

River Alaknanda B/C River Dhauli Ganga at Vishnuprayag																									
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
1	Jan-22	06°C	7.43	36	58	10.2	7.0	88	60	28	52	1.0	4.0	<2	<2	ND	0.05	0.02	37.24	0.10	0.28	10.2	1.1	0.47	A
	Feb-22	06°C	7.51	46	72	10.2	9	54	30	24	49	1	4	<2	<2	ND	0.02	0.03	17.63	0.08	0.28	9.8	1	0.57	A
	Mar-22	11°C	7.30	41	64	10.6	6.0	45	28	17	40	1.0	4.0	<2	<2	ND	0.07	0.007	17.83	0.14	0.20	10.5	1.0	0.67	A
	Apr-22	08°C	7.23	27	41	11	6	36	22	14	32	1.0	4.0	<2	<2	ND	0.04	0.006	16.11	0.17	0.22	12.2	0.9	0.88	A
	May-22	07°C	7.05	25	43	10.6	5.0	32	18	14	40	1.0	4.0	<2	<2	ND	0.06	0.03	33.26	0.17	0.15	1.9	1.7	0.14	A
	Jun-22	09°C	7.26	29	45	10.4	4.5	39	25	14	27	1.0	4.0	<2	<2	ND	0.03	0.03	42.15	0.13	0.11	1.9	3.6	0.13	A
	Jul-22	09°C	7.58	19	33	10.2	3.0	54	34	20	44	1.0	4.0	<2	<2	ND	0.09	0.07	43.35	0.18	0.37	1.3	2.6	0.07	A
	Aug-22	11°C	7.65	30	47	10.4	2.5	63	45	18	42	1.0	4.0	<2	<2	ND	0.06	0.01	63.01	0.15	0.22	2.7	3.9	0.14	A
	Sep-22	09°C	7.35	25	41	10.6	2.0	51	35	16	38	1.0	4.0	<2	<2	ND	0.05	0.01	15.33	0.15	0.23	2.2	3.0	0.13	A
	Oct-22	10°C	7.47	32	51	10.6	2.5	59	40	19	45	1.0	4.0	<2	<2	ND	0.07	0.02	14.57	0.13	0.11	2.6	3.2	0.14	A
	Nov-22	04°C	7.05	26	40	10.8	3.0	38	35	03	30	1.0	4.0	1.8	1.8	ND	0.06	0.02	14.28	0.18	0.17	2.6	2.0	0.18	A
	Dec-22	04°C	7.31	40	61	11.0	2.0	66	42	24	50	1.0	4.0	1.8	1.8	ND	0.09	0.03	15.36	0.15	0.13	2.2	1.7	0.11	A
River Dhauli Ganga B/C River Alaknanda at Vishnuprayag																									
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
2	Jan-22	05°C	7.46	122	190	10.4	8.0	80	66	14	55	1	4	<2	<2	ND	0.06	0.03	28.11	0.08	0.33	11.2	1.6	0.54	A
	Feb-22	05°C	7.58	130	198	10	8	100	81	19	70	1	4	<2	<2	ND	0.03	0.04	18.13	0.10	0.36	10.9	1.4	0.47	A
	Mar-22	10°C	7.12	147	224	10.2	7.0	100	80	20	75	1.0	4.0	<2	<2	ND	0.03	0.005	18.68	0.26	0.31	7.0	3.0	0.30	A
	Apr-22	07°C	7.09	108	164	10.4	5.5	116	70	46	85	1.0	4.0	<2	<2	ND	0.05	0.007	19.20	0.19	0.28	9.4	1.9	0.37	A
	May-22	08°C	7.40	94	144	10.2	4.5	90	70	20	70	1.0	4.0	<2	<2	ND	0.05	0.01	39.38	0.08	0.21	3.3	3.0	0.15	A
	Jun-22	10°C	7.53	108	162	10.0	5.5	130	76	54	63	1.0	4.0	<2	<2	ND	0.08	0.04	59.26	0.10	0.18	2.9	5.2	0.11	A
	Jul-22	09°C	8.09	64	100	10.0	4.0	80	58	22	71	1.0	4.0	<2	<2	ND	0.07	0.03	55.26	0.19	0.42	1.5	8.2	0.07	A
	Aug-22	11°C	8.20	70	107	10.2	3.5	94	77	17	55	1.0	4.0	<2	<2	ND	0.09	0.03	75.18	0.18	0.36	3.1	3.2	0.13	A
	Sep-22	10°C	7.67	62	96	10.4	3.0	80	60	20	63	1.0	4.0	<2	<2	ND	0.04	0.01	18.15	0.17	0.19	2.9	3.4	0.14	A
	Oct-22	09°C	7.81	73	112	10.2	3.5	92	68	24	73	1.0	4.0	<2	<2	ND	0.03	0.02	18.33	0.15	0.13	3.2	3.6	0.14	A
	Nov-22	05°C	7.19	107	160	10.4	5.0	124	87	37	70	1.0	4.0	1.8	1.8	ND	0.05	0.03	17.31	0.15	0.20	4.5	3.6	0.17	A
	Dec-22	03°C	7.52	78	120	10.6	4.0	110	70	40	75	1.0	4.0	1.8	1.8	ND	0.08	0.02	16.24	0.13	0.14	3.9	2.8	0.16	A
River Alaknanda A/C River Dhauli Ganga at Vishnuprayag																									
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
3	Jan-22	05°C	7.16	82	130	10.4	8.0	100	76	24	40	1.0	4.0	<2	<2	ND	0.08	0.01	15.20	0.10	0.26	12.3	1.8	0.53	A
	Feb-22	05°C	7.36	86	132	10.2	8	97	68	29	54	1.0	4.0	<2	<2	ND	0.03	0.03	16.20	0.13	0.33	11.4	1.6	0.50	A
	Mar-22	11°C	7.16	110	170	10.8	7.0	60	46	14	58	1.0	4.0	<2	<2	ND	0.09	0.008	19.02	0.11	0.27	13.1	1.4	0.73	A
	Apr-22	07°C	7.35	65	96	10.8	5.0	66	36	30	60	1.0	4.0	<2	<2	ND	0.08	0.005	16.99	0.15	0.26	8.6	1.3	0.45	A
	May-22	07°C	7.35	70	105	10.4	4.0	60	48	12	50	1.0	4.0	<2	<2	ND	0.05	0.03	19.26	0.11	0.28	2.8	2.7	0.15	A

