

CONTENT FOR STATEWISE / BASINWISE INFORMATION ON WATER QUALITY

- 1 Description of water resources - Ganga Basin
- 2 Description of Monitoring / Laboratory network - Middle Ganga Division III Varanasi, Central Water Commission
- 3 Description of - (1) Parameter - As stated below
(2) Frequency of monitoring - Once in a month (1st working day of the month)
- 4 Analysis of Data

River/ Site/ Parameter	Analysis of last 10 years data						Last year average		Designated best use classification	Remarks
River- Ganga Site- Shahzadpur Parameters	Maximum observed		Average		Minimum Observed		mg/l			
	mg/l		mg/l		mg/l					
	Monsoon	Non Monsoon	Monsoon	Non Monsoon	Monsoon	Non Monsoon	Monsoon	Non Monsoon		
1 Temperature	34.0	19.0	30.2	23.7	26.5	14.5	30.3	28.5	N.A.	
2 pH	9.0	9.4	8.4	8.4	7.6	7.3	8.4	8.4	A Class	As per IS :2296:1982
3 Conductivity	620	620	329	398	172	258	259	208	C 2	Us Salinity Standard
4 D.O.	8.0	7.8	6.8	7.4	5.8	6.9	6.7	7.4	A Class	As per IS :2296:1982
5 B.O.D.	4.3	4.2	2.9	3.1	2.0	2.1	3.0	3.0	B Class	As per IS :2296:1982
6 C.O.D.							8.0	4.8	N.A.	
7 Sodium	45.0	100.0	24.2	34.9	4.0	6.0	34.4	64.8	N.A.	
8 Potassium	15.0	40.0	8.2	10.7	1.5	2.0	8.6	12.8	N.A.	
9 Calcium	75	67	29.8	34.8	14	17	21	36	N.A.	
10 Magnesium	53.7	44.9	20.9	24.7	6.2	12.8	12.5	19.6	N.A.	
11 Carbonate	45.0	255.0	6.8	10.3			9.6	18.9	N.A.	
12 BiCarbonate	322	312	142	173	39	83	108	150	N.A.	
13 Chloride	98.0	113.6	25.6	31.8	3.0	7.0	21.2	56.4	A Class	As per IS :2296:1982
14 Iron	0.3	1.5	0.1	0.1			0.1	0.1	N.A.	

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- 4 Analysis of Data

River/ Site/ Parameter	Analysis of last 10 years data						Last year average		Designated best use classification	Remarks
River- Ganga Site- Allahabad Parameters	Maximum observed		Average		Minimum Observed		mg/l			
	mg/l		mg/l		mg/l					
	Monsoon	Non Monsoon	Monsoon	Non Monsoon	Monsoon	Non Monsoon	Monsoon	Non Monsoon		
1 Temperature	32.5	32.5	29.0	22.1	23.5	14.0	27.7	20.5	N.A.	
2 pH	9.0	9.2	8.4	8.4	7.7	7.5	8.3	8.4	A Class	As per IS :2296:1982
3 Conductivity	612	686	334	428	182	260	257	399	C 2	Us Salinity Standard
4 D.O.	8.3	9.4	7.2	7.6	6.1	6.2	7.5	7.3	A Class	As per IS :2296:1982
5 B.O.D.	4.7	4.8	3.5	3.8	2.0	2.3	3.8	3.9	D Class	As per IS :2296:1982
6 C.O.D.	30.4	27.2	4.5	6.5		1.0	6.0	6.2	N.A.	
7 Sodium	63.0	76.0	27.1	38.0	7.5	13.0	33.8	58.0	N.A.	
8 Potassium	22.0	24.5	7.7	9.3	3.0	3.0	8.0	12.7	N.A.	
9 Calcium	79	82	31	35	9	13	28	32	N.A.	
10 Magnesium	53.7	52.1	20.9	24.8	1.3	11.4	7.1	20.7	N.A.	
11 Carbonate	25.5	36	7.1	6.5			4.8	18.9	N.A.	
12 BiCarbonate	349	300	149	174	63	24	103	137	N.A.	
13 Chloride	76.0	103.0	29.6	35.9	7.0	16.0	24.0	66.6	A Class	As per IS :2296:1982
14 Iron	0.5	0.3	0.0	0.1				0.1	N.A.	

