



# Bihar State Pollution Control Board

Parivesh Bhawan, NSB-2, Patliputra Industrial Area

Patliputra, Patna-800 010

Water Quality Status

Name of Monitoring Agency-BSPCB

Name of State-Bihar

Monitoring Month July, 2019

Frequency: Monthly

S.No.	Station Code	Location name/District	Latitude	Longitude	Weather	Date & Time	Temp. A/W °C	pH	Conc. µs/cm	DO mg/Ltr	B.O.D. mg/Ltr	C.O.D. mg/Ltr	Turbidity (NTU)	Nitrate-N	NH <sub>4</sub> -N	PO <sub>4</sub> mg/Ltr	T.F.S. mg/Ltr	T.D.S mg/Ltr	T.S.S. mg/Ltr	Na mg/Ltr	K mg/Ltr	T-H mg/Ltr	Ca mg/Ltr	Mg mg/Ltr	Cl mg/Ltr	Alk <sup>o</sup> mg/Ltr	SO <sub>4</sub> mg/Ltr	F mg/Ltr	T.C MPN/100ml	F.C MPN/100ml	Water Quality status as per Class - C
-	-	-	-	-	-	-	Water Quality Criteria	6.0-8.5		>4.0 mg/L	<3.0 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5000 MPN/100 ml	<2500 MPN / 100 ml	SATISFACTORY/ NOT SATISFACTORY
1	1074	Ganga at Chausa karmnasa D/S Confluence, Buxar.	25.500184	83.878102	Clear	08.7.19/ 3.20 P.M	27/26	8.5	438	7.0	2.8	32	65.2	0.07	0.07	0.02	314	288	58	39.5	6.4	122	19.2	18.0	52.0	114.0	32.44	0.61	2300	450	SATISFACTORY
2	2551	Ganga at Ramrekha ghat, Buxar. Dist. - Buxar	25.576275	83.971112	Clear	08.7.19/ 1.20 P.M	28/27	8.1	430	6.0	2.6	24	59.4	0.04	0.05	0.0	303	242	88	38.0	7.0	124	16.0	20.4	50.0	104	34.56	0.19	28000	1100	NOT SATISFACTORY
3	10113	Ganga River at Jail Ghat, Buxar	25.561456	83.949661	Clear	08.7.19 / 2.20 P.M	29/28	8.1	392	6.5	2.7	28	214.5	0.06	0.21	0.21	601	218	432	34.0	8.0	118	14.4	19.9	46.0	96	33.78	0.23	35000	2200	NOT SATISFACTORY
4	3113	Ganga at D/S Buxar near Road Bridge. Dist. - Buxar	25.585868	83.98661	Clear	08.7.19 / 12.30 P.M	28/27	7.9	439	6.3	2.7	28	328	0.02	0.29	0.06	404	192	260	38.5	7.5	122	18.4	18.5	62.0	120	31.43	0.35	35000	1400	NOT SATISFACTORY
5	3114	Ganga at Danapur near Pipapul. Dist. - Patna	25.653166	85.047728	Clear	05.7.19 / 10.40 A.M	35/33	8.25	283	8.5	2.4	24	109	0.23	0.03	0.11	148	152	18	11.6	4.0	114	14.4	18.9	19.0	82	24.61	N.D	3100	780	SATISFACTORY
6	1077	Ganga at U/S Patna, Kurji. Dist. - Patna	25.653472	85.093824	Clear	05.7.19 / 11.30 A.M	35/33	8.13	346	7.5	1.8	8.0	122.7	0.24	N.D	0.13	182	216	20	11.0	3.8	112	13.6	18.9	16.0	76	26.96	N.D	13000	2100	NOT SATISFACTORY
7	2552	Ganga at Gandhighat, NIT, Patna	25.622054	85.171803	Clear	05.7.19 / 12.20 P.M	34/32	8.02	345	6.5	1.9	8.0	116	0.28	N.D	0.12	172	190	22	11.2	2.7	112	20.8	14.6	18.0	84	26.51	N.D	17000	1400	NOT SATISFACTORY
8	10115	Ganga River at Gulabi Ghat, Patna	25.620311	85.180451	Clear	05.7.19 / 1.05 P.M	36/32	7.43	409	6.0	2.7	24	139	0.67	0.19	0.1	180	182	26	12.8	5.8	134	31.2	13.6	17.0	106	22.37	N.D	12000	1400	Not SATISFACTORY
9	1079	Ganga at D/S Patna, Gaighat Dist. Patna.	25.613638	85.204381	Clear	05.7.19 / 2.30 P.M	38/34	7.88	347	6.3	1.7	8.0	131	0.32	N.D	0.12	194	218	18	11.0	4.2	114	18.4	16.5	35.0	76	25.73	N.D	28000	1100	Not SATISFACTORY
10	3122	Ganga at Malsalami, Patna City Dist. - Patna	25.598764	85.23737	Clear	06.7.19 / 3.30 P.M	30/28	8.20	319	7.4	1.5	8.0	109	0.26	N.D	0.1	196	212	20	9.9	2.9	108	28.0	9.2	18.0	80	23.82	N.D	24000	2100	Not SATISFACTORY
11	10122	Ganga Before Confluence of Pumpun River at Triveni Ghat Fatuha, Patna Dist. - Patna.	25.514967	85.302399	Clear	06.7.19 / 12.30 P.M	34/32	8.22	330	7.6	2.4	16	80.0	0.2	N.D	0.07	180	202	20	10.6	4.1	108	18.4	15.1	17.0	70	23.94	N.D	7000	1400	NOT SATISFACTORY
12	2553	Ganga at Kewala ghat, Fatuha Dist. - Patna	25.511076	85.308548	Clear	06.7.19 / 11.30 A.M	32/30	7.90	373	6.2	2.4	12	109	0.73	0.14	0.21	166	178	24	12.6	5.2	120	31.2	10.2	20.0	94	24.27	N.D	14000	2600	Not SATISFACTORY
13	4297	Ganga at Kachchi Dargah-Bidupur Road Bridge, Dist-Patna	25.549821	85.281401	Clear	06.7.19/ 2.30 P.M	35/33	8.55	339	8.4	1.7	12	111	0.38	0.17	0.04	184	200	22	11.4	4.2	110	32.0	7.3	17.0	80	20.92	N.D	17000	1100	Not SATISFACTORY
14	4301	Ganga at Bakhtiyarpur-Tajpur Road Bridge near Athamalgola, Dist-Patna	25.482778	85.627962	Clear	17.7.19 / 4.24 P.M	32/30	7.78	255	5.8	1.5	8.0	252	0.38	N.D	0.15	224	98	150	8.8	7.0	94	27.2	6.3	11.0	74.0	24.72	N.D	3100	1700	SATISFACTORY
15	1817	Ganga at U/S Mokama, Mahadeo Athan Dist.- Patna.	25.400762	85.923029	Clear	17.7.19 / 1.13 P.M	27/30	8.01	237	6.1	1.3	8	362	0.28	N.D	0.14	260	172	116	7.6	7.1	102	20.8	12.1	10.0	72	22.26	N.D	43000	2000	NOT SATISFACTORY



