

**Ganga Canal D/s Harki Pauri, (Harki Pauri Haridwar at Rishikul Bridge), Haridwar**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.7	1.2	6	17	9	254	85	6	138	85	53	163	0.18		40	70	49.69	0.27	0.95
Feb-21	7.42	1.2	4	16	8.2	126	100	6	105	60	45	82	0.04	0.0006	48	84	47.53	0.18	0.69
Mar-21	8.34	1.4	6	20	9.2	188	120	9	90	53	37	123	0.08	0.001	46	94	55.61	0.26	0.53
Apr-21	7.8	1.2	6	21.9	8.2	156.1	84	13	84	71	13	104.5	0.17	0.001	40	84	46.53	0.25	0.52
May-21	7.76	1.4	6	25	9.8	185	92	11	86	66	20	106.2	0.22	0.01	48	94	63.22	0.19	0.77

**Upper Ganga Canal D/S Roorkee, Haridwar, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.85	1.4	6	16	9.6	234	74	6	94	60	34	152	0.26		58	110	45.69	0.37	1.30
Feb-21	6.82	1.4	6	14	10.2	114	107	7	90	67	23	76	0.22	0.0008	63	120	60.24	0.18	0.68
Mar-21	8.2	1.2	6	18	9.8	166	115	10	80	47	33	108	0.13	0.001	58	110	50.03	0.16	1.01
Apr-21	7.5	1.4	6	21	8.4	164.8	88	10	77	72	5	103	0.2	0.009	70	120	55.65	0.26	0.65
May-21	7.55	1.2	6	14	9.2	164.3	101	12	90	63	27	104.5	0.19	0.02	79	94	48.17	0.14	0.73

**River Ganga at Harki Pauri Haridwar**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.3	1.2	6	16	9.6	195	83	6	119	75	44	126	0.19		46	70	57.98	0.26	0.92
Feb-21	7.66	1	4	17	9.2	90	96	6	87	54	33	59	0.09	0.0014	40	63	57.43	0.15	0.09
Mar-21	8.33	1.2	4	19	9.4	145	135	7	74	38	36	95	0.05	0.001	47	70	49.24	0.17	0.13
Apr-21	7.36	1.2	6	21.8	9.6	124.1	82	11	87	54	33	79.2	0.31	0.005	43	70	53.11	0.31	0.63
May-21	8.22	1.2	6	26	9.4	180.9	122	10	117	75	42	111.2	0.19	0.02	38	63	55.11	0.10	0.60

**Ganga Canal at Dam Koti, Haridwar (Upper River Ganga Canal at Harki Pauri)**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.64	1.2	6	16	9.8	262	93	7.5	156	100	56	169	0.53		46	84	47.93	0.25	0.55
Feb-21	7.68	1	4	17	9.8	130	115	8	85	63	22	84	0.11	0.0002	43	70	53.24	0.21	0.83
Mar-21	8.2	1	4	20	9.4	176	138	8	93	66	27	117	0.08	0.001	40	79	62.53	0.24	0.85
Apr-21	7.25	1	4	22.5	8.4	160.9	81	11	88	68	20	102.7	0.52	0.009	38	70	52.61	0.24	0.69
May-21	8.08	1	4	26	9.6	646	90	8	80	60	20	402	0.27	0.01	34	63	70.24	0.15	0.80

**Ganga at Haridwar U/S Bindhughat, Dudhiyavan, Haridwar, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.59	1.2	6	16	8.2	242	92	8	140	92	48	155	0.33		70	110	44.52	0.33	1.20
Feb-21	7.72	1.2	4	18	10.8	140	129	8	108	63	45	92	0.08	0.0004	63	120	50.17	0.11	0.90
Mar-21	8.3	1.0	4	20	9.6	215	102	8	99	74	25	141	0.06	0.002	70	94	49.54	0.17	0.79
Apr-21	7.73	1.2	4	22.2	8.4	186.9	98	14	98	76	22	121.9	0.32	0.003	58	84	49.13	0.20	0.43
May-21	7.87	1.2	6	27	10	231	95	10	100	65	35	125.6	0.22	0.02	46	70	65.20	0.16	0.71

