

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	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	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	10.4	117	83	8	108	72	36	79	0.21	0.0026	<2	<2	24.048	0.172	1.998
June-21	7.65	1	4	9.6	56	51	9	48	34	14	37	0.002	0.03	<2	<2	47.23	0.14	0.73
Aug-21	7.72	1	4	9.6	69.1	44	6	44	30	14	44	0.088	0.001	<2	<2	26.45	0.18	0.21
Sept-21	7.84	1	4	9.2	73	50	7	92	54	38	47	0.06	0.03	<2	<2	15.33	0.15	0.08
Oct-21	7.76	1	4	9.8	80	47	5	64	38	26	53	0.08	0.06	<2	<2	27.94	0.12	0.15
Nov-21	7.0	1.0	4.0	9.6	164	65	8.0	80	42	38	108	0.05	0.04	<2	<2	10.04	0.09	0.23
Dec-21	7.05	1	4	9.0	106.6	50	6	86	72	14	67.8	0.04	0.03	<2	<2	13.21	0.10	0.18

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	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	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	10.2	195	111	8	121	80	41	135	0.15	0.00011	<2	<2	76.152	0.206	1.8756
June-21	7.85	1	4	9.6	110	75	8	74	52	22	72	0.001	0.02	<2	<2	55.04	0.08	0.69
Aug-21	8.04	1	4	9.2	102.3	78	6							<2	<2			
Sept-21	8.15	1	4	9.6	127	70	9	82	60	22	83	0.04	0.02	<2	<2	22.15	0.07	0.13
Oct-21	7.88	1	4	9.6	139	70	7	98	64	34	90	0.09	0.07	<2	<2	26.21	0.07	0.11
Nov-21	7.5	1.0	4.0	9.4	242	93	10	116	80	36	159	0.05	0.04	<2	<2	14.22	0.05	0.28
Dec-21	7.24	1	4	10.2	170	76	8	50	40	10	117	0.05	0.02	<2	<2	15.25	0.07	0.25

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	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	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	10.4	463	100	7	87	64	23	301	0.07	0.0017	<2	<2	4.432	0.167	1.8792
June-21	8.14	1	4	9.8	65	54	10	54	34	20	42	0.002	0.02	<2	<2	43.25	0.13	0.82
Aug-21	7.83	1	4	9.6	82.3	68	8	64	40	24	53	0.014	0.0007	<2	<2	49.43	0.16	0.17
Sept-21	7.90	1	4	9.8	86	70	10	86	46	40	56	0.06	0.03	<2	<2	26.31	0.17	0.10
Oct-21	7.76	1	4	10	135	67	8	84	68	16	89	0.06	0.02	<2	<2	24.08	0.13	0.13
Nov-21	7.2	1.0	4.0	10	194	65	7.5	122	62	60	122	0.04	0.02	<2	<2	15.94	0.04	0.26
Dec-21	7.10	1	4	10.4	157.4	68	7	76	70	06	99.4	0.03	0.04	<2	<2	18.18	0.09	0.20

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

Month	pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCo3 (mg/L)	Chlorides (mg/L)	Hardness as CaCO3 (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	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	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	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	9.6	146.6	80	6	85	57	28	95.6	0.26	0.01	<2	<2	43.11	0.19	0.65
June-21	8.14	1	4	10	101	70	5	60	52	8	66	0.001	0.03	<2	<2			
July-21	7.55	1	4	10	75	105	9	166	106	62	50	0.03	0.02	<2	<2	36.13	0.12	0.53
Aug-21	7.91	1	4	9.6	85	55	5	90	66	24	54.2	0.002	0.001	<2	<2	32.11	0.19	0.84
Sept-21	8.24	1	4	9.4	103	52	9	68	48	20	67	0.05	0.03	<2	<2	19.15	0.15	0.11
Oct-21	7.81	1	4	10.8	100	57	6	78	58	20	65	0.03	0.08	<2	<2	25.10	0.18	0.13
Nov-21	7.2	1	4	10	210	80	8	152	92	60	136	0.04	0.03	<2	<2	12.45	0.03	0.20
Dec-21	7.13	1	4	10.6	162	78	8	78	54	24	110	0.05	0.03	<2	<2	18.17	0.03	0.41

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

Month	pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCo3 (mg/L)	Chlorides (mg/L)	Hardness as CaCO3 (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	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	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	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	9.6	153.4	77	6.5	90	53	37	98.1	0.21	0.01	<2	<2	33.21	0.17	0.73
June-21	8.09	1	4	10	112	76	5.5	76	56	20	74	0.002	0.02	<2	<2	53.21	0.09	0.70
July-21	7.9	1	4	9.8	78	90	8	110	60	50	51	0.01	0.02	<2	<2	33.56	0.19	0.73
Aug-21	8.05	1	4	9.0	98.4	70	7	74	64	10	63.2	0.001	0.0007	<2	<2	38.26	0.17	1.17
Sept-21	8.0	1	4	9.8	115	74	9	82	68	14	75	0.10	0.05	<2	<2	15.17	0.07	0.09
Oct-21	7.93	1	4	10	130	76	8	78	56	22	86	0.03	0.06	<2	<2	30.81	0.10	0.15
Nov-21	7.3	1	4	10.6	221	80	5	150	80	70	146	0.06	0.05	<2	<2	15.28	0.04	0.21
Dec-21	7.21	1	4	10	160.4	75	8	78	60	18	112	0.03	0.02	<2	<2	19.13	0.07	0.20