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(2) Frequency of monitoring - Once in a month (1st working day of the month)
- 4 Analysis of Data

River/ Site/ Parameter	Analysis of last 10 years data						Last year average		Designated best use classification	Remarks
River- Ganga Site- Mirzapur Parameters	Maximum observed		Average		Minimum Observed		mg/l			
	mg/l		mg/l		mg/l					
	Monsoon	Non Monsoon	Monsoon	Non Monsoon	Monsoon	Non Monsoon	Monsoon	Non Monsoon		
1 Temperature	32.5	31.0	29.3	22.9	26.0	15.0	29.2	22.6	N.A.	
2 pH	9.7	9.1	8.4	8.4	8.1	7.5	8.3	8.3	A Class	As per IS :2296:1982
3 Conductivity	627	749	344	445	175	301	295	401	C 2	Us Salinity Standard
4 D.O.	8.7	8.3	6.9	7.3	3.1	6.3	8.2	8.7	A Class	As per IS :2296:1982
5 B.O.D.	3.5	4.5	2.1	2.4	0.3	0.5	2.5	2.2	B Class	As per IS :2296:1982
6 C.O.D.	24.0	19.2	9.0	7.9	2.6	1.0	6.6	3.5	N.A.	
7 Sodium	100.0	78.0	37.1	41.2	4.0	4.0	32.8	44.0	N.A.	
8 Potassium	21.0	26.0	19.3	12.3	2.0	1.2	6.6	9.8	N.A.	
9 Calcium	75	77	28.9	30.9	8	12	23	31	N.A.	
10 Magnesium	67.1	79.3	20.7	25.3	3.9	9.8	20.7	20.1	N.A.	
11 Carbonate	36.0	24.0	7.7	7.6			4.8	10.3	N.A.	
12 BiCarbonate	293	556	150	193	44	98	94	136	N.A.	
13 Chloride	92.4	69.2	34.0	37.6	11.0	15.0	26.8	54.9	A Class	As per IS :2296:1982
14 Iron	0.20	0.30	0.03	0.04					N.A.	

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- 4 Analysis of Data

River/ Site/ Parameter	Analysis of last 10 years data						Last year average		Designated best use classification	Remarks
River- Ganga Site- Varanasi Parameters	Maximum observed		Average		Minimum Observed		mg/l			
	mg/l		mg/l		mg/l					
	Monsoon	Non Monsoon	Monsoon	Non Monsoon	Monsoon	Non Monsoon	Monsoon	Non Monsoon		
1 Temperature	33.0	31.0	29.6	22.7	20.5	15.0	30.2	23.2	N.A.	
2 pH	9.7	9.3	8.5	8.4	8.0	8.0	8.8	8.4	A Class	As per IS :2296:1982
3 Conductivity	643	752	371	448	188	238	254	370	C 2	Us Salinity Standard
4 D.O.	3.4	8.8	7.3	7.6	6.5	6.6	8.0	8.7	A Class	As per IS :2296:1982
5 B.O.D.	3.3	3.5	2.5	2.6	1.5	1.5	2.8	3.2	B Class	As per IS :2296:1982
6 C.O.D.	31.3	20.2	7.2	6.6	1.0	1.6	5.4	5.3	N.A.	
7 Sodium	90.0	91.5	32.5	43.3	5.0	7.0	25.4	57.6	N.A.	
8 Potassium	17.0	16.0	5.9	7.3	2.0	2.9	6.2	7.9	N.A.	
9 Calcium	71	68	29.56	23.9	10	13	26	35	N.A.	
10 Magnesium	44.9	43.9	21.8	24.4	5.7	1.1	11.1	21.5	N.A.	
11 Carbonate	36.0	34.0	8.9	8.7			16.8	24.0	N.A.	
12 BiCarbonate	29	317	155	182	39	73	74	118	N.A.	
13 Chloride	76.0	131.0	31.4	39.8	11.8	15.0	24.8	83.1	A Class	As per IS :2296:1982
14 Iron	0.6	1.8	0.1	0.1					N.A.	

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- 1 Description of water resources - Ganga Basin
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- 3 Description of - (1) Parameter - As stated below
(2) Frequency of monitoring - Once in a month (1st working day of the month)
- 4 Analysis of Data

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STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

