

## River water Quality Characteristics

S.No.	Sampling Location of River	Parameters All value are in mg/L except pH, Coliform in MPN/100 ML				
		pH	DO	BOD	Total Coliform	Fecal Coliform
1	Alaknanda B/C Bhagirathi at Devprayag	7.9	10.4	0.6	2	2
2	Bhagirathi B/C Alaknanda at Devprayag	7.5	10.2	0.4	2	2
3	Alaknanda A/C Bhagirathi ( <b>River Ganga D/S at Devprayag</b> )	7.6	10.6	0.8	2	2
4	River Ganga U/S at Lakshmanjhula, Rishikesh Pauri Garhwal	7.8	10.6	0.6	30	12
5	River Ganga D/S Swargashram-1, Rishikesh	7.6	9.6	0.8	40	27
6	River Ganga D/S at Bairaaj, Rishikesh	7.5	9.8	0.8	40	17
7	River Ganga D/S Lakkarghat O P, Dehradun	7.5	9	1	40	26
8	River Ganga A/C River Song D/S at Raiwala, Dehradun	8.2	10.6	1.2	80	40
9	River Ganga canal D/S at Har ki Pauri Rishikul Bridge, Haridwar	7.7	9.8	0.8	60	30
10	River Ganga canal D/S at Har Ki Pauri, Haridwar	7.6	10.2	0.6	50	26
11	River Ganga Canal D/S Bisanpur Kundi, Haridwar	7.7	10	1	90	40
12	River Ganga Canal at Lal Ta Rao Bridge, Haridwar	7.9	9.2	0.8	60	40
13	River Ganga Canal at Damkothi, Haridwar	7.7	9.8	0.6	50	30
14	River Ganga U/S at Bindughat Dudhiaban, Haridwar	7.8	9.8	1	90	40
15	River Ganga D/S at Balkumari Mandir, Jagjeetpur, Haridwar	7.7	10	1	90	60
16	River Ganga canal D/S at Roorkee, Haridwar	7.4	9.4	1.2	80	40
17	River Suswa D/S at Mathurawala Dehradun Dehradun District	7.96	3	34	>=1600	>=1600
18	River Ganga D/S of Devprayag	8.5	9.6	1	2	2
19	River Ganga at Lakshmanjhula(U/S of Rishikesh)	8.49	11	1	30	9
20	River Ganga at Barrage (D/S of Rishikesh)	7.73	9.6	1	30	14
21	River Ganga at Bindu Ghat Dudhiavan (U/S of Haridwar)	8.04	9.4	1	80	30
22	River Ganga at Harki Pauri, Haridwar	7.91	9.6	0.8	50	17
23	River Ganga at Balkumari mandir, Ajeetpiur (D/S of Haridwar)	7.91	10	1	80	50
24	River Gola, Haldwani	7.40	8.0	1.2	2746.8	126
25	River Kosi, Ramnagar	7.29	7.4	2.2	3683.2	308.4
26	River Kosi, Kashipur	7.8	5.4	3.5	372	2
27	River Dhella (U/s)	8.0	6.4	3.4	2406.6	33.8
28	River Dhella (D/s)	7.2	2.2	18	4034	399
29	River Bhella (U/s)	7.8	6.	3.0	2092.4	6.2
30	River Bhella (D/s)	7.3	1.4	20	1373.4	115.6
31	River Kalyani (U/S)	7.6	7.4	3.0	4833	1918

32	River Kalyani (D/S)	7.4	3.8	6.0	5475	422	
33	River Nandaur (U/s)	Dry					
34	River Nandaur (D/s)	8.0	6.0	5.0	3945	231	
35	River Kichha	7.3	6.0	5.6	1960.8	84	
<b>Designated best use</b>		<b>Class</b>					
<b>Drinking water source without conventional treatment but after disinfections</b>		<b>A</b>	<b>6.5-8.5</b>	<b>6</b>	<b>2</b>	<b>50</b>	<b>-</b>
<b>Outdoor bathing (organized)</b>		<b>B</b>	<b>6.5-8.5</b>	<b>5</b>	<b>3</b>	<b>500</b>	<b>-</b>
<b>Drinking water source with conventional treatment followed by disinfection</b>		<b>C</b>	<b>6.0-9.0</b>	<b>4</b>	<b>3</b>	<b>5000</b>	<b>-</b>

