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Assessment of Domestic Pollution Load from Urban Agglomeration in Ganga Basin: West Bengal

GRBMP: Ganga River Basin Management Plan

by

Indian Institutes of Technology



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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 Environment 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 (GRB EMP). 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 GRB EMP. 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. Lists of persons who have contributed directly and those who have taken lead in preparing this report is given on the reverse side.

DrVinod Tare
Professor and Coordinator
Development of GRBMP
IIT Kanpur

The Team

1. A AKazmi, IIT Roorkee	<i>kazmifce@iitr.ernet.in</i>
2. A K Gupta, IIT Kharagpur	<i>akgupta18@rediffmail.com,akgupta@iitkgp.ac.in</i>
3. A K Mittal, IIT Delhi	<i>akmittal@civil.iitd.ernet.in</i>
4. A K Nema, IIT Delhi	<i>aknema@gmail.com</i>
5. Ajay Kalmhad, IIT Guwahati	<i>kajay@iitg.ernet.in</i>
6. Anirban Gupta, BESU Shibpur	<i>guptaanirban@hotmail.com</i>
7. Arun Kumar, IIT Delhi	<i>arunku@civil.iitd.ac.in</i>
8. G J Chakrapani, IIT Roorkee	<i>gjcufes@iitr.ernet.in</i>
9. GazalaHabib, IIT Delhi	<i>gazalahabib@gmail.com</i>
10. Himanshu Joshi, IIT Roorkee	<i>himanshujoshi58@gmail.com</i>
11. InduMehrotra, IIT Roorkee	<i>indumfce@iitr.ernet.in</i>
12. I M Mishra, IIT Roorkee	<i>imishfch@iitr.ernet.in</i>
13. Ligy Philip, IIT Madras	<i>ligy@iitm.ac.in</i>
14. M MGhangrekar, IIT Kharagpur	<i>ghangrekar@civil.iitkgp.ernet.in</i>
15. MukeshDoble, IIT Bombay	<i>mukeshd@iitm.ac.in</i>
16. P K Singh, IT BHU	<i>dr_pksingh1@rediffmail.com</i>
17. Purnendu Bose, IIT Kanpur	<i>pbose@iitk.ac.in</i>
18. R Ravi Krishna, IIT Madras	<i>rrk@iitm.ac.in</i>
19. Rakesh Kumar, NEERI Nagpur	<i>r_kumar@neeri.res.in</i>
20. S M Shrivnagendra, IIT Madras	<i>snagendra@iitm.ac.in</i>
21. SaumyenGuha, IIT Kanpur	<i>sguha@iitk.ac.in</i>
22. Shyam R Asolekar, IIT Bombay	<i>asolekar@iitb.ac.in</i>
23. SudhaGoel, IIT Kharagpur	<i>sudhagoel@civil.iitkgp.ernet.in</i>
24. Suparna Mukherjee, IIT Bombay	<i>mitras@iitb.ac.in</i>
25. T R Sreekrishanan, IIT Delhi	<i>sree@dbeb.iitd.ac.in</i>
26. Vinod Tare, IIT Kanpur	<i>vinod@iitk.ac.in</i>
27. Vivek Kumar, IIT Roorkee	<i>vivekfpt@iitr.ernet.in</i>

Lead Persons

1. Vinod Tare, IIT Kanpur
2. Purnendu Bose, IIT Kanpur
3. Shashikant Patel, IIT Kanpur

West Bengal is located in the eastern part of the Indian subcontinent. It is bounded to the north by the state of Sikkim and the country of Bhutan, to the northeast by the state of Assam, to the east by the country of Bangladesh, to the south by the Bay of Bengal, to the southwest by the state of Orissa, to the west by the states of Jharkhand and Bihar, and to the northwest by the country of Nepal. West Bengal may be broadly divided into two natural geographic divisions the Gangetic Plain in the south and the sub-Himalayan and Himalayan area in the north.

The Ganges is the main river, which divides in West Bengal. One branch enters Bangladesh as the Padma, while the other flows through West Bengal as the Bhagirathi River and Hooghly River.

The demographic details of the major urban centers are given Table 1.

Class of city	Name of the city	Total Area (sq km)	Population as in 2011
Class I	Ashokenagar- Kalyangarh	20.48	123906
Class I	Baidyabati	12.09	121081
Class I	Bally	9.5	115715
Class I	Bansberia	9.07	103799
Class I	Bara Nagar	7.12	248466
Class I	Barasat	34.5	283443
Class I	Bardhaman	56	314638
Class I	Barrackpore	25	154475
Class I	Basirhat	22.5	127135
Class I	Beharampore	31.43	195363
Class I	Bhadreswar	8.28	101334
Class I	Bhatpara	3.4	390,467
Class I	Bidhannagar	30	218323
Class I	Chakdaha	15.36	132855
Class I	Champadani	6.5	110,983
Class I	Chandernagore	22.03	166949
Class I	Dhulian	6.25	239,022
Class I	Habra	21.8	149,675
Class I	Hooghly- Chinsurah	17.24	177,209
Class I	Kalyani	29.21	100,620
Class I	Kamarhati	11	336579
Class I	Kanchapara	9.07	122181
Class I	Khardaha	6.87	111,130
Class I	Konnagar	4	124585
Class I	Krishnanagar	15.962	181,182
Class I	Madhyamgram	21.5	198,964
Class I	Mahestala	42.721	449,423
Class I	Naihati	11.55	221,762

Class I	New Barrackpore	6.89	134825
Class I	Panihati	19.38	383522
Class I	Rajarhat Gopalpur	28	404991
Class I	Rajpur -Sonarpur	49.25	423806
Class I	Rana Ghat	7.72	235,583
Class I	Rishra	6.48	124591
Class I	Santipur	25.8	151,774
Class I	Serampore	17.6	183,339
Class I	South Dum Dum	17.39	410,524
Class I	Titagarh	3.24	118426
Class II	Arambagh	34.75	67000
Class II	Baduria	22.43	52500
Class II	Baruipur	9.5	53,500
Class II	Budge Budge	9.06	76858
Class II	Gayeshpur	30	65398
Class II	Gobardanga	13.5	57878
Class II	Jangipore	8.2	122,875
Class II	Jiyaganj -Azimganj	11.66	51790
Class II	Katwa	7.927	81510
Class III	Birn Nagar	5.52	30765
Class III	Dainhat	10.36	24390
Class III	Diamond Harbour	10.15	42,494
Class III	Jainagar	5.8	26500
Class III	Memari	8.846	41455
Class III	Murshidabad	16.4	44024
Class III	Pujali	8.32	37063
Class III	Taherpur	12.18	20892
Class III	Tarakeswar	8.33	33125
Class IV	Cooper's Camp NAA (class 4)	1.5	18839

Table1: Demographic details of Major urban centers in West Bengal

Major Dams in the West Bengal

Major dams located in the Ganga basins are listed below.

Farakka Barrage

Farakka Barrage is a barrage across the Ganges River which diverts water from the Ganga to the Bhagirathi distributary (which becomes the Hooghly downstream) via a feeder canal that is 41 km (25.5 miles) long and 300 m (0.2 miles) wide and has locked gates.

Bara Mandira Dam

The Bara Mandira Dam is located in the Bardhaman district. The dam is situated in the Ganga Basin. It's an earthen dam. The dam has a length of 853 m and 17 m height.

Barabhum Dam

The Barabhum Dam is located in the Bardhaman district. The dam is situated in the Ganga Basin. It's an earthen dam made for irrigation. The dam has a length of 1529 m and 11 m height.

Pollution Load from the major urban centres

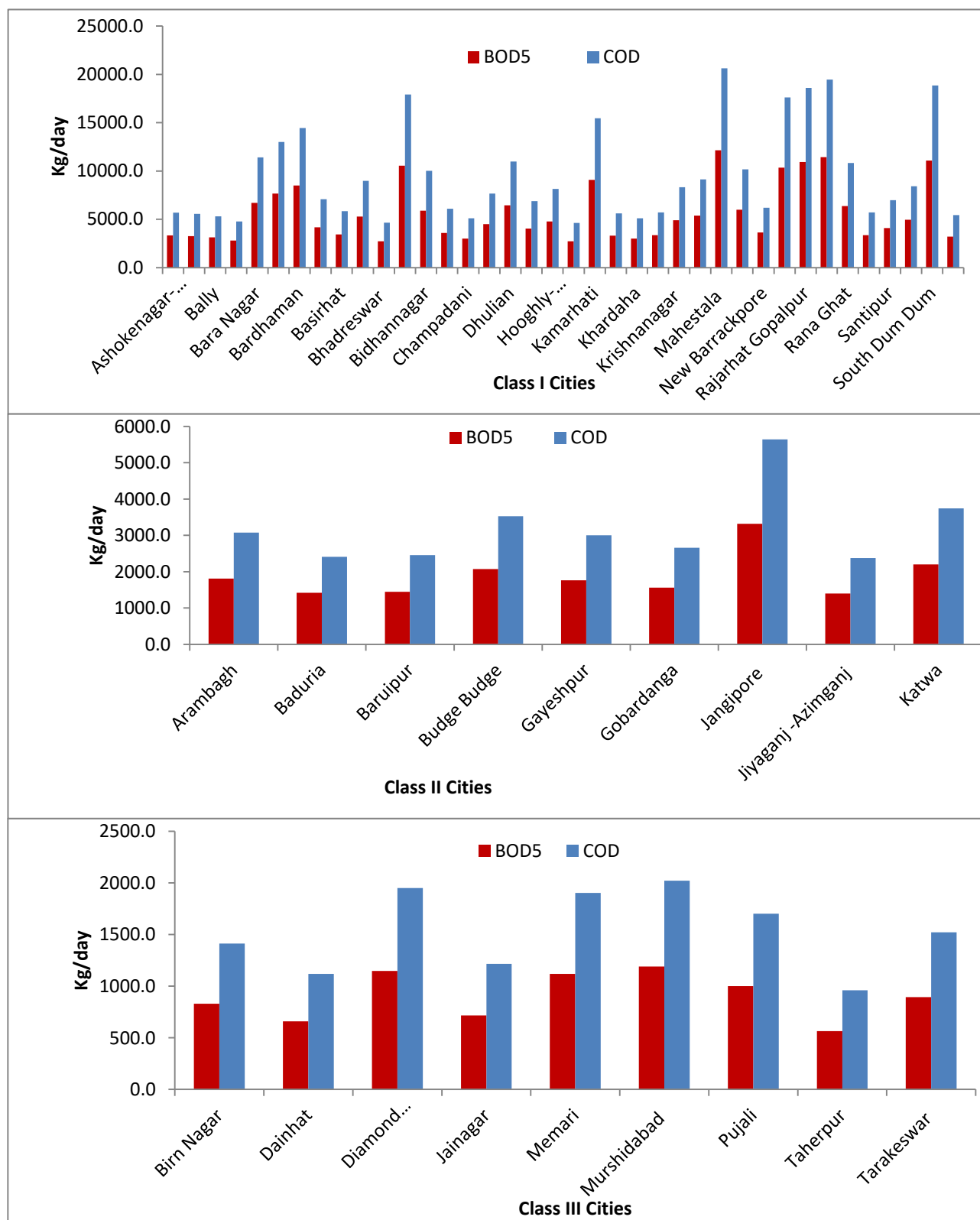
The details of the ground/surface water utilization were obtained from the various government bodies. The total domestic sewage is calculated on the basis of the field survey and actual flow measurements in all the major drains (as measured on the day of visit). The parameters BOD, COD and TKN are estimated based on per capita contribution.

As per the data available from Jal Nigam/Nagar Nigam Bidhnagar and Bhadreswar are the two cities which are having higher installed capacity of STPs. Most of the cities are not facilitated with STPs and all the sewage carried by the domestic drains is discharged into the river without any treatment. Most of the cities are following river disposal.

The pollution load on the river in terms of BOD₅, COD and TKN is estimated based on the per capita contribution for all the major cities. *Figure 1a & 1b* shows the pollution load from major urban centers in West Bengal. *Table 2* gives the details of the pollution load from the major urban centers in West Bengal

Class	Surface water utilization (MLD)	Ground water utilization (MLD)	Total Domestic Sewage (MLD)	BOD (kg/day)	COD (kg/day)	TKN (kg/day)
I	163.2626	620.5108	608.9	213101.3	362272.1	42620.3
II	19.97	35.554	44.4	16991.3	28885.3	3398.3
III	1.48	71.5265	56.8	8119.1	13802.5	1623.8
IV	NIL	0.39	0.3	508.653	864.7101	101.7306
Total	184.7126	727.9813	710.4	238720.4	405824.6	47744.13

Table2: Details of the pollution load from the major urban centers in West Bengal