**Ganga at Haridwar D/S Balakumari Mandir, Ajeetpur, Haridwar**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.75	1.6	8	16	8.8	229	83	8	103	75	28	148	0.27		70	130	41.41	0.26	1.32
Feb-21	7.54	1.4	6	16	10.4	142	125	8	97	60	37	92	0.36	0.0011	84	140	40.32	0.11	0.24
Mar-21	8.37	1.6	6	19	9.2	186	145	11	86	60	26	121	0.21	0.003	94	150	36.24	0.15	0.17
Apr-21	7.52	1.4	6	22.2	8.2	150	82	13	76	60	16	99.4	0.27	0.006	79	130	53.61	0.19	0.12
May-21	7.62	1.2	6	24	8.8	151.8	95	10	90	71	19	106.3	0.27	0.01	70	120	59.24	0.11	0.59

**Ganga Canal at Lal Ta Rao Bridge, Haridwar (Upper Ganga Canal), Haridwar**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.61	1.2	6	16	9.4	232	60	8	102	65	37	150	0.41		63	94	52.27	0.41	1.31
Feb-21	7.71	1.2	4	17	10	102	105	8	92	53	39	67	0.07	0.0003	46	84	43.26	0.16	1.03
Mar-21	8.3	1.2	4	19	9.2	147	122	8	80	49	31	97	0.05	0.001	40	70	57.54	0.21	0.93
Apr-21	7.61	1	4	20.9	8.8	169.8	85	13	67	59	8	111.4	0.39	0.007	43	79	49.55	0.33	1.01
May-21	7.8	1.2	4	26	9.0	162	102	11	93	80	13	106.8	0.19	0.02	40	70	62.11	0.16	0.49

**Suswa River at Mothrawala, (Suswa (D/S) Mathurawala), Dehradun, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.6	28	106	18	2.8	916	310	45	295	250	45	620	1.42		> 1600	> 1600	140.65	0.15	0.18
Feb-21	7.28	26	94	19	3.4	551	352	40	350	310	40	369	1.46		> 1600	> 1600	138.2	0.18	0.16
Mar-21	8.01	28	84	21	3.2	572	400	35	370	320	50	380	1.18		> 1600	> 1600	143.22	0.24	0.20
Apr-21	7.4	26	80	22	3.2	815	430	40	397	320	77	530	0.03	0.078	> 1600	> 1600	177.23	0.09	0.85
May-21	7.52	24	76	27	3.0	769	370	35	330	280	50	501	0.31	0.02	> 1600	> 1600	158.19	0.18	0.69

**River Ganga after confluence of River Song near Satyanarayan Temple D/S Raiwala, Dehradun**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.8	1.6	8	18	10	641	120	12	170	125	45	416	0.06		70	120	27.94	0.18	1.55
Feb-21	8	1.8	6	18	9.6	105	91	10	88	45	43	69	1.72	0.0079	63	110	93.84	0.20	2.23
Mar-21	8.0	1.6	6	23	9.8	130	96	9	84	44	40	86	0.003	0.0026	58	94	140.28	0.112	1.23
Apr-21	7.96	1.4	6	23	8.2	365	245	15	265	195	70	235	0.59	0.02	84	110	80.56	0.07	0.63
May-21	7.9	1.2	6	25	9.4	506	250	9	230	200	30	312	0.18	0.02	70	94	47.24	0.15	0.53

**River Ganga at Rishikesh U/S Lakshmanjhula, Swargashram U/S of Rishikesh**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.61	1	4	15	11	173	88	10	74	55	19	112	0.94		14	27	44.22	0.15	1.40
Feb-21	7.28	1	4	10	9.8	116	96	8	85	45	40	76	1.72	0.041	17	32	119.24	0.282	0.68
Mar-21	7.81	1	4	19	10.4	106	82	7	80	46	34	70	0.0028	0.0049	14	38	54.891	0.061	0.94
Apr-21	7.26	1	4	20	10	115	97	7	80	53	27	70	0.33	0.011	13	40	40.80	0.15	1.09
May-21	7.6	1	4	20	10	149.3	100	6.5	65	55	10	97.3	0.15	0.02	17	34	59.26	0.18	0.77

