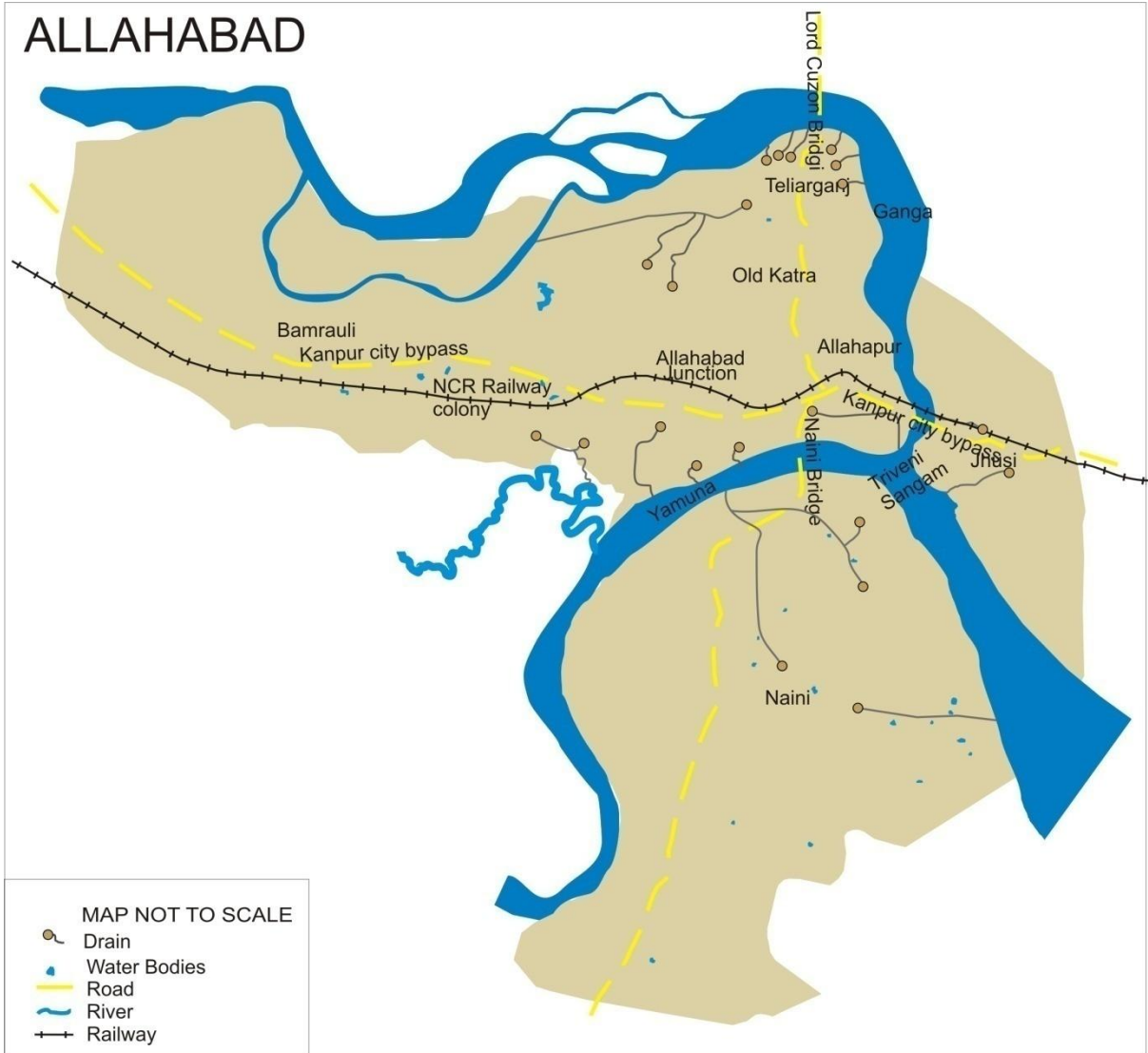
ALIGARH



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

ALLAHABAD



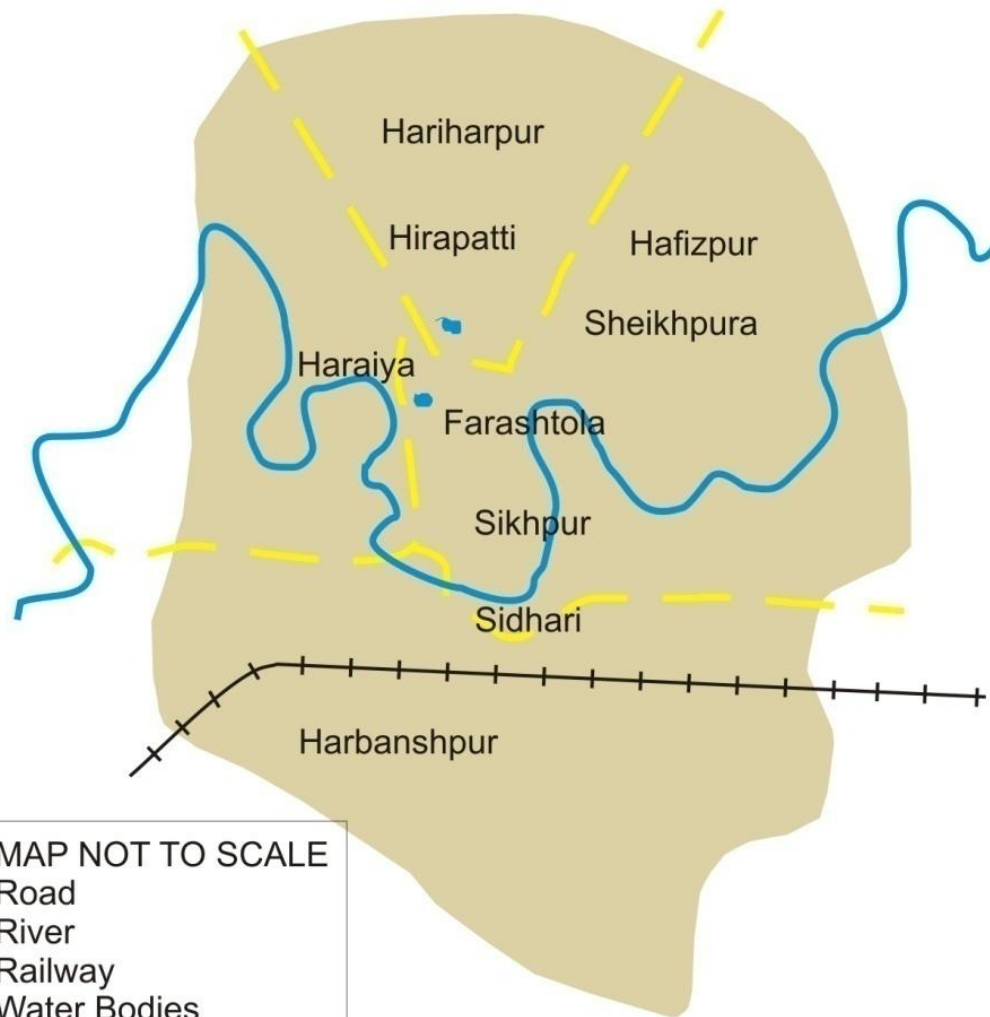
Water Balance & Pollution Load (Domestic) Data Sheet

City: Amroha			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		8.95
2	Population as in 2011	:		198471
3	Population Growth Rate as in 2011 (%)	:		20.19
4	Total Number of Wards	:		31
5	Population per Ward (Thousands)	:		6,402
6	Total Number of Household as in 2011	:		24137
7	Number of Household per Ward	:		779
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		9.00
10	Number of Bore Wells	:		12
11	Ground Water Extraction per Bore Well (MLD)	:		0.75
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)	:		45.35
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		9.20
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		46.20
19	Total Sewage Generation (MLD)*	:		7.20
20	Per Capita Sewage Generation (lpcd)	:		36.30
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	:	5322.60
		COD	:	9048.50
		TKN	:	1064.50
30	Wastewater Disposal Means	:		Land & River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Gangan River
32	Number of Drains/Nallah for Wastewater Disposal	:		2
33	Number of Water Bodies	:		3
34	Gross Area of Water Bodies (Hectare)	:		40.00
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Azamgarh			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		12.70
2	Population as in 2011	:		110983
3	Population Growth Rate as in 2011 (%)	:		18.67
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		4439
6	Total Number of Household as in 2011	:		16,294
7	Number of Household per Ward	:		652
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		18.70
10	Number of Bore Wells	:		19
11	Ground Water Extraction per Bore Well (MLD)	:		0.98
12	Number of Hand Pumps/ Tubewells	:		552
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)	:		168.49
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		18.98
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		170.98
19	Total Sewage Generation (MLD)*	:		16.23
20	Per Capita Sewage Generation (lpcd)	:		146.24
21	Sewage Collection (MLD)	:		16.23
22	Percentage of Sewage Collection (%)	:		85
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	:	2996.54
		COD	:	5094.12
		TKN	:	599.31
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Tamsa River
32	Number of Drains/Nallah for Wastewater Disposal	:		14
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

AZAMGARH



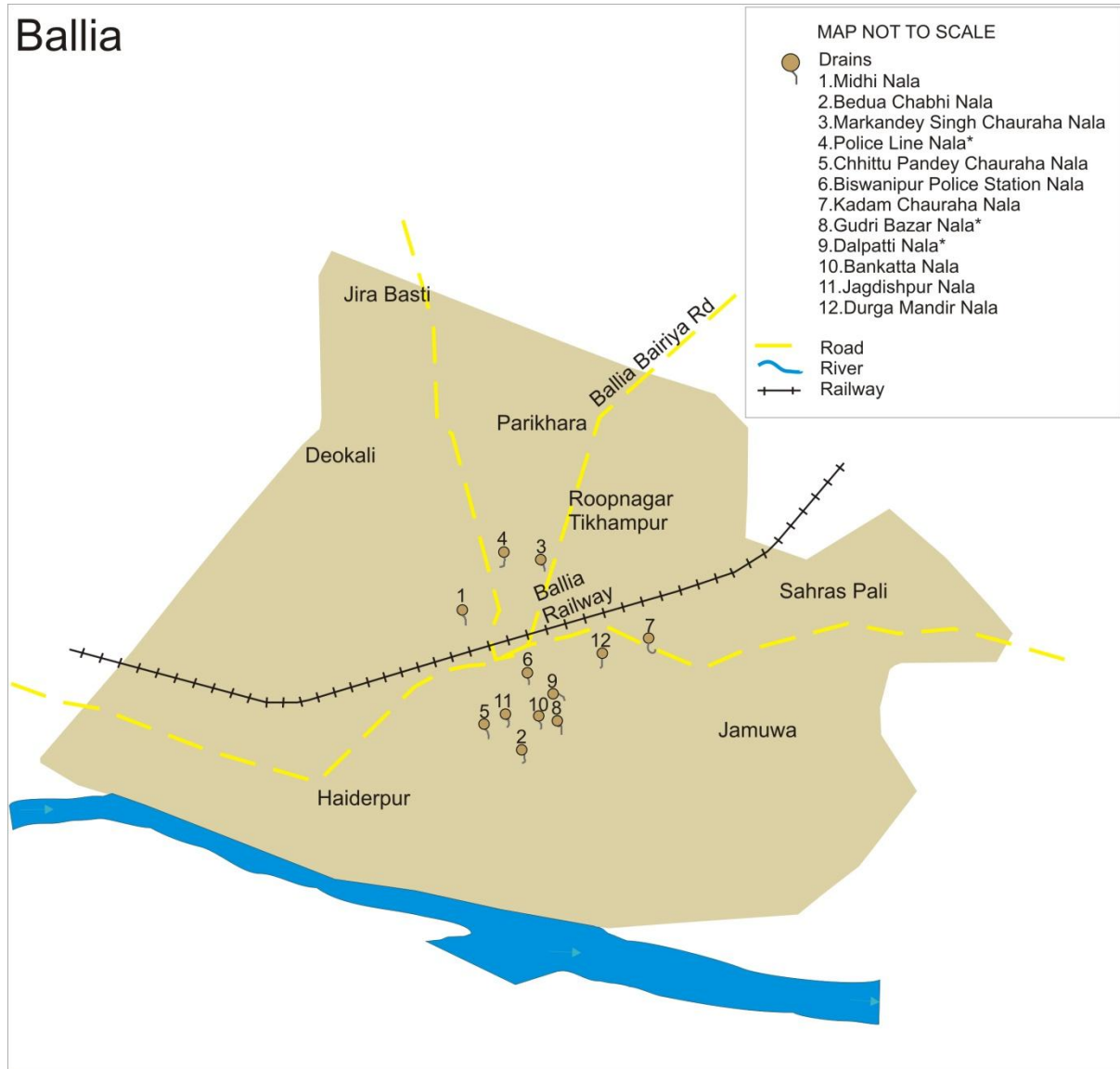
Water Balance & Pollution Load (Domestic) Data Sheet

City: Bahraich			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		13.30
2	Population as in 2011	:		186223
3	Population Growth Rate as in 2011 (%)	:		10.63
4	Total Number of Wards	:		31
5	Population per Ward (Thousands)	:		6,007
6	Total Number of Household as in 2011	:		30460
7	Number of Household per Ward	:		983
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)	:		25.10
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		20.10
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	:	5028.00
		COD	:	8547.60
		TKN	:	1005.60
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Saryu 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: Ballia			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		16.00
2	Population as in 2011	:		104424
3	Population Growth Rate as in 2011 (%)	:		2.92
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		4,177
6	Total Number of Household as in 2011	:		15772
7	Number of Household per Ward	:		631
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		20
10	Number of Bore Wells	:		10
11	Ground Water Extraction per Bore Well (MLD)	:		2
12	Number of Hand Pumps/ Tubewells	:		330
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		NIL
15	Total Pumping Capacity (MLD)	:		NIL
16	Average Water Supply Rate from ULB Sources (lpcd)	:		191.53
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		20.20
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		193.10
19	Total Sewage Generation (MLD)*	:		18.70
20	Per Capita Sewage Generation (lpcd)*	:		178.80
21	Sewage Collection (MLD)	:		18.70
22	Percentage of Sewage Collection (%)	:		92.70
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	:	2819.40
		COD	:	4793.10
		TKN	:	563.90
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Ganga River
32	Number of Drains/Nallah for Wastewater Disposal	:		12
33	Number of Water Bodies	:		2
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

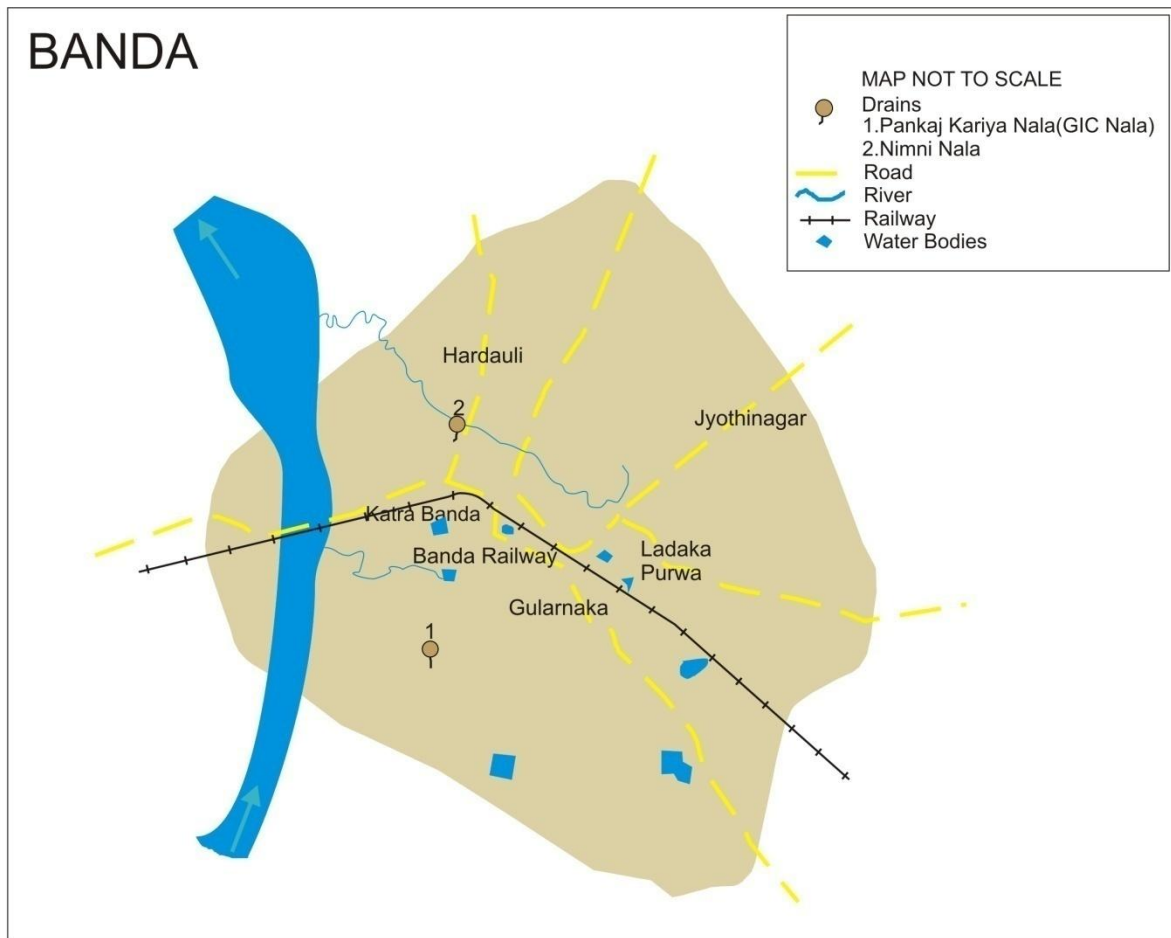
Ballia



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

BANDA



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: Bareilly		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	106.43
2	Population as in 2011	:	904797
3	Population Growth Rate as in 2011 (%)	:	25.61
4	Total Number of Wards	:	70
5	Population per Ward (Thousands)	:	10,290
6	Total Number of Household as in 2011	:	166447
7	Number of Household per Ward	:	2378
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	102
10	Number of Bore Wells	:	49
11	Ground Water Extraction per Bore Well (MLD)	:	2.08
12	Number of Hand Pumps/ Tubewells	:	3122
13	Ground Water Extraction per Hand Pump (lpd)	:	500
14	Number of Pumping Stations for Water Supply	:	NA
15	Total Pumping Capacity (MLD)	:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	103.60
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	114.50
19	Total Sewage Generation (MLD)*	:	129.00
20	Per Capita Sewage Generation (lpcd)*	:	142.60
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	24429.52
		COD	41530.18
		TKN	4885.90
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Ramganga River
32	Number of Drains/Nallah for Wastewater Disposal	:	11
33	Number of Water Bodies	:	164
34	Gross Area of Water Bodies (Hectare)	:	43.43
35	Area of Water Bodies as % of Total Area	:	<<< 1

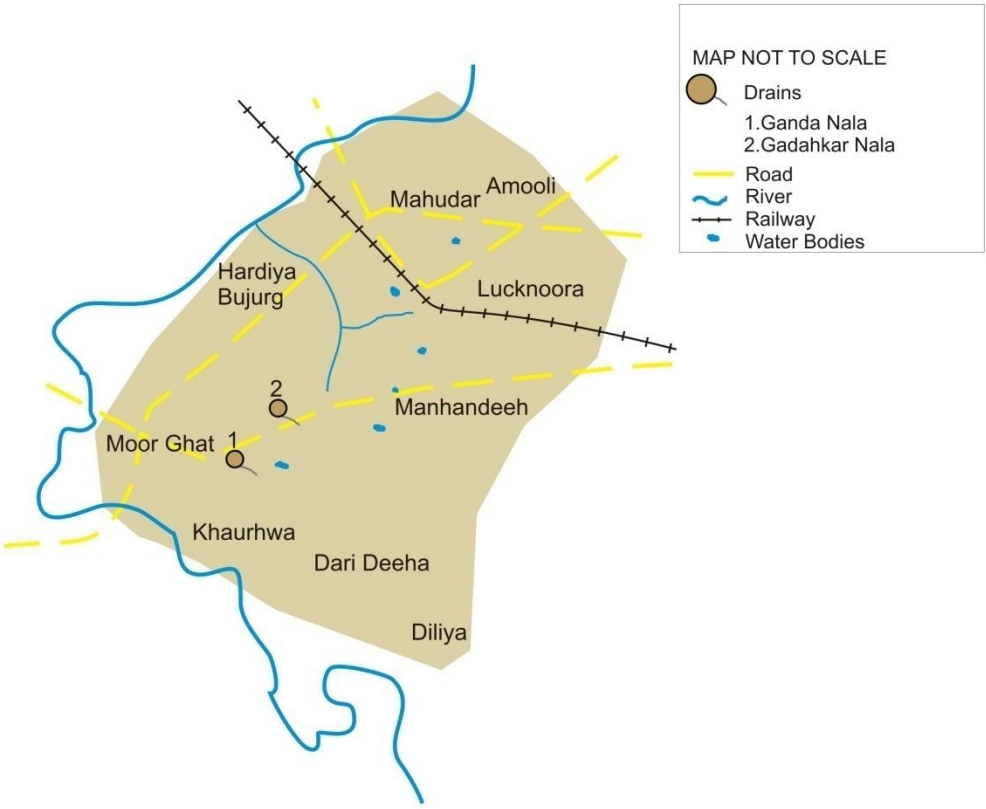
BAREILLY



Water Balance & Pollution Load (Domestic) Data Sheet

City: Basti		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	19.47
2	Population as in 2011		:	114657
3	Population Growth Rate as in 2011 (%)		:	6.56
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	4,586
6	Total Number of Household as in 2011		:	17894
7	Number of Household per Ward		:	716
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	19
10	Number of Bore Wells		:	18
11	Ground Water Extraction per Bore Well (MLD)		:	1.06
12	Number of Hand Pumps/ Tubewells		:	19982
13	Ground Water Extraction per Hand Pump (lpd)		:	200
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	165.71
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	23.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	200.60
19	Total Sewage Generation (MLD)*		:	11.10
20	Per Capita Sewage Generation (lpcd)		:	97.20
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	:	3095.70
		COD	:	5262.80
		TKN	:	619.10
30	Wastewater Disposal Means		:	Land & River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Kuwano River
32	Number of Drains/Nallah for Wastewater Disposal		:	2
33	Number of Water Bodies		:	11
34	Gross Area of Water Bodies (Hectare)		:	1.60
35	Area of Water Bodies as % of Total Area		:	<<< 1