	Jun-22	09°C	7.47	113	183	10.2	5.0	113	62	51	56	1.0	4.0	<2	<2	ND	0.06	0.01	49.88	0.09	0.10	2.8	5.2	0.11	A
	Jul-22	08°C	8.25	45	70	10.2	3.5	60	44	16	53	1.0	4.0	<2	<2	ND	0.06	0.05	46.61	0.13	0.35	1.4	2.8	0.07	A
	Aug-22	10°C	7.97	54	83	10.4	4.0	84	66	18	45	1.0	4.0	<2	<2	ND	0.08	0.04	33.15	0.11	0.25	3.2	4.9	0.15	A
	Sep-22	09°C	7.54	48	74	10.6	3.5	71	52	19	53	1.0	4.0	<2	<2	ND	0.08	0.02	14.29	0.13	0.16	3.0	4.1	0.15	A
	Oct-22	09°C	7.70	57	87	10.4	4.0	79	57	22	61	1.0	4.0	<2	<2	ND	0.08	0.01	16.73	0.17	0.17	3.1	3.9	0.15	A
	Nov-22	04°C	7.28	59	89	10.6	4.0	70	53	17	48	1.0	4.0	1.8	1.8	ND	0.09	0.03	13.13	0.13	0.19	3.4	2.8	0.17	A
	Dec-22	03°C	7.38	65	101	10.8	4.0	65	40	25	60	1.0	4.0	1.8	1.8	ND	0.09	0.02	15.83	0.16	0.17	3.0	2.3	0.16	A

**River Alaknanda B/C River Nandakini at Nandprayag**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
4	Jan-22	13°C	7.67	100	158	10.2	9.0	90	70	20	82	1.0	4.0	<2	<2	ND	0.09	0.01	16.25	0.10	0.17	11.4	1.8	0.52	A
	Feb-22	08°C	7.61	98	150	10	9	91	61	30	69	1.0	4.0	<2	<2	ND	0.03	0.03	18.33	0.09	0.19	11.6	1.8	0.52	A
	Mar-22	12°C	7.32	104	158	10.6	6.0	80	60	20	78	1.0	4.0	<2	<2	ND	0.03	0.01	18.11	0.09	0.23	5.1	2.5	0.24	A
	Apr-22	15°C	7.05	84	128	10.4	4.0	80	56	24	56	1.0	4.0	<2	<2	ND	0.05	0.004	17.00	0.18	0.26	5.0	2.7	0.24	A
	May-22	08°C	7.20	76	115	10.2	3.5	70	60	10	66	1.0	4.0	<2	<2	ND	0.09	0.02	17.36	0.13	0.17	2.7	2.8	0.14	A
	Jun-22	14°C	7.62	70	106	10.0	3.0	90	80	10	66	1.0	4.0	<2	<2	ND	0.06	0.02	29.15	0.08	0.16	2.1	3.2	0.09	A
	Jul-22	07°C	8.34	53	84	10.0	2.5	79	54	25	71	1.0	4.0	<2	<2	ND	0.04	0.03	26.11	0.14	0.36	0.9	2.3	0.04	A
	Aug-22	11°C	8.19	62	93	10.2	3.5	67	55	12	58	1.0	4.0	<2	<2	ND	0.09	0.05	26.82	0.11	0.36	2.9	4.9	0.15	A
	Sep-22	11°C	8.03	58	89	10.4	3.0	64	49	15	57	1.0	4.0	<2	<2	ND	0.08	0.01	16.31	0.20	0.20	2.6	3.9	0.14	A
	Oct-22	13°C	8.19	69	106	10.2	3.5	71	54	17	65	1.0	4.0	<2	<2	ND	0.08	0.02	16.55	0.14	0.11	2.9	3.7	0.14	A
	Nov-22	07°C	7.52	92	140	10.4	5.0	76	55	21	60	1.0	4.0	1.8	1.8	ND	0.06	0.03	16.81	0.17	0.15	3.6	3.5	0.17	A
	Dec-22	05°C	7.55	70	107	10.6	3.0	52	39	13	68	1.0	4.0	1.8	1.8	ND	0.08	0.02	16.33	0.13	0.15	3.3	3.0	0.19	A

**River Nandakini B/C River Alaknanda at Nandprayag**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
5	Jan-22	13°C	7.45	88	134	9.6	6.0	140	89	51	80	1.0	4.0	32	14	ND	0.05	0.02	19.33	0.09	0.13	9.6	2.3	0.35	A
	Feb-22	09°C	7.49	82	125	9.6	8	70	58	12	66	1.0	4.0	34	17	ND	0.02	0.02	19.11	0.11	0.30	10.0	2.1	0.51	A
	Mar-22	12°C	7.19	106	161	10.0	7.0	74	64	10	70	1.0	4.0	32	14	ND	0.08	0.006	17.57	0.16	0.19	11.0	2.1	0.55	A
	Apr-22	16°C	7.34	89	134	10.0	5.0	80	52	28	76	1.0	4.0	31	13	ND	0.06	0.003	18.87	0.20	0.30	4.6	3.0	0.22	A
	May-22	09°C	7.75	101	152	10.0	4.5	92	76	16	87	1.0	4.0	33	17	ND	0.05	0.01	19.24	0.09	0.19	4.0	3.9	0.18	A
	Jun-22	15°C	7.83	63	97	9.8	4.0	73	50	23	55	1.0	4.0	38	20	ND	0.05	0.03	30.36	0.09	0.13	1.8	2.7	0.09	A
	Jul-22	08°C	8.11	51	82	9.6	3.0	70	53	17	65	1.0	4.0	40	21	ND	0.08	0.08	31.35	0.09	0.33	1.4	3.4	0.07	A
	Aug-22	12°C	7.98	58	89	9.8	4.0	52	44	08	54	1.0	4.0	43	22	ND	0.05	0.03	08.35	0.15	0.20	2.9	3.8	0.17	A
	Sep-22	13°C	7.61	52	80	10.0	3.5	56	46	10	60	1.0	4.0	40	26	ND	0.06	0.01	17.33	0.17	0.17	2.8	3.4	0.16	A
	Oct-22	12°C	7.73	49	76	10.0	3.0	60	48	12	63	1.0	4.0	47	27	ND	0.05	0.01	15.43	0.16	0.15	3.0	3.3	0.16	A
	Nov-22	08°C	7.64	88	133	10.2	4.0	72	57	15	73	1.0	4.0	48	22	ND	0.04	0.01	18.33	0.20	0.17	3.2	3.9	0.16	A
	Dec-22	06°C	8.11	75	114	10.4	4.0	55	40	15	66	1.0	4.0	41	21	ND	0.10	0.03	15.80	0.16	0.11	3.0	3.3	0.17	A