**Ganga at D/S of Rishikesh, Near Pashulok, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.54	1.2	4	15	10.8	187	80	7	100	54	46	121	0.25		26	47	20.27	0.05	1.09
Feb-21	7.4	1	4	10	9.8	144	130	7	93	57	36	95	0.65	0.047	21	40	77.24	0.143	1.72
Mar-21	7.7	1	4	18	9.8	140	100	8	86	56	30	90	0.006	0.005	13	38	66.533	0.088	0.35
Apr-21	7.56	1	4	20	9.6	159	85	6	71	53	18	77	0.43	0.017	14	34	43.24	0.06	0.78
May-21	7.68	1.2	4	20	9.8	146.7	90	7	72	48	24	95.5	0.29	0.02	22	38	52.53	0.11	0.70

**River Yamuna at U/S of Lakhwar Dam, Dehradun, (River Yamuna U/s Lakhwar Dam), Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.57	1	4	15	9.2	315	90	8	85	40	45	200			<2	<2			
Apr-21	7.5	1	4	18	9.6	300	136	6	151	120	31	194.9	0.371	0.0011	<2	<2	20.11	0.15	0.45

**River Yamuna at U/S Dakpathar, Dehradun**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.74	1.2	6	16	8.6	227	90	7	98	55	43	138			40	70			
Apr-21	7.41	1.2	6	20	9.4	151.9	87	8	102	72	30	99	0.42	0.005	38	63	42.75	0.144	0.57

**River Alaknanda A/C Mandakini at Rudrapryag, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.49	1	4	8	10.4	228	122	9	120	80	40	146	0.56	0.0007	<2	<2	50.766	0.00128	1.26
Feb-21	7.56	1	4	16	10.2	204	100	8	110	72	38	134	0.61	0.00105	<2	<2	45.18	0.0014	1.20
Mar-21	8.18	1	4	16	10.4	463	100	7	87	64	23	301	0.07	0.0017	<2	<2	4.432	0.167	1.8792

**River Mandakini B/C Alaknanda at Rudrapryag, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.2	1	4	9	10.2	157	94	8.5	106	78	28	102	0.28	0.0007	<2	<2	20.04	0.00064	1.7964
Feb-21	7.6	1	4	16	10.4	146	90	8	100	70	30	98	0.35	0.0013	<2	<2	27.24	0.00117	1.43
Mar-21	8.25	1	4	16	10.4	117	83	8	108	72	36	79	0.21	0.0026	<2	<2	24.048	0.172	1.998

**River Alaknanda B/C Mandakini at Rudrapryag, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.02	1	4	8	10.8	240	135	12	137	90	47	155	0.26	0.00035	<2	<2	48.8976	0.00576	1.134
Feb-21	7.3	1	4	17	10	246	110	10	124	78	46	160	0.02	0.0009	<2	<2	38.11	0.0004	1.27
Mar-21	8.16	1	4	17	10.2	195	111	8	121	80	41	135	0.15	0.00011	<2	<2	76.152	0.206	1.8756

**River Alaknanda A/C Bhagirathi at Devpryag, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.48	1	4	14	10.4	184	120	9.5	130	92	38	114	1.01	0.0007	<2	<2	41.9504	0.07744	2.4552
Feb-21	7.84	1	4	17	9	108	95	10	72	55	17	71	0.43	0.0004	<2	<2	19.75	0.0008	1.14
Mar-21	8.28	1	4	15	10.4	180	115	8	94	80	14	118	0.52	0.0008	<2	<2	40.882	0.121	1.188
May-21	7.72	1	4	16	9.6	146.6	80	6	85	57	28	95.6	0.26	0.01	<2	<2	43.11	0.19	0.65