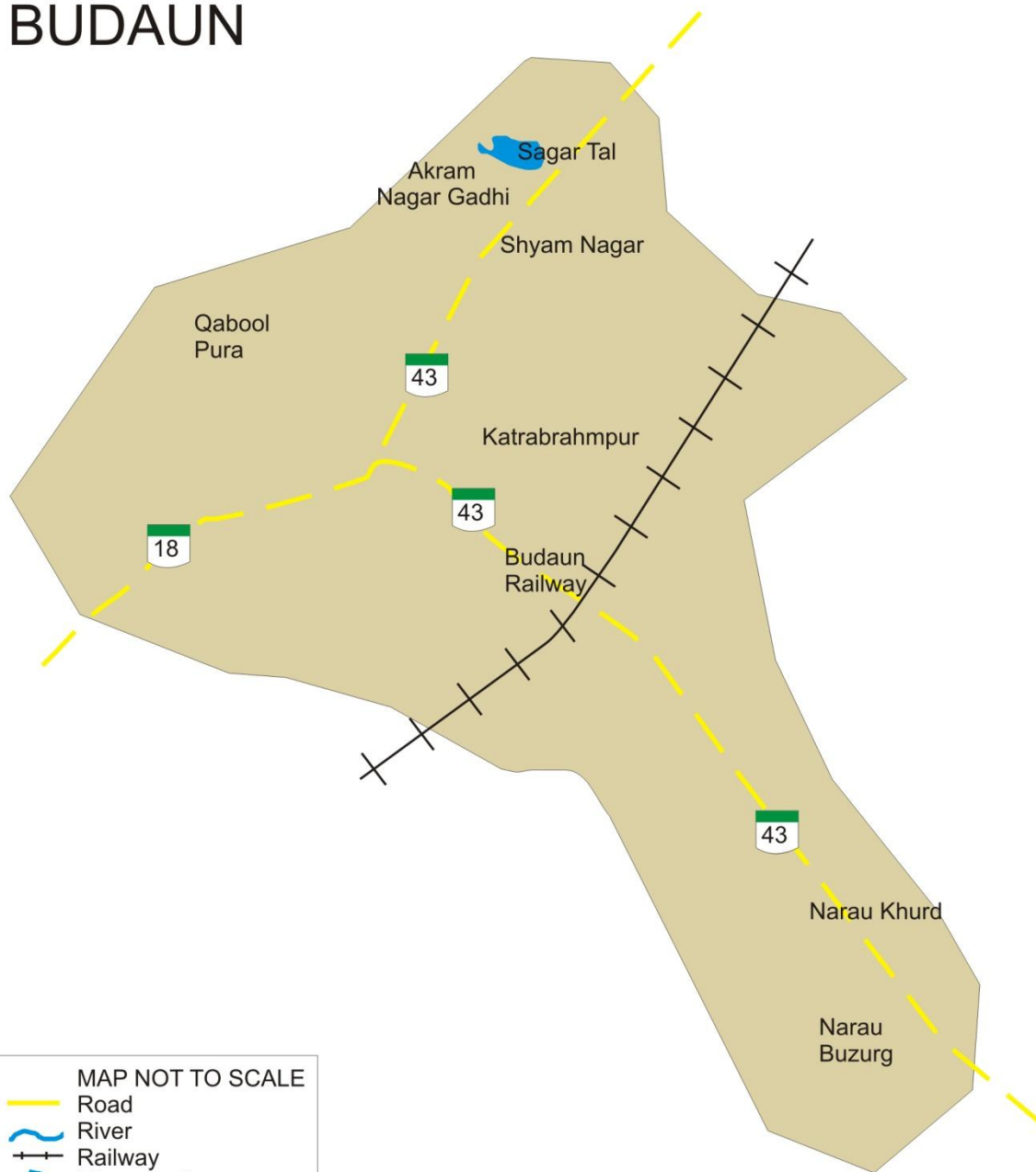
BASTI



Water Balance & Pollution Load (Domestic) Data Sheet

City: Badaun			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	6.10
2	Population as in 2011		:	159285
3	Population Growth Rate as in 2011 (%)		:	7.60
4	Total Number of Wards		:	29
5	Population per Ward (Thousands)		:	5,104
6	Total Number of Household as in 2011		:	29061
7	Number of Household per Ward		:	1002
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	22.09
10	Number of Bore Wells		:	20
11	Ground Water Extraction per Bore Well (MLD)		:	1.00
12	Number of Hand Pumps/ Tubewells		:	617
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)		:	138.69
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	22.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	140.60
19	Total Sewage Generation (MLD)*		:	46.10
20	Per Capita Sewage Generation (lpcd)*		:	289.20
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	:	4300.70
		COD	:	7311.20
		TKN	:	860.10
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Sot River
32	Number of Drains/Nallah for Wastewater Disposal		:	4
33	Number of Water Bodies		:	NA
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

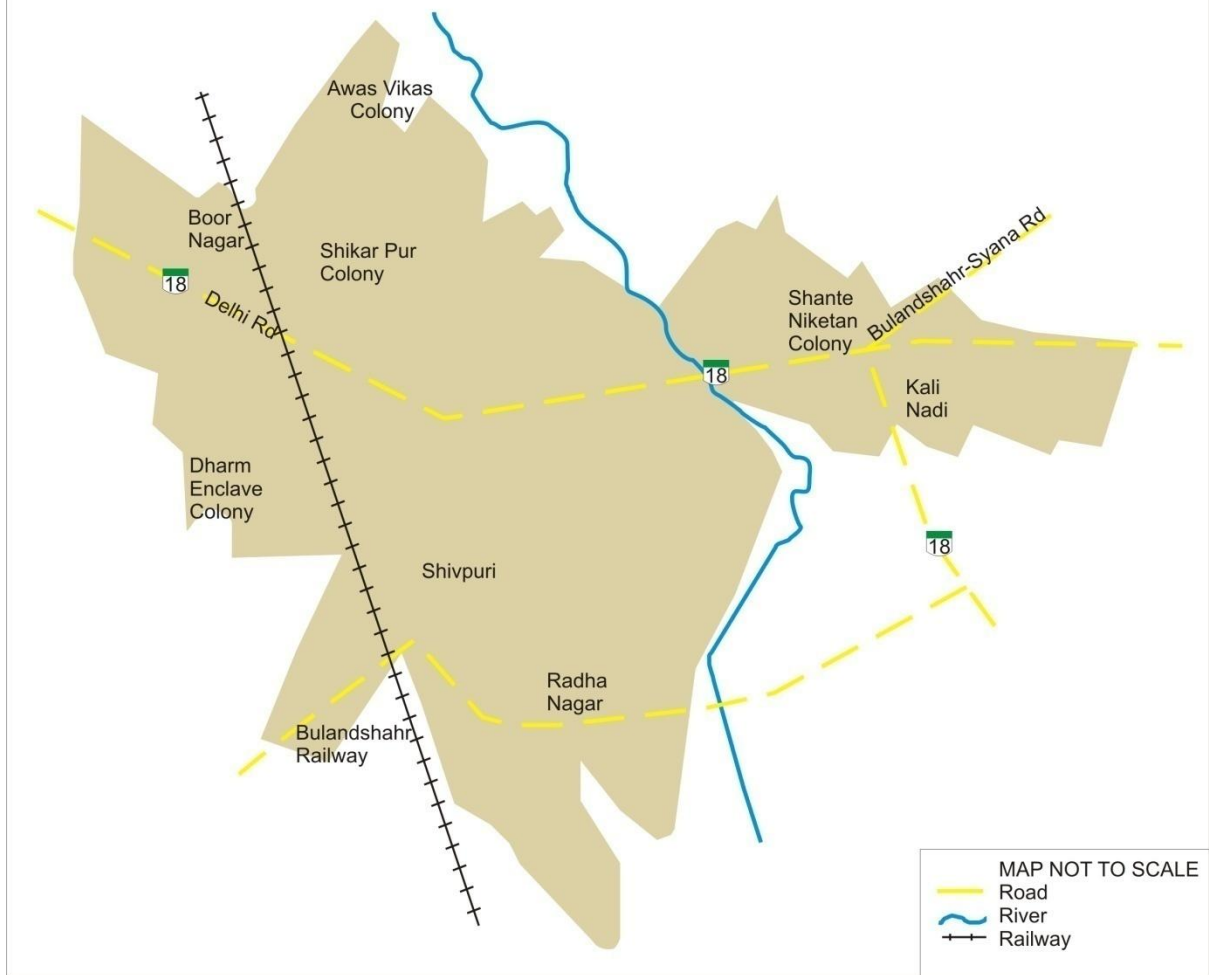
BUDAUN



Water Balance & Pollution Load (Domestic) Data Sheet

City: Bulandshahar		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	37.00
2	Population as in 2011	:	230024
3	Population Growth Rate as in 2011 (%)	:	30.38
4	Total Number of Wards	:	32
5	Population per Ward (Thousands)	:	7,188
6	Total Number of Household as in 2011	:	41505
7	Number of Household per Ward	:	1297
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	36.00
10	Number of Bore Wells	:	30
11	Ground Water Extraction per Bore Well (MLD)	:	1.20
12	Number of Hand Pumps/ Tubewells	:	926
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)	:	156.50
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	36.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	158.50
19	Total Sewage Generation (MLD)*	:	28.30
20	Per Capita Sewage Generation (lpcd)	:	122.80
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	: 6210.60
		COD	: 10558.10
		TKN	: 1242.10
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Kali River
32	Number of Drains/Nallah for Wastewater Disposal	:	8
33	Number of Water Bodies	:	31
34	Gross Area of Water Bodies (Hectare)	:	6.23
35	Area of Water Bodies as % of Total Area	:	<<< 1

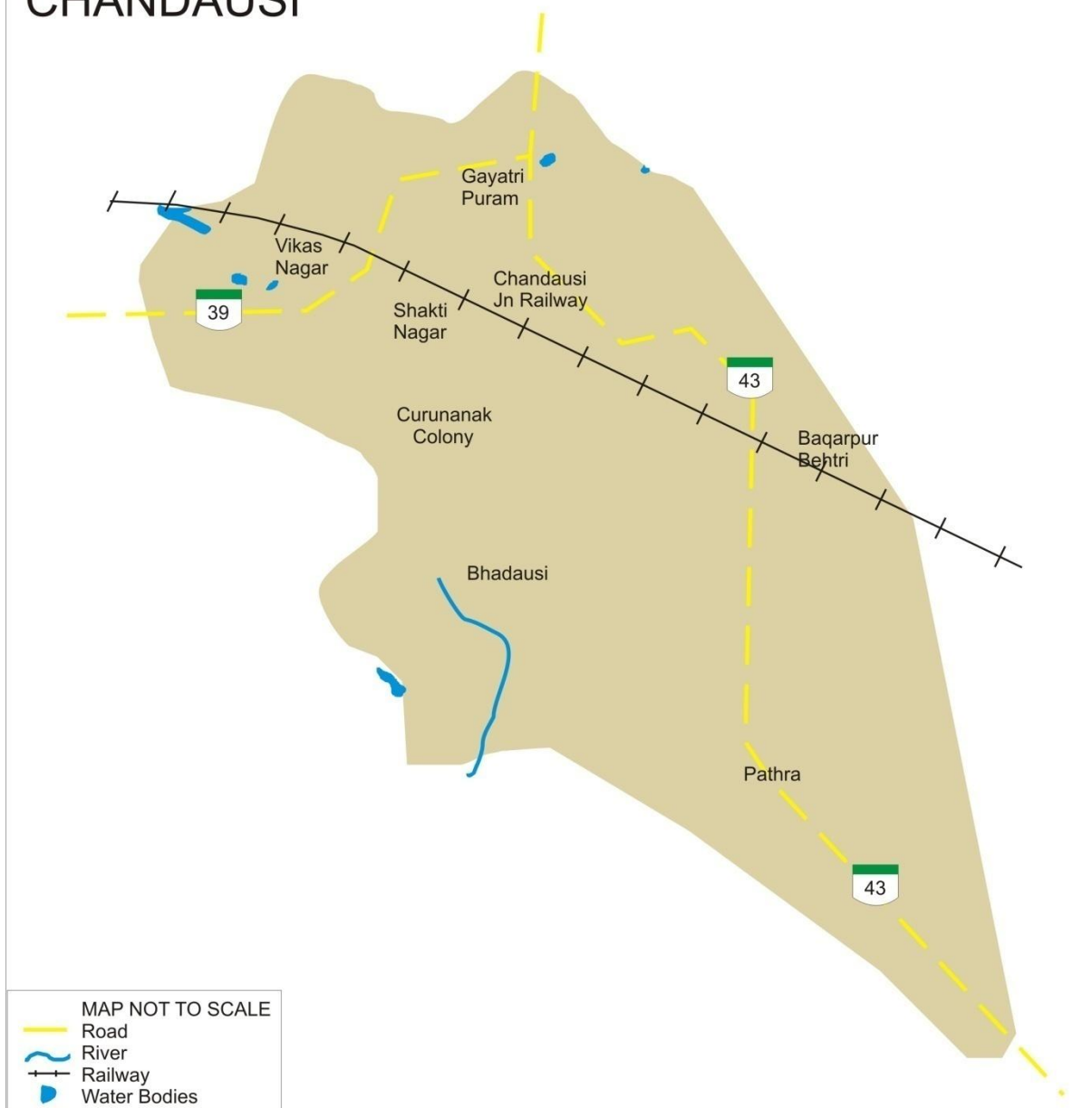
BULANDSHAHR



Water Balance & Pollution Load (Domestic) Data Sheet

City: Chandausi		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	8.80
2	Population as in 2011	:	114383
3	Population Growth Rate as in 2011 (%)	:	10.25
4	Total Number of Wards	:	25
5	Population per Ward (Thousands)	:	4,575
6	Total Number of Household as in 2011	:	20726
7	Number of Household per Ward	:	829
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	9.00
10	Number of Bore Wells	:	9
11	Ground Water Extraction per Bore Well (MLD)	:	1.00
12	Number of Hand Pumps/ Tubewells	:	1372
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)	:	78.68
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	9.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	84.70
19	Total Sewage Generation (MLD)*	:	10.00
20	Per Capita Sewage Generation (lpcd)	:	87.00
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	: 3088.30
		COD	: 5250.20
		TKN	: 617.70
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Sote 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

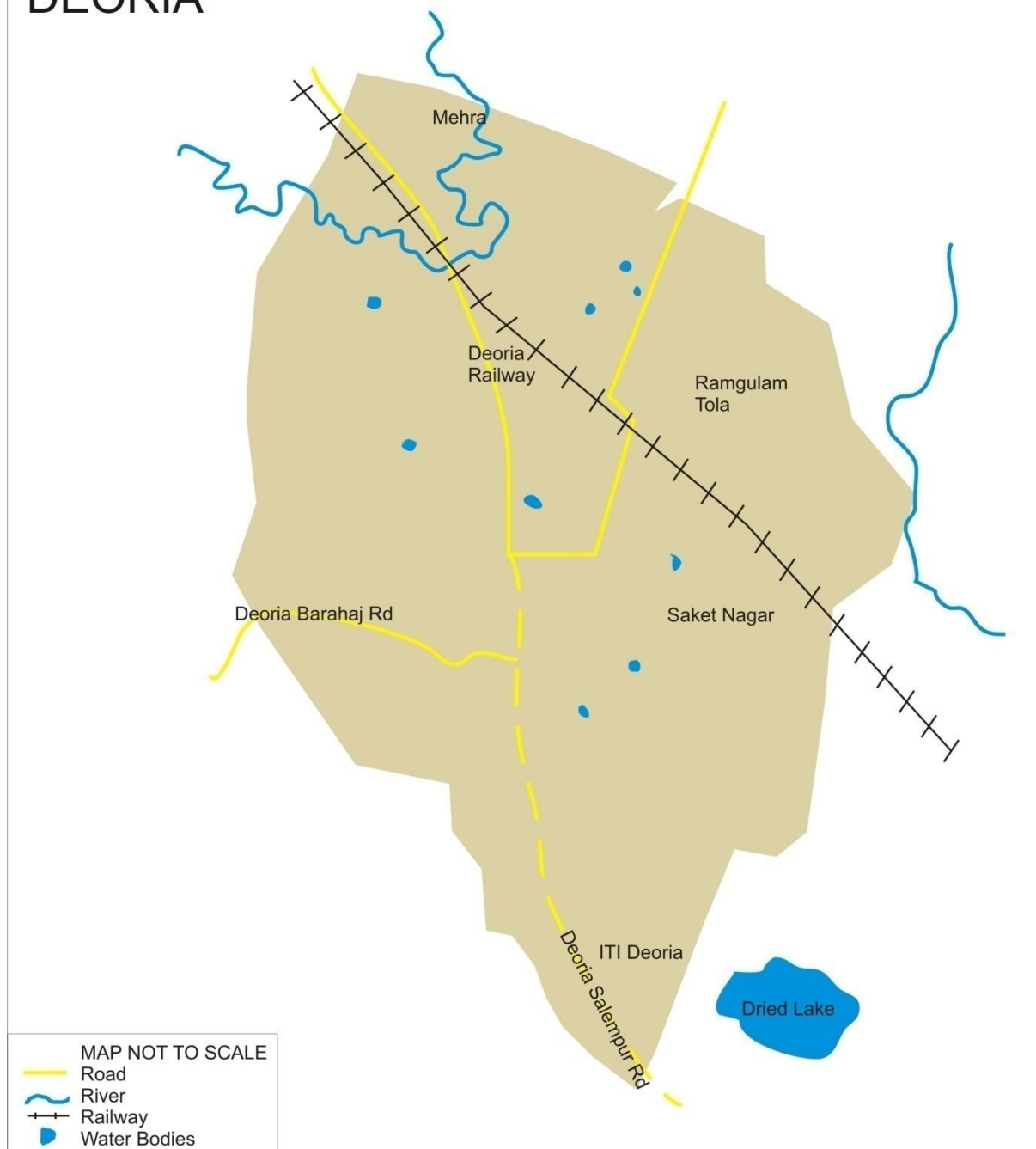
CHANDAUSI



Water Balance & Pollution Load (Domestic) Data Sheet

City: Deoria		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		16.19
2	Population as in 2011	:		129479
3	Population Growth Rate as in 2011 (%)	:		24.23
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		5179
6	Total Number of Household as in 2011	:		20,076
7	Number of Household per Ward	:		803
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		15.50
10	Number of Bore Wells	:		8
11	Ground Water Extraction per Bore Well (MLD)	:		1.93
12	Number of Hand Pumps/ Tubewells	:		505
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)	:		119.63
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		15.75
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		121.60
19	Total Sewage Generation (MLD)*	:		14.84
20	Per Capita Sewage Generation (lpcd)	:		114.58
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	:	3495.93
		COD	:	5943.09
		TKN	:	699.19
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Kurna River
32	Number of Drains/Nallah for Wastewater Disposal	:		4
33	Number of Water Bodies	:		13
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		<<<1%