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

Month	pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Conductivity (µmohm/cm)	Alkalinity as CaCo3 (mg/L)	Chlorides (mg/L)	Hardness as CaCO3 (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	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	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	10.2	230	69	7	55	50	5	145			<2	<2	34.202	0.182	1.188
May-21	7.41	1	4	9.8	128.9	85	6	70	47	23	86.5	0.19	0.02	<2	<2	29.54	0.13	0.90
June-21	7.45	1	4	9.2	98	60	6	66	38	28	65	0.002	0.01	<2	<2	49.11	0.15	0.65
July-21	7.45	1	4	9.6	77	100	9	114	60	54	51	0.02	0.01	<2	<2	42.17	0.15	0.62
Aug-21	7.67	1	4	8.8	78.4	45	7	54	32	22	51.5	0.002	0.0009	<2	<2	44.26	0.20	0.97
Sept-21	8.18	1	4	9.8	97	60	8	84	44	40	63	0.09	0.03	<2	<2	18.20	0.23	0.13
Oct-21	7.94	1	4	9.8	98	39	9	52	38	14	63	0.04	0.03	<2	<2	26.24	0.13	0.17
Nov-21	7.2	1	4	10	210	80	8	152	92	60	136	0.04	0.03	<2	<2	12.45	0.03	0.20
Dec-21	6.93	1	4	10	108.6	55	8	48	38	10	66.5	0.04	0.03	<2	<2	23.54	0.04	0.31

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	11	173	88	10	74	55	19	112	0.94		14	27	44.22	0.15	1.40
Feb-21	7.28	1	4	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	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	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	10	149.3	100	6.5	65	55	10	97.3	0.15	0.02	17	34	59.26	0.18	0.77
June-21	7.80	1	4	10.2	216	60	9	70	58	12	153	0.002	0.021	20	40	58.13	0.16	0.61
July-21	7.80	1.2	4	9.2	427	80	9	96	68	28	278	0.03	0.02	22	43	47.15	0.17	0.49
Aug-21	8.25	1.2	4	9.8	101	80	7	78	60	18	66	0.002	0.005	17	40	57.36	0.08	1.20
Sept-21	8.15	1	4	10.4	126	170	9	116	67	49	82	0.05	0.03	14	38	47.15	0.07	0.58
Oct-21	7.8	1	4	9.8	123.5	58	7	61	40	21	73.2	0.06	0.05	11	33	39.15	0.20	0.43
Nov-21	7.87	1.2	4	10.4	238	63	8	70	60	10	157	0.09	0.03	9.2	32	12.11	0.13	0.37
Dec-21	7.6	1.0	4	10	184	70	9	64	45	19	120	0.035	0.0008	10	34	33.10	0.40	0.40

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	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	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	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	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	9.8	424	190	10	170	140	30	275	0.35	0.01	21	40	57.31	0.29	0.62
June-21	7.34	1.2	4	9.6	264	90	13	165	135	30	174	0.001	0.01	25	43	62.10	0.19	0.72
July-21	7.75	1.2	4	9.4	330	210	12	208	170	38	218	0.13	0.02	26	46	58.6	0.16	0.67
Aug-21	7.77	1.2	4	9.2	203	98	9	126	100	26	135	0.0003	0.003	21	43	57.13	0.13	0.85
Sept-21	7.74	1.2	4	9.8	153	180	11	193	145	48	101	0.06	0.02	22	40	40.26	0.10	0.43
Oct-21	7.94	1	4	9.4	113.8	58	10	70	37	33	74.1	0.05	0.04	17	38	42.26	0.18	0.52
Nov-21	7.52	1.2	4	9.6	552	193	10	200	180	20	367	0.07	0.03	14	40	69.24	0.13	0.46
Dec-21	7.74	1	4	10	146	66	8	72	40	32	96	0.027	0.0003	17	43	38.97	0.15	0.39

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	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	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	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	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	9	370	180	14	163	137	26	254	0.20	0.01	25	46	57.55	0.16	0.60
June-21	7.20	1.2	6	9.4	165	145	17	165	140	25	105	0.001	0.02	32	48	59.73	0.15	0.59
July-21	7.80	1.4	6	8.8	135	80	10	70	60	10	86	0.05	0.03	33	46	48.37	0.13	0.85
Aug-21	8.32	1.6	6	8.8	248	130	8	180	120	60	165	0.0018	0.013	32	48	56.93	0.09	0.68
Sept-21	7.70	1.4	6	9.4	175	173	9	180	140	40	113	0.07	0.03	27	46	57.21	0.08	0.37
Oct-21	8.15	1.2	6	9.0	222	110	11	130	115	15	150.4	0.05	0.06	26	48	53.62	0.11	0.44
Nov-21	7.61	1.4	6	9.2	339	105	11	130	100	30	225	0.10	0.07	17	40	55.27	0.11	0.49
Dec-21	7.72	1.2	4	9.6	442	100	12	140	112	28	292	0.04	0.0006	22	46	79.01	0.28	0.33