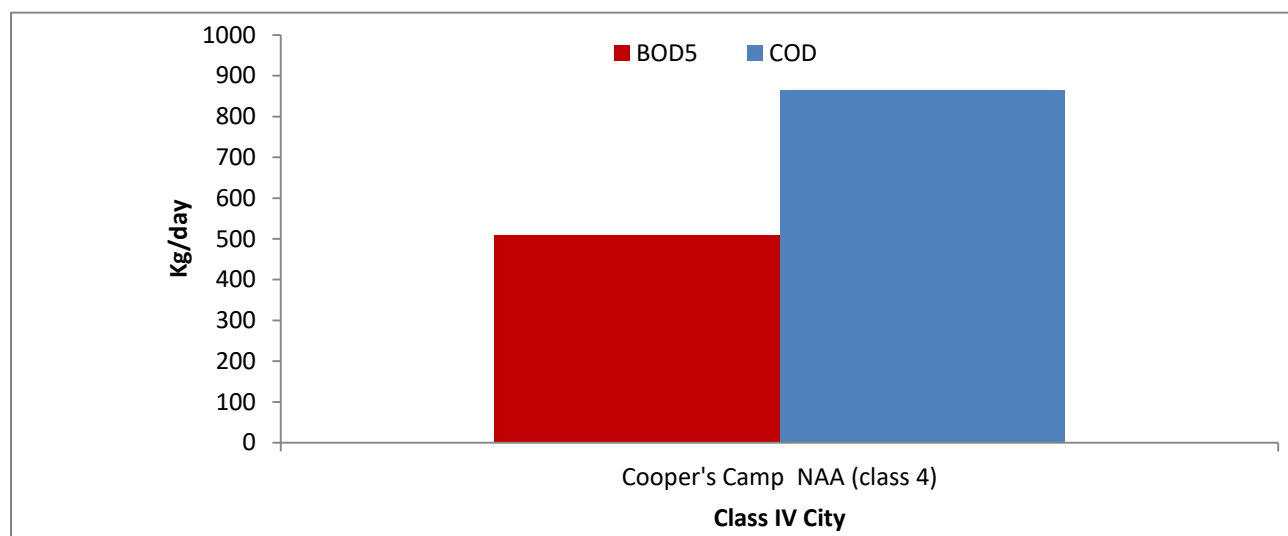
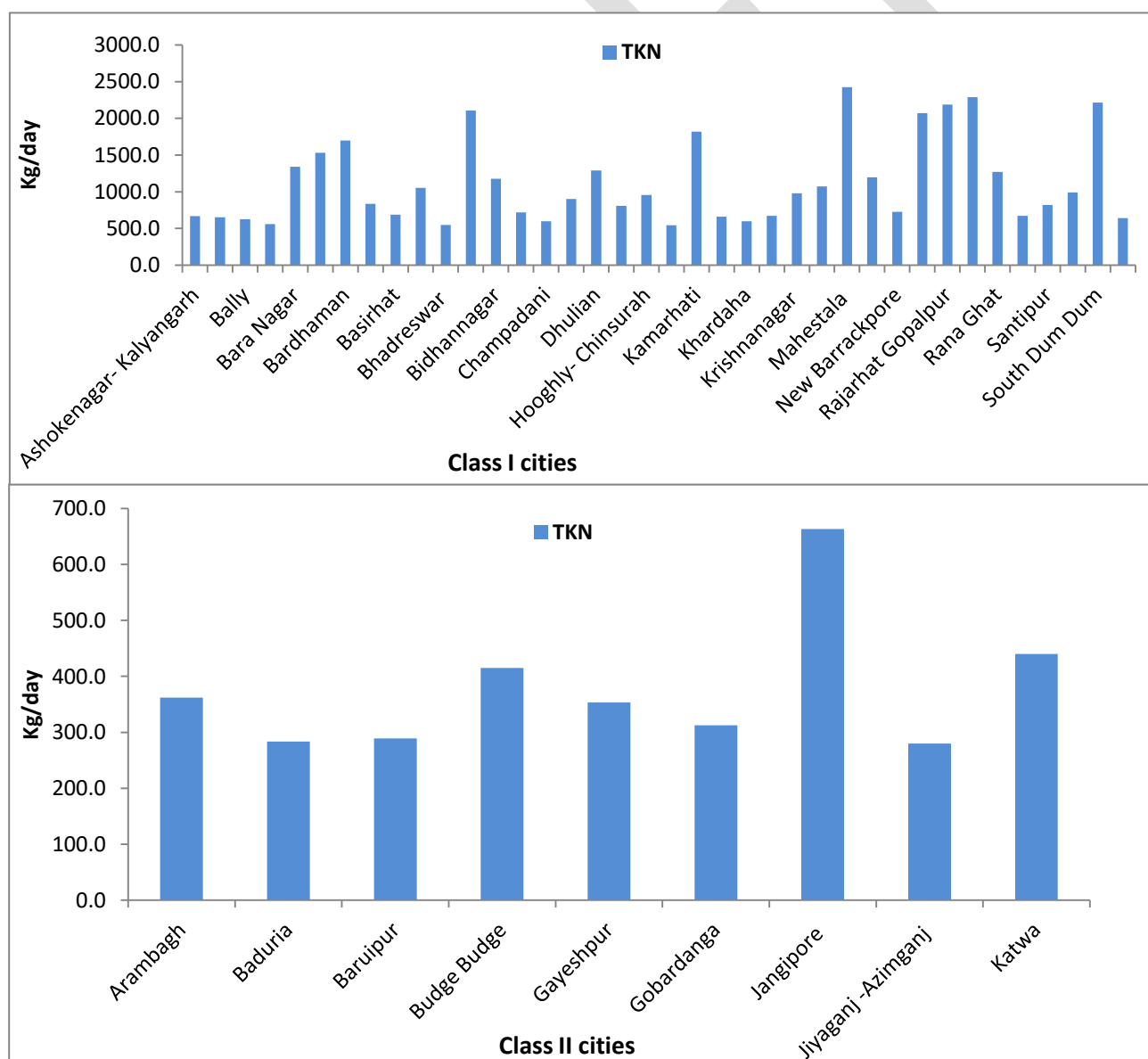


Fig 1a: Contribution of Pollution Load (BOD, COD from Class I, II, III, IV Cities)



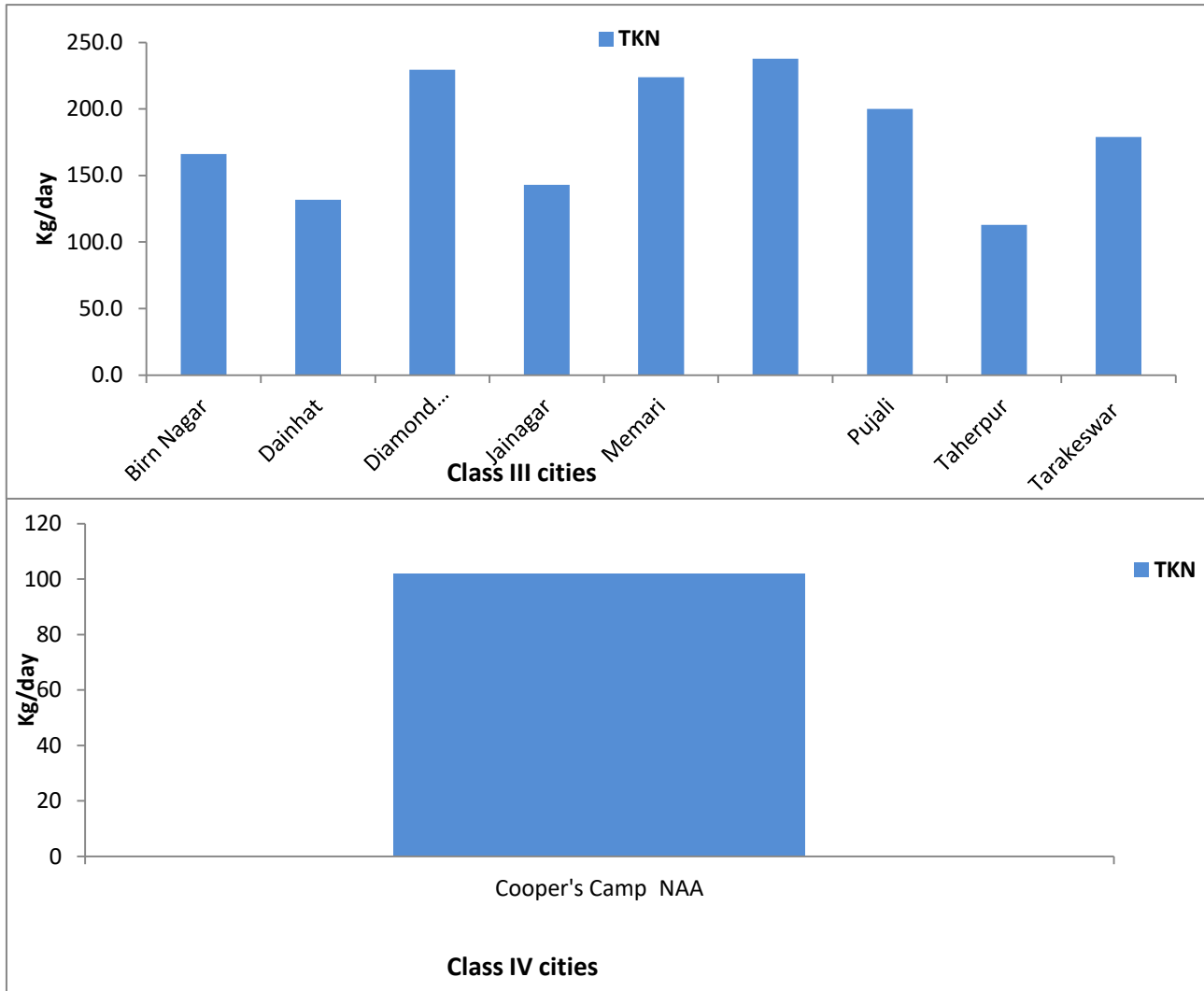


Fig 1b: Contribution of Pollution Load (TKN from Class I, II, III, IV Cities)

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Ashokenagar- Kalyangarh Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)			20.48
2	Population as in 2011	:		123906
3	Population Growth Rate as in 2011 (%)	:		11.02
4	Total Number of Wards	:		22
5	Population per Ward (Thousands)	:		5,541
6	Total Number of Household as in 2011	:		18,351
7	Number of Household per Ward	:		834
8	Surface Water Supply (MLD)	:		Nil
9	Ground Water (GW) Supply (MLD)	:		6.56
10	Number of Bore Wells	:		21
11	Ground Water Extraction per Bore Well (MLD)	:		0.31
12	Number of Hand Pumps	:		Not Counted
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		21
15	Total Pumping Capacity (MLD)	:		6.56
16	Average Water Supply Rate from ULB Sources (lpcd)	:		50
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		Nil
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		Nil
19	Total Sewage Generation (MLD)	:		5.2
20	Per Capita Sewage Generation (lpcd)	:		42.4
21	Sewage Collection (MLD)	:		4.2
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Not Applicable
25	Current Utilized Capacity of STPs (MLD)	:		Not Applicable
26	Percentage Utilization of Installed Capacity (%)	:		Not Applicable
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not Applicable
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	3345.5
		COD	:	5687.3
		TKN	:	669.1
30	Wastewater Disposal Means	:		Canal
31	Name of River/Streams for Wastewater Disposal	:		Bidyadhari Canal
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	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Baidyabati Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		12.09
2	Population as in 2011	:		121081
3	Population Growth Rate as in 2011 (%)	:		11.87
4	Total Number of Wards	:		22
5	Population per Ward (Thousands)	:		5.5036
6	Total Number of Household as in 2011	:		30240
7	Number of Household per Ward	:		1375
8	Surface Water Supply (MLD)	:		15
9	Ground Water (GW) Supply (MLD)	:		Nil
10	Number of Bore Wells	:		Nil
11	Ground Water Extraction per Bore Well (MLD)	:		Nil
12	Number of Hand Pumps	:		21
13	Ground Water Extraction per Hand Pump (lpcd)	:		Nil
14	Number of Pumping Stations for Water Supply	:		Nil
15	Total Pumping Capacity (MLD)	:		Nil
16	Average Water Supply Rate from ULB Sources (lpcd)	:		Nil
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		16.33
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		Nil
19	Total Sewage Generation (MLD)	:		13.1
20	Per Capita Sewage Generation (lpcd)	:		107.9
21	Sewage Collection (MLD)	:		Not collected
22	Percentage of Sewage Collection (%)	:		Not Applicable
23	Number of STPs	:		2
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		6
25	Current Utilized Capacity of STPs (MLD)	:		Not Applicable
26	Percentage Utilization of Installed Capacity (%)	:		Not Applicable
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not Applicable
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	3269.187
		COD	:	5557.6179
		TKN	:	653.8374
30	Wastewater Disposal Means	:		Land and river
31	Name of River/Streams for Wastewater Disposal	:		Hooghly, Dankuni or
32	Number of Drains/Nallah for Wastewater Disposal	:		850
33	Number of Water Bodies	:		Not Counted
34	Gross Area of Water Bodies (sq km)	:		Not Measured
35	Area of Water Bodies as % of Total Area	:		0.21

Water Balance & Pollution Load (Domestic) Fact Sheet				
3City: /ULB: Bally Municipality			State: West Benngal	
S. No.	Items			
1	Total Area (sq km)	:		9.5
2	Population as in 2011	:		115715
3	Population Growth Rate as in 2011 (%)	:		157.35
4	Total Number of Wards	:		17
5	Population per Ward (Thousands)	:		3147
6	Total Number of Household as in 2011	:		13408
7	Number of Household per Ward	:		788
8	Surface Water Supply (MLD)	:		1.12
9	Ground Water (GW) Supply (MLD)	:		1
10	Number of Bore Wells	:		12
11	Ground Water Extraction per Bore Well (MLD)	:		0.25
12	Number of Hand Pumps	:		272
13	Ground Water Extraction per Hand Pump (lpd)	:		Nil
14	Number of Pumping Stations for Water Supply	:		12 (out of 12 only 4 are
15	Total Pumping Capacity (MLD)	:		1
16	Average Water Supply Rate from ULB Sources (lpcd)	:		172.28
17	Total Water Supply from ULB and Non-ULB Sources	:		2.12
18	Average Water Supply Rate from ULB & Non-ULB	:		172.28
19	Total Sewage Generation (MLD)	:		1.7
20	Per Capita Sewage Generation (lpcd)	:		18.3
21	Sewage Collection (MLD)	:		2.1
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Nil
25	Current Utilized Capacity of STPs (MLD)	:		Nil
26	Percentage Utilization of Installed Capacity (%)	:		Nil
27	Capacity of STPs Sanctioned under JNNURM & Others	:		Nil
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Nil
		COD	:	Nil
		TKN	:	Nil
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	3124.3
		COD	:	5311.3
		TKN	:	624.9
30	Wastewater Disposal Means	:		River (Adi Ganga)
31	Name of River/Streams for Wastewater Disposal	:		Adi Ganga
32	Number of Drains/Nallah for Wastewater Disposal	:		17
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (sq km)	:		0.73
35	Area of Water Bodies as % of Total Area	:		8.062

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Bansberia Municipality			State: West Benngal	
S. No.	Items			
1	Total Area (sq km)	:		9.07
2	Population as in 2011	:		103799
3	Population Growth Rate as in 2011 (%)	:		-0.5871
4	Total Number of Wards	:		22
5	Population per Ward (Thousands)	:		4,718
6	Total Number of Household as in 2011	:		24237
7	Number of Household per Ward	:		1101
8	Surface Water Supply (MLD)	:		Nil
9	Ground Water (GW) Supply (MLD)	:		22.113
10	Number of Bore Wells	:		27
11	Ground Water Extraction per Bore Well (MLD)	:		0.81
12	Number of Hand Pumps	:		99
13	Ground Water Extraction per Hand Pump (lpd)	:		Not Available
14	Number of Pumping Stations for Water Supply	:		27
15	Total Pumping Capacity (MLD)	:		0.81
16	Average Water Supply Rate from ULB Sources (lpcd)	:		100
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		22.113 (ULB Source)
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		100 (ULB Sources)
19	Total Sewage Generation (MLD)	:		21.7
20	Per Capita Sewage Generation (lpcd)	:		208.7
21	Sewage Collection (MLD)	:		2.3
22	Percentage of Sewage Collection (%)	:		10.6
23	Number of STPs	:		2
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		2.3
25	Current Utilized Capacity of STPs (MLD)	:		0.3
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	:	Nil
		COD	:	Nil
		TKN	:	Nil
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2802.57
		COD	:	4764.37
		TKN	:	560.51
30	Wastewater Disposal Means	:		River
31	Name of River/Streams for Wastewater Disposal	:		Hooghly and
32	Number of Drains/Nallah for Wastewater Disposal	:		Not counted
33	Number of Water Bodies	:		374
34	Gross Area of Water Bodies (sq km)	:		1.36
35	Area of Water Bodies as % of Total Area	:		15.02