DEORIA

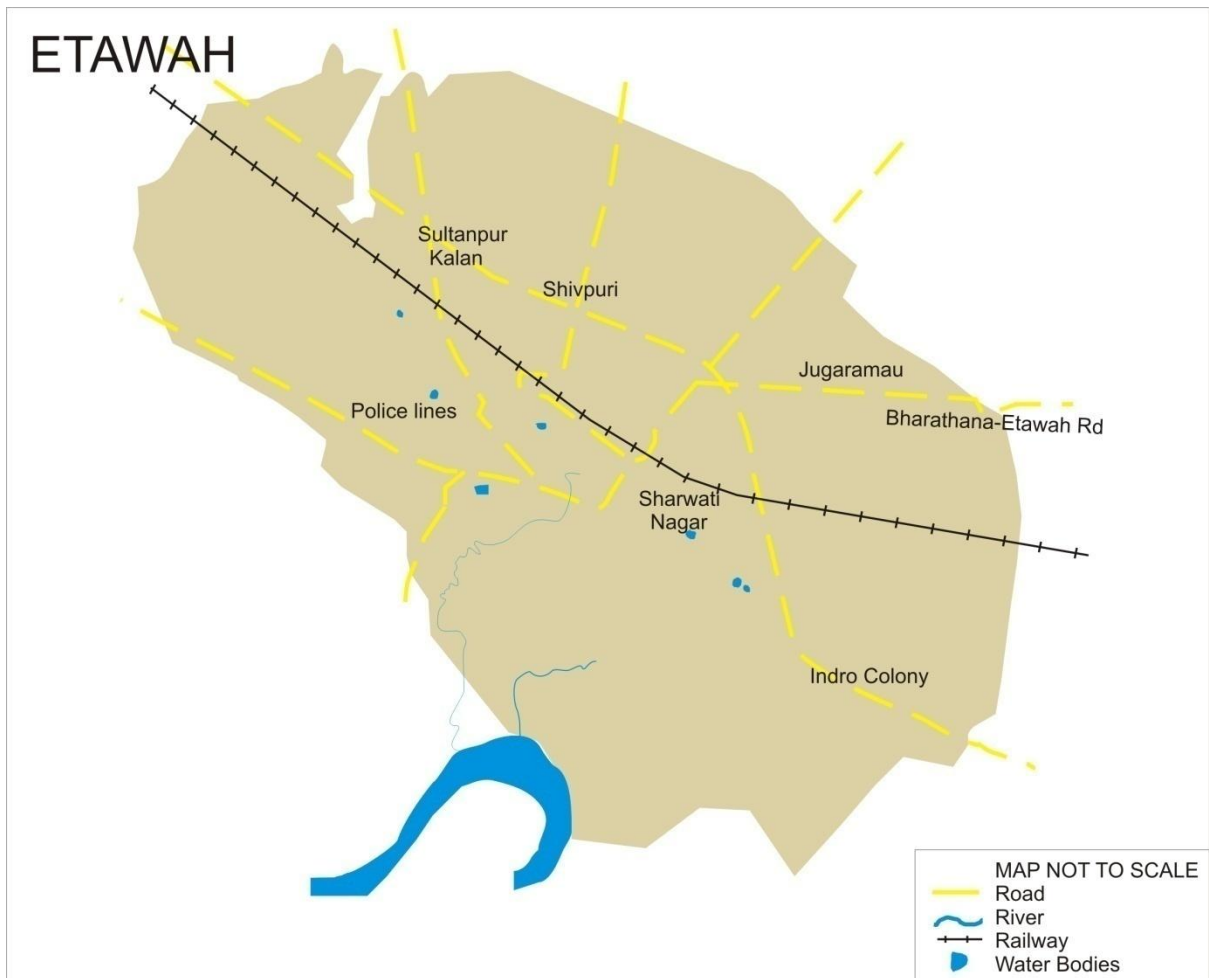


Water Balance & Pollution Load (Domestic) Data Sheet

City: Etah		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	13.49
2	Population as in 2001		:	118517
3	Population Growth Rate as in 2001 (%)		:	10.65
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	4,284
6	Total Number of Household as in 2001		:	20303
7	Number of Household per Ward		:	812
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	9.60
10	Number of Bore Wells		:	16
11	Ground Water Extraction per Bore Well (MLD)		:	0.60
12	Number of Hand Pumps/ Tubewells		:	855
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)		:	81.00
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	10.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	84.60
19	Total Sewage Generation (MLD)*		:	8.70
20	Per Capita Sewage Generation (lpcd)		:	73.50
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	:	3200.00
		COD	:	5439.90
		TKN	:	640.00
30	Wastewater Disposal Means		:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Ishan River
32	Number of Drains/Nallah for Wastewater Disposal		:	2
33	Number of Water Bodies		:	4
34	Gross Area of Water Bodies (Hectare)		:	1.84
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

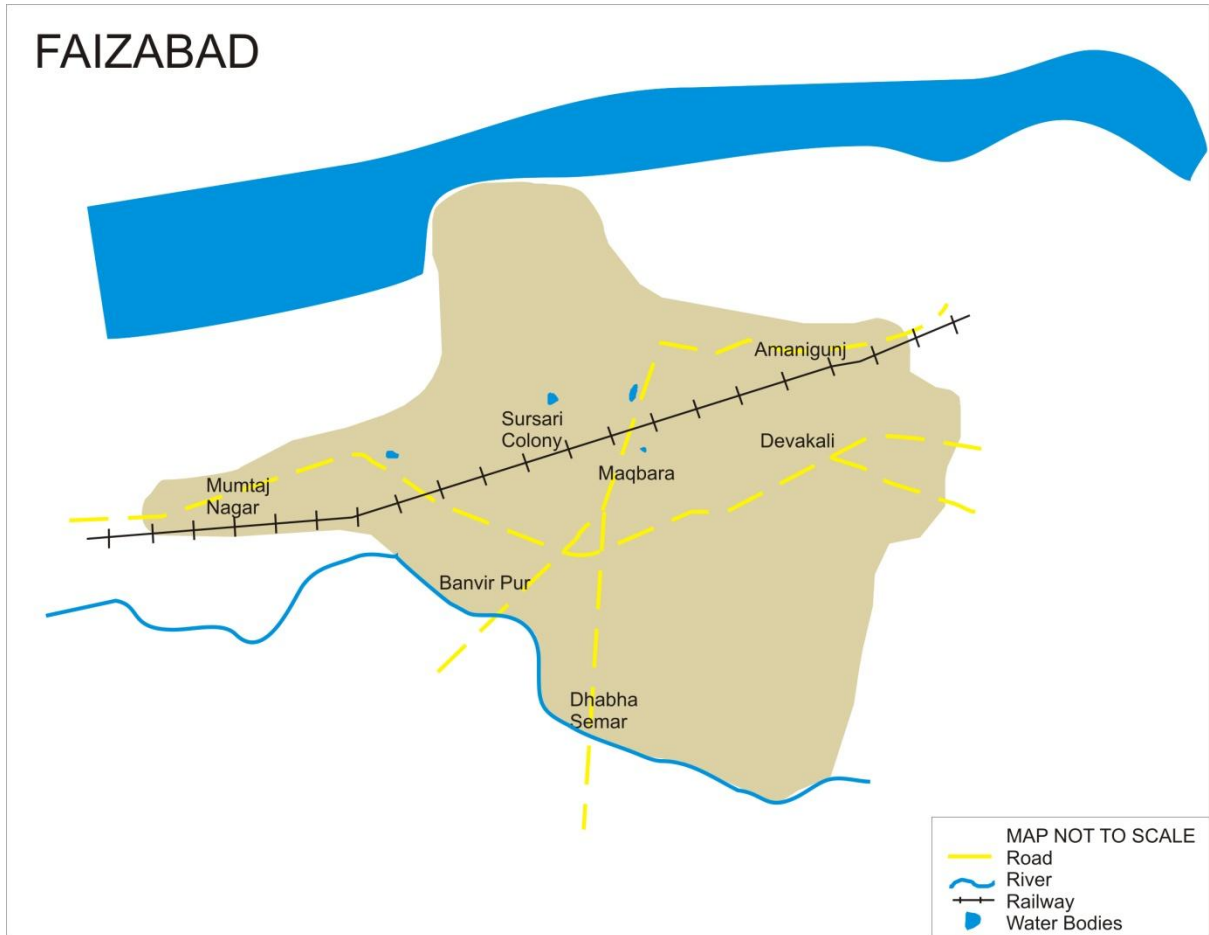
City: Etawah		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	28.94
2	Population as in 2011		:	256838
3	Population Growth Rate as in 2011 (%)		:	22.04
4	Total Number of Wards		:	36
5	Population per Ward (Thousands)		:	5,846
6	Total Number of Household as in 2011		:	44659
7	Number 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

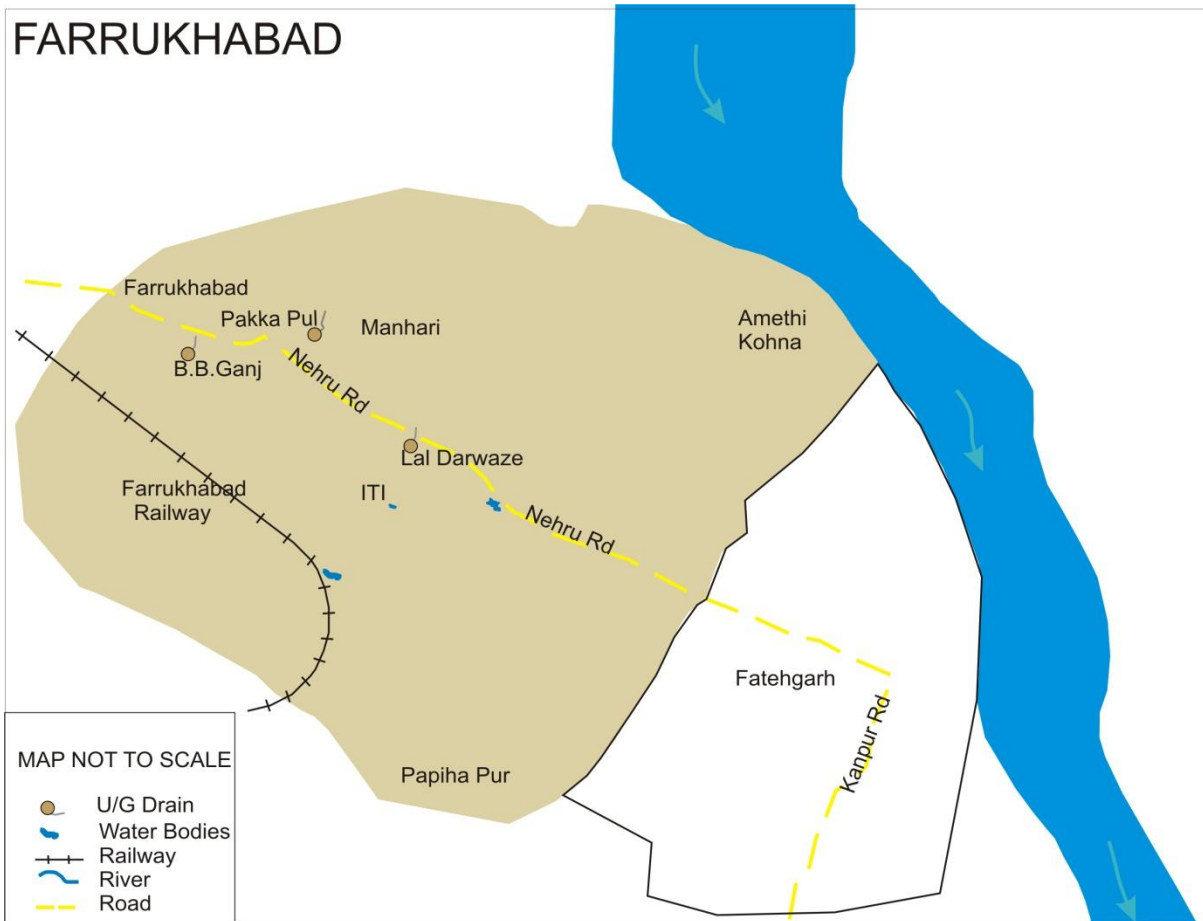
City: Faizabad		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	16.02
2	Population as in 2011		:	165228
3	Population Growth Rate as in 2011 (%)		:	14.18
4	Total Number of Wards		:	28
5	Population per Ward (Thousands)		:	5,901
6	Total Number of Household as in 2011		:	28150
7	Number of Household per Ward		:	1005
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	15.50
10	Number of Bore Wells		:	34
11	Ground Water Extraction per Bore Well (MLD)		:	0.46
12	Number of Hand Pumps		:	792
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)		:	93.81
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	15.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	96.20
19	Total Sewage Generation (MLD)		:	27.90
20	Per Capita Sewage Generation (lpcd)		:	168.80
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	:	4461.20
		COD	:	7584.00
		TKN	:	892.20
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Sai River
32	Number of Drains/Nallah for Wastewater Disposal		:	3
33	Number of Water Bodies		:	1
34	Gross Area of Water Bodies (Hectare)		:	0.45
35	Area of Water Bodies as % of Total Area		:	<< 1

FAIZABAD



Water Balance & Pollution Load (Domestic) Data Sheet

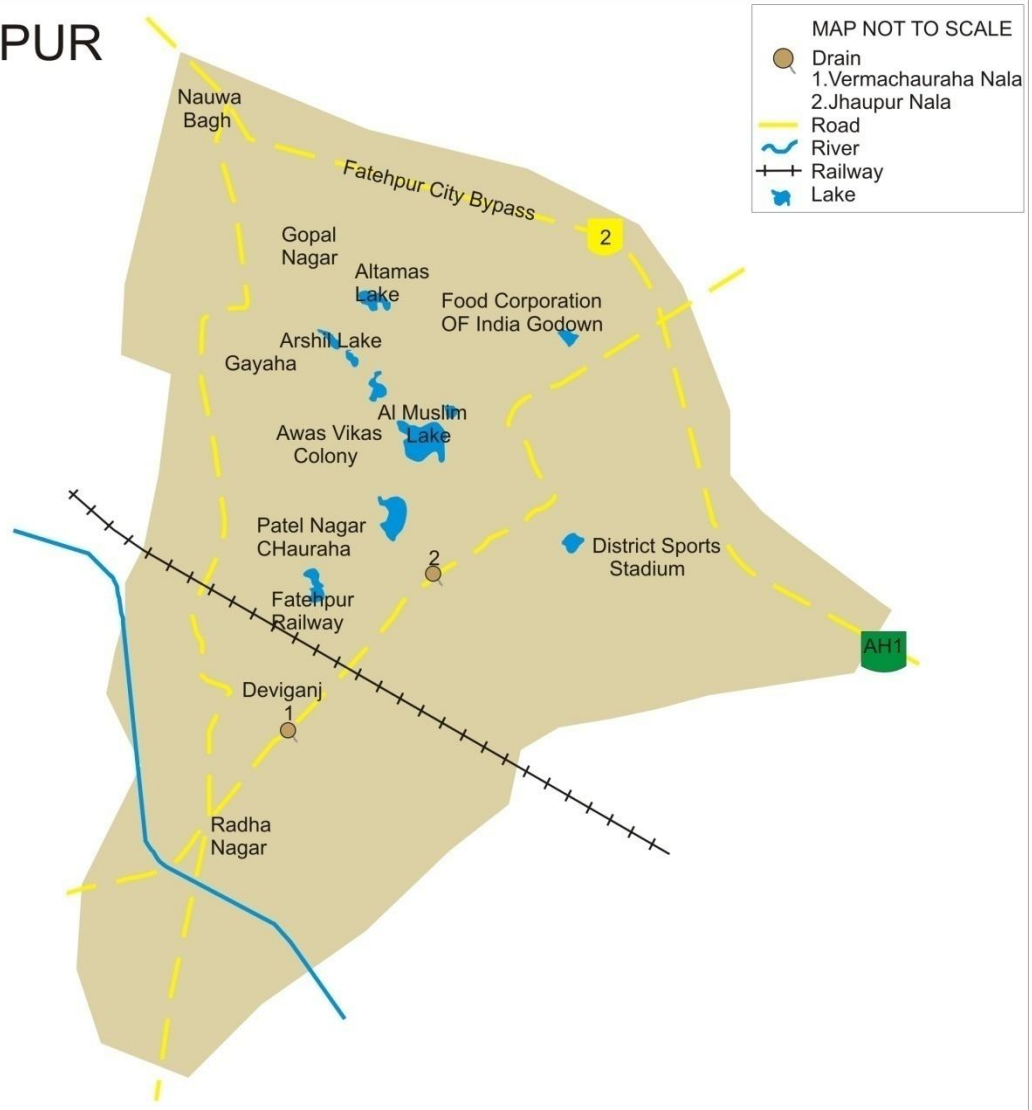
City: Farrukhabad		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	19.11
2	Population as in 2011		:	276581
3	Population Growth Rate as in 2011 (%)		:	21.13
4	Total Number of Wards		:	37
5	Population per Ward (Thousands)		:	7,475
6	Total Number of Household as in 2011		:	48850
7	Number of Household per Ward		:	1320
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	24.10
10	Number of Bore Wells		:	44
11	Ground Water Extraction per Bore Well (MLD)		:	0.55
12	Number of Hand Pumps/ Tubewells		:	2800
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)		:	87.14
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	25.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	92.20
19	Total Sewage Generation (MLD)*		:	32.40
20	Per Capita Sewage Generation (lpcd)		:	117.10
21	Sewage Collection (MLD)		:	1.80
22	Percentage of Sewage Collection (%)		:	5.50
23	Number of STPs		:	1
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	2.70
25	Current Utilized Capacity of STPs (MLD)		:	1.50
26	Percentage Utilization of Installed Capacity (%)		:	55.55
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	:	7467.70
		COD	:	12695.10
		TKN	:	1493.50
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Ganga River
32	Number of Drains/Nallah for Wastewater Disposal		:	4
33	Number of Water Bodies		:	9
34	Gross Area of Water Bodies (Hectare)		:	2.67
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

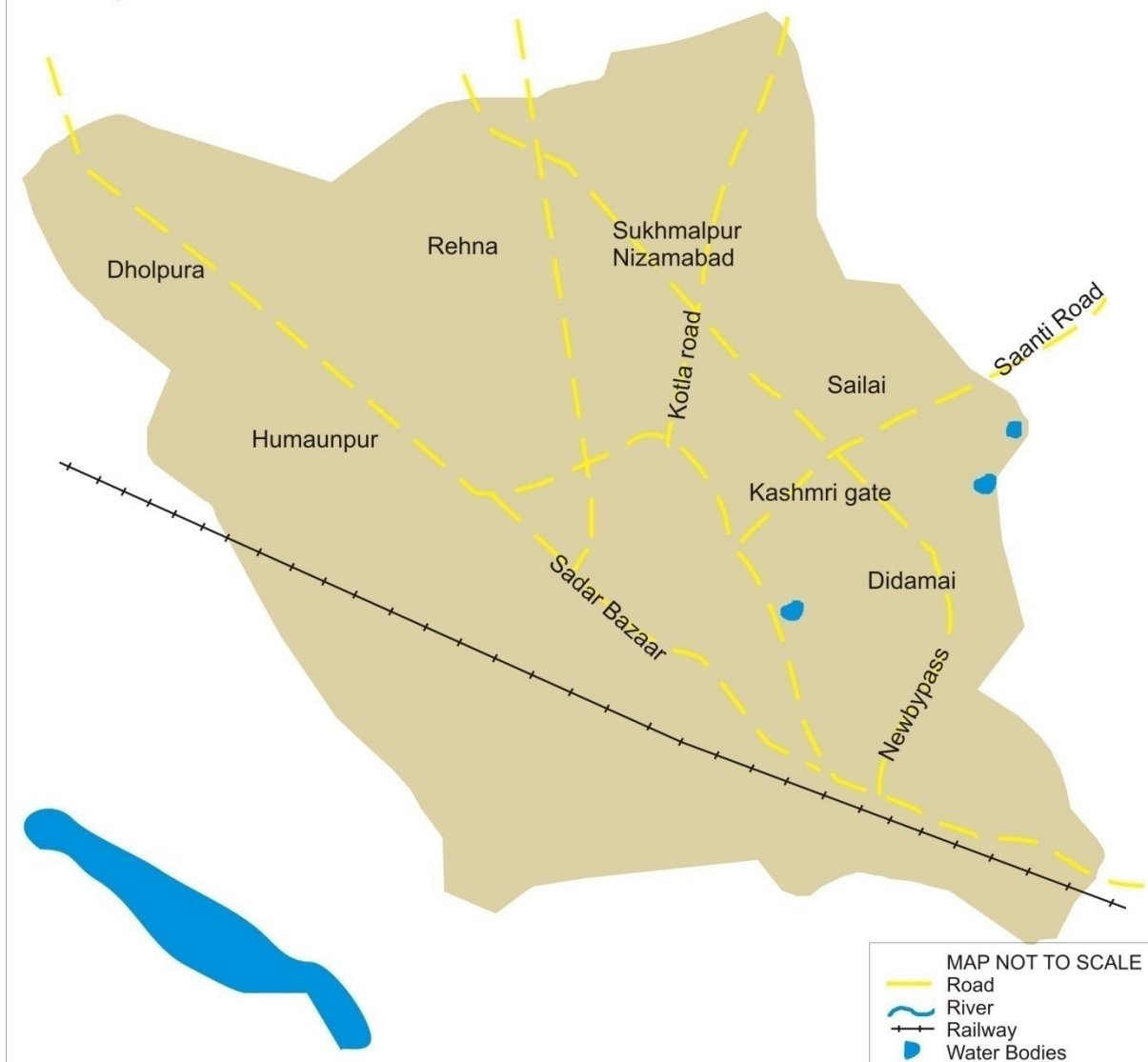
FATEHPUR



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

FIROZABAD



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
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 &Hindon 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