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	10	641	120	12	170	125	45	416	0.06		70	120	27.94	0.18	1.55
Feb-21	8	1.8	6	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	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	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	9.4	506	250	9	230	200	30	312	0.18	0.02	70	94	47.24	0.15	0.53
June-21	8.21	1.2	4	9.2	360	210	12	240	156	84	240	0.002	0.03	38	58	192.92	0.16	0.75
July-21	7.9	1.4	6	9.6	128	72	13	80	60	20	82	0.04	0.03	70	94	52.10	0.15	0.75
Aug-21	7.40	1.8	6	9.2	380	190	8	240	190	50	250	0.002	60.13	63	84	60.13	0.11	0.83
Sept-21	7.95	1.6	6	9.6	173	55	11	70	40	30	112	0.11	0.05	58	70	85.13	0.2	0.30
Oct-21	8.01	1.2	4	9.0	365	161	14	240	225	15	251	0.04	0.04	21	38	58.26	0.11	0.40
Nov-21	8.3	1.4	6	9	590	175	11	256	178	78	392	0.08	0.05	58	70	66.11	0.13	0.61
Dec-21	7.95	1	4	10	138.6	182	12	230	200	30	88.4	0.07	0.0052	21	48	26.30	0.34	0.83

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	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	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	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	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	3.0	769	370	35	330	280	50	501	0.31	0.02	> 1600	> 1600	158.19	0.18	0.69
June-21	7.73	26	104	3.2	785	350	30	422	354	68	511	0.002	0.40	> 1600	> 1600	185.44	0.15	0.68
July-21	7.90	29	116	3.0	759	360	40	366	310	56	494	0.30	0.08	> 1600	> 1600	183.15	0.19	1.13
Aug-21	7.11	24	96	3.6	425	245	34	353	230	123	281	0.005	0.02	> 1600	> 1600	172.11	0.23	0.82
Sept-21	7.6	25	102	3.8	397	245	30	358	282	76	258	1.06	0.02	> 1600	> 1600	173.11	0.11	0.40
Oct-21	7.90	22	86	4.0	760	315	45	358	310	48	494	0.05	0.03	> 1600	> 1600	149.23	0.19	0.45
Nov-21	8.1	26	78	3	570	330	42	440	330	110	378	0.10	0.07	> 1600	> 1600	93.86	0.12	0.82
Dec-21	6.91	25	76	2.4	724	350	46	460	350	110	480	0.09	0.0009	> 1600	> 1600	127.90	0.82	0.96

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	9.2	315	90	8	85	40	45	200			<2	<2			
Apr-21	7.5	1	4	9.6	300	136	6	151	120	31	194.9	0.371	0.0011	<2	<2	20.11	0.15	0.45
July-21	7.45	1	4	10.2	99	87	8	128	78	50	65	0.06	0.02	<2	<2	31.25	0.14	0.82
Aug-21	7.8	1.2	4	9.6	122	71	9	86	58	28	80	0.002	0.001	<2	<2	33.26	0.19	0.51
Oct-21	7.81	1	4	9.8	266	80	5	112	70	42	177	0.04	0.06	<2	<2	55.11	0.2	0.39
Nov-21	7.77	1	4	10	296	105	7.5	140	105	35	198.4	0.10	0.05	<2	<2	33.15	0.15	0.35
Dec-21	7.95	1	4	9.8	249	70	5	68	54	14	159	0.06	0.03	<2	<2	38.54	0.15	0.43

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	8.6	227	90	7	98	55	43	138			40	70			
Apr-21	7.41	1.2	6	9.4	151.9	87	8	102	72	30	99	0.42	0.005	38	63	42.75	0.144	0.57
July-21	7.66	1.2	6	9.8	100	103	9	116	74	42	66	0.07	0.04	38	63	51.21	0.18	0.52
Aug-21	8.1	1.6	6	9.2	79	55	9	74	70	42	52	0.003	0.01	32	58	49.10	0.17	0.72
Oct-21	7.37	1	4	8.6	208	52	6	90	48	42	139	0.03	0.05	21	40	55.26	0.19	0.48
Nov-21	7.68	1	4	9.2	253	70	8	106	66	40	167.7	0.11	0.06	22	46	29.73	0.11	0.30
Dec-21	7.62	1	4	9.2	173	85	6	100	89	11	115	0.03	0.04	17	40	37.24	0.13	0.45

**River Ganga at Harki Pouri Haridwar**

Month	pH	BOD (mg/L)	COD (mg/L)	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	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	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	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	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	9.4	180.9	122	10	117	75	42	111.2	0.19	0.02	38	63	55.11	0.10	0.60
June-21	8.0	1.4	6	9.02	259	68	07	88	70	18	170	0.001	0.02	40	70	59.76	0.15	0.75
July-21	7.82	1.2	4	9.6	118	63	10	80	44	36	77	0.07	0.03	46	79	57.21	0.17	0.60
Aug-21	7.92	1.2	4	9.4	148	64	13	102	70	32	96	0.03	0.002	40	70	49.16	0.16	0.63
Sept-21																		
Oct-21	7.8	1	4	8.20	233	60	10	122	38	84	149.12	0.17	0.03	43	63	24.70	0.09	0.03
Nov-21	7.9	1.5	6	9.4	210	75	10	88	53	35	134.4	0.05	0.05	46	70	19.70	0.15	0.03
Dec-21	7.20	1	4	10	252	68	5	80	66	14	161	0.17	0.02	27	63	19.47	0.16	0.18