38	3127	Sone River at Bahiyara, Dist.- Bhojpur	25.531113	84.762850	Cloudy	09.7.19 / 11.30 A.M	29/27	8.12	197	7.0	2.6	28	245	0.03	0.01	N.D	485	108	420	7.8	2.4	94	20.8	10.2	11.0	76	14.76	0.16	24000	1100	NOT SATISFACTORY
39	3128	Sone at Nasirganj Dam, Dist.- Rohtas	25.050151	84.341178	Clear	10.7.19 / 3 P.M	30/27	7.42	182	7.6	1.4	8	695	0.33	0.39	0.19	706	280	492	6.8	3.1	84	32.0	1.0	13	48	34.23	N.D	22000	400	NOT SATISFACTORY
40	2556	Sone at Indrapuri Dam, Dehri-on-Sone, Dist.- Rohtas	24.839843	84.132988	Clear	10.7.19 / 5 P.M	29/27	7.54	159	8.1	1.6	24	1180	0.42	0.39	0.13	590	242	404	4.7	3.3	82	27.2	3.4	10.0	48	37.81	N.D	7900	680	NOT SATISFACTORY
41	3121	Sone River at Bansari near Sun Temple, Dist.-Rohtas	24.665298	83.997466	Clear	10.7.19 / 6.30 P.M	28/25	7.62	163	7.8	1.4	8	763	0.51	0.37	0.14	728	290	512	4.2	3.1	80.0	25.6	3.9	12.0	44.0	28.75	0.37	9400	610	NOT SATISFACTORY
42	4298	Sone River at Dehri-on-Sone Bridge, Dist.-Rohtas.	24.902603	84.192859	Clear	10.7.19 / 1.45 P.M	31/29	7.50	168	7.8	2.2	24	943	0.36	0.4	0.13	828	312	604	4.9	3.6	84	30.4	1.9	11.0	46.0	31.77	0.0	28000	1400	NOT SATISFACTORY
43	4634	Sone River at Arwal	25.249954	84.634570	Clear	10.7.19 / 9.45 A.M	30/28	7.84	195	7.6	1.8	12	589	0.22	0.35	0.12	678	276	452	7.6	4.5	90	28.8	4.4	13.0	56.0	37.92	0.3	22000	780	NOT SATISFACTORY
44	4407	Sone River Near Water Intake Point, BRBCL, Navinagar, Aurangabad	24.776761	84.109319	Clear	11.7.19 / 9.30 A.M	28/26	7.74	172	7.7	1.6	20	1043	0.46	0.71	0.18	718	254	536	4.2	3.8	84	24.0	5.8	12.0	48.0	28.41	N.D	7900	200	NOT SATISFACTORY
45	1078	Gandak River at Sonepur near Harhar nath Temple, Dist.- Saran	25.682793	85.190871	-	Jul-19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	10126	Konhara Ghat at Hajipur, D/S Gandak River, Dist.- Vaishali.	25.680627	85.196129	-	Jul-19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	10163	Road Bridge on Gandak River at Hajipur U/S Gandak River, Dist.-Vaishali.	25.6995	85.1965514	-	Jul-19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	2568	Gandak River at Rewaghat, near Road Bridge, Dist.-Muzaffarpur	25.985982	85.045860	-	Jul-19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49	3125	Gandak at Dumaria ghat, Gopalganj-Pipra Kothi Road Bridge, Dist.-Gopalganj	26.361983	84.749026	-	Jul-19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50	4300	Budhi Gandak at Lalbagia, Mothari-Dhaka Road, Dist- East Champaran.	26.660139	85.014275	-	7/19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51	4403	Budhi Gandak at Barachukia, East Champaran	26.41604	85.06577	-	7/19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52	2562	Burhi Gandak at Akharaghat near Road Bridge, Dist.- Muzaffarpur.	26.137591	85.389662	Clear	12.7.19 / 11.05 A.M	27/25	8.18	216	7.6	2.5	20	441	0.31	N.D	0.09	610	220	452	5.0	4.7	82	24.0	5.3	9.0	64	22.82	N.D	35000	3100	NOT SATISFACTORY