GHAZIABAD

MAP NOT TO SCALE

Drain

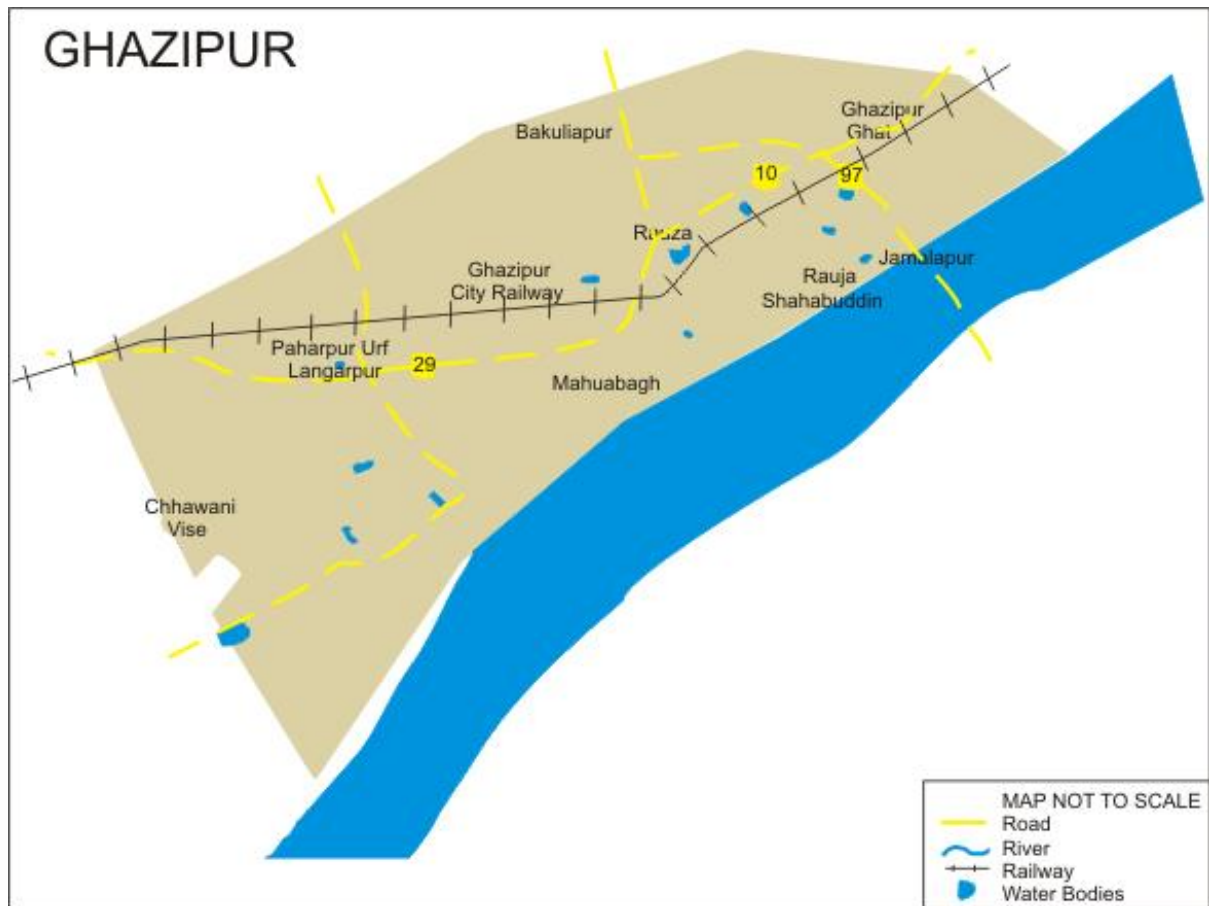
1. Shamashan Ghat Nala
2. Gt Road Shyam Park Shahibad Nala
3. Shahidnagar Nala
4. ESI Road Nala
5. Mahamaya Stadium Nala
6. Dashnagate Jatwara Nala
7. Kavinagar F Block Nala
8. Mukherji Park Nala
9. Raj Nagar Sector I Nala

Road
River
Railway
Water Bodies



Water Balance & Pollution Load (Domestic) Data Sheet

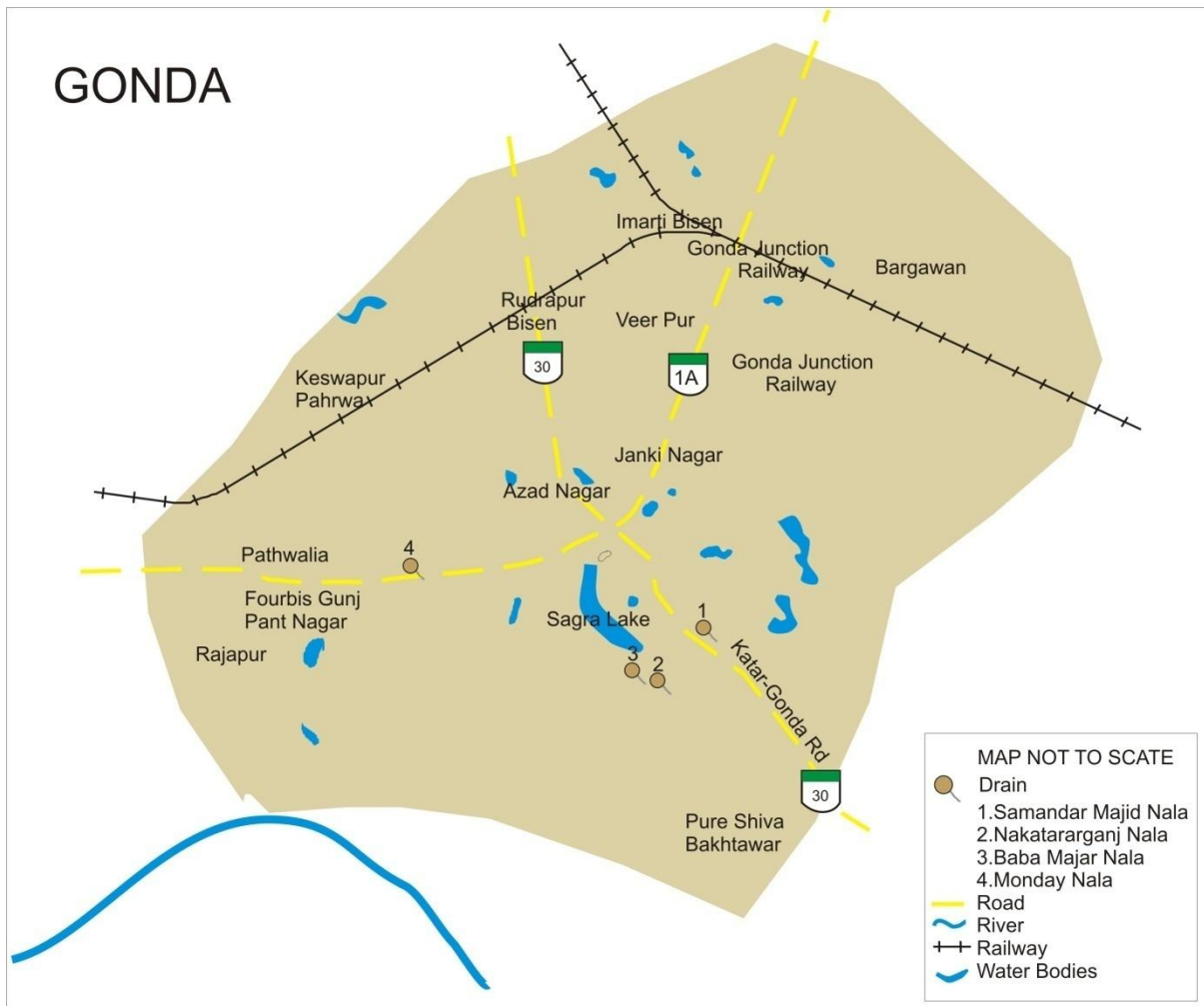
City: Ghazipur		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	18.3
2	Population as in 2011/2001		:	121020
3	Population Growth Rate as in 2011 (%)		:	17.16
4	Total Number of Wards		:	30
5	Population per Ward (Thousands)		:	4034
6	Total Number of Household as in 2011		:	19,556
7	Number of Household per Ward		:	652
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	15.90
10	Number of Bore Wells		:	37
11	Ground Water Extraction per Bore Well (MLD)		:	0.43
12	Number of Hand Pumps/ Tubewells		:	465
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)		:	131.38
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	16.13
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	133.30
19	Total Sewage Generation (MLD)*		:	11.82
20	Per Capita Sewage Generation (lpcd)		:	110.00
21	Sewage Collection (MLD)		:	11.82
22	Percentage of Sewage Collection (%)		:	75.40
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	:	3267.54
		COD	:	5554.82
		TKN	:	653.51
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Ganga River
32	Number of Drains/Nallah for Wastewater Disposal		:	7
33	Number of Water Bodies		:	7
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	NA



Water Balance & Pollution Load (Domestic) Data Sheet

City: Gonda			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	24.62
2	Population as in 2011		:	114046
3	Population Growth Rate as in 2011 (%)		:	(-) 5.20
4	Total Number of Wards		:	27
5	Population per Ward (Thousands)		:	4,224
6	Total Number of Household as in 2011		:	19293
7	Number of Household per Ward		:	715
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	22.46
10	Number of Bore Wells		:	12
11	Ground Water Extraction per Bore Well (MLD)		:	1.87
12	Number of Hand Pumps/ Tubewells		:	11351
13	Ground Water Extraction per Hand Pump (lpcd)		:	200
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	196.97
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	24.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	216.90
19	Total Sewage Generation (MLD)		:	20.30
20	Per Capita Sewage Generation (lpcd)		:	178.0
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	:	3079.20
		COD	:	5234.70
		TKN	:	615.80
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Teri River
32	Number of Drains/Nallah for Wastewater Disposal		:	4
33	Number of Water Bodies		:	6
34	Gross Area of Water Bodies (Hectare)		:	9.30
35	Area of Water Bodies as % of Total Area		:	<<< 1

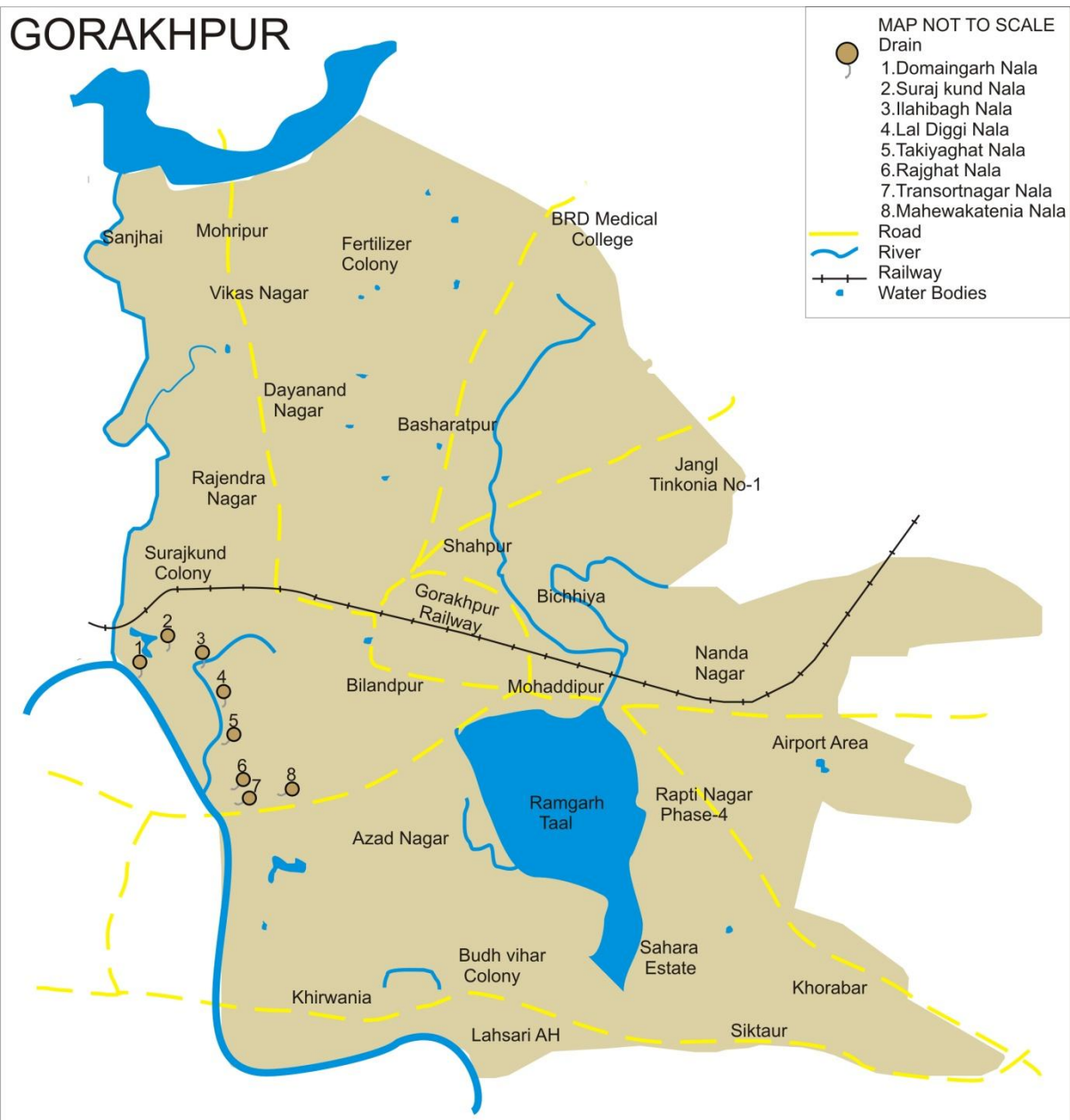
GONDA



Water Balance & Pollution Load (Domestic) Data Sheet

City: Gorakhpur		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:	:	141.02
2	Population as in 2011	:	:	673446
3	Population Growth Rate as in 2011 (%)	:	:	8.15
4	Total Number of Wards	:	:	70
5	Population per Ward (Thousands)	:	:	9,621
6	Total Number of Household as in 2011	:	:	112237
7	Number of Household per Ward	:	:	1603
8	Surface Water Supply (MLD)	:	:	NA
9	Ground Water (GW) Supply (MLD)	:	:	82
10	Number of Bore Wells	:	:	96
11	Ground Water Extraction per Bore Well (MLD)	:	:	0.85
12	Number of Hand Pumps/ Tubewells	:	:	3694
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)	:	:	121.80
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	:	83.80
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	:	124.50
19	Total Sewage Generation (MLD)	:	:	35.00
20	Per Capita Sewage Generation (lpcd)	:	:	52.00
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	:	18183.00
		COD	:	30911.20
		TKN	:	3636.60
30	Wastewater Disposal Means	:	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	:	Rapti River
32	Number of Drains/Nallah for Wastewater Disposal	:	:	8
33	Number of Water Bodies	:	:	48
34	Gross Area of Water Bodies (Hectare)	:	:	32.63
35	Area of Water Bodies as % of Total Area	:	:	<<< 1

GORAKHPUR



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 (lpd)		:	1000
14	Number of Pumping Stations for Water Supply		:	1
15	Total Pumping Capacity (MLD)		:	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

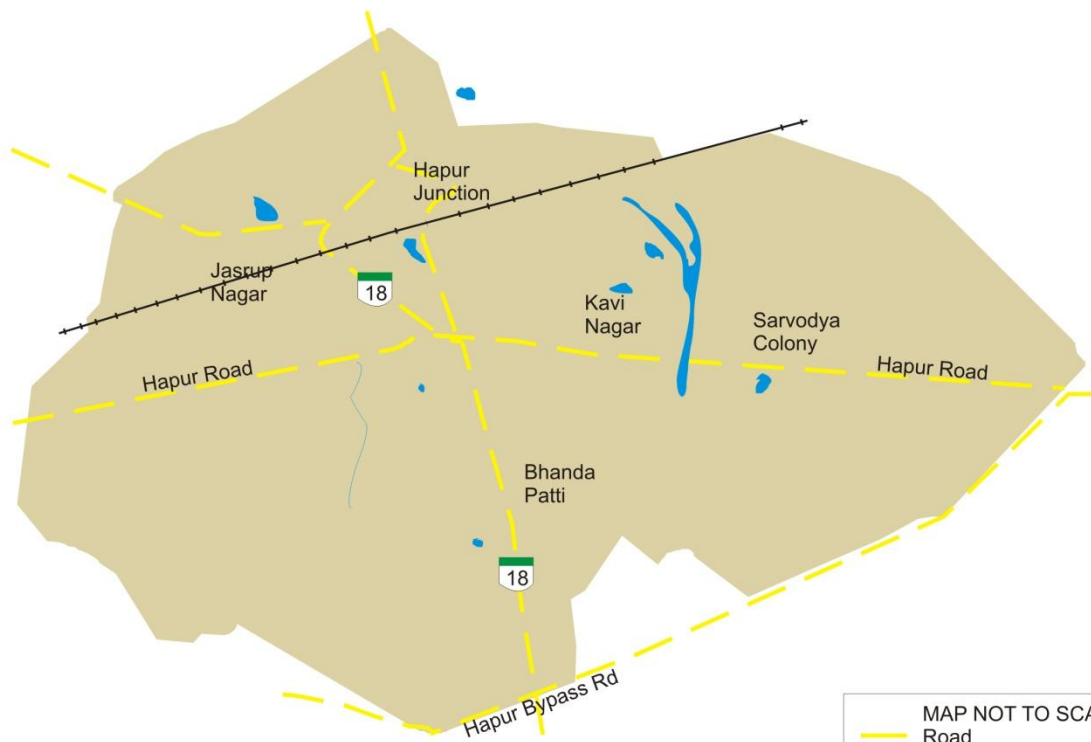
GREATER NOIDA



Water Balance & Pollution Load (Domestic) Data Sheet

City: Hapur		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	14.20
2	Population as in 2011		:	262983
3	Population Growth Rate as in 2011 (%)		:	24.06
4	Total Number of Wards		:	36
5	Population per Ward (Thousands)		:	7,305
6	Total Number of Household as in 2011		:	45356
7	Number of Household per Ward		:	1260
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	24.00
10	Number of Bore Wells		:	18
11	Ground Water Extraction per Bore Well (MLD)		:	1.33
12	Number of Hand Pumps/ Tubewells		:	932
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)		:	91.30
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	24.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	93.00
19	Total Sewage Generation (MLD)*		:	22.90
20	Per Capita Sewage Generation (lpcd)		:	87.00
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	:	7100.50
		COD	:	12070.90
		TKN	:	1420.10
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Kali 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

HAPUR



Water Balance & Pollution Load (Domestic) Data Sheet

City: Hardoi		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	6.42
2	Population as in 2001		:	197029
3	Population Growth Rate as in 2001 (%)		:	75.16
4	Total Number of Wards		:	26
5	Population per Ward (Thousands)		:	7,578
6	Total Number of Household as in 2001		:	34312
7	Number of Household per Ward		:	1320
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	7.5
10	Number of Bore Wells		:	13
11	Ground Water Extraction per Bore Well (MLD)		:	0.58
12	Number of Hand Pumps		:	889
13	Ground Water Extraction per Hand Pump (lpd)		:	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)		:	59.00
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	7.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	40.30
19	Total Sewage Generation (MLD)		:	2.20
20	Per Capita Sewage Generation (lpcd)		:	30.50
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	:	5319.80
		COD	:	9043.60
		TKN	:	1064.00
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Sai River
32	Number of Drains/Nallah for Wastewater Disposal		:	4
33	Number of Water Bodies		:	13
34	Gross Area of Water Bodies (sq km)		:	4.20
35	Area of Water Bodies as % of Total Area		:	<<<1