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Baranagar Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		7.12
2	Population as in 2011	:		248466
3	Population Growth Rate as in 2011 (%)	:		11.45
4	Total Number of Wards	:		34
5	Population per Ward (Thousands)	:		7,624
6	Total Number of Household as in 2011	:		40,000
7	Number of Household per Ward	:		1176
8	Surface Water Supply (MLD)	:		18.16
9	Ground Water (GW) Supply (MLD)	:		4.54
10	Number of Bore Wells	:		11
11	Ground Water Extraction per Bore Well (MLD)	:		4.54
12	Number of Hand Pumps	:		90
13	Ground Water Extraction per Hand Pump (lpd)	:		NA
14	Number of Pumping Stations for Water Supply	:		11
15	Total Pumping Capacity (MLD)	:		1.44
16	Average Water Supply Rate from ULB Sources (lpcd)	:		190
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		22.718
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		190
19	Total Sewage Generation (MLD)	:		18.2
20	Per Capita Sewage Generation (lpcd)	:		91.4
21	Sewage Collection (MLD)	:		Nil
22	Percentage of Sewage Collection (%)	:		Nil
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Nil
25	Current Utilized Capacity of STPs (MLD)	:		Nil
26	Percentage Utilization of Installed Capacity (%)	:		Nil
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Nil
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	6708.6
		COD	:	11404.6
		TKN	:	1341.7
30	Wastewater Disposal Means	:		Land and River Both
31	Name of River/Streams for Wastewater Disposal	:		Bagjala khal to Ganga
32	Number of Drains/Nallah for Wastewater Disposal	:		Bagjala khal to Ganga
33	Number of Water Bodies	:		72 pond
34	Gross Area of Water Bodies (sq km)	:		0.27
35	Area of Water Bodies as % of Total Area	:		0.03

Water Balance & Pollution Load (Domestic) Fact Sheet			
City: /ULB: Barasat Municipality		State: West Bengal	
S. No.	Items		
1	Total Area (sq km)	:	34.5
2	Population as in 2011	:	283443
3	Population Growth Rate as in 2011 (%)	:	22.17
4	Total Number of Wards	:	32
5	Population per Ward (Thousands)	:	8700
6	Total Number of Household as in 2011	:	80637
7	Number of Household per Ward	:	2519.91
8	Surface Water Supply (MLD)	:	nil
9	Ground Water (GW) Supply (MLD)	:	31
10	Number of Bore Wells	:	54
11	Ground Water Extraction per Bore Well (MLD)	:	0.57
12	Number of Hand Pumps	:	1680
13	Ground Water Extraction per Hand Pump (lpcd)	:	600
14	Number of Pumping Stations for Water Supply	:	54
15	Total Pumping Capacity (MLD)	:	31
16	Average Water Supply Rate from ULB Sources (lpcd)	:	140
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	31
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	140
19	Total Sewage Generation (MLD)	:	24.8
20	Per Capita Sewage Generation (lpcd)	:	45.9
21	Sewage Collection (MLD)	:	Nil
22	Percentage of Sewage Collection (%)	:	Nil
23	Number of STPs	:	Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	Nil
25	Current Utilized Capacity of STPs (MLD)	:	Nil
26	Percentage Utilization of Installed Capacity (%)	:	Nil
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	Nil
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NA
		COD	: NA
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 7653.0
		COD	: 13010.0
		TKN	: 1530.6
30	Wastewater Disposal Means	:	Drain
31	Name of River/Streams for Wastewater Disposal	:	Sunti, Banikantha
32	Number of Drains/Nallah for Wastewater Disposal	:	Not Measured
33	Number of Water Bodies	:	650 (Approx)
34	Gross Area of Water Bodies (sq km)	:	5
35	Area of Water Bodies as % of Total Area	:	14

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Bardhaman Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		56
2	Population as in 2011	:		314638
3	Population Growth Rate as in 2011 (%)	:		10.17
4	Total Number of Wards	:		35
5	Population per Ward (Thousands)	:		8,160
6	Total Number of Household as in 2011	:		15148
7	Number of Household per Ward	:		433
8	Surface Water Supply (MLD)	:		Nil
9	Ground Water (GW) Supply (MLD)	:		32.55
10	Number of Bore Wells	:		52
11	Ground Water Extraction per Bore Well (MLD)	:		0.62
12	Number of Hand Pumps	:		2065
13	Ground Water Extraction per Hand Pump (lpcd)	:		300
14	Number of Pumping Stations for Water Supply	:		6
15	Total Pumping Capacity (MLD)	:		32.55
16	Average Water Supply Rate from ULB Sources (lpcd)	:		114
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		32.6
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		114.0
19	Total Sewage Generation (MLD)	:		32.6
20	Per Capita Sewage Generation (lpcd)	:		103.5
21	Sewage Collection (MLD)	:		Nil
22	Percentage of Sewage Collection (%)	:		Nil
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Nil
25	Current Utilized Capacity of STPs (MLD)	:		Nil
26	Percentage Utilization of Installed Capacity (%)	:		Nil
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Nil
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Nil
		COD	:	Nil
		TKN	:	Nil
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	8495.2
		COD	:	14441.9
		TKN	:	1699.0
30	Wastewater Disposal Means	:		Canal
31	Name of River/Streams for Wastewater Disposal	:		Eden
32	Number of Drains/Nallah for Wastewater Disposal	:		2
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Barrackpore Municipality			State: West Bengal	
S.	Items			
1	Total Area (sq km)	:		25
2	Population as in 2011	:		154475
3	Population Growth Rate as in 2011 (%)	:		6.98
4	Total Number of Wards	:		24.00
5	Population per Ward (Thousands)	:		6016
6	Total Number of Household as in 2001			30021
7	Number of Household per Ward			1251
8	Surface Water Supply (MLD)			Nil
9	Ground Water (GW) Supply (MLD)	:		31.73
10	Number of Bore Wells	:		35.00
11	Ground Water Extraction per Bore Well (MLD)	:		31.73
12	Number of Hand Pumps	:		500
13	Ground Water Extraction per Hand Pump (lpcd)	:		600
14	Number of Pumping Stations for Water Supply	:		35
15	Total Pumping Capacity (MLD)	:		31.73
16	Average Water Supply Rate from ULB Sources (lpcd)	:		118
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		31.73
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		118 (ULB Sources)
19	Total Sewage Generation (MLD)	:		25.38
20	Per Capita Sewage Generation (lpcd)	:		164.3
21	Sewage Collection (MLD)	:		Not Measured
22	Percentage of Sewage Collection (%)	:		Not Measured
23	Number of STPs	:		2
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	:	4170.8
		COD	:	7090.4
		TKN	:	834.2
30	Wastewater Disposal Means	:		Khal or river
31	Name of River/Streams for Wastewater Disposal	:		Ganga
32	Number of Drains/Nallah for Wastewater Disposal	:		4
33	Number of Water Bodies	:		4 Khals
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Basirhat Municipality			State: West Bengal	
S.	Items			
1	Total Area (sq km)	:	22.5	
2	Population as in 2011	:	127135	
3	Population Growth Rate as in 2011 (%)	:	12.39	
4	Total Number of Wards	:	22	
5	Population per Ward (Thousands)	:	5,686	
6	Total Number of Household as in 2011	:	29237	
7	Number of Household per Ward	:	1329	
8	Surface Water Supply (MLD)	:	Nil	
9	Ground Water (GW) Supply (MLD)	:	7.9	
10	Number of Bore Wells	:	22	
11	Ground Water Extraction per Bore Well (MLD)	:	0.96	
12	Number of Hand Pumps	:	1582	
13	Ground Water Extraction per Hand Pump (lpcd)	:	7.9	
14	Number of Pumping Stations for Water Supply	:	22	
15	Total Pumping Capacity (MLD)	:	7.9	
16	Average Water Supply Rate from ULB Sources (lpcd)	:	70	
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	7.9	
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	70	
19	Total Sewage Generation (MLD)	:	6.3	
20	Per Capita Sewage Generation (lpcd)	:	49.7	
21	Sewage Collection (MLD)	:	NA	
22	Percentage of Sewage Collection (%)	:	NA	
23	Number of STPs	:	Nil	
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	:	3432.6
		COD	:	5835.5
		TKN	:	686.5
30	Wastewater Disposal Means	:	River	
31	Name of River/Streams for Wastewater Disposal	:	Ichamoti River	
32	Number of Drains/Nallah for Wastewater Disposal	:	NA	
33	Number of Water Bodies	:	Major- 15	
34	Gross Area of Water Bodies (sq km)	:	NA	
35	Area of Water Bodies as % of Total Area	:	NA	

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: Berhampur Municipality			State: West Bengal	
S. No.	Items			Value
1	Total Area (sq km)	:		31.43
2	Population as in 2011	:		195363
3	Population Growth Rate as in 2011 (%)	:		21.97
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		8,200
6	Total Number of Household as in 2011	:		35000
7	Number of Household per Ward	:		1400
8	Surface Water Supply (MLD)	:		1.60
9	Ground Water (GW) Supply (MLD)	:		2.97
10	Number of Bore Wells	:		11
11	Ground Water Extraction per Bore Well (MLD)	:		Nil
12	Number of Hand Pumps	:		1300
13	Ground Water Extraction per Hand Pump (lpcd)	:		1000
14	Number of Pumping Stations for Water Supply	:		11
15	Total Pumping Capacity (MLD)	:		2.97
16	Average Water Supply Rate from ULB Sources (lpcd)	:		28
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		4.56
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		28
19	Total Sewage Generation (MLD)	:		3.65
20	Per Capita Sewage Generation (lpcd)	:		18.7
21	Sewage Collection (MLD)	:		2.9
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		Nil
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	:	5274.801
		COD	:	8967.1617
		TKN	:	1054.9602
30	Wastewater Disposal Means	:		Domestic
31	Name of River/Streams for Wastewater Disposal	:		Bandardaha Bil
32	Number of Drains/Nallah for Wastewater Disposal	:		5(Main Drain)
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Bhadreswar Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		8.28
2	Population as in 2011	:		101334
3	Population Growth Rate as in 2011 (%)	:		-4.47
4	Total Number of Wards	:		22
5	Population per Ward (Thousands)	:		4,606
6	Total Number of Household as in 2011	:		20000
7	Number of Household per Ward	:		909
8	Surface Water Supply (MLD)	:		1.24
9	Ground Water (GW) Supply (MLD)	:		19.36
10	Number of Bore Wells	:		26
11	Ground Water Extraction per Bore Well (MLD)	:		0.74
12	Number of Hand Pumps	:		206
13	Ground Water Extraction per Hand Pump (lpd)	:		NA
14	Number of Pumping Stations for Water Supply	:		26
15	Total Pumping Capacity (MLD)	:		18.86
16	Average Water Supply Rate from ULB Sources (lpcd)	:		100
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		20.6
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		100
19	Total Sewage Generation (MLD)	:		16.5
20	Per Capita Sewage Generation (lpcd)	:		162.6
21	Sewage Collection (MLD)	:		13.2
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		5
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		8.6
25	Current Utilized Capacity of STPs (MLD)	:		8.6
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	:	2736.0
		COD	:	4651.2
		TKN	:	547.2
30	Wastewater Disposal Means	:		Canal
31	Name of River/Streams for Wastewater Disposal	:		Garh Khal & DVC
32	Number of Drains/Nallah for Wastewater Disposal	:		25
33	Number of Water Bodies	:		250 Pond
34	Gross Area of Water Bodies (sq km)	:		0.26
35	Area of Water Bodies as % of Total Area	:		3.14

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB : Bhatpara Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		3.4
2	Population as in 2011	:		390,467
3	Population Growth Rate as in 2011 (%)	:		-11.74
4	Total Number of Wards	:		35
5	Population per Ward (Thousands)	:		11428.57
6	Total Number of Household as in 2011	:		510001
7	Number of Household per Ward	:		14571
8	Surface Water Supply (MLD)	:		Nil
9	Ground Water (GW) Supply (MLD)	:		52
10	Number of Bore Wells	:		71
11	Ground Water Extraction per Bore Well (MLD)	:		10.5
12	Number of Hand Pumps	:		Nil
13	Ground Water Extraction per Hand Pump (lpcd)	:		83
14	Number of Pumping Stations for Water Supply	:		Nil
15	Total Pumping Capacity (MLD)	:		Nil
16	Average Water Supply Rate from ULB Sources (lpcd)	:		4.6
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		52
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		4.6(ULB
19	Total Sewage Generation (MLD)	:		0.2
20	Per Capita Sewage Generation (lpcd)	:		106.5
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		0.2
23	Number of STPs	:		2
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		20
25	Current Utilized Capacity of STPs (MLD)	:		20.0
26	Percentage Utilization of Installed Capacity (%)	:		Not measured
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not measured
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	39
		COD	:	190
		TKN	:	3.4
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	10542.6
		COD	:	17922.4
		TKN	:	2108.5
30	Wastewater Disposal Means	:		River and Land
31	Name of River/Streams for Wastewater Disposal	:		Boatavilkhal
32	Number of Drains/Nallah for Wastewater Disposal	:		14
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Bidhannagar Municipality			State: West Bengal	
S.	Items			
1	Total Area (sq km)	:	30	
2	Population as in 2011	:	218323	
3	Population Growth Rate as in 2011 (%)	:	32.94	
4	Total Number of Wards	:	25	
5	Population per Ward (Thousands)	:	80,600	
6	Total Number of Household as in 2011	:	21000	
7	Number of Household per Ward	:	840	
8	Surface Water Supply (MLD)	:	16.0342	
9	Ground Water (GW) Supply (MLD)	:	11.102	
10	Number of Bore Wells	:	42	
11	Ground Water Extraction per Bore Well (MLD)	:	11.102	
12	Number of Hand Pumps	:	Nil	
13	Ground Water Extraction per Hand Pump (lpcd)	:	Nil	
14	Number of Pumping Stations for Water Supply	:	17	
15	Total Pumping Capacity (MLD)	:	27.3	
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA	
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	27.14 (ULB sources)	
18	Average Water Supply Rate from ULB & Non-ULB Sources	:	NA	
19	Total Sewage Generation (MLD)	:	21.7	
20	Per Capita Sewage Generation (lpcd)	:	99.4	
21	Sewage Collection (MLD)	:	17.4	
22	Percentage of Sewage Collection (%)	:	80.0	
23	Number of STPs	:	8.0	
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	405.5	
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	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	5894.7
		COD	:	10021.0
		TKN	:	1178.9
30	Wastewater Disposal Means	:	Khal	
31	Name of River/Streams for Wastewater Disposal	:	Bagjala Khal	
32	Number of Drains/Nallah for Wastewater Disposal	:	NA	
33	Number of Water Bodies	:	3	
34	Gross Area of Water Bodies (sq km)	:	NA	
35	Area of Water Bodies as % of Total Area	:	NA	