**River Alaknanda B/C to Bhagirathi at Devpryag, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.59	1	4	14	9.8	194	118	9.5	121	75	46	123	0.84	0.00105	<2	<2	32.3312	0.00256	1.2348
Feb-21	7.31	1	4	17	9	169	132	8	97	78	19	112	0.44	0.00033	<2	<2	32.55	0.0012	1.28
Mar-21	8.14	1	4	15	9.8	188	140	8	106	94	12	125	0.43	0.002	<2	<2	26.453	0.206	0.8388
May-21	7.45	1	4	15	9.6	153.4	77	6.5	90	53	37	98.1	0.21	0.01	<2	<2	33.21	0.17	0.73

**River Bhagirathi B/C with Alaknanda at Devpryag, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.23	1	4	13	10	116	82	7.5	110	68	42	75	0.29	0.00105	<2	<2	37.1408	0.00128	0.972
Feb-21	7.7	1	4	16	9.6	83	84	7.5	52	30	22	54	0.32	0.0007	<2	<2	26.20	0.0023	0.93
Mar-21	7.83	1	4	16	10.2	230	69	7	55	50	5	145			<2	<2	34.202	0.182	1.188
May-21	7.41	1	4	14	9.8	128.9	85	6	70	47	23	86.5	0.19	0.02	<2	<2	29.54	0.13	0.90

**River Ganga D/S Bishanpur Kundi, Haridwar, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.9	1.4	8	16	9.2	214	85	8	99	67	32	137	0.25		63	120	43.82	0.24	0.78
Feb-21	7.18	1.4	6	16	9.4	112	115	9	84	53	31	74	0.17	0.0022	58	110	50.71	0.17	0.02
Mar-21	8.38	1.2	4	19	8.8	177	125	10	90	60	30	122	0.13	0.002	63	110	53.11	0.19	0.09
Apr-21	7.43	1.2	6	22.4	8.2	135.5	70	12	74	57	17	85.9	0.47	0.01	70	120	50.26	0.28	0.82
May-21	7.73	1.4	6	25	9.6	169.4	87	10	91	80	11	106.6	0.15	0.01	79	94	50.24	0.13	0.53

**River Ganga D/S Lakkarghat O P, Haridwar**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.6	1.6	6	16	9.6	610	204	12	210	180	30	398	1.38		22	46	36.53	0.21	1.79
Feb-21	7.14	1.4	6	16	9.6	431	308	10	324	270	54	286	0.84	0.0015	17	34	47.93	0.23	1.15
Mar-21	8.01	1.2	6	20	9.8	340	260	12	280	220	60	220	0.19	0.003	25	39	53.52	0.17	1.03
Apr-21	7.52	1.2	4	22	9	276	295	12	285	205	80	180	0.26	0.014	22	43	57.64	0.19	1.13
May-21	7.1	1.2	4	26	9	370	180	14	163	137	26	254	0.20	0.01	25	46	57.55	0.16	0.60

**River Ganga D/S Swargaashram-1, Rishikesh**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Fecal Coliform (MPN/100 mL)	Total Coliform (MPN/100 mL)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)
Jan-21	7.66	1	6	16	10	302	148	11	110	85	25	195	0.93		17	40	84.1	0.13	1.26
Feb-21	7.5	1.2	4	12	9.4	169	150	9	124	64	60	113	0.93	0.007	22	46	48.33	0.23	0.54
Mar-21	8.0	1	4	21	9.8	160	110	8	90	60	30	106	0.0033	0.028	21	40	56.914	0.067	0.75
Apr-21	7.63	1	4	22	9.2	271	135	8	115	81	34	131	0.52	0.016	17	38	47.34	0.11	0.55
May-21	7.38	1.2	4	29	9.8	424	190	10	170	140	30	275	0.35	0.01	21	40	57.31	0.29	0.62