**River Alaknanda A/C River Nandakini at Nandprayag**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
6	Jan-22	12°C	7.48	97	148	10.0	7.0	122	96	26	98	1.0	4.0	<2	<2	ND	0.03	0.01	15.17	0.08	0.15	8.1	0.9	0.31	A
	Feb-22	07°C	7.58	96	146	9.8	9	74	54	20	70	1.0	4.0	<2	<2	ND	0.03	0.06	17.11	0.13	0.28	8.6	0.8	0.43	A
	Mar-22	11°C	7.21	118	178	10.4	6.0	80	50	30	72	1.0	4.0	<2	<2	ND	0.05	0.008	18.00	0.20	0.20	5.0	2.6	0.24	A
	Apr-22	15°C	7.09	88	132	10.2	5.0	72	60	12	65	1.0	4.0	<2	<2	ND	0.08	0.004	17.57	0.17	0.29	5.0	2.6	0.25	A
	May-22	09°C	7.61	95	140	10.2	4.5	90	74	16	76	1.0	4.0	<2	<2	ND	0.05	0.03	16.54	0.09	0.30	3.6	4.0	0.16	A
	Jun-22	14°C	7.59	72	110	10.0	3.5	66	52	14	56	1.0	4.0	<2	<2	ND	0.03	0.02	26.22	0.11	0.14	3.5	5.9	0.18	A
	Jul-22	07°C	7.72	49	80	10.0	3.0	71	56	15	61	1.0	4.0	<2	<2	ND	0.06	0.02	25.20	0.13	0.35	1.4	2.7	0.07	A
	Aug-22	11°C	7.82	60	93	10.2	4.5	65	53	12	68	1.0	4.0	<2	<2	ND	0.07	0.03	17.47	0.15	0.28	2.6	3.8	0.13	A
	Sep-22	12°C	7.68	57	88	10.2	4.0	62	48	14	66	1.0	4.0	<2	<2	ND	0.05	0.02	14.62	0.14	0.15	2.4	3.2	0.13	A
	Oct-22	12°C	7.82	63	97	10.2	3.5	68	52	16	71	1.0	4.0	<2	<2	ND	0.03	0.03	14.37	0.11	0.16	2.7	3.0	0.14	A
	Nov-22	07°C	7.40	91	138	10.4	3.0	73	53	20	68	1.0	4.0	1.8	1.8	ND	0.07	0.02	13.15	0.15	0.13	3.4	3.8	0.17	A
	Dec-22	05°C	7.92	77	121	10.6	4.0	60	41	19	75	1.0	4.0	1.8	1.8	ND	0.09	0.03	16.84	0.18	0.18	3.3	3.5	0.18	A

**River Alaknanda B/C River Pindar at Karanprayag**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
7	Jan-22	11°C	7.47	95	142	10.0	8.0	110	90	20	80	1.0	4.0	<2	<2	ND	0.07	0.01	23.26	0.09	0.17	10.4	1.5	0.43	A
	Feb-22	05°C	7.54	90	136	10	8	94	64	30	69	1.0	4.0	<2	<2	ND	0.05	0.07	12.81	0.09	0.25	10.2	1.3	0.45	A
	Mar-22	11°C	7.31	109	168	10.2	6.0	78	60	18	80	1.0	4.0	<2	<2	ND	0.07	0.007	16.08	0.13	0.31	6.6	3.0	0.32	A
	Apr-22	10°C	7.30	80	124	10.4	5.0	84	64	20	63	1.0	4.0	<2	<2	ND	0.04	0.002	15.26	0.16	0.29	9.5	1.4	0.44	A
	May-22	14°C	7.55	82	124	10.2	4.0	72	62	10	57	1.0	4.0	<2	<2	ND	0.04	0.07	19.39	0.16	0.25	2.8	3.3	0.14	A
	Jun-22	13°C	7.52	85	136	10.0	3.0	76	62	14	69	1.0	4.0	<2	<2	ND	0.03	0.04	32.15	0.07	0.14	2.5	4.8	0.12	A
	Jul-22	13°C	8.16	55	89	9.8	2.5	40	30	10	45	1.0	4.0	<2	<2	ND	0.06	0.06	29.36	0.13	0.29	1.1	3.4	0.07	A
	Aug-22	13°C	8.05	67	102	10.0	4.0	69	55	14	62	1.0	4.0	<2	<2	ND	0.08	0.03	20.11	0.13	0.33	2.8	4.1	0.14	A
	Sep-22	13°C	7.51	64	99	10.2	3.5	68	52	16	59	1.0	4.0	<2	<2	ND	0.03	0.01	14.33	0.15	0.23	2.6	3.7	0.13	A
	Oct-22	13°C	7.67	72	110	10.0	3.0	75	55	20	67	1.0	4.0	<2	<2	ND	0.03	0.03	15.52	0.18	0.15	3.0	3.5	0.15	A
	Nov-22	08°C	7.82	94	143	10.2	4.0	86	51	35	72	1.0	4.0	1.8	1.8	ND	0.03	0.02	18.21	0.20	0.18	3.8	3.6	0.17	A
	Dec-22	05°C	7.65	75	112	10.4	3.0	80	53	27	65	1.0	4.0	1.8	1.8	ND	0.09	0.06	14.84	0.13	0.15	3.5	3.8	0.16	A

**River Pindar B/C River Alaknanda at Karanprayag**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
8	Jan-22	11°C	7.47	95	142	10.0	8.0	110	90	20	80	1.0	4.0	<2	<2	ND	0.07	0.01	23.26	0.09	0.17	10.4	1.5	0.43	A
	Feb-22	07°C	7.63	95	145	9.6	7	82	43	39	73	1.0	4.0	24	12	ND	0.04	0.08	15.36	0.11	0.23	9.6	1.6	0.45	A
	Mar-22	11°C	7.25	102	156	10.0	7.0	80	60	20	85	1.0	4.0	23	15	ND	0.09	0.003	14.10	0.08	0.29	3.8	2.0	0.18	A
	Apr-22	11°C	7.40	77	118	10.0	4.0	88	54	34	70	1.0	4.0	22	14	ND	0.03	0.003	16.38	0.10	0.21	8.9	1.5	0.41	A
	May-22	15°C	7.48	83	125	9.8	3.5	96	64	32	70	1.0	4.0	26	15	ND	0.07	0.04	17.54	0.08	0.19	2.5	2.9	0.11	A
	Jun-22	12°C	7.83	90	140	9.6	3.0	86	62	24	68	1.0	4.0	31	17	ND	0.02	0.01	30.11	0.13	0.19	2.6	5.7	0.12	A