- 1 Basin: Ganga Bsin (U.P.)
- 2 River :Gomati (Tributry of Ganga Basin)
- 3 Site : Sultanpur
- 4 Name & Location of Laboratory : Level III Laboratory , M.G.D.-III, Varanasi
- 5 Type of Staion, Parameter and frequency of monitoring : Flux Statio , 26 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data from1999-2000 to 2008-09						Last Year Average 2008-09		Remark
		Maximum Observed		Average		Minimum Observed				
		Monsoon	Non Monsoon	Monsoon	Non Monsoon	Monsoon	Non Monsoon	Monsoon	Non Monsoon	
PHYSICAL										
Temp	(deg C)	35.0	34.0	32.0	24.7	23.0	16.0	30.2	24.6	
pH		9.0	9.3	8.4	8.5	7.9	7.9	8.4	8.5	
EC	µmho/cm	606	640	354	401	176	230	291	370	
CHEMICAL										
D.O.	mg/l	8.3	10.0	5.9	7.4	3.4	5.3	8.0	8.0	
B.O.D.	mg/l	3.9	6.1	2.3	2.6	0.9	0.6	3.3	2.6	
C.O.D.	mg/l	19.2	18.4	8.6	8.1	1.6	3.7	5.7	4.4	
Sodium	mg/l	63.0	68.0	26.5	31.4	6.0	1.0	35.4	36.0	
Potassium	mg/l	19.0	18.0	6.6	7.2	0.6	1.0	9.0	9.2	
Calcium	mg/l	62.0	58.0	36.6	36.0	8.0	7.0	25.6	35.1	
Megnesium	mg/l	67.1	44.9	24.1	28.2	4.2	11.0	15.0	28.4	
Carbonate	mg/l	48.0	58.0	20.4	17.6	0.0	0.0	7.2	18.9	
Bi Carbonate	mg/l	480	359	185	193	88	39	115	178	
Chloride	mg/l	48.0	40.0	29.7	24.7	10.0	10.0	25.6	27.2	
Iron	mg/l	0.800	0.200	0.080	0.052	0.000	0.000	0.100	0.057	
Boron	mg/l	0.130	0.300	0.015	0.032	0.000	0.000	0.000	0.030	
Nitrogen(Amm.)	mg N/l	1.200	1.500	0.088	0.090	0.050	0.050	0.050	0.050	
Nitrogen(Nitrite)	mg N/L	1.450	1.710	0.092	0.115	0.000	0.000	0.006	0.000	
Nitrogen(Nitrate)	mg N /l	1.800	6.010	0.383	0.514	0.010	0.000	0.068	0.160	
Nitrogen(Organic)	mg/l	0.100	0.600	0.000	0.140	0.000	0.000	0.000	0.000	
Fluoride	mg/l	0.950	0.690	0.158	0.137	0.050	0.000	0.162	0.199	
Phosphate	mg/l	0.222	0.115	0.055	0.042	0.001	0.001	0.036	0.005	
Silica	mg/l	16.0	16.2	8.7	9.0	4.0	3.7	5.4	7.6	
Sulphate	mg/l	118.0	65.0	24.7	26.8	1.0	2.0	26.6	23.9	
BIOLOGICAL										
Faecal Coliform	MPN/100 ml	1200	1400	790	980	400	800	1000	1100	
Total Hardness	No.	327	359	182	207	38	111	127	205	
Total Coliform	MPN/100ml	2500	3000	1570	2170	600	1200	2200	2900	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

- 1 Basin: Ganga Bsin (U.P.)
- 2 River :Gomati (Tributry of Ganga Basin)
- 3 Site : Maighat
- 4 Name & Location of Laboratory : Level III Laboratory , M.G.D.-III, Varanasi
- 5 Type of Staion, Parameter and frequency of monitoring : Trend Station , 26 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data from1999-2000 to 2008-09						Last Year Average 2008-09		Remark
		Maximum Observed		Average		Minimum Observed				
		Monsoon	Non Monso	Monsoon	Non Monso	Monsoon	Non Monso	Monsoon	Non Monsoon	
PHYSICAL										
Temp	(deg C)	38.5	32.5	30.6	23.1	25	14.5	30.2	24.2	
pH		9.2	9.2	8.4	8.6	7.8	7.4	8.4	8.5	
EC	µmho/cm	688	642	356	418	198	210	293	394	
CHEMICAL										
D.O.	mg/l	8.5	9.8	7	7.6	5.5	4.6	7.9	6.8	
B.O.D.	mg/l	4.8	5.2	2.5	2.5	1	1	3.4	2.3	
C.O.D.	mg/l	13.6	6.4	8.1	3.5	1	1.6	7.4	4.6	
Sodium	mg/l	65	99.4	29.7	36.1	6	14	37.4	67.3	
Potassium	mg/l	15	15	6.5	7.2	2	1	8.7	9.4	
Calcium	mg/l	61	58	32.6	32.2	9	10	26.2	34	
Megnesium	mg/l	55	64.7	22.7	28.6	5.7	7.2	10.2	18.8	
Carbonate	mg/l	57.6	72	9.5	11.3	0	0	6.6	24	
Bi Carbonate	mg/l	310	295	164	192	39	73	86	135	
Chloride	mg/l	61.1	50	26.4	32.9	9	9	57	101.1	
Iron	mg/l	0.9	0.8	0.114	0.277	0	0	0.02	0.114	
Boron	mg/l	0.68	0.24	0.028	0.036	0	0	0	0.05	
Nitrogen(Amm.)	mg N/l	0.07	0.12	0.051	0.053	0.05	0.05	0.05	0.05	
Nitrogen(Nitrite)	mg N/L	0.36	0.27	0.046	0.056	0	0	0.006	0	
Nitrogen(Nitrate)	mg N /l	6.2	5.6	0.524	0.549	0.01	0.01	0.202	0.223	
Nitrogen(Organic)	mg/l	0	0	0	0	0	0	0	0	
Fluoride	mg/l	0.78	0.5	0.138	0.141	0.05	0.05	0.224	0.207	
Phosphate	mg/l	0.182	0.195	0.051	0.037	0.001	0.001	0.032	0.02	
Silica	mg/l	74	15.7	9.4	8.6	4.5	4	7.7	8.5	
Sulphate	mg/l	154.4	58	25.2	28.7	1	1	46.8	19	
BIOLOGICAL										
Faecal Coliform	MPN/100 ml	600	800	283	325	100	100	325	686	
Total Hardness	No.	535	339	180	200	38	96	108	164	
Total Coliform	MPN/100ml	1300	1500	745	809	500	200	850	1357	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