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	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	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	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	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	9.6	169.4	87	10	91	80	11	106.6	0.15	0.01	79	94	50.24	0.13	0.53
July-21	8.14	1.8	6	9.2	135	56	7	120	70	50	92	0.05	0.02	79	110	49.26	0.10	0.58
Aug-21	7.54	2	8	9.6	143	80	11	88	74	14	94	0.01	0.001	70	94	58.20	0.20	0.50
Sept-21																		
Oct-21	7.0	1	6	8.2	233	65	15	94	56	38	149.12	0.26	0.06	84	110	22.68	0.12	0.03
Nov-21	7.8	1.2	5	9.3	185	75	5	87	56	31	118.4	0.08	0.03	70	94	18.6	0.17	0.03
Dec-21	8.25	1	6	10.4	292	94	5	76	62	14	187	0.34	0.03	48	110	24.92	0.12	0.04

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	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	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	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	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	9.0	162	102	11	93	80	13	106.8	0.19	0.02	40	70	62.11	0.16	0.49
June-21	8.0	1	4	8.9	259	80	7	69	55	14	170	0.001	0.01	46	79	48.63	0.21	0.65
July-21	8.10	1.2	4	9.4	122	55	7	80	42	38	79	0.04	0.05	40	70	52.13	0.13	1.10
Aug-21	7.67	1.2	4	9.6	142	120	14	80	70	10	91	0.02	0.002	39	63	55.11	0.17	0.68

<b>Sept-21</b>																		
<b>Oct-21</b>	7.3	1	4	8.4	252	60	15	82	58	24	161.28	0.18	0.03	39	63	23.14	0.080	0.23
<b>Nov-21</b>	7.5	1.6	5	9.5	201	75	10	85	58	27	128.64	0.07	0.04	46	63	17.3	0.20	0.18
<b>Dec-21</b>	7.50	1	4	9.6	247	65	6	56	38	18	158	0.24	0.01	40	70	34.83	0.18	0.11

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	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	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	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	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	9.6	646	90	8	80	60	20	402	0.27	0.01	34	63	70.24	0.15	0.80
June-21	8.0	1	4	8.86	248	72	8.5	80	65	15	177	0.003	0.02	40	70	52.05	0.15	0.71
July-21	7.94	1.2	4	9.0	140	65	10	70	48	22	90	0.05	0.07	46	84	55.26	0.15	0.90
Aug-21	7.82	1.6	4	9.4	144	67	12	90	60	30	92	0.02	0.002	46	79	62.23	0.14	0.53
Sept-21																		
Oct-21	7.4	1	4	8.2	219	60	10	84	52	32	140.16	0.03	0.04	46	79	24.92	0.11	0.04
Nov-21	7.6	1.5	4	9	194	90	10	95	66	29	124.16	0.11	0.05	33	79	23.3	0.13	0.41
Dec-21	7.80	1	4	9.8	289	100	6	84	72	12	184.96	0.19	0.02	32	70	24.27	0.09	0.08

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	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	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	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	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	10	231	95	10	100	65	35	125.6	0.22	0.02	46	70	65.20	0.16	0.71
June-21	8.0	1	6	8.95	282	75	07	82	64	18	186	0.002	0.02	47	84	56.11	0.20	0.68
July-21	7.91	1.2	6	9.4	164	70	9	70	58	12	108	0.03	0.03	84	110	57.20	0.14	0.68
Aug-21	8.32	1.4	6	9.8	155	82	12	130	80	50	101	0.07	0.001	48	84	65.10	0.21	0.82
Sept-21																		
Oct-21	7.6	1	4	10	235.5	60	10	88	50	38	150.7	0.16	0.04	48	70	26.83	0.12	0.02
Nov-21	8.3	2.5	7	9.6	215	85	10	92	64	28	137.6	0.22	0.03	46	70	25.6	0.18	0.02
Dec-21	8.30	1	4	9.9	279	65	9	58	42	16	179	0.23	0.03	49	79	29.21	0.14	0.20

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	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	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	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	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	8.8	151.8	95	10	90	71	19	106.3	0.27	0.01	70	120	59.24	0.11	0.59
June-21	8.1	1.6	6	8.28	364	89	09	75	61	14	241	0.001	0.02	94	130	58.25	0.16	0.73
July-21	7.90	1.8	6	9.0	140	63	10	66	50	16	88	0.07	0.05	84	110	52.27	0.13	0.49
Aug-21	7.84	2.6	8	9.6	181	95	12	114	86	28	120	0.02	0.001	79	120	60.04	0.17	0.61
Sept-21	7.09	2.2	6	9.4	167	65	12	75	48	27	106.88	0.01	0.004	84	130	29.48	0.10	0.33
Oct-21	6.5	1	8	8.6	281	70	20	98	62	36	179.84	0.34	0.06	84	130	24.30	0.07	0.03
Nov-21	7.6	1	4	8.6	220	95	5	89	53	36	140.8	0.12	0.05	46	84	18.80	0.16	0.02
Dec-21	8.27	1	6	9.68	337	90	7	60	44	16	216	0.56	0.06	47	120	26.84	0.13	0.02