Jul-22	14°C	8.14	61	95	9.4	3.0	76	50	26	70	1.0	4.0	33	20	ND	0.07	0.03	28.15	0.08	0.22	1.3	3.2	0.06	A
Aug-22	15°C	8.23	72	111	9.6	4.5	67	55	12	76	1.0	4.0	38	21	ND	0.07	0.03	13.65	0.14	0.30	2.5	4.0	0.13	A
Sep-22	15°C	7.58	73	113	9.8	4.0	64	51	13	71	1.0	4.0	46	27	ND	0.05	0.02	15.36	0.13	0.19	2.2	3.5	0.11	A
Oct-22	14°C	7.73	82	124	9.8	3.5	72	57	15	77	1.0	4.0	48	33	ND	0.05	0.01	14.94	0.16	0.16	2.6	3.2	0.13	A
Nov-22	09°C	7.18	100	151	10.0	5.0	98	74	24	93	1.0	4.0	49	33	ND	0.05	0.02	16.28	0.18	0.20	2.7	3.2	0.11	A
Dec-22	06°C	7.82	85	130	10.2	4.0	76	58	18	68	1.0	4.0	46	31	ND	0.08	0.03	15.32	0.16	0.17	2.3	2.9	0.11	A

**River Alaknanda A/C River Pindar at Karanprayag**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
9	Jan-22	11°C	7.57	94	147	10.2	8.0	99	80	19	82	1.0	4.0	<2	<2	ND	0.05	0.02	18.11	0.09	0.16	9.8	1.9	0.42	A
	Feb-22	06°C	7.60	99	151	10	9	96	50	46	76	1.0	4.0	<2	<2	ND	0.03	0.05	10.93	0.08	0.22	9.4	1.7	0.41	A
	Mar-22	12°C	7.07	112	170	10.2	7.0	80	64	16	72	1.0	4.0	<2	<2	ND	0.05	0.005	14.94	0.15	0.30	4.2	2.6	0.20	A
	Apr-22	10°C	7.27	79	120	10.4	5.0	74	54	20	60	1.0	4.0	<2	<2	ND	0.04	0.005	15.97	0.14	0.31	9.9	1.6	0.49	A
	May-22	15°C	7.40	85	128	10.0	4.0	80	52	28	65	1.0	4.0	<2	<2	ND	0.06	0.05	23.11	0.09	0.24	2.7	3.3	0.13	A
	Jun-22	13°C	7.32	94	144	9.8	4.0	70	55	15	55	1.0	4.0	<2	<2	ND	0.04	0.03	29.15	0.09	0.18	2.4	3.2	0.12	A
	Jul-22	13°C	8.10	54	90	9.6	3.5	60	40	20	70	1.0	4.0	<2	<2	ND	0.09	0.01	26.53	0.11	0.18	1.6	2.7	0.08	A
	Aug-22	14°C	8.19	65	100	9.8	4.0	64	52	12	61	1.0	4.0	<2	<2	ND	0.07	0.06	21.01	0.11	0.29	2.6	4.0	0.14	A
	Sep-22	14°C	7.46	75	116	10.0	3.5	70	56	14	65	1.0	4.0	<2	<2	ND	0.02	0.01	16.15	0.10	0.22	2.4	3.8	0.12	A
	Oct-22	13°C	7.62	86	131	10.0	3.0	79	60	19	70	1.0	4.0	<2	<2	ND	0.03	0.01	13.84	0.14	0.18	2.8	3.4	0.13	A
	Nov-22	08°C	8.05	87	131	10.2	4.0	78	52	26	71	1.0	4.0	1.8	1.8	ND	0.06	0.01	15.15	0.21	0.17	3.3	3.6	0.16	A
	Dec-22	05°C	8.14	80	122	10.4	3.0	73	49	24	72	1.0	4.0	1.8	1.8	ND	0.10	0.06	16.11	0.16	0.19	3.0	3.2	0.15	A

**River Mandakini B/C River Alaknanda at Rudraprayag**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
10	Jan-22	08°C	7.41	62	95	9.2	8.0	120	80	40	82	1.0	4.0	<2	<2	ND	0.03	0.04	10.11	0.11	0.22	10.3	1.4	0.40	A
	Feb-22	06°C	7.35	58	89	9.6	9.0	71	53	18	59	1.0	4.0	<2	<2	ND	0.03	0.04	13.23	0.13	0.22	10.0	1.2	0.51	A
	Mar-22	12°C	7.12	53	81	10.2	6.0	60	50	10	58	1.0	4.0	<2	<2	ND	0.09	0.001	13.19	0.09	0.29	9.7	1.3	0.54	A
	Apr-22	19°C	7.05	48	73	10.8	5.0	54	42	12	49	1.0	4.0	<2	<2	ND	0.02	0.002	14.11	0.08	0.26	7.4	1.3	0.43	A
	May-22	20°C	7.01	42	64	10.4	3.5	50	36	14	35	1.0	4.0	<2	<2	ND	0.05	0.02	14.36	0.10	0.27	3.8	2.2	0.23	A
	Jun-22	20°C	7.31	67	102	10.2	4.0	40	34	06	50	1.0	4.0	<2	<2	ND	0.07	0.04	27.13	0.15	0.11	4.1	2.7	0.28	A
	Jul-22	13°C	8.10	59	90	9.8	3.0	85	61	24	79	1.0	4.0	<2	<2	ND	0.08	0.03	20.15	0.16	0.15	1.5	3.2	0.07	A
	Aug-22	13°C	8.21	66	102	10.0	4.0	32	21	11	34	1.0	4.0	<2	<2	ND	0.06	0.05	37.73	0.15	0.30	3.5	7.9	0.26	A
	Sep-22	12°C	7.51	50	77	10.2	4.0	30	24	06	46	1.0	4.0	<2	<2	ND	0.03	0.04	5.39	0.08	0.15	3.1	6.3	0.24	A
	Oct-22	19°C	7.68	42	65	10.4	3.5	44	34	10	56	1.0	4.0	<2	<2	ND	0.04	0.01	15.36	0.09	0.23	1.4	3.2	0.09	A
	Nov-22	17°C	7.94	53	85	10.6	3.0	55	36	19	42	1.0	4.0	1.8	1.8	ND	0.06	0.02	13.36	0.09	0.15	5.4	4.5	0.31	A
	Dec-22	16°C	7.54	45	69	10.8	2.0	48	30	18	58	1.0	4.0	1.8	1.8	ND	0.06	0.04	14.15	0.10	0.14	4.9	4.0	0.30	A