53	3124	U/S Burhi Gandak at NH-Road Bridge near Zero mile, Dist.- Muzaffarpur.	26.149332	85.374164	Clear	12.7.19 / 11.30 A.M	27/24	8.03	200	7.8	2.6	24	725	0.32	N.D	0.12	538	218	390	5.8	4.8	84	26.4	4.4	8.0	58	21.59	N.D	28000	1200	NOT SATISFACTORY
54	2570	Burhi Gandak at Samastipur NH Road Bridge near Magadhahi ghat, Dist.-Samastipur	25.866698	85.784784	Clear	13.7.19 / 10 A.M	28/26	7.70	253	7.5	2.5	24	270	0.62	0.11	0.07	194	106	106	5.1	8.5	98	29.6	5.8	9.0	70	15.1	0.34	4100	680	SATISFACTORY
55	4295	Budhi Gandak at Khagaria Road Bridge, Dist- Khagaria.	25.501350	86.481572	Clear	29.6.19 / 12.19 P.M	37/31	8.4	330	7.4	2.2	20	18.2	0.35	0.7	0.19	178	198	20	23.0	6.0	134	28.0	15.5	19.0	132	18.46	N.D	21000	400	NOT SATISFACTORY
56	2555	Punpun River at Patna-Fatuha Road Bridge, Fatuha Dist.- Patna	25.514772	85.296277	Clear	06.7.19 / 1 P.M	34/32	7.55	653	3.0	4.2	36	90	0.44	2.25	0.07	174	184	24	28.0	8.3	182	34.4	23.3	40.0	178	20.24	N.D	35000	2600	NOT SATISFACTORY
57	3119	Punpun River at Punpun near Rail Bridge, Dist.- Patna	25.501911	85.102552	Clear	11.7.19 / 5.15 P.M	28/25	7.79	225	7.2	2.2	16	620	0.51	0.29	0.12	354	210	180	9	4.9	98	26.4	7.8	14.0	66	15.55	0.43	35000	2200	NOT SATISFACTORY
58	3120	Punpun River at Kinzer near Road Bridge, Dist.-Jehanabad.	25.217484	84.826156	Clear	10.7.19 / 10.30 A.M	31/28	7.6	215	7.8	1.7	16	403	0.29	0.53	0.07	694	278	464	9.5	4.0	80	27.2	2.9	16.0	60	20.8	0.52	21000	360	NOT SATISFACTORY







## Primary Water Quality Criteria for Various Uses

Quality Class (Use Class) Designated best use		Parameter			
		pH	Dissolved Oxygen (D.O.) mg/l Min.	Bio-Chemical Oxygen Demand (B.O.D.) mg/l Max.	Total Coliform MPN/100ml Max.
A	Drinking water source without conventional treatment but after disinfections	6.5-8.5	6	2	50
B	Outdoor bathing organized	6.5-8.5	5	3	500
C	Drinking water source with conventional (treatment followed by disinfections)	6.0-9.0	4	3	5000
D	Propagation of Wild life, fisheries	6.5-8.5	4	-	-
E	Irrigation, Industrial Cooling, Controlled Waste Disposal	6.5-8.5	-	-	-

## Primary Water Quality Criteria for bathing

pH	6.5 to 8.5
Dissolved Oxygen (DO)	5 mg/L or more
Biochemical Oxygen Demand (BOD)	3 mg/L or less
Fecal Coliform	2500 MPN/100mL