- 1 Basin: Ganga Basin (M.P.)
- 2 River :Sone(Tributry of Ganga Basin)
- 3 Site : Kuldahbridge
- 4 Name & Location of Laboratory : Level III Laboratory , M.G.D.-III, Varanasi
- 5 Type of Staion, Parameter and frequency of monitoring : Baseline Station , 26 parameters, once in two months

Water Quality Data

[illegible]

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

- 1 Basin: Ganga Basin (M.P.)
- 2 River :Sone(Tributry of Ganga Basin)
- 3 Site : Kuldahbridge
- 4 Name & Location of Laboratory : Level III Laboratory , M.G.D.-III, Varanasi
- 5 Type of Staion, Parameter and frequency of monitoring : Baseline Station , 26 parameters, once in two months

Water Quality Data

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	STATEWISE/BASINWISE INFORMATION ON WATER QUALITY
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- 1 Basin: Ganga Bsin (U.P.)
- 2 River :Sone(Tributry of Ganga Basin)
- 3 Site : Chopan
- 4 Name & Location of Laboratory : Level III Laboratory , M.G.D.-III, Varanasi
- 5 Type of Staion, Parameter and frequency of monitoring : Trend Station , 26 parameters, monthly

Water Quality Data

[illegible]

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

Basin: Ganga Bsin (M.P.)

River :Kanhra(Tributry of Ganga Basin)

Site : Chopan

Name & Location of Laboratory : Level III Laboratory , M.G.D.-III, Varanasi

Type of Staion, Parameter and frequency of monitoring : Trend Station , 26 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data from1999-2000 to 2008-09						Last Year Average 2008-09		Remark
		Maximum Observed		Average		Minimum Observed				
		Monsoon	Non Monsoon	Monsoon	Non Monsoon	Monsoon	Non Monsoon	Monsoon	Non Monsoon	
PHYSICAL										
Temp	(deg C)	32.0	31.0	27.6	21.9	23.0	16.0	29.2	20.5	
pH		9.2	8.7	8.3	8.3	7.9	7.6	8.2	8.2	
EC	µmho/cm	255	544	176	255	92	140	181	233	
CHEMICAL										
D.O.	mg/l	-	-	-	-	-	-	-	-	
B.O.D.	mg/l	-	-	-	-	-	-	-	-	
C.O.D.	mg/l	4.8	3.2	1.5	2.0	0.0	1.0	2.7	2.5	
Sodium	mg/l	25.3	29.0	16.0	20.6	4.0	10.0	22.2	25.6	
Potassium	mg/l	8.2	7.8	5.2	6.0	0.1	3.0	7.5	7.3	
Calcium	mg/l	33.0	37.0	23.1	24.9	9.0	11.0	25.6	28.9	
Megnesium	mg/l	27.2	31.0	13.5	17.6	2.7	11.4	11.0	16.2	
Carbonate	mg/l	20.8	15.0	1.9	0.3	0.0	0.0	0.0	0.0	
Bi Carbonate	mg/l	211	193	116	144	24	113	109	144	
Chloride	mg/l	39.0	42.6	26.6	25.1	12.0	8.0	29.5	36.3	
Iron	mg/l	1.300	0.600	0.088	0.138	0.000	0.000	0.000	0.114	
Boron	mg/l	0.180	0.150	0.016	0.021	0.000	0.000	0.008	0.039	
Nitrogen(Amm.)	mg N/l	0.052	0.050	0.050	0.050	0.050	0.050	0.050	0.050	
Nitrogen(Nitrite)	mg N/L	0.100	0.050	0.013	0.004	0.000	0.000	0.016	0.007	
Nitrogen(Nitrate)	mg N /l	1.650	0.500	0.217	0.051	0.000	0.000	0.070	0.053	
Nitrogen(Organic)	mg/l	-	-	-	-	-	-	-	-	
Fluoride	mg/l	0.410	0.620	0.099	0.165	0.050	0.050	0.102	0.137	
Phosphate	mg/l	0.118	0.230	0.030	0.031	0.001	0.001	0.001	0.012	
Silica	mg/l	13.6	16.2	9.0	10.3	4.7	6.8	6.2	8.9	
Sulphate	mg/l	41.0	40.8	25.1	21.9	5.0	10.0	35.1	27.9	
BIOLOGICAL										
Faecal Coliform	MPN/100 ml	150	200	46	65	40	50	98	121	
Total Hardness	No.	169	184	110	137	34	84	110	140	
Total Coliform	MPN/100ml	700	500	400	455	300	100	475	743	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