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Chakdaha Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		15.36
2	Population as in 2011	:		132855
3	Population Growth Rate as in 2011 (%)	:		52.77
4	Total Number of Wards	:		21
5	Population per Ward (Thousands)	:		4528
6	Total Number of Household as in 2011	:		23,229
7	Number of Household per Ward	:		1106
8	Surface Water Supply (MLD)	:		Nil
9	Ground Water (GW) Supply (MLD)	:		5.85
10	Number of Bore Wells	:		Nil
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps	:		253
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		15
15	Total Pumping Capacity (MLD)	:		5.85
16	Average Water Supply Rate from ULB Sources (lpcd)	:		22.71
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		5.85
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		22.71
19	Total Sewage Generation (MLD)	:		4.7
20	Per Capita Sewage Generation (lpcd)	:		35.2
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		Nil
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	:	3587.1
		COD	:	6098.0
		TKN	:	717.4
30	Wastewater Disposal Means	:		River or Land
31	Name of River/Streams for Wastewater Disposal	:		Hooghly river
32	Number of Drains/Nallah for Wastewater Disposal	:		Not Measured
33	Number of Water Bodies	:		NA
34	Gross Area of Water Bodies (sq km)	:		Not Measured
35	Area of Water Bodies as % of Total Area	:		Not Measured

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Champadani Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		6.5
2	Population as in 2011	:		110,983
3	Population Growth Rate as in 2011 (%)	:		7.51
4	Total Number of Wards	:		22
5	Population per Ward (Thousands)	:		5045
6	Total Number of Household as in 2011	:		25717
7	Number of Household per Ward	:		1169
8	Surface Water Supply (MLD)	:		3.009
9	Ground Water (GW) Supply (MLD)	:		18.057
10	Number of Bore Wells	:		30
11	Ground Water Extraction per Bore Well (MLD)	:		0.6
12	Number of Hand Pumps	:		245
13	Ground Water Extraction per Hand Pump (lpd)	:		Not Measured
14	Number of Pumping Stations for Water Supply	:		30
15	Total Pumping Capacity (MLD)	:		0.6
16	Average Water Supply Rate from ULB Sources (lpcd)	:		90
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		21.066(ULB Sources)
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		90(ULB Sources)
19	Total Sewage Generation (MLD)	:		16.9
20	Per Capita Sewage Generation (lpcd)	:		151.9
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Not Applicable
25	Current Utilized Capacity of STPs (MLD)	:		Not Applicable
26	Percentage Utilization of Installed Capacity (%)	:		Not Applicable
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not Applicable
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2996.5
		COD	:	5094.1
		TKN	:	599.3
30	Wastewater Disposal Means	:		River
31	Name of River/Streams for Wastewater Disposal	:		River Ganga & Canal
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	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Chandernagore Municipal Corporation			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		22.03
2	Population as in 2011	:		166949
3	Population Growth Rate as in 2011 (%)	:		2.94
4	Total Number of Wards	:		33
5	Population per Ward (Thousands)	:		41296
6	Total Number of Household as in 2011	:		5053.7
7	Number of Household per Ward	:		1251
8	Surface Water Supply (MLD)	:		20.46
9	Ground Water (GW) Supply (MLD)	:		19.09
10	Number of Bore Wells	:		190
11	Ground Water Extraction per Bore Well (MLD)	:		Not measured
12	Number of Hand Pumps	:		190
13	Ground Water Extraction per Hand Pump (lpcd)	:		Not measured
14	Number of Pumping Stations for Water Supply	:		Nil
15	Total Pumping Capacity (MLD)	:		Nil
16	Average Water Supply Rate from ULB Sources (lpcd)	:		135
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		39.55
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135(ULB
19	Total Sewage Generation (MLD)	:		31.6
20	Per Capita Sewage Generation (lpcd)	:		189.5
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		1.0
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		22.70 MLD
25	Current Utilized Capacity of STPs (MLD)	:		Not Applicable
26	Percentage Utilization of Installed Capacity (%)	:		Not Applicable
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not Applicable
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	4507.6
		COD	:	7663.0
		TKN	:	901.5
30	Wastewater Disposal Means	:		River
31	Name of River/Streams for Wastewater Disposal	:		Ganga
32	Number of Drains/Nallah for Wastewater Disposal	:		11
33	Number of Water Bodies	:		1052
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Dhulian Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		6.25
2	Population as in 2011	:		239,022
3	Population Growth Rate as in 2011 (%)	:		227.85
4	Total Number of Wards	:		19
5	Population per Ward (Thousands)	:		5,052
6	Total Number of Household as in 2011	:		17000
7	Number of Household per Ward	:		894
8	Surface Water Supply (MLD)	:		NIL
9	Ground Water (GW) Supply (MLD)	:		4.15
10	Number of Bore Wells	:		2
11	Ground Water Extraction per Bore Well (MLD)	:		2.07
12	Number of Hand Pumps	:		700
13	Ground Water Extraction per Hand Pump (lpcd)	:		600
14	Number of Pumping Stations for Water Supply	:		2
15	Total Pumping Capacity (MLD)	:		4.15
16	Average Water Supply Rate from ULB Sources (lpcd)	:		100
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		4.15
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		100 (ULB Sources)
19	Total Sewage Generation (MLD)	:		3.3
20	Per Capita Sewage Generation (lpcd)	:		13.9
21	Sewage Collection (MLD)	:		Not Collected
22	Percentage of Sewage Collection (%)	:		Not Applicable
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Not Applicable
25	Current Utilized Capacity of STPs (MLD)	:		Not Applicable
26	Percentage Utilization of Installed Capacity (%)	:		Not Applicable
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not Applicable
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	6453.6
		COD	:	10971.1
		TKN	:	1290.7
30	Wastewater Disposal Means	:		Domestic
31	Name of River/Streams for Wastewater Disposal	:		Ganga
32	Number of Drains/Nallah for Wastewater Disposal	:		Not counted
33	Number of Water Bodies	:		10
34	Gross Area of Water Bodies (sq km)	:		0.007
35	Area of Water Bodies as % of Total Area	:		0.11

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Habra Municipality			State: West Benngal	
S.	Items			
1	Total Area (sq km)	:	21.8	
2	Population as in 2011	:	149,675	
3	Population Growth Rate as in 2011 (%)	:	17.30	
4	Total Number of Wards	:	23	
5	Population per Ward (Thousands)	:	3,500	
6	Total Number of Household as in 2011	:	6391	
7	Number of Household per Ward	:	152	
8	Surface Water Supply (MLD)	:	nil	
9	Ground Water (GW) Supply (MLD)	:	2.4	
10	Number of Bore Wells	:	4	
11	Ground Water Extraction per Bore Well (MLD)	:	0.6	
12	Number of Hand Pumps	:	603	
13	Ground Water Extraction per Hand Pump (lpcd)	:	NA	
14	Number of Pumping Stations for Water Supply	:	4	
15	Total Pumping Capacity (MLD)	:	3(.028) and 1	
16	Average Water Supply Rate from ULB Sources (lpcd)	:	NA	
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	2.4 (Ground water	
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	NA	
19	Total Sewage Generation (MLD)	:	2.4	
20	Per Capita Sewage Generation (lpcd)	:	12.8	
21	Sewage Collection (MLD)	:	NA	
22	Percentage of Sewage Collection (%)	:	NA	
23	Number of STPs	:	Nil	
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	Not Applicable	
25	Current Utilized Capacity of STPs (MLD)	:	Not Applicable	
26	Percentage Utilization of Installed Capacity (%)	:	Not Applicable	
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	Not Applicable	
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	4041.2
		COD	:	6870.1
		TKN	:	808.2
30	Wastewater Disposal Means	:	Canal	
31	Name of River/Streams for Wastewater Disposal	:	Bagjala canal	
32	Number of Drains/Nallah for Wastewater Disposal	:	NA	
33	Number of Water Bodies	:	NA	
34	Gross Area of Water Bodies (sq km)	:	0.691814	
35	Area of Water Bodies as % of Total Area	:	3.17	

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Hooghly- Chinsurah Municipality			State: West Benngal	
S.	Items			
1	Total Area (sq km)	:	17.24	
2	Population as in 2011	:	177,209	
3	Population Growth Rate as in 2011 (%)	:	4.15	
4	Total Number of Wards	:	30	
5	Population per Ward (Thousands)	:	6,017	
6	Total Number of Household as in 2011	:	42000	
7	Number of Household per Ward	:	1400	
8	Surface Water Supply (MLD)	:	Nil	
9	Ground Water (GW) Supply (MLD)	:	31.59	
10	Number of Bore Wells	:	51	
11	Ground Water Extraction per Bore Well (MLD)	:	0.62	
12	Number of Hand Pumps	:	11	
13	Ground Water Extraction per Hand Pump (lpcd)	:	NA	
14	Number of Pumping Stations for Water Supply	:	Nil	
15	Total Pumping Capacity (MLD)	:	Nil	
16	Average Water Supply Rate from ULB Sources (lpcd)	:	120	
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	31.6	
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	120(ULB Source)	
19	Total Sewage Generation (MLD)	:	25.3	
20	Per Capita Sewage Generation (lpcd)	:	142.6	
21	Sewage Collection (MLD)	:	114.1	
22	Percentage of Sewage Collection (%)	:	NA	
23	Number of STPs	:	Nil	
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	Not Applicable	
25	Current Utilized Capacity of STPs (MLD)	:	Not Applicable	
26	Percentage Utilization of Installed Capacity (%)	:	Not Applicable	
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	Not Applicable	
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	4784.6
		COD	:	8133.9
		TKN	:	956.9
30	Wastewater Disposal Means	:	River	
31	Name of River/Streams for Wastewater Disposal	:	Ganga	
32	Number of Drains/Nallah for Wastewater Disposal	:	2030	
33	Number of Water Bodies	:	885	
34	Gross Area of Water Bodies (sq km)	:	2.12	
35	Area of Water Bodies as % of Total Area	:	12.30	

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Kalyani Municipality			State: West Bengal	
S.	Items			
1	Total Area (sq km)	:		29.21
2	Population as in 2011	:		100,620
3	Population Growth Rate as in 2011 (%)	:		22.76
4	Total Number of Wards	:		20
5	Population per Ward (Thousands)	:		5300
6	Total Number of Household as in 2011	:		18000
7	Number of Household per Ward	:		900
8	Surface Water Supply (MLD)	:		30
9	Ground Water (GW) Supply (MLD)	:		Nil
10	Number of Bore Wells	:		Nil
11	Ground Water Extraction per Bore Well (MLD)	:		Not Measured
12	Number of Hand Pumps	:		160
13	Ground Water Extraction per Hand Pump (lpcd)	:		Nil
14	Number of Pumping Stations for Water Supply	:		20
15	Total Pumping Capacity (MLD)	:		0.7644
16	Average Water Supply Rate from ULB Sources (lpcd)	:		175
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		30 (ULB Source)
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		175 (ULB Source)
19	Total Sewage Generation (MLD)	:		24.0
20	Per Capita Sewage Generation (lpcd)	:		238.5
21	Sewage Collection (MLD)	:		19.2
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		1
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		17
25	Current Utilized Capacity of STPs (MLD)	:		17.0
26	Percentage Utilization of Installed Capacity (%)	:		nil
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		17
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	200
		COD	:	300
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2717
		COD	:	4618
		TKN	:	543.3
30	Wastewater Disposal Means	:		Canal or River
31	Name of River/Streams for Wastewater Disposal	:		Ganga River
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		17
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Kamarhati Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		11
2	Population as in 2011	:		336579
3	Population Growth Rate as in 2011 (%)	:		5
4	Total Number of Wards	:		35
5	Population per Ward (Thousands)	:		9462
6	Total Number of Household as in 2011	:		51083
7	Number of Household per Ward	:		1460
8	Surface Water Supply (MLD)	:		14
9	Ground Water (GW) Supply (MLD)	:		16
10	Number of Bore Wells	:		28
11	Ground Water Extraction per Bore Well (MLD)	:		16
12	Number of Hand Pumps	:		453
13	Ground Water Extraction per Hand Pump (lpcd)	:		Not Measured
14	Number of Pumping Stations for Water Supply	:		3
15	Total Pumping Capacity (MLD)	:		Not Available
16	Average Water Supply Rate from ULB Sources (lpcd)	:		81.45
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		29.98
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		81.45(ULB Sources)
19	Total Sewage Generation (MLD)	:		24
20	Per Capita Sewage Generation (lpcd)	:		71
21	Sewage Collection (MLD)	:		Not collected
22	Percentage of Sewage Collection (%)	:		Not applicable
23	Number of STPs	:		1
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		40
25	Current Utilized Capacity of STPs (MLD)	:		Not applicable
26	Percentage Utilization of Installed Capacity (%)	:		Not applicable
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not applicable
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not applicable
		COD	:	Not applicable
		TKN	:	Not applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	9088
		COD	:	15449
		TKN	:	1818
30	Wastewater Disposal Means	:		River
31	Name of River/Streams for Wastewater Disposal	:		Ganga
32	Number of Drains/Nallah for Wastewater Disposal	:		7
33	Number of Water Bodies	:		Data not counted
34	Gross Area of Water Bodies (sq km)	:		Not Measured
35	Area of Water Bodies as % of Total Area	:		Not Measured