River Alaknanda B/C River Mandakini at Rudraprayag																										
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality	
11	Jan-22	09°C	7.27	94	142	10.0	8.0	86	59	27	102	1.0	4.0	<2	<2	ND	0.04	0.03	13.20	0.09	0.31	10.8	1.6	0.50	A	
	Feb-22	07°C	7.48	90	138	10.2	9.0	95	64	31	68	1.0	4.0	<2	<2	ND	0.04	0.02	12.26	0.10	0.20	10.4	1.5	0.46	A	
	Mar-22	13°C	7.05	95	145	10.4	5.0	96	80	16	84	1.0	4.0	<2	<2	ND	0.07	0.006	11.26	0.07	0.35	5.6	2.1	0.24	A	
	Apr-22	19°C	7.13	89	133	10.2	5.5	88	74	14	72	1.0	4.0	<2	<2	ND	0.04	0.003	13.20	0.13	0.31	6.2	1.9	0.28	A	
	May-22	21°C	7.27	84	125	10.2	4.0	70	60	10	45	1.0	4.0	<2	<2	ND	0.09	0.01	15.24	0.09	0.31	2.9	3.1	0.15	A	
	Jun-22	19°C	7.23	88	136	10.0	4.5	68	56	12	64	1.0	4.0	<2	<2	ND	0.09	0.03	27.11	0.09	0.19	4.6	12.4	0.24	A	
	Jul-22	12°C	7.53	64	97	9.4	3.5	90	55	35	68	1.0	4.0	<2	<2	ND	0.06	0.03	26.53	0.20	0.18	1.4	3.3	0.06	A	
	Aug-22	12°C	7.67	73	112	9.8	4.5	58	53	05	53	1.0	4.0	<2	<2	ND	0.09	0.02	28.83	0.16	0.29	2.6	4.2	0.14	A	
	Sep-22	11°C	7.15	47	72	10.0	3.5	70	60	10	58	1.0	4.0	<2	<2	ND	0.02	0.01	23.77	0.09	0.14	2.2	3.9	0.11	A	
	Oct-22	20°C	7.43	63	96	10.2	3.0	85	70	15	65	1.0	4.0	<2	<2	ND	0.08	0.02	14.27	0.09	0.26	2.0	2.7	0.09	A	
	Nov-22	17°C	7.88	73	111	10.4	4.0	86	72	14	58	1.0	4.0	1.8	1.8	ND	0.07	0.03	15.11	0.11	0.13	3.8	3.5	0.17	A	
	Dec-22	16°C	8.25	76	114	10.6	3.0	82	68	14	54	1.0	4.0	1.8	1.8	ND	0.09	0.02	15.21	0.12	0.18	3.4	3.1	0.16	A	
River Alaknanda A/C River Mandakini at Rudraprayag																										
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality	
12	Jan-22	08°C	7.39	75	117	10.2	9.0	96	50	46	80	1.0	4.0	<2	<2	ND	0.05	0.02	15.11	0.13	0.23	9.5	2.0	0.42	A	
	Feb-22	07°C	7.45	80	123	10.0	8.0	98	68	30	72	1.0	4.0	<2	<2	ND	0.02	0.03	11.10	0.08	0.31	9.7	1.9	0.42	A	
	Mar-22	13°C	7.54	105	160	10.6	7.0	80	66	14	70	1.0	4.0	<2	<2	ND	0.05	0.008	12.11	0.14	0.31	6.1	2.4	0.29	A	
	Apr-22	18°C	7.32	98	148	10.4	5.0	74	62	12	66	1.0	4.0	<2	<2	ND	0.06	0.002	13.68	0.09	0.30	4.9	1.2	0.24	A	
	May-22	21°C	7.10	57	87	10.4	3.5	68	56	12	62	1.0	4.0	<2	<2	ND	0.03	0.01	13.11	0.05	0.24	3.6	3.2	0.18	A	
	Jun-22	20°C	7.27	61	95	10.2	4.0	50	40	10	35	1.0	4.0	<2	<2	ND	0.07	0.03	26.58	0.17	0.15	3.8	3.0	0.23	A	
	Jul-22	12°C	7.60	60	92	9.8	3.0	89	58	31	74	1.0	4.0	<2	<2	ND	0.10	0.02	22.44	0.18	0.11	1.4	3.2	0.06	A	
	Aug-22	12°C	7.79	71	108	10.0	4.0	49	34	15	45	1.0	4.0	<2	<2	ND	0.08	0.05	63.85	0.20	0.26	2.9	4.5	0.17	A	
	Sep-22	11°C	7.30	53	81	10.2	3.0	72	44	28	52	1.0	4.0	<2	<2	ND	0.01	0.02	14.04	0.13	0.12	2.6	4.1	0.13	A	
	Oct-22	19°C	7.58	58	89	10.2	2.5	78	55	23	60	1.0	4.0	<2	<2	ND	0.06	0.01	17.93	0.13	0.01	2.3	3.5	0.11	A	
	Nov-22	16°C	7.96	60	91	10.4	4.0	70	58	12	55	1.0	4.0	1.8	1.8	ND	0.03	0.02	15.33	0.11	0.11	4.4	3.2	0.22	A	
	Dec-22	17°C	7.50	55	84	10.6	3.0	75	53	22	57	1.0	4.0	1.8	1.8	ND	0.07	0.04	14.27	0.10	0.16	4.1	2.7	0.20	A	
River Mandakini D/S at Agustmuni, Rudraprayag																										
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality	
13	Jan-22	07°C	7.43	58	91	9.8	7.0	100	62	38	85	1.0	4.0	<2	<2	ND	0.09	0.06	17.36	0.10	0.30	11.5	1.6	0.49	A	
	Feb-22	06°C	7.40	52	79	9.8	8.0	73	57	16	58	1.0	4.0	<2	<2	ND	0.08	0.01	10.82	0.07	0.28	11.1	1.5	0.56	A	
	Mar-22	12°C	7.20	57	87	10.0	6.0	83	70	13	51	1.0	4.0	<2	<2	ND	0.07	0.002	13.01	0.10	0.27	10.1	1.1	0.48	A	
	Apr-22	19°C	7.11	52	79	10.4	6.0	70	56	14	43	1.0	4.0	<2	<2	ND	0.02	0.001	12.86	0.06	0.28	6.6	0.9	0.34	A	
	May-22	22°C	7.15	41	62	10.2	4.0	62	50	12	70	1.0	4.0	<2	<2	ND	0.06	0.03	17.33	0.08	0.20	3.5	2.6	0.19	A	