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	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	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	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	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	9.2	164.3	101	12	90	63	27	104.5	0.19	0.02	79	94	48.17	0.14	0.73
June-21	8.2	1.4	6	8.85	298	89	11	70	50	20	179	0.001	0.03	84	110	72.10	0.17	0.65
July-21	7.50	1.6	6	10	102	78	10	80	58	22	67	0.05	0.03	79	120	63.11	0.18	0.57
Aug-21	7.52	1.4	6	9.0	173	100	12	108	94	14	112	0.01	0.003	63	94	55.10	0.13	0.59
Sept-21	7.03	1.4	4	8.2	211	75	12	87	61	26	135.04	0.08	0.005	70	110	29.55	0.12	0.15
Oct-21	7.6	1	4	8.6	238	60	10	82	48	34	152.32	0.25	0.03	58	94	24.27	0.08	0.07
Nov-21	7.2	1.5	5	9	206	80	110	72	45	27	131.8	0.09	0.05	63	94	21.9	0.22	0.06
Dec-21	7.34	2	8	9.3	302	73	11	53	43	10	193	0.15	0.03	47	110	25.22	0.10	0.06

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	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	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	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	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	9.8	146.7	90	7	72	48	24	95.5	0.29	0.02	22	38	52.53	0.11	0.70
June-21	7.94	1	4	9.8	232	62	10	65	50	15	154	0.0020	0.02	26	46	52.05	0.21	0.68
July-21	7.75	1.2	4	9.0	123	30	7	74	62	12	80	0.11	0.28	26	40	68.10	0.11	0.73



Aug-21	8.16	1.4	4	9.0	102	45	9	70	50	20	67	0.003	0.005	25	38	54.77	0.10	0.40
Sept-21																		
Oct-21	7.87	1	4	9.4	115.9	61	7.5	74	60	14	75.2	0.06	0.05	14	26	52.11	0.15	0.55
Nov-21	8.24	1.2	4	9.2	274	50	8	90	60	30	182	0.06	0.04	12	32	33.16	0.11	0.40
Dec-21	7.63	1	4	10.4	130	70	7	69	56	13	82	0.011	0.002	14	34	26.54	0.10	0.27

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	7.52	1.4	6	9.6	370	232	11	288	152	136	312							
Feb-21	7.38	1.6	7	9.2	380	244	15	276	148	128	294							
Mar-21	7.24	2.0	6.0	8.6	420	238	19	258	132	126	281							
Apr-21	7.18	2.0	5.0	8.20	410	226	13	254	136	118	289							
May-21	7.52	1.4	5.0	7.8	390	194	17	230	122	108	263							
June-21	7.39	1.80	6.0	7.60	370	198	21	258	146	112	249							
July-21	7.75	1.4	5	8.4	410	186	19	276	152	124	283	0.001	0.03	220	540	220	0.105	0.486
Aug-21	7.42	1.60	6.0	8.0	430	152	23	264	146	118	271	0.02	0.05	350	920	173.26	0.13	0.53
Sep-21	7.71	1.80	8.0	8.20	410	168	25	272	142	130	283	0.06	0.02	280	920	143.13	0.17	0.29
Oct-21	7.18	1.6	7.0	8.0	440	172	21	260	136	124	291	0.05	0.02	220	540	28.73	0.23	0.33
Nov-21	7.35	1.4	7	8.2	430	164	25	258	142	116	277	0.09	0.06	170	430	97.90	0.11	0.27
Dec-21	7.71	1.0	6.0	8.4	390	178	21	264	136	128	291	0.08	0.05	140	350	45.79	0.25	0.33

**Bheemtal Lake, Nainital, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	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	7.46	1.2	4	9	160	124	15	174	98	76	117							
Feb-21	7.58	1	3	8.8	190	136	17	190	106	84	133							
Mar-21	7.35	1.4	4.0	8.20	210	158	19	172	98	74	140							
Apr-21	7.79	1.6	5.0	8.0	190	162	15	186	104	82	122							
May-21	7.39	1.2	4.0	7.6	170	132	11	174	96	78	119							
June-21	7.72	1.40	8.0	7.40	190	144	19	206	114	92	127							
July-21	7.54	1.2	6.0	7.8	210	158	25	228	122	106	141	0.002	0.016	110	280	25.11	0.092	0.198
Aug-21	7.36	1.40	7.0	7.60	190	136	21	212	114	98	138	0.03	0.03	170	540	33.1	0.11	0.23
Sep-21	7.55	1.60	7.0	7.80	170	146	21	224	122	102	126	0.04	0.02	150	430	21.26	0.16	0.31
Oct-21	7.95	1.2	6.0	8.0	190	134	19	224	122	102	119	0.02	0.03	110	350	24.76	0.11	0.40
Nov-21	7.78	1.6	7	8	170	148	17	214	116	98	126	0.07	0.03	79	240	17.70	0.15	0.29
Dec-21	7.15	1.0	7.0	8.2	190	156	13	220	118	102	119	0.10	0.07	70	210	14.24	0.06	0.37