### Lake Water Quality Characteristics April 2020

S.No.	Sampling Location of River	Parameters All value are in mg/L except pH, Coliform in MPN/100 ML				
		pH	DO	BOD	Total Coliform	Fecal Coliform
1	Nainital Lake, District Nainital	7.41	8.6	1.0	4813.2	3921.6
2	Bheemtal Lake, District Nainital	7.36	9.0	1.0	2375.2	227.6

### Ground Water Quality Characteristics April 2020

S.No.	Sampling Location	Parameters All value are in mg/L except pH, Coliform in MPN/100 ML									
		pH	TDS	Conductivity	BOD	COD	Alkalinity	Chloride	Calcium	Magnesium	Total Hardness
1	Handpump near Govt. Primary School, Servarkheda, Kashipur	7.6	251	374	1.6	8.0	148	14	155	38	193
2	Handpump near Chaite Chauraha, Bazpur Road, Kashipur	Dry									
3	Handpump in village dabora at Kashipur (near IGL lagoon)	8.0	190	258	1.2	4.0	176	18	94	63	157
4	Handpump near KV Bazpur Road, Kashipur	7.8	213	304	2.0	6.0	160	12	67	48	115
5	Handpump near Naini Paper Gurudwara, Moradabad Road, Kashipur	7.8	275	410	1.6	6.0	128	28	44	216	260
6	Handpump near Sitarganj, IIE Sitarganj	Dry									
7	Handpump near Jail, Sitarganj, IIE Sitarganj	7.4	368	549	4.0	12	250	26	139	79	218
8	Handpump at Pantnagar, near BOB bank, IIE Pantnagar	7.8	238	320	1.4	1.0	164	18	121	53	174
9	Handpump at Pantnagar near Police Chowki, IIE Pantnagar	7.5	226	303	2.0	4.0	158	16	96	54	150
10	Handpump at Shantipura, Kichha	7.9	230	312	2.6	8.0	172	16	118	60	178

### Water Quality Characteristics of STPs April 2020

S.N.	Name of Sewage Treatment Plant (with capacity)	Parameters							
		All values are in mg/L except pH, coliform in MPN/100 ML							
		Inlet of STP			Outlet of STP				
		pH	BOD	TSS	pH	BOD	TSS	Fecal Coliform	
1	0.075 MLD STP at Devprayag	7.3	160	152	7.2	22	44	500	
2	0.150 MLD MLD STP at Devprayag	7.32	155	154	7.21	24	47	500	
3	1.4 MLD STP at Devprayag	6.85	170	166	7.32	10	18	80	
4	3.5 MLD STP at Tapovan Rishikesh	7.3	185	162	7.8	9.2	28	30	
5	3 MLD STP at Swargashram Rishikesh	7.0	170	140	7.5	8.8	14	34	
6	6 MLD Oxidation Pond at Lakkarghat Rishikesh	6.27	180	168	7.6	34	62	≥1600	
7	5 MLD STP at Chorpani, Muni ki Reti, Dhalwala, Rishikesh	7.3	185	164	7.5	10.8	36	220	
8	20 MLD STP at Motharawala-I Dehradun	7.58	165	156	7.7	8.	16	70	
9	20 MLD STP at Motharawala-II Dehradun	7.6	170	166	7.49	9.2	22	50	
10	68 MLD STP at Kargi Dehradun	7.52	170	164	7.6	8.0	18	40	
11	0.42 MLD STP at Vijay Colony Dehradun	7.44	175	158	7.59	22	40	500	
12	0.72 MLD STP Salawala Dehradun	7.37	170	166	7.54	20	42	500	
<b>Sewage Treatment Plant Final Effluent Standards</b>					6.5-9.0	30	<50	<1000	