	Jun-22	20°C	7.40	69	106	10.4	4.5	55	40	15	45	1.0	4.0	<2	<2	ND	0.08	0.04	25.24	0.16	0.11	3.9	3.0	0.22	A
	Jul-22	11°C	7.91	61	93	10.0	3.5	82	60	22	76	1.0	4.0	<2	<2	ND	0.05	0.04	23.02	0.13	0.16	1.7	3.1	0.08	A
	Aug-22	13°C	8.07	69	105	10.2	4.5	33	28	05	28	1.0	4.0	<2	<2	ND	0.07	0.01	32.48	0.15	0.26	3.1	4.7	0.23	A
	Sep-22	10°C	7.40	55	85	10.4	3.5	52	36	16	40	1.0	4.0	<2	<2	ND	0.03	0.05	7.89	0.11	0.13	2.9	4.3	0.17	A
	Oct-22	19°C	7.55	49	75	10.6	3.0	61	43	18	48	1.0	4.0	<2	<2	ND	0.06	0.01	13.37	0.11	0.25	1.1	2.5	0.06	A
	Nov-22	13°C	7.91	50	80	10.8	3.0	48	33	15	42	1.0	4.0	1.8	1.8	ND	0.05	0.04	14.83	0.11	0.18	5.4	3.2	0.33	A
	Dec-22	16°C	7.43	48	74	10.8	3.0	65	40	25	50	1.0	4.0	1.8	1.8	ND	0.09	0.03	14.84	0.12	0.11	5.0	2.9	0.26	A

**River Bhagirathi U/S at Gangotri, Uttarkashi District**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
14	Jun-22	02°C	7.34	38	59	10.2	5.0	30	16	14	18	1.0	4.0	<2	<2	ND	0.07	0.02	38.51	0.03	0.38	3.9	11.2	0.30	A

**River Yamuna U/S at Yamunotri, Uttarkashi District**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
15	Jun-22	03°C	7.21	40	62	10.4	6.0	94	66	28	78	1.0	4.0	<2	<2	ND	0.05	0.02	35.36	0.03	0.33	16.6	5.1	0.74	A

**River Yamuna D/S at Sayana-Chatti, Uttarkashi District**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
16	Jun-22	15°C	7.28	60	92	10.2	4.5	50	28	22	42	1.0	4.0	<2	<2	ND	0.03	0.02	21.29	0.03	0.44	3.4	3.1	0.20	A
	Sep-22	18°C	7.07	56	87	9.8	4.0	75	55	20	48	1.0	4.0	47	22	ND	0.09	0.04	28.16	0.10	0.27	4.3	5.9	0.21	A
	Nov-22	16°C	7.10	68	102	10.2	5.0	80	58	22	45	1.0	4.0	49	26	ND	0.08	0.05	25.83	0.11	0.30	3.4	3.0	0.16	A

**River Bhagirathi D/S at Uttarkashi, Uttarkasi District**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
17	Jan-22	06°C	7.02	78	121	8.2	7.0	58	50	08	40	1.0	4.0	38	14	ND	0.05	0.002	18.41	0.18	0.38	5.6	2.0	0.31	A
	Feb-22	16°C	7.80	83	128	9.0	7.5	160	130	30	95	1.0	4.0	40	17	ND	0.09	0.09	33.16	0.19	0.39	5.9	2.1	0.20	A
	Mar-22	18°C	7.55	68	104	9.6	05	75	62	13	59	1.0	4.0	38	20	ND	0.07	0.05	28.20	0.19	0.42	6.3	2.3	0.31	A
	Apr-22	14°C	7.20	44	68	9.8	5.5	68	53	15	54	1.0	4.0	34	17	ND	0.06	0.04	26.31	0.17	0.39	5.9	2.0	0.31	A
	May-22	08°C	7.05	49	73	9.6	4.5	72	46	26	44	1.0	4.0	39	14	ND	0.09	0.05	23.54	0.17	0.33	3.4	3.0	0.17	A
	Jun-22	15°C	7.11	50	78	9.4	3.5	44	24	20	31	1.0	4.0	41	21	ND	0.04	0.02	37.15	0.08	0.39	3.5	5.1	0.22	A
	Jul-22	20°C	6.83	44	68	9.0	2.5	65	46	19	38	1.0	4.0	47	22	ND	0.08	0.03	33.15	0.09	0.41	1.3	3.1	0.06	A
	Aug-22	16°C	7.37	37	57	9.2	3.0	58	48	10	29	1.0	4.0	43	26	ND	0.10	0.05	30.57	0.11	0.30	4.0	7.7	0.22	A
	Sep-22	18°C	7.07	56	87	9.8	4.0	75	55	20	48	1.0	4.0	47	22	ND	0.09	0.04	28.16	0.10	0.27	4.3	5.9	0.21	A
	Oct-22	13°C	7.55	66	101	10.0	3.0	90	54	36	50	1.0	4.0	48	27	ND	0.09	0.03	26.37	0.15	0.28	3.8	4.7	0.17	A
	Dec-22	16°C	7.78	64	98	10.4	4.0	70	53	17	47	1.0	4.0	40	24	ND	0.08	0.03	22.15	0.13	0.23	3.1	2.8	0.16	A

**River Yamuna at Barkot**

18	May-22	20°C	7.62	107	161	10.2	4.0	142	100	42	89	1.0	4.0	<2	<2	ND	0.09	0.03	18.27	0.12	0.20	6.7	3.0	0.24	A
	Jun-22	21°C	7.43	68	104	10.0	4.0	60	40	20	50	1.0	4.0	<2	<2	ND	0.04	0.02	18.46	0.03	0.41	6.5	4.2	0.36	A
	Jul-22	22°C	7.60	55	84	9.6	3.5	53	42	11	45	1.0	4.0	<2	<2	ND	0.09	0.03	27.33	0.05	0.15	1.7	2.1	0.10	A