**Naini Lake at Nainital (Water Intake Point), Nainital**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)
Jan-21	7.52	1.4	6	09	9.6	370	232	11	288	152	136	312
Feb-21	7.38	1.6	7	11	9.2	380	244	15	276	148	128	294
Mar-21	7.24	2.0	6.0	14	8.6	420	238	19	258	132	126	281
Apr-21	7.18	2.0	5.0	18	8.20	410	226	13	254	136	118	289
May-21	7.52	1.4	5.0	19	7.8	390	194	17	230	122	108	263

**Bheemtal Lake, Nainital, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)
Jan-21	7.46	1.2	4	11	9	160	124	15	174	98	76	117
Feb-21	7.58	1	3	13	8.8	190	136	17	190	106	84	133
Mar-21	7.35	1.4	4.0	16	8.20	210	158	19	172	98	74	140
Apr-21	7.79	1.6	5.0	20	8.0	190	162	15	186	104	82	122
May-21	7.39	1.2	4.0	20	7.6	170	132	11	174	96	78	119

**Gola River at Haldwani, (River Gola, Nainital), Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	Temp (°C)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCO <sub>3</sub> (mg/L)	Chlorides (mg/L)	Hardness as CaCO <sub>3</sub> (mg/L)	Calcium as Ca (mg/L)	Magnesium as Mg (mg/L)	Total Dissolved Solids (mg/L)
Jan-21	8.14	2.4	8	13	8.2	210	136	17	218	116	102	153
Feb-21	7.92	2	8	16	7.8	230	158	21	206	112	94	167
Mar-21	7.74	2.40	8.0	21	7.0	260	172	25	190	104	86	174
Apr-21	8.17	3.0	7.0	23	7.2	240	178	21	224	126	98	163
May-21	7.83	1.6	6.0	24	7.2	230	148	15	206	114	92	137

**Kosi River at Kashipur Bajpur Road Bridge, Kashipur, US Nagar**

Month	pH	BOD (mg/L)	COD (mg/L)	Conductivity (umhos/cm)	Temp (°C)	DO (mg/L)	Total Dissolved Solids (mg/L)
Jan-21	7.90	4	24	750	14	4.6	503
Feb-21	7.9	3	16	700	23	9.8	472
March-21	7.80	3.20	12	640	25	8.80	428
Apr-21	7.50	3.50	15	632	24	8.50	388
May-21	7.20	3.20	12	612	22	8.70	323

**Dhella River U/S at Kashipur Moradabad Road Bridge, (U/S Moradabad Road) US Nagar**

Month	pH	BOD (mg/L)	COD (mg/L)	Conductivity (umhos/cm)	Temp (°C)	DO (mg/L)	Total Dissolved Solids (mg/L)
Jan-21	7.90	4	10	410	12	4.8	255
Feb-21	7.90	5	24	460	19	8.10	298
March-21			River Dry				
Apr-21			River Dry				
May-21	7.10	29	102	769	21	1.1	591

**Dhella River D/S at Thakurdwara, Aliganj Road, US Nagar**

Month	pH	BOD (mg/L)	COD (mg/L)	Conductivity (umhos/cm)	Temp (°C)	DO (mg/L)	Total Dissolved Solids (mg/L)
Jan-21	7.30	56	180	900	13	0.80	675

Feb-21	7.90	42	124	920	24	0.20	602
March-21	7.80	44	132	940	22	0.10	620
Apr-21	7.40	39	121	963	23	0.50	642
May-21	7.80	34	116	930	22	0.80	631

**River Bhella U/S Kashipur, (U/S Ramnagar Road), US Nagar**

Month	pH	BOD (mg/L)	COD (mg/L)	Conductivity (umhos/cm)	Temp (°C)	DO (mg/L)	Total Dissolved Solids (mg/L)
Jan-21	7.90	8	30	540	12	3.0	348
Feb-21	8.0	3	10	240	17	7.5	172
Mar-21	7.90	3.20	16	280	23	7.0	186
Apr-21			Dry				
May-21	7.20	23	108	612	21	1.4	434