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	8.14	2.4	8	8.2	210	136	17	218	116	102	153							
Feb-21	7.92	2	8	7.8	230	158	21	206	112	94	167							
Mar-21	7.74	2.40	8.0	7.0	260	172	25	190	104	86	174							
Apr-21	8.17	3.0	7.0	7.2	240	178	21	224	126	98	163							
May-21	7.83	1.6	6.0	7.2	230	148	15	206	114	92	137							
June-21	7.65	2.0	8.0	7.20	210	156	23	234	128	106	155							
July-21	7.91	2.2	8.0	7.4	230	178	19	246	132	114	167	0.002	0.019	170	210	11.22	0.116	0.43
Aug-21	7.28	2.0	8.0	7.6	260	184	17	234	128	106	183	0.02	0.04	150	240	15.23	0.15	0.51
Sep-21	8.14	2.0	8.0	7.60	290	192	19	226	128	98	195	0.02	0.01	170	350	15.13	0.17	0.43
Oct-21	7.91	1.8	9.0	7.4	270	188	15	220	118	102	187	0.03	0.01	130	280	51.55	0.35	0.46
Nov-21	7.49	1.6	8	7.6	260	188	21	228	122	106	173	0.08	0.04	84	220	45.41	0.13	0.31
Dec-21	7.96	1.2	7.0	7.8	240	184	17	216	114	102	183	0.09	0.03	79	210	45.95	0.30	0.38

**Satt Tal Lake at Nainital, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	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)
Aug-21	7.17	1.2	4.0	8.2	160	128	17	188	106	82	107	0.01	0.02	70	170	18.17	0.19	0.38
Oct-21	7.62	1.0	5.0	8.2	130	118	13	188	106	82	106	0.05	0.03	63	170	15.49	0.23	0.38
Nov-21	7.21	1.2	4	8.2	140	122	15	174	96	78	113	0.07	0.03	58	140	16.41	0.15	0.43
Dec-21	7.29	1.0	3.0	8.4	140	124	15	160	92	68	109	0.07	0.04	46	120	7.28	0.37	0.42

**Naukuchiyatal Lake at Nainital, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	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)
Aug-21	7.74	1.4	5.0	8.0	190	146	19	210	118	92	127	0.04	0.05	120	240	23.27	0.15	0.4
Oct-21	7.29	1.4	6.0	8.4	144	162	21	216	122	94	144	0.03	0.03	46	94	23.58	0.10	0.44
Nov-21	7.85	1.2	5	8	170	156	19	192	108	84	121	0.09	0.04	38	70	20.49	0.11	0.27
Dec-21	7.18	1.4	5	8	160	162	21	178	102	76	137	0.09	0.05	32	63	9.33	0.37	0.36

**River Shipra D/S near Karoli Dham, Nainital, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	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)
Aug-21	7.31	2.0	8.0	7.4	220	148	21	216	114	102	147	0.02	0.06	220	350	31.14	0.13	0.48
Oct-21	7.53	1.4	6.0	7.6	190	148	19	236	128	108	125	0.04	0.63	140	350	41.37	0.11	0.29
Nov-21	7.31	1.2	5	7.8	190	138	23	210	118	92	121	0.07	0.04	110	220	18.53	0.15	0.31
Dec-21	7.49	1.4	5	8	170	146	19	206	108	98	127	0.11	0.03	94	210	17.46	0.13	0.42

**River Kosi D/s Almora, Ranikhet Road Bridge, Distt Almora, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	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)
Aug-21	7.96	3.0	10.0	7.2	270	182	25	258	142	116	171	0.02	0.09	140	350	37.15	0.16	0.45
Oct-21	7.31	1.8	7.0	7.4	290	172	21	224	116	108	161	0.06	0.06	94	220	0.11	35.39	0.41
Nov-21	7.95	1.6	6	7.6	270	166	25	234	122	112	188	0.08	0.04	84	170	15.81	0.13	0.36
Dec-21	7.71	1.2	6	7.8	230	154	21	232	124	108	176	0.02	0.04	70	150	10.43	0.32	0.41

**River Saryu D/s Bageshwar Near Bilona Bridge, Distt. Bageshwar, Uttarakhand**

Month	pH	BOD (mg/L)	COD (mg/L)	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)
Aug-21	7.73	2.8	9.0	7.4	240	174	23	218	132	86	165	0.04	0.06	79	220	73.11	0.13	0.81
Oct-21	7.36	1.6	7.0	7.8	210	168	23	228	126	102	167	0.03	0.03	79	170	48.26	0.13	0.36
Nov-21	7.73	1.4	7	7.8	220	174	21	240	132	108	153	0.10	0.03	58	150	13.6	0.10	0.43
Dec-21	7.39	1.6	6	7.8	190	162	15	222	118	104	161	0.05	0.03	63	140	15.20	0.09	0.33