1 Basin: Ganga Bsin (U.P.)

2 River :Tons (Tributry of Ganga Basin)

3 Site : Meja Road

4 Name & Location of Laboratory : Level III Laboratory , M.G.D.-III, Varanasi

5 Type of Staion, Parameter and frequency of monitoring : Trend Station , 26 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data from1999-2000 to 2008-09						Last Year Average 2008-09		Remark
		Maximum Observed		Average		Minimum Observed				
		Monsoon	Non Monsoon	Monsoon	Non Monsoon	Monsoon	Non Monsoon	Monsoon	Non Monsoon	
PHYSICAL										
Temp	(deg C)	31	31	28.1	20.9	21	15	27.8	20.7	
pH		8.8	8.9	8.3	8.3	7.7	6.6	8.2	8.2	
EC	umho/cm	432	540	269	293	147	116	198	231	
CHEMICAL										
D.O.	mg/l	7.9	8.7	7.2	7.6	6.3	6.5	7.2	7.6	
B.O.D.	mg/l	-	-	-	-	-	-	-	-	
C.O.D.	mg/l	8	4.8	2.7	2.6	1	1	-	-	
Sodium	mg/l	66	48.8	17.3	20.7	2	7	20.6	29.8	
Potassium	mg/l	14	22	5.4	6.2	1.5	1	7.5	5	
Calcium	mg/l	99	119	31.3	33.3	15	13	25	30	
Megnesium	mg/l	47.8	32.8	17.6	22	1.2	8.7	9.2	15.9	
Carbonate	mg/l	43.2	24	4.2	1.1	0	0	0	1.7	
Bi Carbonate	mg/l	290	627	138	167	68	71	110	148	
Chloride	mg/l	60	75.3	23.2	23	9	2	27.8	46.2	
Iron	mg/l	1.5	1.8	0.112	0.122	0	0	0.06	0	
Boron	mg/l	0.3	0.65	0.041	0.067	0	0	0.028	0.019	
Nitrogen(Amm.)	mg N/l	1	1.78	0.083	0.11	0.05	0.05	0.1	0.1	
Nitrogen(Nitrite)	mg N/L	1	0.96	0.079	0.044	0	0	0	0	
Nitrogen(Nitrate)	mg N /l	4	5.1	2.218	0.623	0.01	0.01	0.25	0.27	
Nitrogen(Organic)	mg/l	0.2	3.2	0.05	1.6	0	0	0.05	0.8	As per IS 2296
Fluoride	mg/l	1.5	1.57	0.147	0.137	0	0	0.1	0.069	
Phosphate	mg/l	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
Silica	mg/l	10.4	9.6	8.1	8	6.9	7.9	8.1	8.9	
Sulphate	mg/l	48	60	15.2	15.7	1	3.2	15.6	11.7	
BIOLOGICAL										
	MPN/100									
Faecal Coliform	ml	200	100	120	63	50	40	120	63	
Total Hardness	No.	396	409	152	175	49	86	102	143	
Total Coliform	MPN/100ml	800	900	540	540	400	300	560	500	