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Kanchapara Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		9.07
2	Population as in 2011	:		122181
3	Population Growth Rate as in 2011 (%)	:		-3.18
4	Total Number of Wards	:		24
5	Population per Ward (Thousands)	:		5258
6	Total Number of Household as in 2011	:		22239
7	Number of Household per Ward	:		927
8	Surface Water Supply (MLD)	:		9.1
9	Ground Water (GW) Supply (MLD)	:		9.91
10	Number of Bore Wells	:		30
11	Ground Water Extraction per Bore Well (MLD)	:		9.91
12	Number of Hand Pumps	:		302
13	Ground Water Extraction per Hand Pump (lpcd)	:		0.33
14	Number of Pumping Stations for Water Supply	:		Ni
15	Total Pumping Capacity (MLD)	:		Nil
16	Average Water Supply Rate from ULB Sources (lpcd)	:		113(ULB Source)
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		19.019(ULB
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		113(ULB Source)
19	Total Sewage Generation (MLD)	:		15.22
20	Per Capita Sewage Generation (lpcd)	:		124.5300006
21	Sewage Collection (MLD)	:		12.17216
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		3
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		12.5
25	Current Utilized Capacity of STPs (MLD)	:		Not measured
26	Percentage Utilization of Installed Capacity (%)	:		Not measured
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not measured
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not measured
		COD	:	Not measured
		TKN	:	Not measured
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	3299
		COD	:	5608
		TKN	:	660
30	Wastewater Disposal Means	:		Ganga
31	Name of River/Streams for Wastewater Disposal	:		Bagher khal
32	Number of Drains/Nallah for Wastewater Disposal	:		603
33	Number of Water Bodies	:		175
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Khardaha Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		6.87
2	Population as in 2011	:		111,130
3	Population Growth Rate as in 2011 (%)	:		-4.41
4	Total Number of Wards	:		22
5	Population per Ward (Thousands)	:		4,972
6	Total Number of Household as in 2011	:		21754
7	Number of Household per Ward	:		988.81
8	Surface Water Supply (MLD)	:		Nil
9	Ground Water (GW) Supply (MLD)	:		75
10	Number of Bore Wells	:		25
11	Ground Water Extraction per Bore Well (MLD)	:		75
12	Number of Hand Pumps	:		465
13	Ground Water Extraction per Hand Pump (lpcd)	:		Nil
14	Number of Pumping Stations for Water Supply	:		25
15	Total Pumping Capacity (MLD)	:		75
16	Average Water Supply Rate from ULB Sources (lpcd)	:		35
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		75
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		35
19	Total Sewage Generation (MLD)	:		60
20	Per Capita Sewage Generation (lpcd)	:		539.9082156
21	Sewage Collection (MLD)	:		48
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Not Applicable
25	Current Utilized Capacity of STPs (MLD)	:		Not Applicable
26	Percentage Utilization of Installed Capacity (%)	:		Not Applicable
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not Applicable
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	3001
		COD	:	5101
		TKN	:	600
30	Wastewater Disposal Means	:		River
31	Name of River/Streams for Wastewater Disposal	:		Ganga
32	Number of Drains/Nallah for Wastewater Disposal	:		Not counted
33	Number of Water Bodies	:		Not counted
34	Gross Area of Water Bodies (sq km)	:		Not Measured
35	Area of Water Bodies as % of Total Area	:		Not Measured

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Konnagar Municipality			State: West Bengal	
S.	Items			
1	Total Area (sq km)	:	4	
2	Population as in 2011	:	124585	
3	Population Growth Rate as in 2011 (%)	:	73	
4	Total Number of Wards	:	20	
5	Population per Ward (Thousands)	:	3808	
6	Total Number of Household as in 2011	:	14181	
7	Number of Household per Ward	:	709	
8	Surface Water Supply (MLD)	:	2	
9	Ground Water (GW) Supply (MLD)	:	8	
10	Number of Bore Wells	:	23	
11	Ground Water Extraction per Bore Well (MLD)	:	Nil	
12	Number of Hand Pumps	:	441	
13	Ground Water Extraction per Hand Pump (lpcd)	:	NA	
14	Number of Pumping Stations for Water Supply	:	2	
15	Total Pumping Capacity (MLD)	:	7.5	
16	Average Water Supply Rate from ULB Sources (lpcd)	:	120	
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	Nil	
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	Nil	
19	Total Sewage Generation (MLD)	:	7.52	
20	Per Capita Sewage Generation (lpcd)	:	60	
21	Sewage Collection (MLD)	:	6.016	
22	Percentage of Sewage Collection (%)	:	NA	
23	Number of STPs	:	1	
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	22	
25	Current Utilized Capacity of STPs (MLD)	:	22	
26	Percentage Utilization of Installed Capacity (%)	:	22	
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	22	
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	3363.8
		COD	:	5718.5
		TKN	:	672.8
30	Wastewater Disposal Means	:	Canal or River	
31	Name of River/Streams for Wastewater Disposal	:	Railand Canal,	
32	Number of Drains/Nallah for Wastewater Disposal	:	NA	
33	Number of Water Bodies	:	303	
34	Gross Area of Water Bodies (sq km)	:	NA	
35	Area of Water Bodies as % of Total Area	:	NA	

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Krishnanagar Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		15.962
2	Population as in 2011	:		181,182
3	Population Growth Rate as in 2011 (%)	:		30.24
4	Total Number of Wards	:		24
5	Population per Ward (Thousands)	:		6,250
6	Total Number of Household as in 2011	:		33000
7	Number of Household per Ward	:		1375
8	Surface Water Supply (MLD)	:		0.546
9	Ground Water (GW) Supply (MLD)	:		10.92
10	Number of Bore Wells	:		30
11	Ground Water Extraction per Bore Well (MLD)	:		Not measured
12	Number of Hand Pumps	:		1135
13	Ground Water Extraction per Hand Pump (lpcd)	:		Not measured
14	Number of Pumping Stations for Water Supply	:		8
15	Total Pumping Capacity (MLD)	:		10.97
16	Average Water Supply Rate from ULB Sources (lpcd)			120(ULB sources)
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		10.97 ULB Source
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		120(ULB sources)
19	Total Sewage Generation (MLD)	:		8.8
20	Per Capita Sewage Generation (lpcd)	:		48.5
21	Sewage Collection (MLD)	:		Not Applicable
22	Percentage of Sewage Collection (%)	:		Not Applicable
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Not Applicable
25	Current Utilized Capacity of STPs (MLD)	:		Not Applicable
26	Percentage Utilization of Installed Capacity (%)	:		Not Applicable
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not Applicable
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	4891.9
		COD	:	8316.3
		TKN	:	978.4
30	Wastewater Disposal Means	:		Land
31	Name of River/Streams for Wastewater Disposal	:		Churni River
32	Number of Drains/Nallah for Wastewater Disposal	:		8
33	Number of Water Bodies	:		Not counted
34	Gross Area of Water Bodies (sq km)	:		Not Measured
35	Area of Water Bodies as % of Total Area	:		Not Measured

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Madhyamgram Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		21.5
2	Population as in 2011	:		198,964
3	Population Growth Rate as in 2011 (%)	:		27.99
4	Total Number of Wards	:		25
5	Population per Ward (Thousands)	:		7831
6	Total Number of Household as in 2011	:		39152
7	Number of Household per Ward	:		1566.08
8	Surface Water Supply (MLD)	:		Nil
9	Ground Water (GW) Supply (MLD)	:		24
10	Number of Bore Wells	:		52
11	Ground Water Extraction per Bore Well (MLD)	:		498
12	Number of Hand Pumps	:		Nil
13	Ground Water Extraction per Hand Pump (lpcd)	:		Nil
14	Number of Pumping Stations for Water Supply	:		Nil
15	Total Pumping Capacity (MLD)	:		Nil
16	Average Water Supply Rate from ULB Sources (lpcd)	:		82.47
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		24(ULB Sources)
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		82.47(ULB
19	Total Sewage Generation (MLD)	:		19.2
20	Per Capita Sewage Generation (lpcd)	:		96.5
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		Nil
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	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	5372.0
		COD	:	9132.4
		TKN	:	1074.4
30	Wastewater Disposal Means	:		Khal
31	Name of River/Streams for Wastewater Disposal	:		Noai Canal
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		14
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB Mahestala Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:	42.721	
2	Population as in 2011	:	449,423	
3	Population Growth Rate as in 2011 (%)	:	15.47	
4	Total Number of Wards	:	35	
5	Population per Ward (Thousands)	:	12,840	
6	Total Number of Household as in 2011	:	99478	
7	Number of Household per Ward	:	2842	
8	Surface Water Supply (MLD)	:	6	
9	Ground Water (GW) Supply (MLD)	:	0.1	
10	Number of Bore Wells	:	1	
11	Ground Water Extraction per Bore Well (MLD)	:	1	
12	Number of Hand Pumps	:	583	
13	Ground Water Extraction per Hand Pump (lpcd)	:	225	
14	Number of Pumping Stations for Water Supply	:	1	
15	Total Pumping Capacity (MLD)	:	Not given	
16	Average Water Supply Rate from ULB Sources (lpcd)	:	35.6	
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	6.1 ULB	
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	35.6 ULB	
19	Total Sewage Generation (MLD)	:	4.88	
20	Per Capita Sewage Generation (lpcd)	:	10.85836728	
21	Sewage Collection (MLD)	:	Not	
22	Percentage of Sewage Collection (%)	:	Not	
23	Number of STPs	:	Nil	
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	Not	
25	Current Utilized Capacity of STPs (MLD)	:	Not	
26	Percentage Utilization of Installed Capacity (%)	:	Not	
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	Not	
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not
		COD	:	Not
		TKN	:	Not
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	12134.421
		COD	:	20628.5157
		TKN	:	2426.8842
30	Wastewater Disposal Means	:	Land	
31	Name of River/Streams for Wastewater Disposal	:	Rives	
32	Number of Drains/Nallah for Wastewater Disposal	:	7	
33	Number of Water Bodies	:	NA	
34	Gross Area of Water Bodies (sq km)	:	Not	
35	Area of Water Bodies as % of Total Area	:	Not	

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Naihati Municipality			State: West Bengal	
S.	Items			
1	Total Area (sq km)	:		11.55
2	Population as in 2011	:		221,762
3	Population Growth Rate as in 2011 (%)	:		2.94
4	Total Number of Wards	:		31
5	Population per Ward (Thousands)	:		7,003
6	Total Number of Household as in 2011	:		23522
7	Number of Household per Ward	:		759
8	Surface Water Supply (MLD)	:		nil
9	Ground Water (GW) Supply (MLD)	:		23.5482
10	Number of Bore Wells	:		43
11	Ground Water Extraction per Bore Well (MLD)	:		0.54763255
12	Number of Hand Pumps	:		300
13	Ground Water Extraction per Hand Pump (lpcd)	:		nil
14	Number of Pumping Stations for Water Supply	:		43
15	Total Pumping Capacity (MLD)	:		23.5482
16	Average Water Supply Rate from ULB Sources (lpcd)	:		108.5
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		23.5
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		108.46(ULB
19	Total Sewage Generation (MLD)	:		18.8
20	Per Capita Sewage Generation (lpcd)	:		84.9
21	Sewage Collection (MLD)	:		Not Measured
22	Percentage of Sewage Collection (%)	:		Not Measured
23	Number of STPs	:		2
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		11.6
25	Current Utilized Capacity of STPs (MLD)	:		11.6
26	Percentage Utilization of Installed Capacity (%)	:		11.6
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not Measured
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Measured
		COD	:	Not Measured
		TKN	:	Not Measured
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	5987.6
		COD	:	10178.9
		TKN	:	1197.5
30	Wastewater Disposal Means	:		River
31	Name of River/Streams for Wastewater Disposal	:		Ganga
32	Number of Drains/Nallah for Wastewater Disposal	:		6
33	Number of Water Bodies	:		Not counted
34	Gross Area of Water Bodies (sq km)	:		Not Measured
35	Area of Water Bodies as % of Total Area	:		Not Measured

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB- New Barrackpore Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		6.89
2	Population as in 2011	:		134825
3	Population Growth Rate as in 2011 (%)	:		62.08
4	Total Number of Wards	:		20
5	Population per Ward (Thousands)	:		4,000
6	Total Number of Household (Holdings) as in 2011	:		18500
7	Number of Household per Ward	:		925
8	Surface Water Supply (MLD)	:		Nil
9	Ground Water (GW) Supply (MLD)	:		13.24
10	Number of Bore Wells	:		15
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps	:		300
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		23
15	Total Pumping Capacity (MLD)	:		13.24
16	Average Water Supply Rate from ULB Sources (lpcd)	:		105
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		13.24
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		105
19	Total Sewage Generation (MLD)	:		10.6
20	Per Capita Sewage Generation (lpcd)	:		78.6
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Not Applicable
25	Current Utilized Capacity of STPs (MLD)	:		Not Applicable
26	Percentage Utilization of Installed Capacity (%)	:		Not Applicable
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not Applicable
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	3640.3
		COD	:	6188.5
		TKN	:	728.1
30	Wastewater Disposal Means	:		Canal
31	Name of River/Streams for Wastewater Disposal	:		Noai Canal &
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		200
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Panihati Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		19.38
2	Population as in 2011	:		383522
3	Population Growth Rate as in 2011 (%)	:		10.09
4	Total Number of Wards	:		35
5	Population per Ward (Thousands)	:		10,958
8	Surface Water Supply (MLD)	:		2
9	Ground Water (GW) Supply (MLD)	:		34
10	Number of Bore Wells	:		68
11	Ground Water Extraction per Bore Well (MLD)	:		42.75
12	Number of Hand Pumps	:		1500
13	Ground Water Extraction per Hand Pump (lpcd)	:		Not Measured
14	Number of Pumping Stations for Water Supply	:		68
15	Total Pumping Capacity (MLD)	:		42.75
16	Average Water Supply Rate from ULB Sources (lpcd)	:		117
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		36(ULB Source)
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		117(ULB Source)
19	Total Sewage Generation (MLD)	:		28.8
20	Per Capita Sewage Generation (lpcd)	:		75.1
21	Sewage Collection (MLD)	:		Not collected
22	Percentage of Sewage Collection (%)	:		Not Applicable
23	Number of STPs	:		1
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		12
25	Current Utilized Capacity of STPs (MLD)	:		Not Applicable
26	Percentage Utilization of Installed Capacity (%)	:		Not Applicable
27	Capacity of STPs Sanctioned under JNNURM & Others	:		Not Applicable
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	10355.1
		COD	:	17603.7
		TKN	:	2071.0
30	Wastewater Disposal Means	:		Canal
31	Name of River/Streams for Wastewater Disposal	:		Khardaha canal
32	Number of Drains/Nallah for Wastewater Disposal	:		4
33	Number of Water Bodies	:		93
34	Gross Area of Water Bodies (sq km)	:		Not Measured
35	Area of Water Bodies as % of Total Area	:		Not Measured

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Rajarhat Gopalpur Municipality			State: West Benngal	
S.	Items			
1	Total Area (sq km)	:	28	
2	Population as in 2011	:	404991	
3	Population Growth Rate as in 2011 (%)	:	49.01	
4	Total Number of Wards	:	35	
5	Population per Ward (Thousands)	:	7,765	
6	Total Number of Household as in 2011	:	54356.2	
7	Number of Household per Ward	:	1553	
8	Surface Water Supply (MLD)	:	Nil	
9	Ground Water (GW) Supply (MLD)	:	14	
10	Number of Bore Wells	:	62	
11	Ground Water Extraction per Bore Well (MLD)	:	0.03	
12	Number of Hand Pumps	:	1500	
13	Ground Water Extraction per Hand Pump (lpcd)	:	Not Measured	
14	Number of Pumping Stations for Water Supply	:	62	
15	Total Pumping Capacity (MLD)	:	0.03	
16	Average Water Supply Rate from ULB Sources (lpcd)	:	Not Measured	
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	14.0	
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	Not Measured	
19	Total Sewage Generation (MLD)	:	11.2	
20	Per Capita Sewage Generation (lpcd)	:	27.7	
21	Sewage Collection (MLD)	:	11.2	
22	Percentage of Sewage Collection (%)	:	NA	
23	Number of STPs	:	Nil	
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	Not Applicable	
25	Current Utilized Capacity of STPs (MLD)	:	Not Applicable	
26	Percentage Utilization of Installed Capacity (%)	:	Not Applicable	
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	Not Applicable	
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	10934.8
		COD	:	18589.1
		TKN	:	2187.0
30	Wastewater Disposal Means	:	Canal	
31	Name of River/Streams for Wastewater Disposal	:	Noai Canal &	
32	Number of Drains/Nallah for Wastewater Disposal	:	NA	
33	Number of Water Bodies	:	NA	
34	Gross Area of Water Bodies (sq km)	:	0.74	
35	Area of Water Bodies as % of Total Area	:	2.64	