**Bhella River at Lohia Bridge D/S Kashipur (D/S Lohiya Bridge), US Nagar**

Month	pH	BOD (mg/L)	COD (mg/L)	Conductivity (umhos/cm)	Temp (°C)	DO (mg/L)	Total Dissolved Solids (mg/L)
Jan-21	6.90	28	160	690	14	0.80	437
Feb-21	6.90	24	96	630	21	1.40	412
Mar-21	6.50	26	104	650	24	1.20	434
Apr-21	6.80	27	119	695	23	1.10	479
May-21	6.80	29	131	695	21	1.10	467

**Pilakhar River at Bilaspur, Rampur, US Nagar**

Month	pH	BOD (mg/L)	COD (mg/L)	Conductivity (umhos/cm)	Temp (°C)	DO (mg/L)	Total Dissolved Solids (mg/L)
Jan-21	8.20	3.8	24	770	13	6.0	503
Feb-21	7.50	5.10	16	750	21	7.8	503
Mar-21	7.60	5.20	20	800	22	7.50	536
Apr-21	7.50	5.80	19	813	22	7.10	516
May-21	7.20	5.30	17	783	21	7.30	502

**Nanduar River U/S Sitarganj Industrial Area, (Nandour U/S Sitarganj), US Nagar**

Month	pH	BOD (mg/L)	COD (mg/L)	Conductivity (umhos/cm)	Temp (°C)	DO (mg/L)	Total Dissolved Solids (mg/L)
Jan-21							
Feb-21							
Mar-21							
Apr-21							
May-21	7.20	3.30	15	473	22	7.30	310

**Nanduar River D/S Sitarganj Industrial Area, (Nandour D/S Sitarganj), US Nagar**

Month	pH	BOD (mg/L)	COD (mg/L)	Conductivity (umhos/cm)	Temp (°C)	DO (mg/L)	Total Dissolved Solids (mg/L)
Jan-21	8.40	3.7	12	420	15	8.0	288
Feb-21	7.6	3.2	12	436	26	8.10	292
Mar-21	7.50	3.60	14	460	24	7.50	308
Apr-21	7.20	3.70	16	480	23	7.0	298
May-21	7.10	3.80	18	483	22	7.10	300

**Kichha River at Kichha, (River Kichha (U/S Nagarbhalla, Kashipur), US Nagar**

Month	pH	BOD	COD	Conductivity	Temp	DO	Total Dissolved
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		(mg/L)	(mg/L)	(umhos/cm)	(°C)	(mg/L)	Solids (mg/L)
Jan-21	8.1	6.9	36	920	15	2.8	750
Feb-21	8.0	3.6	20	980	26	8.8	723
Mar-21	8.10	3.40	18	925	23	9.0	620
Apr-21	8.0	3.10	20	916	24	8.80	612
May-21	7.90	3.30	21	867	22	8.70	592

**Kalyani River at U/S Pantnagar Industrial Area, US Nagar**

Month	pH	BOD (mg/L)	COD (mg/L)	Conductivity (umhos/cm)	Temp (°C)	DO (mg/L)	Total Dissolved Solids (mg/L)
Jan-21	8.1	5.8	30	590	14°	3.4	377
Feb-21	7.0	4.0	20	625	24	7.6	418
Mar-21	7.20	8.0	32	675	24	5.60	452
Apr-21	7.0	8.40	35	698	25	5.30	472
May-21	7.80	8.20	33	688	22	5.10	482

**Kalyani River at D/S Pantnagar Industrial Area, US Nagar**

Month	pH	BOD (mg/L)	COD (mg/L)	Conductivity (umhos/cm)	Temp (°C)	DO (mg/L)	Total Dissolved Solids (mg/L)
Jan-21	7.30	22	80	630	14	1.20	425
Feb-21	8.20	28	152	1200	23	0.20	828
Mar-21	8.0	30	156	1210	23	0.10	840
Apr-21	8.20	28	150	1237	24	0.40	877
May-21	8.50	23	132	1203	23	0.50	821