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	7.90	4	24	4.6	750						472							
Feb-21	7.9	3	16	9.8	700						428							
Mar-21	7.80	3.20	12	8.80	640						388							
Apr-21	7.50	3.50	15	8.50	632						323							
May-21	7.20	3.20	12	8.70	612													
June-21	7.40	3.0	10	9.0	618						414							
July-21	7.30	6.0	20	4.50	710	238	17.70	86.28	76.95	9.0	480	0.02	0.03	94	210	195.06	0.35	0.23
Aug-21	7.40	4.90	14.30	6.60	697	195	15.20	79.45	71.95	7.50	466	0.02	0.10	79	240	133.26	0.12	0.36
Sep-21	7.50	4.60	13.80	6.80	688	214	16.40	80.10	72.68	7.42	460	0.05	0.02	110	350	79.15	0.09	0.53
Oct-21	7.3	5.50	20	5.20	600	190	15.90	95.94	68.86	27.08	396	0.06	0.03	84	280	93.34	0.12	0.56
Nov-21	7.1	5	18.5	6.1	589	185	14.20	80.5	72	8.5	394.63	0.07	0.04	70	170	47.28	0.13	0.48
Dec-21	7.40	4.6	16	6.5	560	176	12.10	78	71	7.4	375	0.06	0.03	63	150	77.92	0.15	0.51

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	7.90	4	10	4.8	410						255							
Feb-21	7.90	5	24	8.10	460						298							
Mar-21																		
Apr-21																		
May-21	7.10	29	102	1.1	769						591							
June-21	7.50	22	98	2.0	756						506							
July-21	7.50	10	36	2.50	420	164	18.70	145.50	124.29	21	282	0.01	0.09	220	430	146.16	0.29	54
Aug-21	7.30	8.70	27.50	2.90	397	164	17.20	138.20	119.29	19	265	0.06	0.07	170	350	128	0.22	0.26
Sep-21	7.10	8.40	28	3.0	402	160	18.30	140.76	120.64	20.12	269	0.03	0.05	220	920	123.26	0.11	0.28
Oct-21	7.2	11	36.40	3.40	350	168	20	150.67	120.24	30.43	246	0.05	0.05	280	920	56.71	0.16	0.31
Nov-21	7.40	10.80	38	3.60	366	170	22	154.60	122	32.60	245.22	0.08	0.07	220	540	21.16	0.11	0.39
Dec-21	7.30	8	32	4	370	164	20	142.8	112	30.8	247.9	0.03	0.05	210	430	32.65	0.15	0.47

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	7.30	56	180	0.80	900						675							
Feb-21	7.90	42	124	0.20	920						602							
Mar-21	7.80	44	132	0.10	940						620							
Apr-21	7.40	39	121	0.50	963						642							
May-21	7.80	34	116	0.80	930						631							
June-21																		
July-21	6.90	28	200	1.0	810	416	98.97	186	161.92	24	554	0.03	0.14	430	920	113.83	0.35	0.62
Aug-21	7.20	22.50	182	2.30	720	389	84.22	173	152.32	21.48	482	0.05	0.11	920	1600	97.05	0.28	0.25
Sep-21	7.10	26.40	184	2.50	716	406	92.07	182.66	166.76	15.90	479	0.06	0.04	920	1600	91.33	0.20	0.45
Oct-21	6.9	24	200	2.10	820	456	105.97	185.40	144.14	41.26	560	0.04	0.06	920	1600	76.20	0.16	0.52
Nov-21	7.0	26.50	198	1.90	790	429	99	175.48	152	23.48	529	0.03	0.04	920	1600	57.99	0.11	0.52
Dec-21	7.20	24	192	2.8	710	428	96	170.98	142	28.98	475	0.08	0.02	920	1600	22.72	0.11	0.58

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	7.90	8	30	3.0	540						348							
Feb-21	8.0	3	10	7.5	240						172							
Mar-21	7.90	3.20	16	7.0	280						186							
Apr-21			Dry															
May-21	7.20	23	108	1.4	612						434							
June-21																		
July-21	7.40	12	40	2.60	300	238	22.94	147.40	121.04	26	205	0.02	0.03	280	540	41.41	0.23	0.63
Aug-21	7.30	11.10	39.50	2.90	304	214												
Sep-21	7.60	12.40	37.20	3.0	298	226	21.12	150	132.44	17.76	199	0.04	0.06	350	920	45.21	0.15	0.43
Oct-21	7.4	12.50	39.0	3.20	310	240	22.90	153.25	137.73	15.52	205	0.05	0.05	430	920	55.61	0.11	0.48
Nov-21	7.30	13	41	3.50	320	238	23	152.60	132	20.60	214	0.05	0.04	540	920	22.49	0.13	0.42
Dec-21	7.20	11.4	34.20	3.8	300	236	24	154	130	24	201	0.07	0.01	430	540	38.66	0.12	0.52

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	6.90	28	160	0.80	690						437							
Feb-21	6.90	24	96	1.40	630						412							
Mar-21	6.50	26	104	1.20	650						434							
Apr-21	6.80	27	119	1.10	695						479							
May-21	6.80	29	131	1.10	695						467							
June-21																		
July-21	6.90	28	210	1.10	770	561	101.97	189	162.72	27	526	0.01	0.05	350	540	91.38	0.19	0.20
Aug-21																		
Sep-21	6.90	24	192	1.90	803	558.02	104	196.05	170.85	25.20	538	0.05	0.03	240	540	83.26	0.12	0.37
Oct-21	6.5	26	210	1.90	549	572.20	115.97	202.83	172.97	29.86	549	0.06	0.05	210	450	70.31	0.09	0.39
Nov-21	6.80	25	196	2.0	801	568	108	201	175	26	536	0.04	0.02	170	430	48.13	0.15	0.46
Dec-21	6.80	20	176	2.8	858	560	107.60	204	174	30	574	0.05	0.03	140	350	39.23	0.13	0.41