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: (Source: Rajpur -Sonarpur Municipality)			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		49.25
2	Population as in 2011	:		423806
3	Population Growth Rate as in 2011 (%)	:		25.76
4	Total Number of Wards	:		35
5	Population per Ward (Thousands)	:		12,085
6	Total Number of Household as in 2011	:		105000
7	Number of Household per Ward	:		3000
8	Surface Water Supply (MLD)	:		Nil
9	Ground Water (GW) Supply (MLD)	:		3
10	Number of Bore Wells	:		26
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps	:		2200
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		26
15	Total Pumping Capacity (MLD)	:		2.5
16	Average Water Supply Rate from ULB Sources (lpcd)	:		135
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		3(ULB Source)
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135(ULB
19	Total Sewage Generation (MLD)	:		2.4
20	Per Capita Sewage Generation (lpcd)	:		5.7
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Not Applicable
25	Current Utilized Capacity of STPs (MLD)	:		Not Applicable
26	Percentage Utilization of Installed Capacity (%)	:		Not Applicable
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not Applicable
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	11442.8
		COD	:	19452.7
		TKN	:	2288.6
30	Wastewater Disposal Means	:		Domestic
31	Name of River/Streams for Wastewater Disposal	:		Adi Ganga
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		26
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Fact -Sheet				
City: /ULB: Ranaghat Municipality			State: Uttar Pradesh	
S. No.	Items			
1	Total Area (sq km)	:	7.72	
2	Population as in 2011	:	235,583	
3	Population Growth Rate as in 2011 (%)	:	242.65	
4	Total Number of Wards	:	19	
5	Population per Ward (Thousands)	:	3,965	
6	Total Number of Household as in 2011	:	17253	
7	Number of Household per Ward	:	908	
8	Surface Water Supply (MLD)	:	Nil	
9	Ground Water (GW) Supply (MLD)	:	4.66	
10	Number of Bore Wells	:	11	
11	Ground Water Extraction per Bore Well (MLD)	:	Not Measured	
12	Number of Hand Pumps	:	1000	
13	Ground Water Extraction per Hand Pump (lpcd)	:	300	
14	Number of Pumping Stations for Water Supply	:	11	
15	Total Pumping Capacity (MLD)	:	4.66	
16	Average Water Supply Rate from ULB Sources (lpcd)	:	181.9	
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	0.4	
18	Average Water Supply Rate from ULB & Non-ULB Sources	:	181.9	
19	Total Sewage Generation (MLD)	:	3.7	
20	Per Capita Sewage Generation (lpcd)	:	15.8	
21	Sewage Collection (MLD)	:	Not collected	
22	Percentage of Sewage Collection (%)	:	Not Applicable	
23	Number of STPs	:	Nil	
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	Not Applicable	
25	Current Utilized Capacity of STPs (MLD)	:	Not Applicable	
26	Percentage Utilization of Installed Capacity (%)	:	Not Applicable	
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	Not Applicable	
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	6360.7
		COD	:	10813.3
		TKN	:	1272.1
30	Wastewater Disposal Means	:	Thru canal	
31	Name of River/Streams for Wastewater Disposal	:	River Churni	
32	Number of Drains/Nallah for Wastewater Disposal	:	NIL	
33	Number of Water Bodies	:	26	
34	Gross Area of Water Bodies (sq km)	:	No record	
35	Area of Water Bodies as % of Total Area	:	No record	

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Rishra Municipality			State: West Bengal	
S.	Items			
1	Total Area (sq km)	:	6.48	
2	Population as in 2011	:	124591	
3	Population Growth Rate as in 2011 (%)	:	10.00	
4	Total Number of Wards	:	23	
5	Population per Ward (Thousands)	:	5417	
6	Total Number of Household as in 2011	:	28169	
7	Number of Household per Ward	:	1225	
8	Surface Water Supply (MLD)	:	4	
9	Ground Water (GW) Supply (MLD)	:	9.89	
10	Number of Bore Wells	:	25	
11	Ground Water Extraction per Bore Well (MLD)	:	0.3956	
12	Number of Hand Pumps	:	263	
13	Ground Water Extraction per Hand Pump (lpcd)	:	NA	
14	Number of Pumping Stations for Water Supply	:	25	
15	Total Pumping Capacity (MLD)	:	9.89	
16	Average Water Supply Rate from ULB Sources (lpcd)	:	111	
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	13.9	
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	111 (ULB	
19	Total Sewage Generation (MLD)	:	11.1	
20	Per Capita Sewage Generation (lpcd)	:	89.3	
21	Sewage Collection (MLD)	:	NA	
22	Percentage of Sewage Collection (%)	:	NA	
23	Number of STPs	:	Nil	
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	Not Applicable	
25	Current Utilized Capacity of STPs (MLD)	:	Not Applicable	
26	Percentage Utilization of Installed Capacity (%)	:	Not Applicable	
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	Not Applicable	
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	3363.8
		COD	:	5718.5
		TKN	:	672.8
30	Wastewater Disposal Means	:	River	
31	Name of River/Streams for Wastewater Disposal	:	Ganga	
32	Number of Drains/Nallah for Wastewater Disposal	:	8	
33	Number of Water Bodies	:	177	
34	Gross Area of Water Bodies (sq km)	:	NA	
35	Area of Water Bodies as % of Total Area	:	NA	

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Santipur Municipality			State: Uttar Pradesh	
S.	Items			
1	Total Area (sq km)	:		25.8
2	Population as in 2011	:		151,774
3	Population Growth Rate as in 2011 (%)	:		9.79
4	Total Number of Wards	:		24
5	Population per Ward (Thousands)	:		6,324
6	Total Number of Household as in 2011	:		36287
7	Number of Household per Ward	:		1512
8	Surface Water Supply (MLD)	:		Nil
9	Ground Water (GW) Supply (MLD)	:		9.10
10	Number of Bore Wells	:		9
11	Ground Water Extraction per Bore Well (MLD)	:		1.82
12	Number of Hand Pumps	:		1063
13	Ground Water Extraction per Hand Pump (lpcd)	:		800
14	Number of Pumping Stations for Water Supply	:		9
15	Total Pumping Capacity (MLD)	:		1.82(ULB
16	Average Water Supply Rate from ULB Sources (lpcd)	:		40
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		9.1(ULB Sources)
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		40 ULB Source
19	Total Sewage Generation (MLD)	:		7.3
20	Per Capita Sewage Generation (lpcd)	:		48.0
21	Sewage Collection (MLD)	:		Not Collected
22	Percentage of Sewage Collection (%)	:		Not Applicable
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Not Applicable
25	Current Utilized Capacity of STPs (MLD)	:		Not Applicable
26	Percentage Utilization of Installed Capacity (%)	:		Not Applicable
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not Applicable
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	4097.9
		COD	:	6966.4
		TKN	:	819.6
30	Wastewater Disposal Means	:		Land
31	Name of River/Streams for Wastewater Disposal	:		Data not
32	Number of Drains/Nallah for Wastewater Disposal	:		Data not
33	Number of Water Bodies	:		65
34	Gross Area of Water Bodies (sq km)	:		Data not
35	Area of Water Bodies as % of Total Area	:		Data not

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Serampore Municipality			State: West Bengal	
S.	Items			
1	Total Area (sq km)	:		17.6
2	Population as in 2011	:		183,339
3	Population Growth Rate as in 2011 (%)	:		-7.38
4	Total Number of Wards	:		29
5	Population per Ward (Thousands)	:		6,323
6	Total Number of Household as in 2011	:		26982
7	Number of Household per Ward	:		931
8	Surface Water Supply (MLD)	:		1.14
9	Ground Water (GW) Supply (MLD)	:		8.89
10	Number of Bore Wells	:		6
11	Ground Water Extraction per Bore Well (MLD)	:		Not Available
12	Number of Hand Pumps	:		Not Available
13	Ground Water Extraction per Hand Pump (lpcd)	:		Not Available
14	Number of Pumping Stations for Water Supply	:		Not Available
15	Total Pumping Capacity (MLD)	:		14.88
16	Average Water Supply Rate from ULB Sources (lpcd)	:		129
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		Not Available
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135.0
19	Total Sewage Generation (MLD)	:		19.0
20	Per Capita Sewage Generation (lpcd)	:		103.5
21	Sewage Collection (MLD)	:		17.0
22	Percentage of Sewage Collection (%)	:		35%
23	Number of STPs	:		1
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		19
25	Current Utilized Capacity of STPs (MLD)	:		17.0
26	Percentage Utilization of Installed Capacity (%)	:		90%
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not Available
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Available
		COD	:	Not Available
		TKN	:	Not Available
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	4950.153
		COD	:	8415.2601
		TKN	:	990.0306
30	Wastewater Disposal Means	:		River
31	Name of River/Streams for Wastewater Disposal	:		Ganga
32	Number of Drains/Nallah for Wastewater Disposal	:		90
33	Number of Water Bodies	:		165
34	Gross Area of Water Bodies (sq km)	:		0.26
35	Area of Water Bodies as % of Total Area	:		1.44

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: South Dum Dum Municipality			State: West Bengal	
S.	Items			
1	Total Area (sq km)	:	17.39	
2	Population as in 2011	:	410,524	
3	Population Growth Rate as in 2011 (%)	:	32.77	
4	Total Number of Wards	:	35	
5	Population per Ward (Thousands)	:	11,541	
6	Total Number of Household as in 2011	:	80000	
7	Number of Household per Ward	:	2286	
8	Surface Water Supply (MLD)	:	18.20	
9	Ground Water (GW) Supply (MLD)	:	43.22	
10	Number of Bore Wells	:	131	
11	Ground Water Extraction per Bore Well (MLD)	:	43.22	
12	Number of Hand Pumps	:	3500	
13	Ground Water Extraction per Hand Pump (lpcd)	:	NA	
14	Number of Pumping Stations for Water Supply	:	3	
15	Total Pumping Capacity (MLD)	:	2 (9.10) and 1	
16	Average Water Supply Rate from ULB Sources (lpcd)	:	96	
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	61.42 (ULB sources)	
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	96 (ULB sources)	
19	Total Sewage Generation (MLD)	:	49.1	
20	Per Capita Sewage Generation (lpcd)	:	119.7	
21	Sewage Collection (MLD)	:	NA	
22	Percentage of Sewage Collection (%)	:	NA	
23	Number of STPs	:	Nil	
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	Not Applicable	
25	Current Utilized Capacity of STPs (MLD)	:	Not Applicable	
26	Percentage Utilization of Installed Capacity (%)	:	Not Applicable	
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	Not Applicable	
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	11084.1
		COD	:	18843.1
		TKN	:	2216.8
30	Wastewater Disposal Means	:	Canal	
31	Name of River/Streams for Wastewater Disposal	:	Bagjala canal	
32	Number of Drains/Nallah for Wastewater Disposal	:	Not counted	
33	Number of Water Bodies	:	66	
34	Gross Area of Water Bodies (sq km)	:	10.8	
35	Area of Water Bodies as % of Total Area	:	62.1	

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Titagarh Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:	3.24	
2	Population as in 2011	:	118426	
3	Population Growth Rate as in 2011 (%)	:	-4.65	
4	Total Number of Wards	:	23	
5	Population per Ward (Thousands)	:	5,461	
6	Total Number of Household as in 2011	:	5461	
7	Number of Household per Ward	:	237	
8	Surface Water Supply (MLD)	:	Nil	
9	Ground Water (GW) Supply (MLD)	:	9.625	
10	Number of Bore Wells	:	13	
11	Ground Water Extraction per Bore Well (MLD)	:	19	
12	Number of Hand Pumps	:	3	
13	Ground Water Extraction per Hand Pump (lpcd)	:	77	
14	Number of Pumping Stations for Water Supply	:	Nil	
15	Total Pumping Capacity (MLD)	:	Nil	
16	Average Water Supply Rate from ULB Sources (lpcd)	:	77	
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	10.525	
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	77(ULB Sources)	
19	Total Sewage Generation (MLD)	:	8.42	
20	Per Capita Sewage Generation (lpcd)	:	71	
21	Sewage Collection (MLD)	:	7.6	
22	Percentage of Sewage Collection (%)	:	NA	
23	Number of STPs	:	1	
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	9	
25	Current Utilized Capacity of STPs (MLD)	:	9	
26	Percentage Utilization of Installed Capacity (%)	:	Not Measured	
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	Not Measured	
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Measured
		COD	:	Not Measured
		TKN	:	Not Measured
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	3197.5
		COD	:	5435.8
		TKN	:	639.5
30	Wastewater Disposal Means	:	Land or river	
31	Name of River/Streams for Wastewater Disposal	:	Ganga	
32	Number of Drains/Nallah for Wastewater Disposal	:	3	
33	Number of Water Bodies	:	2	
34	Gross Area of Water Bodies (sq km)	:	NA	
35	Area of Water Bodies as % of Total Area	:	NA	