Aug-22	18°C	7.67	29	46	9.8	2.5	48	39	09	42	1.0	4.0	<2	<2	ND	0.05	0.02	21.05	0.08	0.23	3.3	4.0	0.20	A
Sep-22	21°C	7.50	55	85	10.0	3.0	50	38	12	40	1.0	4.0	<2	<2	ND	0.07	0.03	25.36	0.10	0.19	2.9	3.5	0.17	A
Oct-22	19°C	8.17	90	139	10.2	4.0	88	66	22	72	1.0	4.0	<2	<2	ND	0.08	0.03	22.36	0.10	0.18	2.5	3.1	0.11	A
Nov-22	14°C	8.01	86	131	10.4	4.0	91	67	24	75	1.0	4.0	1.8	1.8	ND	0.10	0.07	28.33	0.20	0.18	2.0	2.2	0.09	A
Dec-22	15°C	8.18	137	207	10.6	5.0	98	79	19	91	1.0	4.0	1.8	1.8	ND	0.07	0.02	18.93	0.15	0.19	2.3	2.6	0.10	A

**River Alaknanda B/C River Bhagirathi at Devprayag**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
19	Jan-22	13°C	7.38	86	134	10.2	8.0	106	68	38	98	1.0	4.0	<2	<2	ND	0.07	0.03	16.15	0.11	0.17	10.1	1.5	0.42	A
	Feb-22	08°C	7.25	80	122	10.0	9.0	80	61	19	57	1.0	4.0	<2	<2	ND	0.07	0.03	20.15	0.11	0.43	10.0	1.3	0.48	A
	Mar-22	15°C	7.49	95	145	10.4	5.0	77	63	14	80	1.0	4.0	<2	<2	ND	0.09	0.003	17.18	0.07	0.28	9.2	1.5	0.45	A
	Apr-22	19°C	7.39	90	136	10.0	5.5	71	60	11	68	1.0	4.0	<2	<2	ND	0.04	0.004	15.49	0.18	0.35	7.6	1.5	0.39	A
	May-22	22°C	7.12	74	112	10.2	5.0	56	48	08	50	1.0	4.0	<2	<2	ND	0.08	0.03	18.93	0.09	0.19	3.0	2.5	0.17	A
	Jun-22	19°C	7.36	92	140	10.0	5.0	68	50	18	58	1.0	4.0	<2	<2	ND	0.09	0.02	33.81	0.14	0.20	3.1	3.4	0.16	A
	Jul-22	22°C	7.60	55	84	9.6	3.5	53	42	11	45	1.0	4.0	<2	<2	ND	0.09	0.03	27.33	0.05	0.15	1.7	2.1	0.10	A
	Aug-22	15°C	8.29	79	120	9.6	3.0	58	50	08	62	1.0	4.0	<2	<2	ND	0.08	0.05	32.09	0.11	0.31	1.9	3.6	0.10	A
	Sep-22	16°C	7.20	58	89	10.0	2.5	62	50	12	52	1.0	4.0	<2	<2	ND	0.02	0.05	22.19	0.08	0.20	2.3	3.9	0.12	A
	Oct-22	19°C	7.45	68	103	10.2	2.0	70	56	14	58	1.0	4.0	<2	<2	ND	0.07	0.03	15.44	0.11	0.28	1.8	3.1	0.09	A
	Nov-22	16°C	7.85	87	130	10.4	3.0	82	68	14	70	1.0	4.0	1.8	1.8	ND	0.06	0.06	16.83	0.15	0.18	4.3	3.6	0.20	A
	Dec-22	16°C	8.04	91	138	10.4	4.0	75	55	20	52	1.0	4.0	1.8	1.8	ND	0.11	0.04	16.18	0.10	0.17	4.1	3.2	0.20	A

**River Bhagirathi B/C River Alaknanda at Devprayag**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
20	Jan-22	12°C	7.31	53	82	10.0	9.0	90	60	30	102	1.0	4.0	<2	<2	ND	0.05	0.02	20.33	0.07	0.28	9.8	0.9	0.44	A
	Feb-22	07°C	7.46	62	95	9.8	8.0	62	41	21	57	1.0	4.0	<2	<2	ND	0.03	0.01	17.23	0.13	0.32	9.4	0.8	0.51	A
	Mar-22	15°C	7.03	53	82	10.2	7.0	66	58	08	48	1.0	4.0	<2	<2	ND	0.03	0.005	16.15	0.12	0.39	8.9	1.0	0.47	A
	Apr-22	19°C	7.11	48	72	10.4	5.0	59	50	09	44	1.0	4.0	<2	<2	ND	0.03	0.006	19.08	0.09	0.41	7.1	1.2	0.40	A
	May-22	21°C	7.03	63	95	10.4	6.0	56	40	16	35	1.0	4.0	<2	<2	ND	0.09	0.05	20.36	0.11	0.18	5.6	3.1	0.32	A
	Jun-22	20°C	7.10	47	72	10.2	5.5	50	40	10	38	1.0	4.0	<2	<2	ND	0.07	0.03	26.13	0.12	0.15	4.2	3.9	0.25	A
	Jul-22	13°C	7.85	56	86	9.6	4.5	78	49	29	70	1.0	4.0	<2	<2	ND	0.10	0.01	31.22	0.16	0.18	2.3	3.3	0.11	A
	Aug-22	13°C	7.93	64	98	9.8	4.0	45	32	13	32	1.0	4.0	<2	<2	ND	0.09	0.06	29.63	0.15	0.29	2.8	4.2	0.18	A
	Sep-22	15°C	7.05	39	61	10.2	3.5	50	40	10	50	1.0	4.0	<2	<2	ND	0.08	0.03	23.99	0.09	0.22	3.8	2.0	0.23	A
	Oct-22	19°C	7.69	44	67	10.4	3.0	55	43	12	53	1.0	4.0	<2	<2	ND	0.08	0.04	16.54	0.14	0.31	1.3	2.8	0.07	A
	Nov-22	16°C	7.71	69	104	10.4	3.0	65	53	12	45	1.0	4.0	1.8	1.8	ND	0.07	0.03	15.36	0.13	0.16	3.7	3.2	0.19	A
	Dec-22	15°C	8.17	51	78	10.6	2.0	56	40	16	55	1.0	4.0	1.8	1.8	ND	0.10	0.03	17.24	0.08	0.12	3.3	3.0	0.19	A