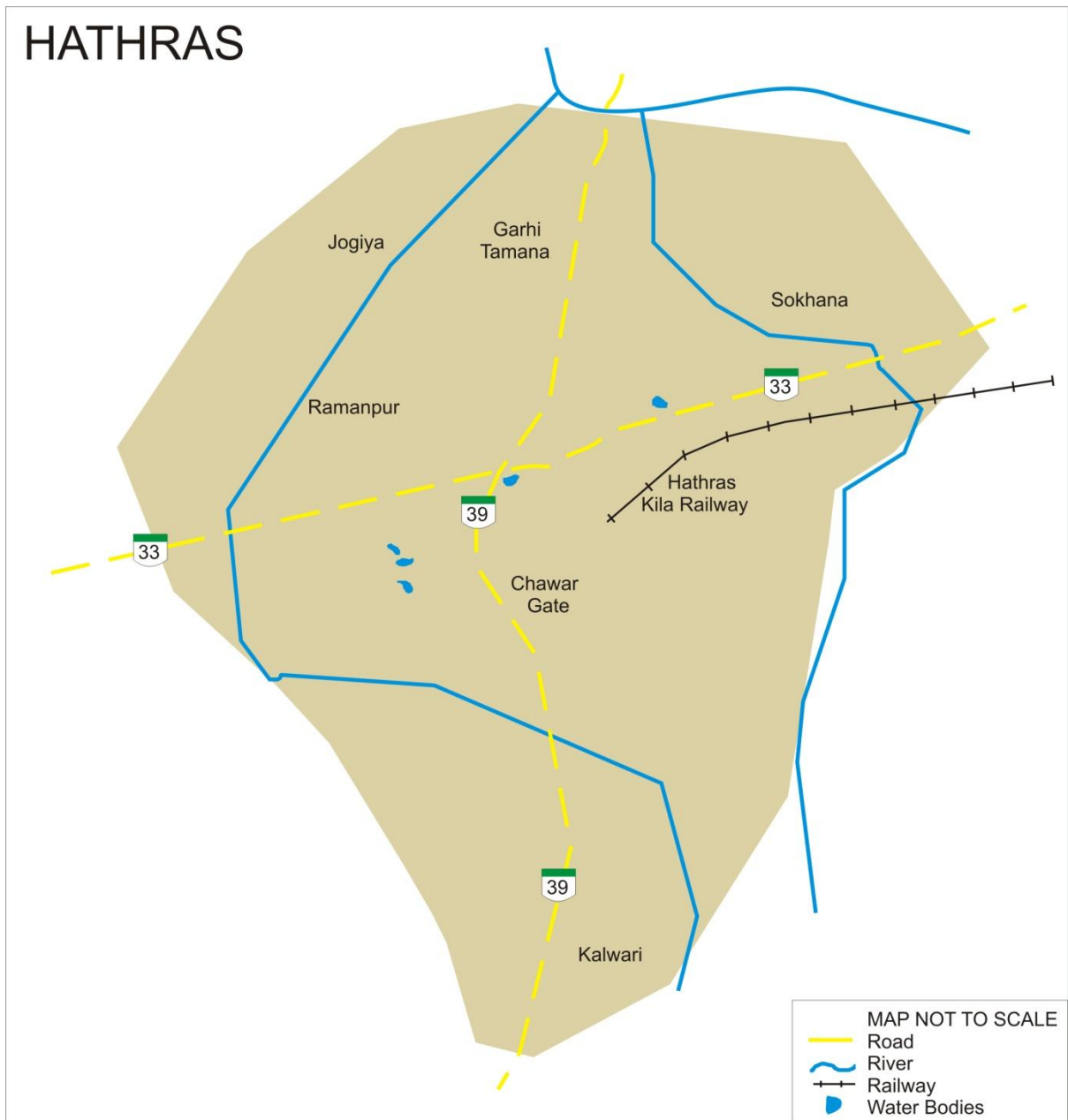
HARDOI



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

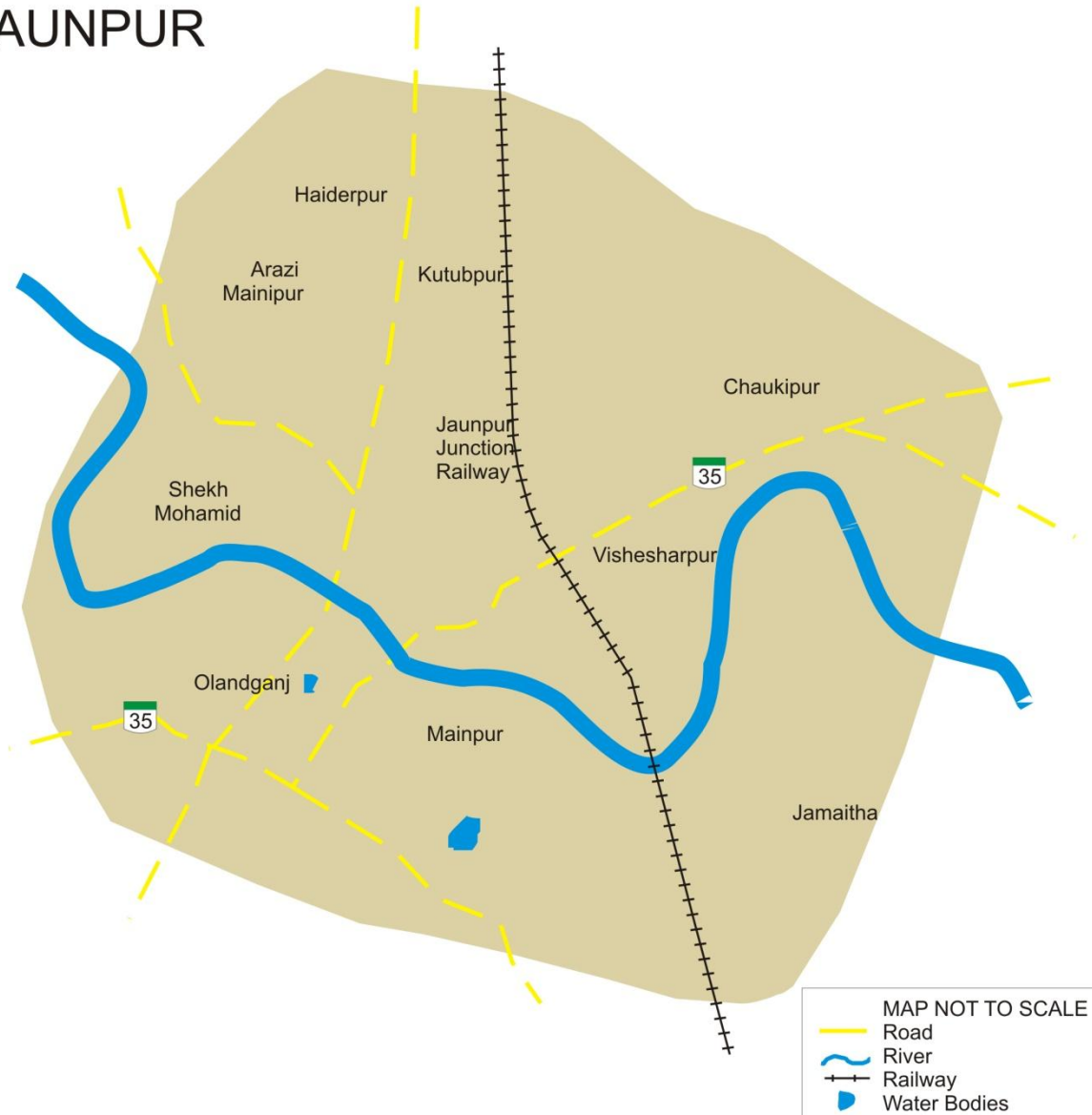
HATHRAS



Water Balance & Pollution Load (Domestic) Data Sheet

City: Jaunpur		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	25.30
2	Population as in 2011		:	180362
3	Population Growth Rate as in 2011 (%)		:	12.69
4	Total Number of Wards		:	31
5	Population per Ward (Thousands)		:	5,818
6	Total Number of Household as in 2011		:	26216
7	Number of Household per Ward		:	846
8	Surface Water Supply (MLD)		:	5.40
9	Ground Water (GW) Supply (MLD)		:	11
10	Number of Bore Wells		:	25
11	Ground Water Extraction per Bore Well (MLD)		:	0.44
12	Number of Hand Pumps/ Tubewells		:	844
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)		:	90.93
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	16.80
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	93.30
19	Total Sewage Generation (MLD)*		:	15.30
20	Per Capita Sewage Generation (lpcd)		:	84.70
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	:	4869.80
		COD	:	8278.60
		TKN	:	974.00
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Gomati River
32	Number of Drains/Nallah for Wastewater Disposal		:	9
33	Number of Water Bodies		:	3
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	<<< 1

JAUNPUR



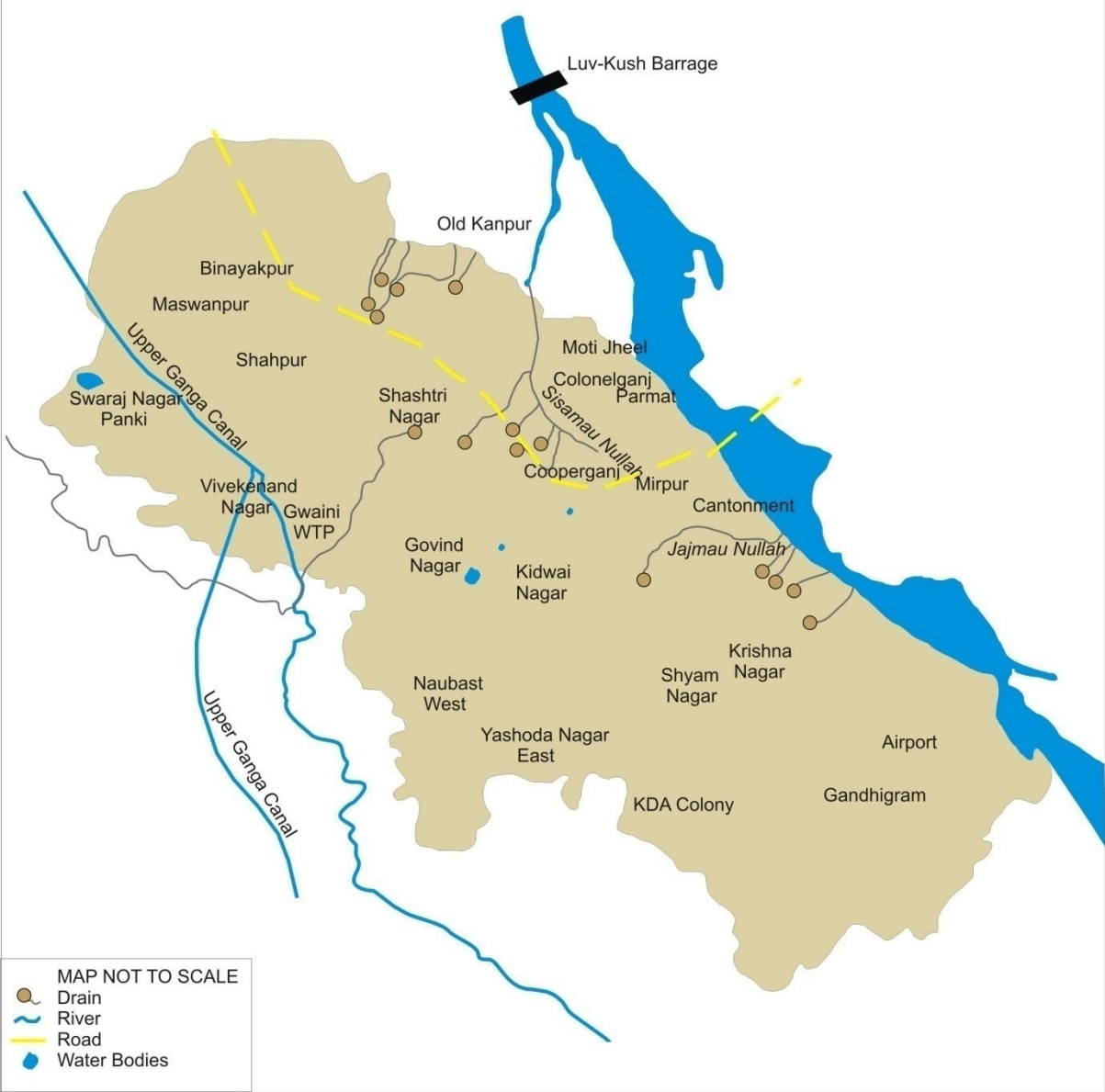
Water Balance & Pollution Load (Domestic) Data Sheet

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
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: Kanpur		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	266.74
2	Population as in 2011	:	27,68,057
3	Population Growth Rate as in 2011 (%)	:	22.1
4	Total Number of Wards	:	110
5	Population per Ward (Thousands)	:	28314
6	Total Number of Household as in 2011	:	4,69,562
7	Number of Household per Ward	:	4696
8	Surface Water Supply (MLD)	:	419
9	Ground Water (GW) Supply (MLD)	:	120
10	Number of Bore Wells	:	165
11	Ground Water Extraction per Bore Well (MLD)	:	1.00
12	Number of Hand Pumps/ Tubewells	:	11,827
13	Ground Water Extraction per Hand Pump (lpcd)	:	500
14	Number of Pumping Stations for Water Supply	:	3
15	Total Pumping Capacity (MLD)	:	430
16	Average Water Supply Rate from ULB Sources (lpcd)	:	194.72
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	545.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	197.00
19	Total Sewage Generation (MLD)*	:	544.70
20	Per Capita Sewage Generation (lpcd)	:	175.00
21	Sewage Collection (MLD)	:	107.70
22	Percentage of Sewage Collection (%)	:	19.80
23	Number of STPs	:	3
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	171
25	Current Utilized Capacity of STPs (MLD)	:	107.70
26	Percentage Utilization of Installed Capacity (%)	:	63
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	310
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: 233416.00
		COD	: 534051.50
		TKN	: 39606.70
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 74737.539
		COD	: 127053.82
		TKN	: 14947.5
30	Wastewater Disposal Means	:	River & Land
31	Name of River/Streams for Wastewater Disposal	:	Ganga & Pandu River
32	Number of Drains/Nallah for Wastewater Disposal	:	23
33	Number of Water Bodies	:	One (Motijheel)
34	Gross Area of Water Bodies (sq km)	:	0.0162 (4 acre)
35	Area of Water Bodies as % of Total Area	:	<<1.0

KANPUR



Water Balance & Pollution Load (Domestic) Data Sheet

City: Kasganj		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	7.54
2	Population as in 2011	:	101277
3	Population Growth Rate as in 2011 (%)	:	9.44
4	Total Number of Wards	:	30
5	Population per Ward (Thousands)	:	3,376
6	Total Number of Household as in 2011	:	17899
7	Number of Household per Ward	:	597
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	8.30
10	Number of Bore Wells	:	14
11	Ground Water Extraction per Bore Well (MLD)	:	0.59
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)	:	82.00
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	8.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	83.70
19	Total Sewage Generation (MLD)*	:	1.40
20	Per Capita Sewage Generation (lpcd)	:	13.90
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	: 2734.50
		COD	: 4648.60
		TKN	: 546.90
30	Wastewater Disposal Means	:	Land&River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Kali River
32	Number of Drains/Nallah for Wastewater Disposal	:	4
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

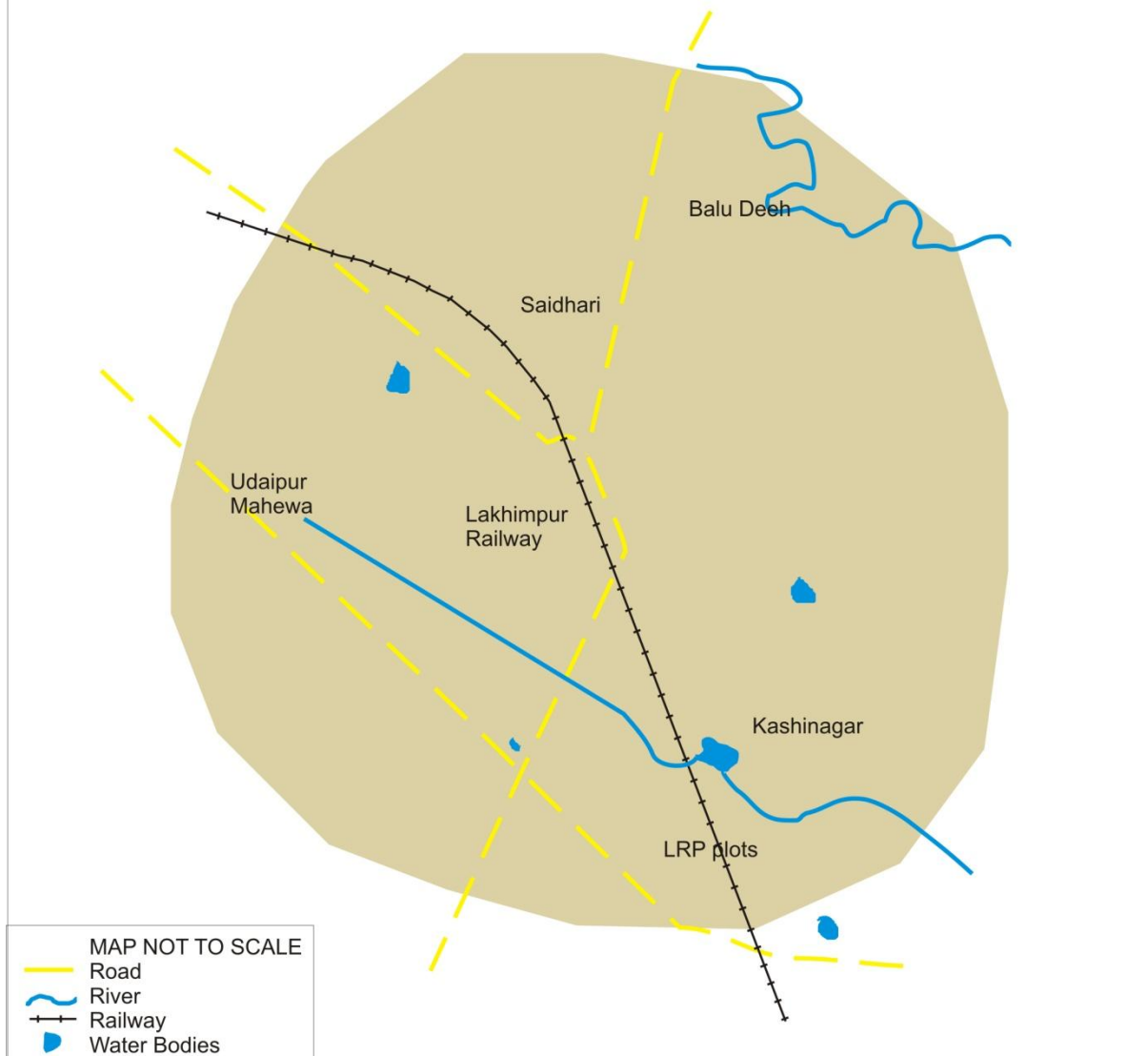
Water Balance & Pollution Load (Domestic) Data Sheet

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: Lakhimpur		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	10.00
2	Population as in 2011		:	151993
3	Population Growth Rate as in 2011 (%)		:	25.11
4	Total Number of Wards		:	27
5	Population per Ward (Thousands)		:	5,629
6	Total Number of Household as in 2011		:	28199
7	Number of Household per Ward		:	1044
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	15.00
10	Number of Bore Wells		:	20
11	Ground Water Extraction per Bore Well (MLD)		:	0.75
12	Number of Hand Pumps/ Tubewells		:	900
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)		:	98.69
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	15.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	101.60
19	Total Sewage Generation (MLD)*		:	22.20
20	Per Capita Sewage Generation (lpcd)		:	146.20
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	:	4103.80
		COD	:	6976.50
		TKN	:	820.80
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Ull River
32	Number of Drains/Nallah for Wastewater Disposal		:	1
33	Number of Water Bodies		:	9
34	Gross Area of Water Bodies (sq km)		:	6.30
35	Area of Water Bodies as % of Total Area		:	<<<1

LAKHIMPUR



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 (lpd)		:	500
14	Number of Pumping Stations for Water Supply		:	1
15	Total Pumping Capacity (MLD)		:	12.10
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

LALITPUR



Water Balance & Pollution Load (Domestic) Data Sheet

City: Loni		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	34.48
2	Population as in 2011		:	516082
3	Population Growth Rate as in 2011 (%)		:	326.71
4	Total Number of Wards		:	45
5	Population per Ward (Thousands)		:	11,468
6	Total Number of Household as in 2011		:	89634
7	Number of Household per Ward		:	1992
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	24.00
10	Number of Bore Wells		:	10
11	Ground Water Extraction per Bore Well (MLD)		:	2.40
12	Number of Hand Pumps/ Tubewells		:	1400
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	24.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	47.90
19	Total Sewage Generation (MLD)*		:	61.20
20	Per Capita Sewage Generation (lpcd)		:	118.60
21	Sewage Collection (MLD)		:	30.00
22	Percentage of Sewage Collection (%)		:	49.02
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 (%)		:	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	:	13934.20
		COD	:	23688.20
		TKN	:	2786.80
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: Lucknow			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		348.80
2	Population as in 2011	:		2817105
3	Population Growth Rate as in 2011 (%)	:		28.87
4	Total Number of Wards	:		110
5	Population per Ward (Thousands)	:		25,610
6	Total Number of Household as in 2011	:		538149
7	Number of Household per Ward	:		4892
8	Surface Water Supply (MLD)	:		105
9	Ground Water (GW) Supply (MLD)	:		360
10	Number of Bore Wells	:		628
11	Ground Water Extraction per Bore Well (MLD)	:		4.97
12	Number of Hand Pumps/ Tubewells	:		9936
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		19
15	Total Pumping Capacity (MLD)	:		105
16	Average Water Supply Rate from ULB Sources (lpcd)	:		165.06
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		470.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		166.80
19	Total Sewage Generation (MLD)	:		381.30
20	Per Capita Sewage Generation (lpcd)	:		135.30
21	Sewage Collection (MLD)	:		401.00
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		2
24	Total Installed Capacity of STPs under GAP & YAP I & II (MLD)	:		401
25	Current Utilized Capacity of STPs (MLD)	:		401
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	:	76061.80
		COD	:	129305.10
		TKN	:	15212.40
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Gomati River
32	Number of Drains/Nallah for Wastewater Disposal	:		23
33	Number of Water Bodies	:		924
34	Gross Area of Water Bodies (Hectare)	:		286.88
35	Area of Water Bodies as % of Total Area	:		<<< 1