July-21	7.90	6.0	20	5.0	320	132	21.71	127.40	76.15	51	224	0.02	0.03	240	540	60.92	0.07	0.83
Aug-21	7.60	5.10	17.40	5.60	302	121	23.42	130.29	82.44	47.85	202	0.03	0.07	350	430	55.23	0.22	0.48
Sep-21	7.70	5.0	20	5.80	306	128	24.20	127.82	79.08	48.74	205	0.07	0.02	280	540	77.22	0.19	0.38
Oct-21	7.8	6.0	21	5.0	360	136	22.90	130.07	88.88	41.19	245	0.03	0.06	220	430	45.04	0.13	0.41
Nov-21	7.6	5.7	22	5.1	377	145	28.56	136.65	91	45.65	252.59	0.09	0.04	210	350	13.94	0.14	0.55
Dec-21	7.40	4	20	5.8	360	140	27.62	130.7	89	42.1	241.2	0.03	0.01	170	280	14.41	0.10	0.52

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	8.1	6.9	36	2.8	920						750							
Feb-21	8.0	3.6	20	8.8	980						723							
Mar-21	8.10	3.40	18	9.0	925						620							
Apr-21	8.0	3.10	20	8.80	916						612							
May-21	7.90	3.30	21	8.70	867						592							
June-21																		
July-21	7.50	4.50	28	4.20	1210	164	43.40	106.20	73.74	32	920	0.03	0.18	540	920	227	0.12	0.27
Aug-21	7.40	3.90	22	4.30	1185	144	40.40	116.44	77.44	39	793	0.02	0.15	430	920	193.26	0.17	0.52
Sep-21	7.40	4.0	20	5.20	1052	154	42	110	75.31	34.74	704	0.06	0.02	920	1600	59.38	0.08	0.47
Oct-21	7.3	7.50	26.80	4.10	920	160	38.90	108.17	72.07	36.10	620	0.04	0.04	540	920	45.43	0.19	0.40
Nov-21	7.2	6.7	28	4	1010	169	44.5	134	87	47	676.7	0.10	0.05	430	920	80.09	0.20	0.40
Dec-21	7.30	6.50	22.70	5.4	1050	158	42.62	132	88	44	703	0.02	0.07	540	920	103.33	0.06	0.44

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	8.1	5.8	30	3.4	590						377							
Feb-21	7.0	4.0	20	7.6	625						418							
Mar-21	7.20	8.0	32	5.60	675						452							
Apr-21	7.0	8.40	35	5.30	698						472							
May-21	7.80	8.20	33	5.10	688						482							
June-21																		
July-21	7.80	6.50	30	3.90	550	136	28.60	120	93.78	26	380	0.03	0.09	170	430	96.19	0.20	0.33
Aug-21	7.60	6.0	27.10	4.0	521	130	27.90	118.68	89.38	29.30	349	0.04	0.05	280	430	69.52	0.25	0.61
Sep-21	7.90	6.40	32	3.80	534	140	30	130	100.64	30	357	0.08	0.03	240	540	75.26	0.08	0.51
Oct-21	7.7	10.0	32.0	3.50	520	142	30.90	121.70	95.29	26.41	352	0.06	0.03	220	430	76.45	0.20	0.43
Nov-21	7.3	12.8	34.1	3.7	533	144	29.50	126.3	104	22.3	357.11	0.08	0.06	170	350	22.88	0.15	0.30
Dec-21	7.20	10	32	4	556	142	26.42	124.76	102	22.4	372.5	0.06	0.08	150	280	126.19	0.07	0.36

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

Month	pH	BOD (mg/L)	COD (mg/L)	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	7.30	22	80	1.20	630						425							
Feb-21	8.20	28	152	0.20	1200						828							
Mar-21	8.0	30	156	0.10	1210						840							
Apr-21	8.20	28	150	0.40	1237						877							
May-21	8.50	23	132	0.50	1203						821							
June-21																		
July-21	6.90	26	200	1.0	1200	560	95.97	212	185.16	27	918	0.04	0.03	220	540	138.94	0.08	0.48
Aug-21	7.40	18	190	2.10	1108	502	88.32	196.16	172.16	24	742	0.03	0.01	350	540	75.15	0.18	0.35
Sep-21	7.60	21.30	220	1.90	1123	564.26	98.80	233.61	196.41	37.20	752	0.05	0.03	430	920	66.15	0.15	0.33
Oct-21	6.5	26	210	1.50	1250	444	107.97	215.06	176.97	38.09	938	0.05	0.02	350	920	82.21	0.18	0.30
Nov-21	6.9	29	201	1.8	1233	465	102.50	208.8	180	28.8	826.11	0.08	0.03	920	1600	54.84	0.18	0.51
Dec-21	7.50	26	195	2.2	1176	446	98	210.7	188	22.7	787	0.03	0.07	540	920	79.16	0.05	0.52