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Arambagh Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		34.75
2	Population as in 2011	:		67000
3	Population Growth Rate as in 2011 (%)	:		19.344
4	Total Number of Wards	:		18
5	Population per Ward (Thousands)	:		3,722
6	Total Number of Household as in 2011	:		13400
7	Number of Household per Ward	:		744
8	Surface Water Supply (MLD)	:		Nil
9	Ground Water (GW) Supply (MLD)	:		3.84
10	Number of Bore Wells	:		24
11	Ground Water Extraction per Bore Well (MLD)	:		0.16
12	Number of Hand Pumps	:		600
13	Ground Water Extraction per Hand Pump (lpcd)	:		70
14	Number of Pumping Stations for Water Supply	:		23
15	Total Pumping Capacity (MLD)	:		3.84
16	Average Water Supply Rate from ULB Sources (lpcd)	:		70
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		3.84(ULB sources)
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		70(ULB sources)
19	Total Sewage Generation (MLD)	:		2.9
20	Per Capita Sewage Generation (lpcd)	:		43.0
21	Sewage Collection (MLD)	:		Nil
22	Percentage of Sewage Collection (%)	:		Nil
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Nil
25	Current Utilized Capacity of STPs (MLD)	:		Nil
26	Percentage Utilization of Installed Capacity (%)	:		Nil
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Nil
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	0.0
		COD	:	0.0
		TKN	:	0.0
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1809.0
		COD	:	3075.3
		TKN	:	361.8
30	Wastewater Disposal Means	:		River
31	Name of River/Streams for Wastewater Disposal	:		Darakeswar &
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		261 Pond
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Baduria Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:	22.43	
2	Population as in 2011	:	52500	
3	Population Growth Rate as in 2011 (%)	:	2.5	
4	Total Number of Wards	:	17	
5	Population per Ward (Thousands)	:	3,088	
6	Total Number of Household as in 2011	:	12065	
7	Number of Household per Ward	:	710	
8	Surface Water Supply (MLD)	:	Nil	
9	Ground Water (GW) Supply (MLD)	:	3.15	
10	Number of Bore Wells	:	Nil	
11	Ground Water Extraction per Bore Well (MLD)	:	3.15	
12	Number of Hand Pumps	:	2113	
13	Ground Water Extraction per Hand Pump (lpcd)	:	300	
14	Number of Pumping Stations for Water Supply	:	2	
15	Total Pumping Capacity (MLD)	:	3.15	
16	Average Water Supply Rate from ULB Sources (lpcd)	:	60	
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	3.2	
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	60	
19	Total Sewage Generation (MLD)	:	2.7	
20	Per Capita Sewage Generation (lpcd)	:	61.0	
21	Sewage Collection (MLD)	:	Nil	
22	Percentage of Sewage Collection (%)	:	Nil	
23	Number of STPs	:	Nil	
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	Nil	
25	Current Utilized Capacity of STPs (MLD)	:	Nil	
26	Percentage Utilization of Installed Capacity (%)	:	Nil	
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	Nil	
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Nil
		COD	:	Nil
		TKN	:	Nil
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1417.5
		COD	:	2409.8
		TKN	:	283.5
30	Wastewater Disposal Means	:	River	
31	Name of River/Streams for Wastewater Disposal	:	Ichamoti 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	:	NA	

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB Baruipur Municipality			State: West Bengal	
S. No.	Items			2731
1	Total Area (sq km)	:		9.5
2	Population as in 2011	:		53,500
3	Population Growth Rate as in 2011 (%)	:		18.98
4	Total Number of Wards	:		17
5	Population per Ward (Thousands)	:		3,147
6	Total Number of Household as in 2011	:		3147
7	Number of Household per Ward	:		789
8	Surface Water Supply (MLD)	:		1.12
9	Ground Water (GW) Supply (MLD)	:		1
10	Number of Bore Wells	:		12 (4 working)
11	Ground Water Extraction per Bore Well (MLD)	:		0.25
12	Number of Hand Pumps	:		272
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		12(4 working)
15	Total Pumping Capacity (MLD)	:		1
16	Average Water Supply Rate from ULB Sources (lpcd)	:		39.62
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		2.12 (ULB Source)
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		39.62 (ULB
19	Total Sewage Generation (MLD)	:		1.7
20	Per Capita Sewage Generation (lpcd)	:		Not Mreasured
21	Sewage Collection (MLD)	:		Not collected
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		Nil
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	:	1444.5
		COD	:	2455.7
		TKN	:	288.9
30	Wastewater Disposal Means	:		River
31	Name of River/Streams for Wastewater Disposal	:		Adi Ganga
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		161
34	Gross Area of Water Bodies (sq km)	:		0.73
35	Area of Water Bodies as % of Total Area	:		7.68

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB Budge Budge Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		9.06
2	Population as in 2011	:		76858
3	Population Growth Rate as in 2011 (%)	:		1.84
4	Total Number of Wards	:		20
5	Population per Ward (Thousands)	:		3,842
6	Total Number of Household as in 2011	:		13681
7	Number of Household per Ward	:		684
8	Surface Water Supply (MLD)	:		Nil
9	Ground Water (GW) Supply (MLD)	:		4.26
10	Number of Bore Wells	:		NIL
11	Ground Water Extraction per Bore Well (MLD)	:		NIL
12	Number of Hand Pumps	:		NA
13	Ground Water Extraction per Hand Pump (lpcd)	:		NIL
14	Number of Pumping Stations for Water Supply	:		NIL
15	Total Pumping Capacity (MLD)	:		NIL
16	Average Water Supply Rate from ULB Sources (lpcd)	:		35
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		4.26
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		35
19	Total Sewage Generation (MLD)	:		3.408
20	Per Capita Sewage Generation (lpcd)	:		44.3
21	Sewage Collection (MLD)	:		35.5
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		1
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Under construction
25	Current Utilized Capacity of STPs (MLD)	:		Under construction
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	:	Not Available
		COD	:	Not Available
		TKN	:	Not Available
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	2075.166
		COD	:	3527.7822
		TKN	:	415.0332
30	Wastewater Disposal Means	:		Domestic
31	Name of River/Streams for Wastewater Disposal	:		Hoogly
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		16
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Gayeshpur Municipality			State: West Bengal	
S.	Items			
1	Total Area (sq km)	:		30
2	Population as in 2011	:		65398
3	Population Growth Rate as in 2011 (%)	:		18.84
4	Total Number of Wards	:		18
5	Population per Ward (Thousands)	:		3057
6	Total Number of Household as in 2011	:		12000
7	Number of Household per Ward	:		667
8	Surface Water Supply (MLD)	:		0.85
9	Ground Water (GW) Supply (MLD)	:		7.074
10	Number of Bore Wells	:		Nil
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps	:		450
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		15
15	Total Pumping Capacity (MLD)	:		7.074
16	Average Water Supply Rate from ULB Sources (lpcd)	:		135
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		7.924 (ULB Sources)
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		135 (ULB sources)
19	Total Sewage Generation (MLD)	:		6.3
20	Per Capita Sewage Generation (lpcd)	:		96.9
21	Sewage Collection (MLD)	:		5.1
22	Percentage of Sewage Collection (%)	:		80.0
23	Number of STPs	:		Nil
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	:	1765.7
		COD	:	3001.8
		TKN	:	353.1
30	Wastewater Disposal Means	:		Bill & Dighi
31	Name of River/Streams for Wastewater Disposal	:		Kulia and Mathura
32	Number of Drains/Nallah for Wastewater Disposal	:		600
33	Number of Water Bodies	:		28
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Gobardanga Municipality			State: West Benngal	
S. No.	Items			
1	Total Area (sq km)	:		13.5
2	Population as in 2011	:		57878
3	Population Growth Rate as in 2011 (%)	:		39.07
4	Total Number of Wards	:		17
5	Population per Ward (Thousands)	:		2,670
6	Total Number of Household as in 2011	:		11603
7	Number of Household per Ward	:		683
8	Surface Water Supply (MLD)	:		Nil
9	Ground Water (GW) Supply (MLD)	:		1
10	Number of Bore Wells	:		2
11	Ground Water Extraction per Bore Well (MLD)	:		0.5
12	Number of Hand Pumps	:		952
13	Ground Water Extraction per Hand Pump (lpcd)	:		NA
14	Number of Pumping Stations for Water Supply	:		2
15	Total Pumping Capacity (MLD)	:		0.5
16	Average Water Supply Rate from ULB Sources (lpcd)	:		29
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		2(ULB Source)
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		29(ULB Source)
19	Total Sewage Generation (MLD)	:		0.8
20	Per Capita Sewage Generation (lpcd)	:		13.8
21	Sewage Collection (MLD)	:		0.6
22	Percentage of Sewage Collection (%)	:		80.0
23	Number of STPs	:		Nil
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	:	1562.7
		COD	:	2656.6
		TKN	:	312.5
30	Wastewater Disposal Means	:		River & Lake
31	Name of River/Streams for Wastewater Disposal	:		Jamuna River &
32	Number of Drains/Nallah for Wastewater Disposal	:		NA
33	Number of Water Bodies	:		3
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet			
Jangipore Municipality)		State: West Bengal	
S. No.	Items		Value
1	Total Area (sq km)	:	8.2
2	Population as in 2011	:	122,875
3	Population Growth Rate as in 2011 (%)	:	65.01
4	Total Number of Wards	:	20
5	Population per Ward (Thousands)	:	4,406
6	Total Number of Household as in 2011	:	21448
7	Number of Household per Ward	:	1072
8	Surface Water Supply (MLD)	:	18
9	Ground Water (GW) Supply (MLD)	:	NIL
10	Number of Bore Wells	:	1
11	Ground Water Extraction per Bore Well (MLD)	:	NIL
12	Number of Hand Pumps	:	750
13	Ground Water Extraction per Hand Pump (lpcd)	:	2000
14	Number of Pumping Stations for Water Supply	:	1
15	Total Pumping Capacity (MLD)	:	4.2
16	Average Water Supply Rate from ULB Sources (lpcd)	:	66
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	NIL
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	NIL
19	Total Sewage Generation (MLD)	:	14.4
20	Per Capita Sewage Generation (lpcd)	:	117.2
21	Sewage Collection (MLD)	:	11.5
22	Percentage of Sewage Collection (%)	:	NIL
23	Number of STPs	:	NIL
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	NIL
25	Current Utilized Capacity of STPs (MLD)	:	NIL
26	Percentage Utilization of Installed Capacity (%)	:	NIL
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	NIL
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: NIL
		COD	: NIL
		TKN	: NIL
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 3317.6
		COD	: 5640.0
		TKN	: 663.5
30	Wastewater Disposal Means	:	Domestic
31	Name of River/Streams for Wastewater Disposal	:	Bhagirathy &
32	Number of Drains/Nallah for Wastewater Disposal	:	5
33	Number of Water Bodies	:	110
34	Gross Area of Water Bodies (sq km)	:	NA
35	Area of Water Bodies as % of Total Area	:	NA

Water Balance & Pollution Load (Domestic) Fact Sheet			
City: Jiyaganj -Azimganj Municipality			State: West Bengal
S. No.	Items		Value
1	Total Area (sq km)	:	11.66
2	Population as in 2011	:	51790
3	Population Growth Rate as in 2011 (%)	:	9.66
4	Total Number of Wards	:	17
5	Population per Ward (Thousands)	:	3,046
6	Total Number of Household as in 2011	:	11786
7	Number of Household per Ward	:	693
8	Surface Water Supply (MLD)	:	NIL
9	Ground Water (GW) Supply (MLD)	:	12.5
10	Number of Bore Wells	:	2
11	Ground Water Extraction per Bore Well (MLD)	:	NIL
12	Number of Hand Pumps	:	882
13	Ground Water Extraction per Hand Pump (lpcd)	:	612
14	Number of Pumping Stations for Water Supply	:	1
15	Total Pumping Capacity (MLD)	:	0.85
16	Average Water Supply Rate from ULB Sources (lpcd)	:	95
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	0.85
18	Average Water Supply Rate from ULB & Non-ULB Sources	:	95(ULB Sources)
19	Total Sewage Generation (MLD)	:	10.0
20	Per Capita Sewage Generation (lpcd)	:	193.1
21	Sewage Collection (MLD)	:	8.0
22	Percentage of Sewage Collection (%)	:	NA
23	Number of STPs	:	1.0
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	1.4
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	: 29.2
		COD	: 55.0
		TKN	: NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 1398.3
		COD	: 2377.2
		TKN	: 279.7
30	Wastewater Disposal Means	:	River
31	Name of River/Streams for Wastewater Disposal	:	Ganga
32	Number of Drains/Nallah for Wastewater Disposal	:	11
33	Number of Water Bodies	:	NA
34	Gross Area of Water Bodies (sq km)	:	NA
35	Area of Water Bodies as % of Total Area	:	NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Katwa Municipality.			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		7.927
2	Population as in 2011	:		81510
3	Population Growth Rate as in 2011 (%)	:		13.88
4	Total Number of Wards	:		19
5	Population per Ward (Thousands)	:		4,290
6	Total Number of Household as in 2011	:		14806
7	Number of Household per Ward	:		779
8	Surface Water Supply (MLD)	:		Nil
9	Ground Water (GW) Supply (MLD)	:		2.73
10	Number of Bore Wells	:		Nil
11	Ground Water Extraction per Bore Well (MLD)	:		Nil
12	Number of Hand Pumps	:		682
13	Ground Water Extraction per Hand Pump (lpd)	:		90
14	Number of Pumping Stations for Water Supply	:		1
15	Total Pumping Capacity (MLD)	:		2.73
16	Average Water Supply Rate from ULB Sources (lpcd)	:		90
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		2.7
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		90.0
19	Total Sewage Generation (MLD)	:		2.2
20	Per Capita Sewage Generation (lpcd)	:		26.8
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		Nil
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	:	2200.8
		COD	:	3741.3
		TKN	:	440.2
30	Wastewater Disposal Means	:		River
31	Name of River/Streams for Wastewater Disposal	:		Ganga
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	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
ULB: Birnagar Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		5.52
2	Population as in 2011	:		30765
3	Population Growth Rate as in 2011 (%)	:		19.72
4	Total Number of Wards	:		14
5	Population per Ward (Thousands)	:		2,197
6	Total Number of Household as in 2011	:		6470
7	Number of Household per Ward	:		462
8	Surface Water Supply (MLD)	:		NIL
9	Ground Water (GW) Supply (MLD)	:		12
10	Number of Bore Wells	:		5
11	Ground Water Extraction per Bore Well (MLD)	:		2.4
12	Number of Hand Pumps	:		467
13	Ground Water Extraction per Hand Pump (lpcd)	:		200
14	Number of Pumping Stations for Water Supply	:		5
15	Total Pumping Capacity (MLD)	:		0.85
16	Average Water Supply Rate from ULB Sources (lpcd)	:		45
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		12.0
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		45.0
19	Total Sewage Generation (MLD)	:		9.6
20	Per Capita Sewage Generation (lpcd)	:		312.0
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Not Applicable
25	Current Utilized Capacity of STPs (MLD)	:		Not Applicable
26	Percentage Utilization of Installed Capacity (%)	:		Not Applicable
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not Applicable
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	830.7
		COD	:	1412.1
		TKN	:	166.1
30	Wastewater Disposal Means	:		Domestic
31	Name of River/Streams for Wastewater Disposal	:		Land
32	Number of Drains/Nallah for Wastewater Disposal	:		117
33	Number of Water Bodies	:		21
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Dainhat Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		10.36
2	Population as in 2011	:		24390
3	Population Growth Rate as in 2011 (%)	:		7.95
4	Total Number of Wards	:		14
5	Population per Ward (Thousands)	:		1,742
6	Total Number of Household as in 2011	:		6000
7	Number of Household per Ward	:		429
8	Surface Water Supply (MLD)	:		Nil
9	Ground Water (GW) Supply (MLD)	:		1.82
10	Number of Bore Wells	:		Nil
11	Ground Water Extraction per Bore Well (MLD)	:		NA
12	Number of Hand Pumps	:		405
13	Ground Water Extraction per Hand Pump (lpcd)	:		300
14	Number of Pumping Stations for Water Supply	:		10
15	Total Pumping Capacity (MLD)	:		2.88
16	Average Water Supply Rate from ULB Sources (lpcd)	:		50
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		1.82
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		50
19	Total Sewage Generation (MLD)	:		1.5
20	Per Capita Sewage Generation (lpcd)	:		59.7
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Nil
25	Current Utilized Capacity of STPs (MLD)	:		Nil
26	Percentage Utilization of Installed Capacity (%)	:		Nil
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Nil
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	NA
		COD	:	NA
		TKN	:	NA
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	658.5
		COD	:	1119.5
		TKN	:	131.7
30	Wastewater Disposal Means	:		Pond
31	Name of River/Streams for Wastewater Disposal	:		Pond
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	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Diamond Harbour Municipality			State: West bengal	
S. No.	Items			
1	Total Area (sq km)	:	10.15	
2	Population as in 2011	:	42,494	
3	Population Growth Rate as in 2011 (%)	:	14.11	
4	Total Number of Wards	:	16	
5	Population per Ward (Thousands)	:	2,698	
6	Total Number of Household as in 2011	:	10022	
7	Number of Household per Ward	:	626	
8	Surface Water Supply (MLD)	:	nil	
9	Ground Water (GW) Supply (MLD)	:	1.584	
10	Number of Bore Wells	:	11	
11	Ground Water Extraction per Bore Well (MLD)	:	nil	
12	Number of Hand Pumps	:	216	
13	Ground Water Extraction per Hand Pump (lpcd)	:	470	
14	Number of Pumping Stations for Water Supply	:	11	
15	Total Pumping Capacity (MLD)	:	1.584	
16	Average Water Supply Rate from ULB Sources (lpcd)	:	36.7	
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	1.584 (ULB	
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	36.7 (ULB	
19	Total Sewage Generation (MLD)	:	1.3	
20	Per Capita Sewage Generation (lpcd)	:	29.8	
21	Sewage Collection (MLD)	:	23.9	
22	Percentage of Sewage Collection (%)	:	NA	
23	Number of STPs	:	Nil	
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	Not Applicable	
25	Current Utilized Capacity of STPs (MLD)	:	Not Applicable	
26	Percentage Utilization of Installed Capacity (%)	:	Not Applicable	
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	Not Applicable	
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1147.3
		COD	:	1950.5
		TKN	:	229.5
30	Wastewater Disposal Means	:	River	
31	Name of River/Streams for Wastewater Disposal	:	Ganga	
32	Number of Drains/Nallah for Wastewater Disposal	:	165	
33	Number of Water Bodies	:	230	
34	Gross Area of Water Bodies (sq km)	:	NA	
35	Area of Water Bodies as % of Total Area	:	NA	