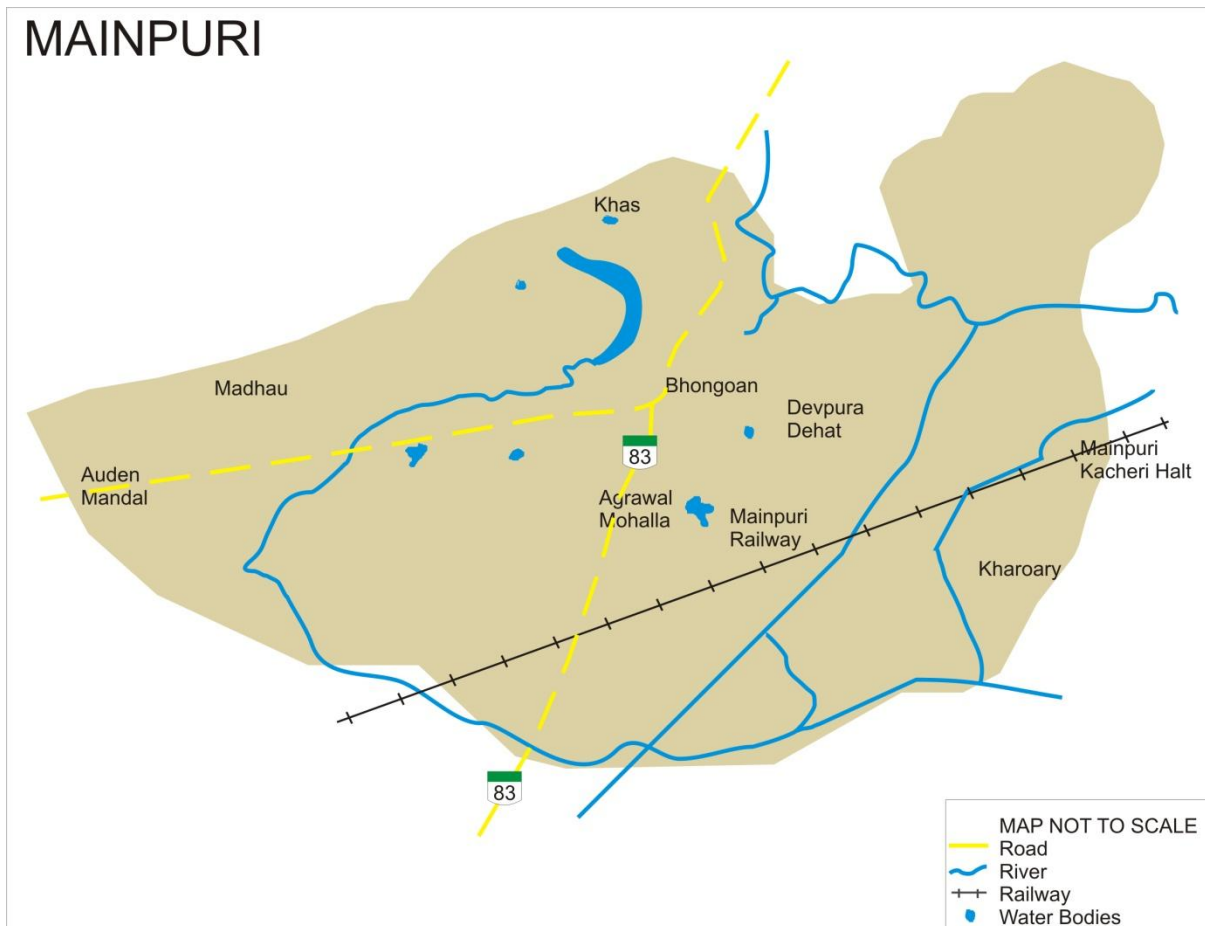
LUCKNOW



Water Balance & Pollution Load (Domestic) Data Sheet

City: Mainpuri			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	7.00
2	Population as in 2001		:	136557
3	Population Growth Rate as in 2001 (%)		:	9.30
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	4,194
6	Total Number of Household as in 2001		:	24498
7	Number of Household per Ward		:	980
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	8.05
10	Number of Bore Wells		:	21
11	Ground Water Extraction per Bore Well (MLD)		:	0.46
12	Number of Hand Pumps/ Tubewells		:	928
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)		:	58.95
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	8.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	62.30
19	Total Sewage Generation (MLD)		:	22.20
20	Per Capita Sewage Generation (lpcd)		:	162.40
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	:	3687.00
		COD	:	6268.00
		TKN	:	737.40
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Ishan River
32	Number of Drains/Nallah for Wastewater Disposal		:	2
33	Number of Water Bodies		:	4
34	Gross Area of Water Bodies (Hectare)		:	106.00
35	Area of Water Bodies as % of Total Area		:	<< 1

MAINPURI



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: Mau		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	39.00
2	Population as in 2011/2001		:	278745
3	Population Growth Rate as in 2011 (%)		:	31.08
4	Total Number of Wards		:	36
5	Population per Ward (Thousands)		:	7751
6	Total Number of Household as in 2011		:	41,078
7	Number of Household per Ward		:	1141
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	13.00
10	Number of Bore Wells		:	44
11	Ground Water Extraction per Bore Well (MLD)		:	0.30
12	Number of Hand Pumps/ Tubewells		:	652
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)		:	46.64
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	13.33
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	47.81
19	Total Sewage Generation (MLD)*		:	18.07
20	Per Capita Sewage Generation (lpcd)		:	81.34
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	:	7526.12
		COD	:	12794.40
		TKN	:	1505.20
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Tauns/Tamsa River
32	Number of Drains/Nallah for Wastewater Disposal		:	10
33	Number of Water Bodies		:	111
34	Gross Area of Water Bodies (Hectare)		:	0.30
35	Area of Water Bodies as % of Total Area		:	<<1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Meerut			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:	:	141.94
2	Population as in 2011	:	:	1305429
3	Population Growth Rate as in 2011 (%)	:	:	22.14
4	Total Number of Wards	:	:	80
5	Population per Ward (Thousands)	:	:	16,318
6	Total Number of Household as in 2011	:	:	232144
7	Number of Household per Ward	:	:	2902
8	Surface Water Supply (MLD)	:	:	NA
9	Ground Water (GW) Supply (MLD)	:	:	150.00
10	Number of Bore Wells	:	:	122
11	Ground Water Extraction per Bore Well (MLD)	:	:	1.23
12	Number of Hand Pumps/ Tubewells	:	:	7500
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)	:	:	114.90
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	:	153.80
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	:	117.80
19	Total Sewage Generation (MLD)*	:	:	150.40
20	Per Capita Sewage Generation (lpcd)	:	:	115.20
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	:	35246.60
		COD	:	59919.20
		TKN	:	7049.30
30	Wastewater Disposal Means	:	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	:	Kali River
32	Number of Drains/Nallah for Wastewater Disposal	:	:	4
33	Number of Water Bodies	:	:	161
34	Gross Area of Water Bodies (Hectare)	:	:	43.04
35	Area of Water Bodies as % of Total Area	:	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Mirzapur-cum-Vindhyachal			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		38.85
2	Population as in 2011	:		234871
3	Population Growth Rate as in 2011 (%)	:		14.54
4	Total Number of Wards	:		35
5	Population per Ward (Thousands)	:		6,711
6	Total Number of Household as in 2011	:		38185
7	Number of Household per Ward	:		1091
8	Surface Water Supply (MLD)	:		6.00
9	Ground Water (GW) Supply (MLD)	:		20.00
10	Number of Bore Wells	:		62
11	Ground Water Extraction per Bore Well (MLD)	:		0.32
12	Number of Hand Pumps/ Tubewells	:		1510
13	Ground Water Extraction per Hand Pump (lpcd)	:		500
14	Number of Pumping Stations for Water Supply	:		1
15	Total Pumping Capacity (MLD)	:		6.00
16	Average Water Supply Rate from ULB Sources (lpcd)	:		111.11
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		26.80
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		114.30
19	Total Sewage Generation (MLD)*	:		28.20
20	Per Capita Sewage Generation (lpcd)	:		120.10
21	Sewage Collection (MLD)	:		14.00
22	Percentage of Sewage Collection (%)	:		50
23	Number of STPs	:		1
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		14
25	Current Utilized Capacity of STPs (MLD)	:		14
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	:	6341.50
		COD	:	10780.60
		TKN	:	1268.30
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Ganga River
32	Number of Drains/Nallah for Wastewater Disposal	:		13
33	Number of Water Bodies	:		30
34	Gross Area of Water Bodies (Hectare)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Data Sheet

City: Modinagar		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	14.00
2	Population as in 2011		:	130325
3	Population Growth Rate as in 2011 (%)		:	15.11
4	Total Number of Wards		:	26
5	Population per Ward (Thousands)		:	5,013
6	Total Number of Household as in 2011		:	24777
7	Number of Household per Ward		:	953
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	12.00
10	Number of Bore Wells		:	17
11	Ground Water Extraction per Bore Well (MLD)		:	0.71
12	Number of Hand Pumps/ Tubewells		:	780
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)		:	92.08
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	12.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	95.10
19	Total Sewage Generation (MLD)*		:	93.40
20	Per Capita Sewage Generation (lpcd)*		:	716.40
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	:	3518.80
		COD	:	5981.90
		TKN	:	703.80
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: Moradabad			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		75.00
2	Population as in 2011	:		887871
3	Population Growth Rate as in 2011 (%)	:		38.39
4	Total Number of Wards	:		70
5	Population per Ward (Thousands)	:		12,684
6	Total Number of Household as in 2011	:		161329
7	Number of Household per Ward	:		2305
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		162.00
10	Number of Bore Wells	:		83
11	Ground Water Extraction per Bore Well (MLD)	:		1.95
12	Number of Hand Pumps/ Tubewells	:		4098
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)	:		182.50
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		164.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		184.80
19	Total Sewage Generation (MLD)*	:		103.50
20	Per Capita Sewage Generation (lpcd)	:		116.50
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	:	23972.50
		COD	:	40753.30
		TKN	:	4794.50
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Ramganga & Ganghan
32	Number of Drains/Nallah for Wastewater Disposal	:		7
33	Number of Water Bodies	:		71
34	Gross Area of Water Bodies (Hectare)	:		15.14
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

Mughalsarai		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	16.55
2	Population as in 2011/2001		:	109650
3	Population Growth Rate as in 2011 (%)		:	24.06
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	4386
6	Total Number of Household as in 2011		:	16,796
7	Number of Household per Ward		:	672
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	13.40
10	Number of Bore Wells		:	14
11	Ground Water Extraction per Bore Well (MLD)		:	0.96
12	Number of Hand Pumps/ Tubewells		:	312
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)		:	122.21
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	13.56
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	123.63
19	Total Sewage Generation (MLD)*		:	12.69
20	Per Capita Sewage Generation (lpcd)		:	115.73
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	:	2960.55
		COD	:	5032.94
		TKN	:	592.11
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Ganga River
32	Number of Drains/Nallah for Wastewater Disposal		:	3
33	Number of Water Bodies		:	4
34	Gross Area of Water Bodies (Hectare)		:	NA
35	Area of Water Bodies as % of Total Area		:	NA

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: Noida			State: Uttar Pradesh	
S. No.	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. No.	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	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD	:	5145.525
		COD	:	8747.3925
		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: Pilibhit			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	9.97
2	Population as in 2011		:	127988
3	Population Growth Rate as in 2011 (%)		:	3.01
4	Total Number of Wards		:	27
5	Population per Ward (Thousands)		:	4,602
6	Total Number of Household as in 2011		:	24341
7	Number of Household per Ward		:	902
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	13.05
10	Number of Bore Wells		:	9
11	Ground Water Extraction per Bore Well (MLD)		:	1.45
12	Number of Hand Pumps/ Tubewells		:	382
13	Ground Water Extraction per Hand Pump (lpcd)		:	500
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	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)		:	103.50
19	Total Sewage Generation (MLD)*		:	34.70
20	Per Capita Sewage Generation (lpcd)		:	271.30
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	:	3455.70
		COD	:	5874.60
		TKN	:	691.10
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Devha River
32	Number of Drains/Nallah for Wastewater Disposal		:	4
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: Raibareilly		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	50.12
2	Population as in 2011		:	191316
3	Population Growth Rate as in 2011 (%)		:	12.98
4	Total Number of Wards		:	31
5	Population per Ward (Thousands)		:	6,171
6	Total Number of Household as in 2011		:	35197
7	Number of Household per Ward		:	1135
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	20.64
10	Number of Bore Wells		:	37
11	Ground Water Extraction per Bore Well (MLD)		:	1.70
12	Number of Hand Pumps		:	3400
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)		:	107.88
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	22.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	116.80
19	Total Sewage Generation (MLD)*		:	4.10
20	Per Capita Sewage Generation (lpcd)		:	21.30
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	:	5165.50
		COD	:	8781.40
		TKN	:	1033.10
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Sai River
32	Number of Drains/Nallah for Wastewater Disposal		:	1
33	Number of Water Bodies		:	179
34	Gross Area of Water Bodies (Hectare)		:	92.74
35	Area of Water Bodies as % of Total Area		:	>> 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Rampur		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		20.20
2	Population as in 2011	:		325313
3	Population Growth Rate as in 2011 (%)	:		15.57
4	Total Number of Wards	:		43
5	Population per Ward (Thousands)	:		6,546
6	Total Number of Household as in 2011	:		58981
7	Number of Household per Ward	:		1372
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		54.00
10	Number of Bore Wells	:		26
11	Ground Water Extraction per Bore Well (MLD)	:		2.08
12	Number of Hand Pumps/ Tubewells	:		1222
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)	:		165.99
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		54.60
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		167.90
19	Total Sewage Generation (MLD)*	:		68.60
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 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	:	8783.50
		COD	:	14931.90
		TKN	:	1756.70
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Koshi 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: 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: Sambhal		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	15.65
2	Population as in 2011	:	220813
3	Population Growth Rate as in 2011 (%)	:	21.01
4	Total Number of Wards	:	33
5	Population per Ward (Thousands)	:	6,691
6	Total Number of Household as in 2011	:	34784
7	Number of Household per Ward	:	1054
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	14.40
10	Number of Bore Wells	:	12
11	Ground Water Extraction per Bore Well (MLD)	:	1.20
12	Number of Hand Pumps/ Tubewells	:	385
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)	:	65.21
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	14.60
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	66.10
19	Total Sewage Generation (MLD)*	:	5.60
20	Per Capita Sewage Generation (lpcd)	:	25.50
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	: 5962.00
		COD	: 10135.30
		TKN	: 1192.40
30	Wastewater Disposal Means	:	Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Land
32	Number of Drains/Nallah for Wastewater Disposal	:	4
33	Number of Water Bodies	:	10
34	Gross Area of Water Bodies (Hectare)	:	13.30
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Shahjahanpur		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	11.37
2	Population as in 2011	:	329736
3	Population Growth Rate as in 2011 (%)	:	9.40
4	Total Number of Wards	:	44
5	Population per Ward (Thousands)	:	6,850
6	Total Number of Household as in 2011	:	57931
7	Number of Household per Ward	:	1317
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	52.00
10	Number of Bore Wells	:	19
11	Ground Water Extraction per Bore Well (MLD)	:	2.74
12	Number of Hand Pumps/ Tubewells	:	2500
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)	:	157.70
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	53.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	161.50
19	Total Sewage Generation (MLD)*	:	80.90
20	Per Capita Sewage Generation (lpcd)	:	245.30
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	: 8902.90
		COD	: 15134.90
		TKN	: 1780.60
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Khanaut&Garra River
32	Number of Drains/Nallah for Wastewater Disposal	:	9
33	Number of Water Bodies	:	1
34	Gross Area of Water Bodies (Hectare)	:	1.25
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: Sitapur		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	35.00
2	Population as in 2011		:	177234
3	Population Growth Rate as in 2011 (%)		:	16.67
4	Total Number of Wards		:	30
5	Population per Ward (Thousands)		:	5,908
6	Total Number of Household as in 2011		:	30792
7	Number of Household per Ward		:	1026
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	21.08
10	Number of Bore Wells		:	27
11	Ground Water Extraction per Bore Well (MLD)		:	0.36
12	Number of Hand Pumps/ Tubewells		:	719
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)		:	118.90
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	21.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	121.00
19	Total Sewage Generation (MLD)*		:	5.00
20	Per Capita Sewage Generation (lpcd)		:	28.30
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	:	4785.30
		COD	:	8135.00
		TKN	:	957.10
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Sarayan River
32	Number of Drains/Nallah for Wastewater Disposal		:	6
33	Number of Water Bodies		:	6
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: Sultanpur		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	12.00
2	Population as in 2011	:	107640
3	Population Growth Rate as in 2011 (%)	:	7.57
4	Total Number of Wards	:	25
5	Population per Ward (Thousands)	:	4,306
6	Total Number of Household as in 2011	:	17954
7	Number of Household per Ward	:	718
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	9.00
10	Number of Bore Wells	:	22
11	Ground Water Extraction per Bore Well (MLD)	:	0.36
12	Number of Hand Pumps	:	710
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)	:	83.61
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	9.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	86.90
19	Total Sewage Generation (MLD)	:	0.00
20	Per Capita Sewage Generation (lpcd)	:	86.70
21	Sewage Collection (MLD)	:	5.00
22	Percentage of Sewage Collection (%)	:	53.20
23	Number of STPs	:	1
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	5
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	: 2906.30
		COD	: 4940.70
		TKN	: 581.30
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Gomati River
32	Number of Drains/Nallah for Wastewater Disposal	:	4
33	Number of Water Bodies	:	1
34	Gross Area of Water Bodies (Hectare)	:	0.12
35	Area of Water Bodies as % of Total Area	:	<< 1.0

Water Balance & Pollution Load (Domestic) Data Sheet

City: Unnao			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	21.50
2	Population as in 2011/2001		:	177658
3	Population Growth Rate as in 2011 (%)		:	NA
4	Total Number of Wards		:	29
5	Population per Ward (Thousands)		:	4,988
6	Total Number of Household as in 2011		:	33273
7	Number of Household per Ward		:	1147
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	11.00
10	Number of Bore Wells		:	21
11	Ground Water Extraction per Bore Well (MLD)		:	0.25
12	Number of Hand Pumps/ Tubewells		:	1000
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)		:	61.92
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	11.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	64.70
19	Total Sewage Generation (MLD)*		:	5.00
20	Per Capita Sewage Generation (lpcd)		:	28.00
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	:	4796.80
		COD	:	8154.50
		TKN	:	959.40
30	Wastewater Disposal Means		:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Ganga River
32	Number of Drains/Nallah for Wastewater Disposal		:	5
33	Number of Water Bodies		:	3
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: Varanasi			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	82.10
2	Population as in 2011/2001		:	1198491
3	Population Growth Rate as in 2011 (%)		:	8.56
4	Total Number of Wards		:	91
5	Population per Ward (Thousands)		:	13170
6	Total Number of Household as in 2011		:	190835
7	Number of Household per Ward		:	2097
8	Surface Water Supply (MLD)		:	125.00
9	Ground Water (GW) Supply (MLD)		:	201.00
10	Number of Bore Wells		:	141
11	Ground Water Extraction per Bore Well (MLD)		:	1.43
12	Number of Hand Pumps/ Tubewells		:	2358
13	Ground Water Extraction per Hand Pump (lpd)		:	500
14	Number of Pumping Stations for Water Supply		:	1
15	Total Pumping Capacity (MLD)		:	125
16	Average Water Supply Rate from ULB Sources (lpcd)		:	272.01
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	327.20
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	273.00
19	Total Sewage Generation (MLD)*		:	318.00
20	Per Capita Sewage Generation (lpcd)		:	265.30
21	Sewage Collection (MLD)		:	100.00
22	Percentage of Sewage Collection (%)		:	31.45
23	Number of STPs		:	3
24	Total Installed Capacity of STPs under GAP I & II (MLD)		:	88
25	Current Utilized Capacity of STPs (MLD)		:	88
26	Percentage Utilization of Installed Capacity (%)		:	100
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)		:	120
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	:	32359.30
		COD	:	55010.70
		TKN	:	6471.90
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Ganga & Varuna River
32	Number of Drains/Nallah for Wastewater Disposal		:	35
33	Number of Water Bodies		:	138
34	Gross Area of Water Bodies (Hectare)		:	43.34
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 Cities/Towns in Uttar Pradesh