Water Balance & Pollution Load (Domestic) Fact Sheet				
City /ULB : Jainagar Majilpur Municipality			State: West	
S. No.	Items			
1	Total Area (sq km)	:		5.8
2	Population as in 2011	:		26500
3	Population Growth Rate as in 2011 (%)	:		13.66
4	Total Number of Wards	:		14
5	Population per Ward (Thousands)	:		1,893
6	Total Number of Household as in 2011	:		5635
7	Number of Household per Ward	:		402
8	Surface Water Supply (MLD)	:		NIL
9	Ground Water (GW) Supply (MLD)	:		NIL
10	Number of Bore Wells	:		NIL
11	Ground Water Extraction per Bore Well (MLD)	:		NIL
12	Number of Hand Pumps	:		160
13	Ground Water Extraction per Hand Pump (lpcd)	:		Not
14	Number of Pumping Stations for Water Supply	:		Not given
15	Total Pumping Capacity (MLD)	:		Not given
16	Average Water Supply Rate from ULB Sources (lpcd)	:		Not given
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		Not given
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		Not given
19	Total Sewage Generation (MLD)	:		1.3
20	Per Capita Sewage Generation (lpcd)	:		48.3
21	Sewage Collection (MLD)	:		Not
22	Percentage of Sewage Collection (%)	:		Not
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Not
25	Current Utilized Capacity of STPs (MLD)	:		Not
26	Percentage Utilization of Installed Capacity (%)	:		Not
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BO	:	Not
		CO	:	Not
		TK	:	Not
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BO	:	715.5
		CO	:	1216.4
		TK	:	143.1
30	Wastewater Disposal Means	:		Khal
31	Name of River/Streams for Wastewater Disposal	:		Begore
32	Number of Drains/Nallah for Wastewater Disposal	:		40
33	Number of Water Bodies	:		16
34	Gross Area of Water Bodies (sq km)	:		Not
35	Area of Water Bodies as % of Total Area	:		Not

Water Balance & Pollution Load (Domestic) Fact Sheet			
City: Murshidabad Municipality			State: West Bengal
S. No.	Items		Value
1	Total Area (sq km)	:	16.4
2	Population as in 2011	:	44024
3	Population Growth Rate as in 2011 (%)	:	19.15
4	Total Number of Wards	:	16
5	Population per Ward (Thousands)	:	2,751
6	Total Number of Household as in 2011	:	9859
7	Number of Household per Ward	:	616
8	Surface Water Supply (MLD)	:	NIL
9	Ground Water (GW) Supply (MLD)	:	1.7325
10	Number of Bore Wells	:	4
11	Ground Water Extraction per Bore Well (MLD)	:	Not measured
12	Number of Hand Pumps	:	533
13	Ground Water Extraction per Hand Pump (lpd)	:	2396
14	Number of Pumping Stations for Water Supply	:	1
15	Total Pumping Capacity (MLD)	:	0.455
16	Average Water Supply Rate from ULB Sources (lpcd)	:	32.49
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	1.7325 (ULB Sources)
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	32.49 (ULB Sources)
19	Total Sewage Generation (MLD)	:	1.9
20	Per Capita Sewage Generation (lpcd)	:	43.1582773
21	Sewage Collection (MLD)	:	1.9
22	Percentage of Sewage Collection (%)	:	Not measured
23	Number of STPs	:	1
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	1.9
25	Current Utilized Capacity of STPs (MLD)	:	1.9
26	Percentage Utilization of Installed Capacity (%)	:	1.9
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	1.9
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: Not measured
		COD	: Not measured
		TKN	: Not measured
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 1188.648
		COD	: 2020.7016
		TKN	: 237.7296
30	Wastewater Disposal Means	:	River
31	Name of River/Streams for Wastewater Disposal	:	Ganga
32	Number of Drains/Nallah for Wastewater Disposal	:	24
33	Number of Water Bodies	:	172
34	Gross Area of Water Bodies (sq km)	:	Data Not Available
35	Area of Water Bodies as % of Total Area	:	Data Not Available

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB(Pujali Municipality)			State:West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		8.32
2	Population as in 2011	:		37063
3	Population Growth Rate as in 2011 (%)	:		8.63
4	Total Number of Wards	:		15
5	Population per Ward (Thousands)	:		2,471
6	Total Number of Household as in 2011	:		8569
7	Number of Household per Ward	:		571
8	Surface Water Supply (MLD)	:		1.48
9	Ground Water (GW) Supply (MLD)	:		3.25
10	Number of Bore Wells	:		3(Non ULB)
11	Ground Water Extraction per Bore Well (MLD)	:		1.08
12	Number of Hand Pumps	:		82
13	Ground Water Extraction per Hand Pump (lpcd)	:		300
14	Number of Pumping Stations for Water Supply	:		3
15	Total Pumping Capacity (MLD)	:		3.25
16	Average Water Supply Rate from ULB Sources (lpcd)	:		40
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		4.7
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:		40.0
19	Total Sewage Generation (MLD)	:		3.8
20	Per Capita Sewage Generation (lpcd)	:		102.1
21	Sewage Collection (MLD)	:		Not
22	Percentage of Sewage Collection (%)	:		Not
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Not
25	Current Utilized Capacity of STPs (MLD)	:		Not
26	Percentage Utilization of Installed Capacity (%)	:		Not
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not
		COD	:	Not
		TKN	:	Not
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	1000.7
		COD	:	1701.2
		TKN	:	200.1
30	Wastewater Disposal Means	:		River
31	Name of River/Streams for Wastewater Disposal	:		River Hooghly
32	Number of Drains/Nallah for Wastewater Disposal	:		26
33	Number of Water Bodies	:		19
34	Gross Area of Water Bodies (sq km)	:		Not Measured
35	Area of Water Bodies as % of Total Area	:		Not Measured

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB Taherpur NAA Municipality			State:West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		12.18
2	Population as in 2011	:		20892
3	Population Growth Rate as in 2011 (%)	:		4.14
4	Total Number of Wards	:		13
5	Population per Ward (Thousands)	:		1,607
6	Total Number of Household as in 2011	:		5328
7	Number of Household per Ward	:		410
8	Surface Water Supply (MLD)	:		NIL
9	Ground Water (GW) Supply (MLD)	:		3.3
10	Number of Bore Wells	:		2(Under construction
11	Ground Water Extraction per Bore Well (MLD)	:		nil
12	Number of Hand Pumps	:		580
13	Ground Water Extraction per Hand Pump (lpd)	:		569
14	Number of Pumping Stations for Water Supply	:		2(Under Construction)
15	Total Pumping Capacity (MLD)	:		NIL
16	Average Water Supply Rate from ULB Sources (lpcd)	:		50
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		3.3
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		50
19	Total Sewage Generation (MLD)	:		2.6
20	Per Capita Sewage Generation (lpcd)	:		126.4
21	Sewage Collection (MLD)	:		Not Collected
22	Percentage of Sewage Collection (%)	:		Not Applicable
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Not Applicable
25	Current Utilized Capacity of STPs (MLD)	:		Not Applicable
26	Percentage Utilization of Installed Capacity (%)	:		Not Applicable
27	Capacity of STPs Sanctioned under JNNURM & Others	:		Not Applicable
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	564.1
		COD	:	958.9
		TKN	:	112.8
30	Wastewater Disposal Means	:		Land
31	Name of River/Streams for Wastewater Disposal	:		Not given
32	Number of Drains/Nallah for Wastewater Disposal	:		20
33	Number of Water Bodies	:		1
34	Gross Area of Water Bodies (sq km)	:		2.01
35	Area of Water Bodies as % of Total Area	:		16

Water Balance & Pollution Load (Domestic) Fact Sheet				
City: /ULB: Tarakeswar Municipality			State: West Bengal	
S. No.	Items			
1	Total Area (sq km)	:		8.33
2	Population as in 2011	:		33125
3	Population Growth Rate as in 2011 (%)	:		17.52
4	Total Number of Wards	:		15
5	Population per Ward (Thousands)	:		1,879
6	Total Number of Household as in 2011	:		5756
7	Number of Household per Ward	:		384
8	Surface Water Supply (MLD)	:		Nil
9	Ground Water (GW) Supply (MLD)	:		4.2
10	Number of Bore Wells	:		9
11	Ground Water Extraction per Bore Well (MLD)	:		0.46
12	Number of Hand Pumps	:		185
13	Ground Water Extraction per Hand Pump (lpd)	:		NA
14	Number of Pumping Stations for Water Supply	:		9
15	Total Pumping Capacity (MLD)	:		4.2
16	Average Water Supply Rate from ULB Sources (lpcd)	:		131.25
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:		4.2
18	Average Water Supply Rate from ULB & Non-ULB Sources	:		131.3
19	Total Sewage Generation (MLD)	:		NA
20	Per Capita Sewage Generation (lpcd)	:		101.4
21	Sewage Collection (MLD)	:		NA
22	Percentage of Sewage Collection (%)	:		NA
23	Number of STPs	:		Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:		Not Applicable
25	Current Utilized Capacity of STPs (MLD)	:		Not Applicable
26	Percentage Utilization of Installed Capacity (%)	:		Not Applicable
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:		Not Applicable
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	:	Not Applicable
		COD	:	Not Applicable
		TKN	:	Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	:	894.4
		COD	:	1520.4
		TKN	:	178.9
30	Wastewater Disposal Means	:		Canal
31	Name of River/Streams for Wastewater Disposal	:		Ranar canal
32	Number of Drains/Nallah for Wastewater Disposal	:		171
33	Number of Water Bodies	:		3
34	Gross Area of Water Bodies (sq km)	:		NA
35	Area of Water Bodies as % of Total Area	:		NA

Water Balance & Pollution Load (Domestic) Fact Sheet

ULB	Cooper's Camp NAA Municipality	State: West Bengal	
S. No.	Items		
1	Total Area (sq km)	:	1.5
2	Population as in 2011	:	18839
3	Population Growth Rate as in 2011 (%)	:	6.04
4	Total Number of Wards	:	12
5	Population per Ward (Thousands)	:	1,570
6	Total Number of Household as in 2011	:	4436
7	Number of Household per Ward	:	370
8	Surface Water Supply (MLD)	:	NIL
9	Ground Water (GW) Supply (MLD)	:	0.39
10	Number of Bore Wells	:	2
11	Ground Water Extraction per Bore Well (MLD)	:	0.195
12	Number of Hand Pumps	:	4150
13	Ground Water Extraction per Hand Pump (lpcd)	:	225
14	Number of Pumping Stations for Water Supply	:	2
15	Total Pumping Capacity (MLD)	:	0.39
16	Average Water Supply Rate from ULB Sources (lpcd)	:	51.75
17	Total Water Supply from ULB and Non-ULB Sources (MLD)	:	0.4
18	Average Water Supply Rate from ULB & Non-ULB Sources (lpcd)	:	51.75
19	Total Sewage Generation (MLD)	:	0.3
20	Per Capita Sewage Generation (lpcd)	:	16.6
21	Sewage Collection (MLD)	:	Not collected
22	Percentage of Sewage Collection (%)	:	Not Applicable
23	Number of STPs	:	Nil
24	Total Installed Capacity of STPs under GAP I & II (MLD)	:	Not Applicable
25	Current Utilized Capacity of STPs (MLD)	:	Not Applicable
26	Percentage Utilization of Installed Capacity (%)	:	Not Applicable
27	Capacity of STPs Sanctioned under JNNURM & Others (MLD)	:	Not Applicable
28	Pollution Load (Domestic) (Method 1: Actual Flow) (kg/d)	BOD ₅	: Not Applicable
		COD	: Not Applicable
		TKN	: Not Applicable
29	Pollution Load (Domestic) (Method 2: Per Capita Contribution) (kg/d)	BOD ₅	: 508.653
		COD	: 864.7101
		TKN	: 101.7306
30	Wastewater Disposal Means	:	Through Canal
31	Name of River/Streams for Wastewater Disposal	:	Churni River
32	Number of Drains/Nallah for Wastewater Disposal	:	160
33	Number of Water Bodies	:	4
34	Gross Area of Water Bodies (sq km)	:	0.0014
35	Area of Water Bodies as % of Total Area	:	0.0933