Water Balance & Pollution Load (Domestic) Data Sheet

City: Aonla		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	15.00
2	Population as in 2011		:	55629
3	Population Growth Rate as in 2011 (%)		:	22.89
4	Total Number of Wards		:	26
5	Population per Ward (Thousands)		:	2,140
6	Total Number of Household as in 2011		:	9103
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)		:	7.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	135.00
19	Total Sewage Generation (MLD)*		:	6.00
20	Per Capita Sewage Generation (lpcd)		:	88.20
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	:	1502.00
		COD	:	2553.40
		TKN	:	300.40
30	Wastewater Disposal Means		:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Ramganga 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: Atrauli		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	16.25
2	Population as in 2011		:	50412
3	Population Growth Rate as in 2011 (%)		:	15.24
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	2,016
6	Total Number of Household as in 2011		:	8093
7	Number of Household per Ward		:	324
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	:	1361.10
		COD	:	2313.90
		TKN	:	272.20
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: 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 (lpd)	:	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	: 473.80
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: Ayodhya		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		10.24
2	Population as in 2011	:		55890
3	Population Growth Rate as in 2011 (%)	:		13.10
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		2,236
6	Total Number of Household as in 2011	:		10026
7	Number of Household per Ward	:		401
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)	:		7.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		6.00
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	:	1509.00
		COD	:	2565.40
		TKN	:	301.80
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Ghaghara 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: 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	:	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: Baheri		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		5.98
2	Population as in 2011	:		68413
3	Population Growth Rate as in 2011 (%)	:		16.96
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		2,737
6	Total Number of Household as in 2011	:		11182
7	Number of Household per Ward	:		447
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)	:		9.20
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.00
19	Total Sewage Generation (MLD)*	:		8.90
20	Per Capita Sewage Generation (lpcd)	:		129.80
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	:	1847.20
		COD	:	3140.20
		TKN	:	369.40
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Gaula 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: Balrampur			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	36.28
2	Population as in 2011		:	82488
3	Population Growth Rate as in 2011 (%)		:	13.77
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	3,300
6	Total Number of Household as in 2011		:	12638
7	Number of Household per Ward		:	506
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	7.40
10	Number of Bore Wells		:	9
11	Ground Water Extraction per Bore Well (MLD)		:	0.82
12	Number of Hand Pumps/ Tubewells		:	272
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)		:	89.71
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	7.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	91.40
19	Total Sewage Generation (MLD)*		:	6.70
20	Per Capita Sewage Generation (lpcd)		:	81.70
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	:	2227.20
		COD	:	3786.20
		TKN	:	445.40
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Rapti River
32	Number of Drains/Nallah for Wastewater Disposal		:	1
33	Number of Water Bodies		:	3
34	Gross Area of Water Bodies (Hectare)		:	6.30
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet				
City: Bela Pratapgarh			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	12.00
2	Population as in 2011		:	76133
3	Population Growth Rate as in 2011 (%)		:	5.74
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	3,045
6	Total Number of Household as in 2011		:	12484
7	Number of Household per Ward		:	499
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	10.82
10	Number of Bore Wells		:	11
11	Ground Water Extraction per Bore Well (MLD)		:	0.98
12	Number of Hand Pumps		:	670
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)		:	140.98
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	11.20
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	145.30
19	Total Sewage Generation (MLD)		:	7.10
20	Per Capita Sewage Generation (lpcd)		:	93.90
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	:	2055.60
		COD	:	3494.50
		TKN	:	411.10
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Sai River
32	Number of Drains/Nallah for Wastewater Disposal		:	4
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: Bhadohi			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	8.00
2	Population as in 2011		:	94620
3	Population Growth Rate as in 2011 (%)		:	26.97
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	3784
6	Total Number of Household as in 2011		:	13274
7	Number of Household per Ward		:	531
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	7.47
10	Number of Bore Wells		:	10
11	Ground Water Extraction per Bore Well (MLD)		:	0.75
12	Number of Hand Pumps/ Tubewells		:	255
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)		:	78.99
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	7.60
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	80.29
19	Total Sewage Generation (MLD)*		:	14.69
20	Per Capita Sewage Generation (lpcd)		:	155.23
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	:	2554.74
		COD	:	4343.05
		TKN	:	510.95
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Varuna River
32	Number of Drains/Nallah for Wastewater Disposal		:	1
33	Number of Water Bodies		:	4
34	Gross Area of Water Bodies (Hectare)		:	4.33
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Bijnor		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	3.65
2	Population as in 2011		:	93297
3	Population Growth Rate as in 2011 (%)		:	17.58
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	3,732
6	Total Number of Household as in 2011		:	17715
7	Number of Household per Ward		:	709
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	16.32
10	Number of Bore Wells		:	20
11	Ground Water Extraction per Bore Well (MLD)		:	0.82
12	Number of Hand Pumps/ Tubewells		:	309
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)		:	174.93
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	16.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	176.60
19	Total Sewage Generation (MLD)*		:	2.10
20	Per Capita Sewage Generation (lpcd)		:	22.90
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	:	2519.00
		COD	:	4282.30
		TKN	:	503.80
30	Wastewater Disposal Means		:	Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Land
32	Number of Drains/Nallah for Wastewater Disposal		:	4
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: Bisalpur		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		3.00
2	Population as in 2011	:		73551
3	Population Growth Rate as in 2011 (%)	:		21.21
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		2,942
6	Total Number of Household as in 2011	:		12624
7	Number of Household per Ward	:		505
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		1.40
10	Number of Bore Wells	:		2
11	Ground Water Extraction per Bore Well (MLD)	:		0.70
12	Number of Hand Pumps/ Tubewells	:		173
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)	:		19.03
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		1.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		20.20
19	Total Sewage Generation (MLD)*	:		4.40
20	Per Capita Sewage Generation (lpcd)	:		59.60
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	:	1985.90
		COD	:	3376.00
		TKN	:	397.20
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Katna&Devha River
32	Number of Drains/Nallah for Wastewater Disposal	:		3
33	Number of Water Bodies	:		12
34	Gross Area of Water Bodies (Hectare)	:		0.99
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Biswan		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	7.77
2	Population as in 2011		:	55780
3	Population Growth Rate as in 2011 (%)		:	15.64
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	2,231
6	Total Number of Household as in 2011		:	8754
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)		:	7.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	135.00
19	Total Sewage Generation (MLD)*		:	6.00
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	:	1506.10
		COD	:	2560.30
		TKN	:	301.20
30	Wastewater Disposal Means		:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Ull 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: 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: Chandpur		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	23.40
2	Population as in 2011		:	83441
3	Population Growth Rate as in 2011 (%)		:	22.19
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	3,338
6	Total Number of Household as in 2011		:	13670
7	Number of Household per Ward		:	547
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	0.57
10	Number of Bore Wells		:	4
11	Ground Water Extraction per Bore Well (MLD)		:	0.14
12	Number of Hand Pumps/ Tubewells		:	138
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)		:	6.81
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	0.60
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	7.60
19	Total Sewage Generation (MLD)*		:	6.30
20	Per Capita Sewage Generation (lpcd)		:	75.30
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	:	2252.90
		COD	:	3829.90
		TKN	:	450.60
30	Wastewater Disposal Means		:	River and Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Ganga River
32	Number of Drains/Nallah for Wastewater Disposal		:	9
33	Number of Water Bodies		:	5
34	Gross Area of Water Bodies (Hectare)		:	1.75
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Chibramau		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	11.00
2	Population as in 2011		:	60986
3	Population Growth Rate as in 2011 (%)		:	21.32
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	2,011
6	Total Number of Household as in 2011		:	10363
7	Number of Household per Ward		:	415
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	4.12
10	Number of Bore Wells		:	13
11	Ground Water Extraction per Bore Well (MLD)		:	0.32
12	Number of Hand Pumps/ Tubewells		:	599
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)		:	67.56
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	4.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	72.50
19	Total Sewage Generation (MLD)*		:	3.90
20	Per Capita Sewage Generation (lpcd)		:	63.80
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	:	1646.6
		COD	:	2799.3
		TKN	:	329.3
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)		:	2.51
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Chitrakoot		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: 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: 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: Dhampur		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	3.87
2	Population as in 2011	:	50997
3	Population Growth Rate as in 2011 (%)	:	8.81
4	Total Number of Wards	:	26
5	Population per Ward (Thousands)	:	1,961
6	Total Number of Household as in 2011	:	9659
7	Number of Household per Ward	:	372
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	: 1376.90
		COD	: 2340.80
		TKN	: 275.40
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Khoh 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: Faridpur		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		9.43
2	Population as in 2011	:		78249
3	Population Growth Rate as in 2011 (%)	:		27.99
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		3,130
6	Total Number of Household as in 2011	:		12928
7	Number of Household per Ward	:		517
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		1.00
10	Number of Bore Wells	:		2
11	Ground Water Extraction per Bore Well (MLD)	:		0.50
12	Number of Hand Pumps/ Tubewells	:		120
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)	:		12.78
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		1.10
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		13.50
19	Total Sewage Generation (MLD)*	:		2.90
20	Per Capita Sewage Generation (lpcd)	:		37.30
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	:	2112.70
		COD	:	3591.60
		TKN	:	422.50
30	Wastewater Disposal Means	:		Land&River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Ramganga River
32	Number of Drains/Nallah for Wastewater Disposal	:		3
33	Number of Water Bodies	:		7
34	Gross Area of Water Bodies (Hectare)	:		6.96
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Gajraula		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		14.20
2	Population as in 2011	:		55048
3	Population Growth Rate as in 2011 (%)	:		38.35
4	Total Number of Wards	:		18
5	Population per Ward (Thousands)	:		3,058
6	Total Number of Household as in 2011	:		10574
7	Number of Household per Ward	:		587
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	:	1486.30
		COD	:	2526.70
		TKN	:	297.30
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Ganga 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: Gangaghat		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		4.91
2	Population as in 2011	:		84072
3	Population Growth Rate as in 2011 (%)	:		18.74
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		3,363
6	Total Number of Household as in 2011	:		17210
7	Number of Household per Ward	:		688
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		1.27
10	Number of Bore Wells	:		3
11	Ground Water Extraction per Bore Well (MLD)	:		0.42
12	Number of Hand Pumps/ Tubewells	:		271
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)	:		15.07
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		1.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		16.70
19	Total Sewage Generation (MLD)*	:		6.30
20	Per Capita Sewage Generation (lpcd)	:		74.80
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	:	2269.90
		COD	:	3858.90
		TKN	:	454.00
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Ganga 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: 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: GolaGokaran Nath		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		10.04
2	Population as in 2011	:		60172
3	Population Growth Rate as in 2011 (%)	:		11.76
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		2,154
6	Total Number of Household as in 2011	:		11087
7	Number of Household per Ward	:		443
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		4.80
10	Number of Bore Wells	:		4
11	Ground Water Extraction per Bore Well (MLD)	:		1.20
12	Number of Hand Pumps/ Tubewells	:		158
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)	:		89.14
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		4.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		90.60
19	Total Sewage Generation (MLD)*	:		5.20
20	Per Capita Sewage Generation (lpcd)	:		86.20
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	:	1624.60
		COD	:	2761.90
		TKN	:	324.90
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Gomati River
32	Number of Drains/Nallah for Wastewater Disposal	:		1
33	Number of Water Bodies	:		4
34	Gross Area of Water Bodies (Hectare)	:		15.00
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Gulaothi		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	2.23
2	Population as in 2011		:	50823
3	Population Growth Rate as in 2011 (%)		:	18.46
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	2,033
6	Total Number of Household as in 2011		:	7855
7	Number of Household per Ward		:	314
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	:	1372.20
		COD	:	2332.80
		TKN	:	274.40
30	Wastewater Disposal Means		:	River & Land 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: Hasanpur		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	5.72
2	Population as in 2011		:	61243
3	Population Growth Rate as in 2011 (%)		:	14.85
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	2,450
6	Total Number of Household as in 2011		:	10177
7	Number of Household per Ward		:	407
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)		:	8.30
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)		:	106.80
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	:	1653.60
		COD	:	2811.10
		TKN	:	330.70
30	Wastewater Disposal Means		:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal		:	Bagad River
32	Number of Drains/Nallah for Wastewater Disposal		:	9
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: Jahangirabad			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)	:		14.46
2	Population as in 2011	:		59858
3	Population Growth Rate as in 2011 (%)	:		16.47
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		2,394
6	Total Number of Household as in 2011	:		9767
7	Number of Household per Ward	:		391
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		4.20
10	Number of Bore Wells	:		4
11	Ground Water Extraction per Bore Well (MLD)	:		1.05
12	Number of Hand Pumps/ Tubewells	:		482
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)	:		70.15
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		4.40
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		74.20
19	Total Sewage Generation (MLD)*	:		5.30
20	Per Capita Sewage Generation (lpcd)	:		88.40
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	:	1616.20
		COD	:	2747.50
		TKN	:	323.20
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	:		4
34	Gross Area of Water Bodies (Hectare)	:		4.68
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: 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	:	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: Kannauj		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	14.90
2	Population as in 2001		:	84862
3	Population Growth Rate as in 2001 (%)		:	18.31
4	Total Number of Wards		:	30
5	Population per Ward (Thousands)		:	2,391
6	Total Number of Household as in 2001		:	14762
7	Number of Household per Ward		:	492
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	7.29
10	Number of Bore Wells		:	19
11	Ground Water Extraction per Bore Well (MLD)		:	0.38
12	Number of Hand Pumps/ Tubewells		:	8
13	Ground Water Extraction per Hand Pump (lpcd)		:	34800
14	Number of Pumping Stations for Water Supply		:	NA
15	Total Pumping Capacity (MLD)		:	NA
16	Average Water Supply Rate from ULB Sources (lpcd)		:	101.70
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	7.30
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)		:	101.80
19	Total Sewage Generation (MLD)*		:	3.30
20	Per Capita Sewage Generation (lpcd)		:	39.10
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)		:	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	:	2291.30
		COD	:	3895.20
		TKN	:	458.30
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		:	4
33	Number of Water Bodies		:	17
34	Gross Area of Water Bodies (sq km)		:	5.70
35	Area of Water Bodies as % of Total Area		:	<<<1

Water Balance & Pollution Load (Domestic) Data Sheet				
City: Khatauli			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	3.76
2	Population as in 2011		:	72949
3	Population Growth Rate as in 2011 (%)		:	24.44
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	2,918
6	Total Number of Household as in 2011		:	12741
7	Number of Household per Ward		:	510
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	6.10
10	Number of Bore Wells		:	4
11	Ground Water Extraction per Bore Well (MLD)		:	1.53
12	Number of Hand Pumps/ Tubewells		:	153
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)		:	84.16
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	6.20
18	Average Water Supply Rate from ULB & Non-ULB Sources		:	85.20
19	Total Sewage Generation (MLD)*		:	5.80
20	Per Capita Sewage Generation (lpcd)		:	79.90
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	:	1969.60
		COD	:	3348.40
		TKN	:	393.90
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Ganga 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: Kiratpur			State: Uttar Pradesh	
S. No.	Items			Value
1	Total Area (sq km)		:	6.45
2	Population as in 2011		:	61946
3	Population Growth Rate as in 2011 (%)		:	11.08
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	2,478
6	Total Number of Household as in 2011		:	10388
7	Number of Household per Ward		:	416
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	NA
10	Number of Bore Wells		:	7
11	Ground Water Extraction per Bore Well (MLD)		:	NA
12	Number of Hand Pumps/ Tubewells		:	288
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)		:	0.10
18	Average Water Supply Rate from ULB & Non-ULB Sources		:	132.00
19	Total Sewage Generation (MLD)*		:	11.60
20	Per Capita Sewage Generation (lpcd)		:	186.90
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	:	1672.50
		COD	:	2843.30
		TKN	:	334.50
30	Wastewater Disposal Means		:	Land & River
31	Name of River/Streams for Wastewater Disposal		:	Malan River
32	Number of Drains/Nallah for Wastewater Disposal		:	9
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: 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: Laharpur		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)		:	12.98
2	Population as in 2011		:	61990
3	Population Growth Rate as in 2011 (%)		:	23.75
4	Total Number of Wards		:	25
5	Population per Ward (Thousands)		:	2,480
6	Total Number of Household as in 2011		:	9027
7	Number of Household per Ward		:	361
8	Surface Water Supply (MLD)		:	NA
9	Ground Water (GW) Supply (MLD)		:	4.90
10	Number of Bore Wells		:	7
11	Ground Water Extraction per Bore Well (MLD)		:	0.70
12	Number of Hand Pumps/ Tubewells		:	480
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)		:	79.96
17	Total Water Supply from ULB and Non-ULB Sources (MLD)		:	5.10
18	Average Water Supply Rate from ULB & Non-ULB Sources		:	83.90
19	Total Sewage Generation (MLD)*		:	5.30
20	Per Capita Sewage Generation (lpcd)		:	85.30
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	:	1673.70
		COD	:	2845.30
		TKN	:	334.70
30	Wastewater Disposal Means		:	River Disposal
31	Name of River/Streams for Wastewater Disposal		:	Ull River
32	Number of Drains/Nallah for Wastewater Disposal		:	1
33	Number of Water Bodies		:	5
34	Gross Area of Water Bodies (Hectare)		:	8.00
35	Area of Water Bodies as % of Total Area		:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Mahmudabad		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		12.78
2	Population as in 2011	:		50777
3	Population Growth Rate as in 2011 (%)	:		21.13
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		2,031
6	Total Number of Household as in 2011	:		8116
7	Number of Household per Ward	:		325
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 (lpd)	:		NA
14	Number of Pumping Stations for Water Supply	:		NA
15	Total Pumping Capacity (MLD)	:		NA
16	Average Water Supply Rate from ULB Sources (lpd)	:		NA
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		6.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpd)	:		135.00
19	Total Sewage Generation (MLD)*	:		5.50
20	Per Capita Sewage Generation (lpd)	:		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	:	1371.00
		COD	:	2330.70
		TKN	:	274.20
30	Wastewater Disposal Means	:		River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Gomati 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: 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: 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: Mawana		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		7.50
2	Population as in 2011	:		81443
3	Population Growth Rate as in 2011 (%)	:		17.71
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		3,258
6	Total Number of Household as in 2011	:		13566
7	Number of Household per Ward	:		543
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		4.79
10	Number of Bore Wells	:		7
11	Ground Water Extraction per Bore Well (MLD)	:		0.68
12	Number of Hand Pumps/ Tubewells	:		146
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)	:		59.13
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		4.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		59.70
19	Total Sewage Generation (MLD)*	:		6.00
20	Per Capita Sewage Generation (lpcd)	:		73.40
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	:	2199.00
		COD	:	3738.20
		TKN	:	439.80
30	Wastewater Disposal Means	:		Land/ River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Ganga river
32	Number of Drains/Nallah for Wastewater Disposal	:		2
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: Mubarakpur		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		9.00
2	Population as in 2011	:		70463
3	Population Growth Rate as in 2011 (%)	:		23.85
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		2,819
6	Total Number of Household as in 2011	:		8709
7	Number of Household per Ward	:		348
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		0.93
10	Number of Bore Wells	:		5
11	Ground Water Extraction per Bore Well (MLD)	:		0.19
12	Number of Hand Pumps/ Tubewells	:		2180
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)	:		13.06
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		2.02
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		28.31
19	Total Sewage Generation (MLD)*	:		9.93
20	Per Capita Sewage Generation (lpcd)	:		140.98
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	:	1902.50
		COD	:	3234.30
		TKN	:	380.50
30	Wastewater Disposal Means	:		Land Disposal
31	Name of River/Streams for Wastewater Disposal	:		Land
32	Number of Drains/Nallah for Wastewater Disposal	:		5
33	Number of Water Bodies	:		1
34	Gross Area of Water Bodies (Hectare)	:		0.41
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: Nagina		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		10.30
2	Population as in 2001	:		95246
3	Population Growth Rate as in 2001 (%)	:		33.49
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		2,854
6	Total Number of Household as in 2011	:		13726
7	Number of Household per Ward	:		549
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		6.50
10	Number of Bore Wells	:		6
11	Ground Water Extraction per Bore Well (MLD)	:		1.08
12	Number of Hand Pumps/ Tubewells	:		230
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)	:		91.10
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		6.60
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		92.70
19	Total Sewage Generation (MLD)*	:		6.20
20	Per Capita Sewage Generation (lpcd)	:		65.30
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	:	2571.60
		COD	:	4371.80
		TKN	:	514.30
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Ramganga River
32	Number of Drains/Nallah for Wastewater Disposal	:		1
33	Number of Water Bodies	:		1
34	Gross Area of Water Bodies (Hectare)	:		2.30
35	Area of Water Bodies as % of Total Area	:		<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Najibabad		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		5.06
2	Population as in 2011	:		88535
3	Population Growth Rate as in 2011 (%)	:		12.03
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		3,541
6	Total Number of Household as in 2011	:		14984
7	Number of Household per Ward	:		599
8	Surface Water Supply (MLD)	:		NA
9	Ground Water (GW) Supply (MLD)	:		7.00
10	Number of Bore Wells	:		11
11	Ground Water Extraction per Bore Well (MLD)	:		0.64
12	Number of Hand Pumps/ Tubewells	:		275
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)	:		78.97
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		7.10
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		80.50
19	Total Sewage Generation (MLD)*	:		7.20
20	Per Capita Sewage Generation (lpcd)	:		81.30
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	:	2390.40
		COD	:	4063.80
		TKN	:	478.10
30	Wastewater Disposal Means	:		River Disposal
31	Name of River/Streams for Wastewater Disposal	:		Ganga River
32	Number of Drains/Nallah for Wastewater Disposal	:		1
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

Water Balance & Pollution Load (Domestic) Data Sheet

City: Nawabganj		State: Uttar Pradesh		
S.	Items			Value
1	Total Area (sq km)	:		3.63
2	Population as in 2011	:		81486

3	Population Growth Rate as in 2011 (%)	:	7.68
4	Total Number of Wards	:	28
5	Population per Ward (Thousands)	:	2,910
6	Total Number of Household as in 2011	:	13567
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)	:	11.00
18	Average Water Supply Rate from ULB & Non-ULB Sources	:	135.00
19	Total Sewage Generation (MLD)*	:	8.80
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	:	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	: 2200.10
		COD	: 3740.20
		TKN	: 440.00
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Ramganga 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: Pilkhuwa		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	5.30
2	Population as in 2011	:	83736

3	Population Growth Rate as in 2011 (%)	:	25.15
4	Total Number of Wards	:	25
5	Population per Ward (Thousands)	:	3,349
6	Total Number of Household as in 2011	:	13746
7	Number of Household per Ward	:	550
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	8.50
10	Number of Bore Wells	:	7
11	Ground Water Extraction per Bore Well (MLD)	:	1.21
12	Number of Hand Pumps/ Tubewells	:	740
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)	:	106.25
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	8.87
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	110.87
19	Total Sewage Generation (MLD)*	:	22.40
20	Per Capita Sewage Generation (lpcd)	:	267.20
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	: 2260.90
		COD	: 3843.50
		TKN	: 452.20
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: Rath			State: Uttar Pradesh		
S. No.	Items				Value
1	Total Area (sq km)	:			8.12
2	Population as in 2001	:			65056
3	Population Growth Rate as in 2001 (%)	:			16.28

4	Total Number of Wards	:	25
5	Population per Ward (Thousands)	:	2,238
6	Total Number of Household as in 2001	:	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 (lpd)	:	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	:	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: Sahaswan		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		7.45
2	Population as in 2011	:		66204
3	Population Growth Rate as in 2011 (%)	:		13.78

4	Total Number of Wards	:	25
5	Population per Ward (Thousands)	:	2,648
6	Total Number of Household as in 2011	:	11094
7	Number of Household per Ward	:	444
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	0.75
10	Number of Bore Wells	:	10
11	Ground Water Extraction per Bore Well (MLD)	:	0.08
12	Number of Hand Pumps/ Tubewells	:	147
13	Ground Water Extraction per Hand Pump (lpd)	:	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)	:	11.30
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	0.80
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	12.40
19	Total Sewage Generation (MLD)*	:	3.80
20	Per Capita Sewage Generation (lpcd)	:	57.50
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	: 1787.50
		COD	: 3038.80
		TKN	: 357.50
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Ganga River
32	Number of Drains/Nallah for Wastewater Disposal	:	4
33	Number of Water Bodies	:	1
34	Gross Area of Water Bodies (Hectare)	:	75.00
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Sandila		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		24.62
2	Population as in 2011/2001	:		58346
3	Population Growth Rate as in 2011 (%)	:		19.32

4	Total Number of Wards	:	25
5	Population per Ward (Thousands)	:	2,334
6	Total Number of Household as in 2011	:	9663
7	Number of Household per Ward	:	387
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)	:	7.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	135.00
19	Total Sewage Generation (MLD)*	:	6.30
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	: 1575.30
		COD	: 2678.10
		TKN	: 315.10
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Sai 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: Sardhana			State: Uttar Pradesh		
S. No.	Items				Value
1	Total Area (sq km)	:			5.00
2	Population as in 2011/2001	:			58252
3	Population Growth Rate as in 2011 (%)	:			20.57

4	Total Number of Wards	:	25
5	Population per Ward (Thousands)	:	2,330
6	Total Number of Household as in 2011	:	13567
7	Number of Household per Ward	:	543
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 (lpd)	:	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)	:	7.90
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	135.00
19	Total Sewage Generation (MLD)*	:	6.30
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	: 1572.80
		COD	: 2673.80
		TKN	: 314.60
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 (Hectare)	:	NA
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Seohara		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	2.72
2	Population as in 2011/2001	:	53296
3	Population Growth Rate as in 2011 (%)	:	12.03

4	Total Number of Wards	:	25
5	Population per Ward (Thousands)	:	2,132
6	Total Number of Household as in 2011	:	8840
7	Number of Household per Ward	:	354
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	: 1439.00
		COD	: 2446.30
		TKN	: 287.80
30	Wastewater Disposal Means	:	River & Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Ramganga 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: Shahabad			State: Uttar Pradesh	
S.	Items			Value
1	Total Area (sq km)	:		9.7
2	Population as in 2011/2001	:		80226
3	Population Growth Rate as in 2011 (%)	:		18.41

4	Total Number of Wards	:	25
5	Population per Ward (Thousands)	:	3,209
6	Total Number of Household as in 2011	:	13958
7	Number of Household per Ward	:	558
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	1.0
10	Number of Bore Wells	:	2
11	Ground Water Extraction per Bore Well (MLD)	:	0.50
12	Number of Hand Pumps/ Tubewells	:	NA
13	Ground Water Extraction per Hand Pump (lpd)	:	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)	:	12.45
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	1.00
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	12.50
19	Total Sewage Generation (MLD)*	:	3.10
20	Per Capita Sewage Generation (lpcd)	:	39.00
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	: 2166.10
		COD	: 3682.40
		TKN	: 433.20
30	Wastewater Disposal Means	:	Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Garra River
32	Number of Drains/Nallah for Wastewater Disposal	:	2
33	Number of Water Bodies	:	1
34	Gross Area of Water Bodies (Hectare)	:	48.00
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Sherkot		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	6.00
2	Population as in 2011/2001	:	62226

3	Population Growth Rate as in 2011 (%)	:	17.67
4	Total Number of Wards	:	25
5	Population per Ward (Thousands)	:	2,489
6	Total Number of Household as in 2011	:	9668
7	Number of Household per Ward	:	387
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	4.50
10	Number of Bore Wells	:	3
11	Ground Water Extraction per Bore Well (MLD)	:	1.50
12	Number of Hand Pumps/ Tubewells	:	446
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)	:	72.41
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	4.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	76.00
19	Total Sewage Generation (MLD)*	:	2.20
20	Per Capita Sewage Generation (lpcd)	:	35.00
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	: 1680.10
		COD	: 2856.20
		TKN	: 336.00
30	Wastewater Disposal Means	:	Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	Khoh River
32	Number of Drains/Nallah for Wastewater Disposal	:	1
33	Number of Water Bodies	:	NA
34	Gross Area of Water Bodies (Hectare)	:	0.08
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: Tanda		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	10.46
2	Population as in 2011	:	95516
3	Population Growth Rate as in 2011 (%)	:	14.44

4	Total Number of Wards	:	25
5	Population per Ward (Thousands)	:	3,821
6	Total Number of Household as in 2011	:	14597
7	Number of Household per Ward	:	584
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	6.40
10	Number of Bore Wells	:	6
11	Ground Water Extraction per Bore Well (MLD)	:	1.07
12	Number of Hand Pumps/ Tubewells	:	180
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)	:	66.57
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	6.50
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	67.50
19	Total Sewage Generation (MLD)*	:	6.20
20	Per Capita Sewage Generation (lpcd)	:	64.60
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	: 2578.90
		COD	: 4384.20
		TKN	: 515.80
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Ghaghra River
32	Number of Drains/Nallah for Wastewater Disposal	:	5
33	Number of Water Bodies	:	4
34	Gross Area of Water Bodies (Hectare)	:	0.41
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Tilhar		State: Uttar Pradesh	
S. No.	Items		Value
1	Total Area (sq km)	:	3.48
2	Population as in 2011	:	61444
3	Population Growth Rate as in 2011 (%)	:	16.13

4	Total Number of Wards	:	25
5	Population per Ward (Thousands)	:	2,116
6	Total Number of Household as in 2011	:	10106
7	Number of Household per Ward	:	404
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	3.60
10	Number of Bore Wells	:	3
11	Ground Water Extraction per Bore Well (MLD)	:	1.20
12	Number of Hand Pumps/ Tubewells	:	158
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)	:	59.20
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	3.70
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	60.90
19	Total Sewage Generation (MLD)*	:	9.40
20	Per Capita Sewage Generation (lpcd)	:	153.60
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	: 1659.00
		COD	: 2820.30
		TKN	: 331.80
30	Wastewater Disposal Means	:	River Disposal
31	Name of River/Streams for Wastewater Disposal	:	Ramganga River
32	Number of Drains/Nallah for Wastewater Disposal	:	11
33	Number of Water Bodies	:	2
34	Gross Area of Water Bodies (Hectare)	:	6.38
35	Area of Water Bodies as % of Total Area	:	<<< 1

Water Balance & Pollution Load (Domestic) Data Sheet

City: Tundla		State: Uttar Pradesh	
S.	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: Ujhani		State: Uttar Pradesh		
S. No.	Items			Value
1	Total Area (sq km)	:		6.50
2	Population as in 2011	:		62039
3	Population Growth Rate as in 2011 (%)	:		21.52

4	Total Number of Wards	:	25
5	Population per Ward (Thousands)	:	2,482
6	Total Number of Household as in 2011	:	10343
7	Number of Household per Ward	:	414
8	Surface Water Supply (MLD)	:	NA
9	Ground Water (GW) Supply (MLD)	:	5.31
10	Number of Bore Wells	:	10
11	Ground Water Extraction per Bore Well (MLD)	:	0.53
12	Number of Hand Pumps/ Tubewells	:	147
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)	:	85.59
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	5.40
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	86.80
19	Total Sewage Generation (MLD)*	:	6.10
20	Per Capita Sewage Generation (lpcd)	:	98.90
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	: 1675.10
		COD	: 2847.60
		TKN	: 335.00
30	Wastewater Disposal Means	:	Land Disposal
31	Name of River/Streams for Wastewater Disposal	:	-
32	Number of Drains/Nallah for Wastewater Disposal	:	2
33	Number of Water Bodies	:	3
34	Gross Area of Water Bodies (Hectare)	:	7.50
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

Appendix-3

Compilation of the Total Sewage Discharge through Point Sources in Ganga River Basin (Adopted from CPCB, 2013)

State	Region		Name of the Drains	Discharge	Remark
Uttar akha nd	Uttarkash i &Devpray ag	1	Storm Water Drain Uttarkashi	1.73	Domestic, industrial wastewater
		2	Kodianala, Devprayag	1.73	
	Rishikesh	1	Triveni Drain/ SaraswatiNala	11.5	
		2	Rambha nadi/drain	152	
		3	LakkarGhat STP Drain	12	
		4	IDPL- STP Drain	3	
		5	Swarg Ashram STP Drain	2.5	
		6	GadhiShyampur Drain	0	
	Haridwar	1	Jagjeetpur STP Drain	42	
		2	Kassavan Drain	11	
		3	Pandey wala Drain	0	
		4	MatraSadan Drain	3.8	
		5	Rawlirao Drain	2.8	
	Laksar	1	Laksar drain	196	
Uttar Prade sh	Sukratal	1	Banganga River (at confluence with river Ganga)	0	Domestic, industrial wastewater
	Bijnor	1	Hemraj Drain	0	
		2	Bijnor Sewage Drian	7.6	
		3	Malan River (at confluence with river Ganga)	16.5	
		4	Chhoiya Drain (at conf. with river Ganga)	124	
	Gajrola and Babralla	1	Bagad River	1.8	
	Garh	1	Garh Drain	14	
		2	Fuldehra Drain (at confluence with river Ganga)	32	
	Badaun	1	Badaun Sewage Drain	29.9	
		2	Sot River	42	
	Anupshar	1	Anupsahar STP Drain-1	0.85	
		2	Anupsahar STP Drain-2	1.75	
	Kanpur	1	Dabka Nalla-1 (Kachhanala)	94	
		2	Dabka Nalla-2 (Pakkanala)	25	
		3	Dabka Nalla-3 (Pakkanala)	0.26	
		4	Shetla Bazar (Kachhanala)	29	
		5	WazidpurNalla	54	
		6	SattiChaura	1.1	
		7	GolaghatNala	0.83	
		8	BhagwatdasNala	11	
		9	Sisamau Nala	197	
		10	PermiyaNala	186	
	Unnao	1	Loni Drain	41.9	
		2	City Jail Drain	35.86	

Bihar	Fatehpur to Raibareilly	1	Pandu River	1396	
		2	Seepage	0	
		3	Arihari Drain	34.25	
		4	NTPC drain	60.29	
	Allahabad	1	Rasulabad-1 (Pakkanala)	29.8	
		2	Rasulabad-2 (Pakkanala)	20.2	
		3	Rasulabad-3 (kachhanala)	14.2	
		4	Rasulabad-4 (Kachhanala)	48.5	
		5	Nehru Drain	7	
		6	Kodar Drain	20	
		7	Pongaghat Drain	8	
		8	Solari Drain	34.8	
		9	Maviya Drain	65	
		10	Mugalaha Drain	46	
	Mirzapur	1	GhoreSaheed drain	86.4	
		2	Khandwa drain	62.21	
	Varanasi	1	Rajghat drain	16.19	
		2	Nagwa drain	66.45	
		3	Ramnagar drain	23.65	
		4	Varuna drain	304.5	
		5	Shivala Drain	0	
	Buxer	1	Sidhharth Drain	7.5	Domestic,industrial wastewater
		2	Sati Ghat Drain	7.7	
		3	Nath Baba Drain	5.2	
		4	Tadka Drain	6.8	
		5	Sariupur Drain	6.7	
	Patna	1	Danapur Cantt Drain	10.1	
		2	DighaGhat Drain	9.6	
		3	Kurzi Drain	120.4	
		4	Rajapur Drain	40.7	
		5	BanshGhat Drain	6.6	
		6	CollectriateGhat Drain	14.3	
		7	MittanGhat Drain	5.4	
		8	Mahavir Drain	5.4	
		9	Badshahi Drain	21.4	
	Munger	1	ITC Drain	10.13	
		2	Lal Darwala Drain	8.5	
	Bhagalpur	1	Jamunia Drain	82.61	
		2	Adampur Drain	11.75	
		3	Sarkikal Drain	6.62	

		4	Saklichand Drain	7.7	
		5	Hathiya Drain	11.8	
		6	Chama Drain	10.6	
		7	BarariGhat Drain	9.7	
	Kahalgao n	1	Kowa Drain	147.28	
		2	Kagzi Drain	5.2	
West Beng al	Left bank				Domestic, industrial wastewater
		1	Circular Canal adjacent to River Hooghly	320.3	
		2	TollyNala adjacent to Dahighata	380.2	
		3	Dhankheti Khal Near CESE Intake Point	65.2	
		4	Akhra Food Ghar Adjacent to Hooghly River	83.4	
		5	Khardah Municipal Drain Connected to Hooghly River	63	
		6	DebitalaPancha Khal, Ichapore (Adjacent to R.N.S Brick Field)	46	
		7	Khal Near Nimtala Burning Ghat	20.7	
		8	MuniKhali Khal Adjacent to Arun MistriGhat	19.4	
		9	Kashipur Khal Adjacent to Khamarhati Jute Mill	16.1	
		10	In front of S.P Bunglow, S.N Banerjee Road, Mistry Ghat, Barrackpore	22.7	
		11	Adjacent to Cossiporeferryghat&gunshell factory	19.8	
		12	ChitpurGhat, Dilarjung Road	15	
		13	Majher Char Khal & Kalyani combined waste sewage near brick field with foam near sluice gate	16.5	
		14	Drain Opposite to Fort William , Judges Court Ghat	7.65	
		15	Adjacent to GarifaRly.Stn., Patterson road, adjacent to Ram Ghat	7.78	
		16	Adjacent to Garifa Rly. Stn.(North side) on Patterson road(domestic)	9.68	
		17	Baranagar Khal Adjacent to Ratan Babu Ghat	10.3	
		18	Mohan Misra lane & crossing of Ghosh para road, Halisahar, adjacent to Prabhat Sangha playground	10.7	
		19	Bagher Khal, adjacent to Hotel Dreamland, near sluice gate, open pucca drain	11.1	
		20	Drain between Pratapnagar and Rajbari	4.19	
		21	By the side of Alliance jute mill, Jagatdal Jetty, opposite side of bank Chandannagar Jetty	4.96	
		22	Adjacent to boundary wall of Gandhighat& near Upashak Social Welfare Organization, Gandhighat, South gate-1,Barrackpore	3.61	

		2			
		3	Balughat, Manirampur pucca drain	2.28	
		2	BishalakshmiGhat, adjacent to CESC Power		
		4	House, Titagarh	4.01	
		2	Thanar Khal, adjacent to Thana & over tank by		
		5	Naihati Municipality	5.29	
		2			
		6	Sasanghat	2.92	
		2	Open pucca drain carrying waste for ward nos.		
		7	9 & 10	1.2	
		2	Saidabad kunjaBhata(opposite to auto		
		8	center)ward no. 25	1.26	
		2	Shovabazar Canal Near Shovabazar Launch		
		9	Ghat	0.42	
		3	Open pucca drain flowing adjacent to Diamond		
		0	club,	0.96	
	Right bank	3	Open Kuccha drain carrying domestic waste for		
		1	Ward 16	0.66	
		3	Adjacent to boundary wall of Jangipur College		
		2	and B D Office	1.08	
		3	Shasan (burning) Ghat,Bhairabpur,		
		3	Purbaparaword9 no16	0.54	
		3	RadharGhat(Old IchagrashasanGhat)		
		4	Bhairabpur, Purbapara	0.48	
		1	Bhagirathi lane, Mahesh, Serampore	41.5	
			Hastings Ghat road, adjacent to Hastings jute		
		2	mill, Rishra, Hooghly	42	
			Najerganj Khal, north side of Shalimar paint,		
		3	near Hans Khali Poll, Sankrail	326	
			Singhi More Khal (Singhimara Khal), Manikpur,		
		4	Sankrail, near brick field	26.1	
			Chatra Khal, Beniapara, Serampore, Behind		
		5	Ganga Darsan, Raja K. L Goswami street,		
			Serampore	28.4	
			Bagh Khal, border of Rishra&Konnagar		
		6	Municipality on G.T Road	18.4	
			TelkalGhat	21.9	
			RamkrishnaMullickghat Road	12.2	
			130 Foreshore Road Martin Burn	17.6	
		1			
		0	Shibpur Burning Ghat	13.3	
			Jagannath Ghat Road, opposite to China		
		1	pharmacy, by the side of Bijoy lakshmi rolling		
		1	mill	17.3	
			Combined of Swarasati Khal and Rajganj Khal,		
		1	near Sankrail Police station, near		
		2	PareshnathHazraGhat	2.77	
			Champdany Ferry Ghat, opposite nabalgarrage,		
		3	Champdany ,Poura bhavan road, Pin-712222	4.15	
		1	South side of DawnagaziGhat, Bally	1.31	

		4	Municipality, Bally		
		1	JagatnathGhat, Ward No.-14, LalababuSaha Rd.,		
		5	South side of KathgolaGhat	9.33	
		1			
		6	101,Foreshore Road	6.24	
		1			
		7	Kuthighat South Side of Belur Math	5.76	
		1			
		8	N.C.Pal Khal, Sankrail	3.87	
		1	Adjacent to bazarpara and Garighat (ward no.		
		9	18) Kuccha drain	1.2	
		2			
		0	Shalimar Coal Deposit No 1Naresh Kumar Ward	0.16	
			Total Discharge	6088.4	

Appendix-4

Compilation of the Total Sewage Discharge through Point Sources in Ganga River Basin(Survey Assesment)

Region		Name of the Drains	Discharge	Remark
Farukkabad	1	HanthikhanaNala	1.78	
	2	BargadiyaGhatNala	3.96	
	3	TokaGhatNala	7.49	
	4	BibiganjNala	19.20	
	Sub Total:		32.43	
Kanpur	1	Airforce Nala	4.15	
	2	Outfall water for irrigation 1	170.0	
	3	Outfall water for irrigation 2		
	4	WazidpurNala	9.37	
	5	BuriaghatNala	1.40	
	6	Sheetla Bazar Nala	12.0	
	7	BangaliGhatNala		
	8	Golf Club Nala	43.20	
	9	DubkaNala	1.50	
	10	Cantonment Nala	0.00	
	11	Maskarghat/nanaraoghatNala	0.00	
	12	GolaghatNala	3.23	
	13	ShuklagangNala	0.15	
	14	GuptarghatNala	1.86	
	15	SarsaiyaghatNala	0.71	
	16	Jail Nala	1.70	
	17	Police Line Nala	4.04	
	18	Police Line Nala 2	1.40	
	19	Parmut + TEFCO Nala	0.41	
	20	Seshamau/power house Nala	130.0	
	21	RanighatNala	0.57	
	22	Nawabganj+Zevra+Khewra+ Roadways+KESA	20.0	
	23	COD Nala	50	
	24	Ganda Nala	130	
	25	HalwakhandaNala		
	Sub Total:		585.69	
Allahabad	1	MorigateNala	38.04	
	2	Daraganj Drain	3.27	
	3	AlenganjNala	27.0	
	4	SaloriNala		
	5	JondhwalNala	2.72	
	6	ShankarghatNala	0.22	
	7	RasulabadpaccaghatNala	0.04	
	8	ADA colony Nala	1.74	
	9	JondhwalRasulabadNala	0.08	
	10	Shankarghat Colony Nala	0.01	
	11	JondhwalghatNala	0.08	
	12	RajapurNala	7.62	
	13	TV Tower Nala	2.18	

	14	Sadar Bazar Nala	3.27
	15	Unchwaghari Drain I	0.76
	16	Unchwaghari Drain II	0.27
	17	Beligaon Drain	0.27
	18	Mumfordganj Drain	0.44
	19	MuirabadNala	1.09
	20	Nayapurwa Drain	0.07
	21	Mehdauri Gaon Drain	0.22
	22	MawaiyaNala	9.8
	23	ShivkutiDrain No.1	0.02
	24	ShivkutiDrain No.2	0.01
	25	Shivkuti Drain No. 3	1.74
	26	Shivkuti Drain No.4	0.01
	27	Shivkuti Drain No. 5	0.03
	28	Shivkuti Drain No. 6	0.02
	29	Shivkuti Drain No. 7	0.78
	30	Chilla Drain	0.00
	31	GovindpurPurani Basti Drain	0.00
	32	Govindpur Drain No. 1	0.00
	33	Govindpur Drain No. 2	0.00
	34	Govindpur Drain No. 3	0.00
	35	Govindpur Drain No. 4	0.00
	36	Co-operative Drain	0.00
	37	Basna Drain	0.00
	38	Indira Awas Drain	0.25
	39	Shivpur Drain	0.00
	40	Lotey Haran Nala	2.18
	41	Shastri Bridge Nala	0.02
	42	KodaraNala	9.50
	43	Nehru park Nala	2.50
	44	PonghatNala	5.60
	Sub Total:		121.85
Mirzapur	1	BiswandarpurNala	0.19
	2	BarahmiliaNala	0.00
	3	Left CanalNala	1.14
	4	IRRJ Colony Nala	0.00
	5	BadshahiNala	0.31
	6	KachahariGhatNala	0.27
	7	OliarGhatNala	0.09
	8	BadleGhatNala	0.19
	9	Court GhatNala	1.81
	10	KandwaNala	10.06
	11	ChorwaNala	0.00
	12	LallaNala	0.16
	Sub Total:		14.22
Varanasi	1	NagwaNala	60.17

	2	ShivalaGhatNala	0.19
	3	Harishchandra ghatNala	0.16
	4	MansarovarGhatNala	0.90
	5	Pandey GhatNala*	0.00
	6	R.P. Ghat	2.18
	7	ManmandirGhatNala	0.10
	8	Mir GhatNala*	0.00
	9	ManikarnikaGhatNala*	0.00
	10	JalasenGhatNala	0.00
	11	SamneGhatNala	1.43
	12	Rajghat Nala	133.30
	13	BhaisasurGhatNala	0.22
	14	TeliyaghatNala	0.30
	15	TrilochanGhatNala	0.06
	16	BrahmGhatNala	0.29
	17	PanchgangaGhatNala*	0.00
	18	Ganga Mahal GhatNala	0.11
	Sub Total:		199.41
	Gazipur	1	Anjaighatnala
2		Sitlaghatnala	0.07
3		Sikandarpurnala	0.00
4		Collector ghatnala	2.27
5		Dadri ghatnala	1.37
6		Afeem Factory nala	1.54
7		DM AwasNala	2.21
Sub Total:		11.81	
Ballia	1	MidhiNala	1.08
	2	BeduachabhiNala	10.05
	3	Markandey Singh ChaurahaNala	1.04
	4	Police Line Nala*	0.00
	5	Chhittu Pandey ChaurahaNala	0.23
	6	Biswanipur Police Station Nala	0.78
	7	Kadam ChaurahaNala	0.00
	8	Gudri Bazar Nala *	0.00
	9	DalpattiNala*	0.00
	10	BankattaNala	0.46
	11	JagdishpurNala	0.00
	12	Durga Mandir nala	5.04
Sub Total:		18.68	
Total Discharge of all the Class I towns directly in river Ganga in U.P. state			984.09