**River Alaknanda A/C River Bhagirathi (River Ganga D/S) at Devprayag**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
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21	Jan-22	13°C	7.43	87	136	10.4	9.0	100	64	36	95	1.0	4.0	<2	<2	ND	0.08	0.03	15.10	0.02	0.37	8.4	1.2	0.36	A
	Feb-22	07°C	7.54	95	145	10.2	9.0	87	63	24	68	1.0	4.0	<2	<2	ND	0.09	0.03	16.33	0.09	0.36	8.9	1.4	0.41	A
	Mar-22	15°C	7.23	78	122	10.6	5.0	80	58	22	60	1.0	4.0	<2	<2	ND	0.07	0.002	17.95	0.10	0.26	8.3	1.2	0.40	A
	Apr-22	18°C	7.19	70	107	10.2	5.0	74	60	14	56	1.0	4.0	<2	<2	ND	0.06	0.005	16.00	0.11	0.39	6.8	0.9	0.34	A
	May-22	21°C	7.10	72	108	10.4	5.0	60	50	10	50	1.0	4.0	<2	<2	ND	0.06	0.06	16.54	0.08	0.11	3.5	2.6	0.19	A
	Jun-22	20°C	7.25	54	84	10.2	5.0	86	60	26	50	1.0	4.0	<2	<2	ND	0.09	0.03	29.11	0.14	0.17	4.4	10.4	0.20	A
	Jul-22	14°C	8.23	72	112	9.8	4.0	95	66	29	77	1.0	4.0	<2	<2	ND	0.06	0.05	30.16	0.18	0.11	2.4	3.6	0.10	A
	Aug-22	14°C	8.27	77	117	10.0	4.5	55	45	10	50	1.0	4.0	<2	<2	ND	0.10	0.03	39.69	0.13	0.33	3.1	4.7	0.18	A
	Sep-22	15°C	7.35	50	79	10.2	3.0	58	50	08	58	1.0	4.0	<2	<2	ND	0.03	0.06	24.18	0.11	0.16	3.3	3.7	0.18	A
	Oct-22	20°C	7.52	61	94	10.4	2.5	66	55	11	60	1.0	4.0	<2	<2	ND	0.04	0.03	18.15	0.08	0.20	1.6	3.0	0.08	A
	Nov-22	15°C	7.89	58	90	10.6	4.0	68	58	10	54	1.0	4.0	1.8	1.8	ND	0.07	0.03	17.13	0.09	0.17	3.9	3.4	0.20	A
	Dec-22	15°C	7.95	85	129	10.6	3.0	69	52	17	56	1.0	4.0	1.8	1.8	ND	0.08	0.04	15.33	0.05	0.15	3.5	3.1	0.18	A

**Tehri lake at Koti colony, Tehri**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µs/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococcus (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
22	Jan-22	14°C	7.47	54	82	9.4	7.0	72	46	26	46	1.0	4.0	<2	<2	ND	0.05	0.03	17.26	0.10	0.43	4.9	1.1	0.25	A
	Feb-22	10°C	8.17	103	158	9.6	6.0	60	32	28	37	1.0	4.0	<2	<2	ND	0.08	0.02	23.15	0.25	0.43	5.2	1.2	0.29	A
	Mar-22	20°C	7.66	59	93	9.8	5.0	50	28	22	32	1.0	4.0	<2	<2	ND	0.07	0.06	28.24	0.20	0.41	5.6	1.6	0.34	A
	Apr-22	17°C	7.10	47	71	10.0	4.5	61	43	18	50	1.0	4.0	<2	<2	ND	0.06	0.05	26.08	0.17	0.43	14.0	2.3	0.77	A
	May-22	22°C	7.20	81	119	10.0	4.0	78	59	19	48	1.0	4.0	<2	<2	ND	0.07	0.01	23.26	0.15	0.29	4.1	2.4	0.20	A
	Jun-22	23°C	7.24	57	88	9.8	6.0	74	46	28	50	1.0	4.0	10	6.1	ND	0.07	0.04	33.26	0.13	0.46	4.5	3.1	0.22	A
	Jul-22	19°C	7.97	67	101	9.4	5.0	88	56	32	74	1.0	4.0	12	8.2	ND	0.09	0.06	28.57	0.16	0.38	2.6	3.0	0.12	A
	Aug-22	23°C	7.75	39	61	9.6	4.0	53	32	21	34	1.0	4.0	17	10	ND	0.11	0.07	23.11	0.20	0.41	3.6	3.0	0.21	A
	Sep-22	16°C	7.60	92	140	9.6	4.5	65	41	24	45	1.0	4.0	39	27	ND	0.09	0.03	16.25	0.23	0.41	4.9	1.4	0.26	A
	Oct-22	19°C	8.10	56	87	9.8	4.0	63	43	20	49	1.0	4.0	41	33	ND	0.09	0.06	20.25	0.16	0.33	4.1	1.8	0.22	A
	Nov-22	20°C	8.35	38	59	10.0	5.0	78	51	27	41	1.0	4.0	47	32	ND	0.09	0.03	23.15	0.18	0.31	3.8	3.3	0.18	A
	Dec-22	17°C	7.35	36	54	10.2	3.0	40	27	13	31	1.0	4.0	43	27	ND	0.08	0.02	21.85	0.16	0.28	3.6	3.0	0.24	A

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

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µs/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococcus (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
23	Jan-22	16°C	7.60	75	114	10.0	8.0	170	150	20	126	1.0	4.0	25	8.2	ND	0.07	0.01	27.25	0.27	0.36	11.2	1.7	0.37	A
	Feb-22	18°C	7.57	85	132	9.8	7.0	112	60	52	74	1.0	4.0	22	6.1	ND	0.07	0.05	29.54	0.27	0.41	11.0	1.5	0.45	A
	Mar-22	14°C	7.50	89	136	11.0	6.0	62	50	12	56	1.0	4.0	24	7.8	ND	0.10	0.01	27.26	0.18	0.48	6.8	2.0	0.37	A
	Apr-22	16°C	7.40	77	118	10.4	5.0	80	59	21	67	1.0	4.0	27	8.3	ND	0.03	0.02	20.27	0.18	0.43	8.0	1.4	0.38	A
	May-22	18°C	7.30	75	112	10.4	4.0	90	54	36	62	1.0	4.0	31	9.1	ND	0.09	0.01	39.63	0.31	0.38	4.7	4.1	0.21	A
	Jun-22	24°C	7.37	84	127	10.2	4.5	80	64	16	54	1.0	4.0	39	13	ND	0.07	0.04	37.15	0.25	0.33	3.2	3.9	0.15	A
	Jul-22	23°C	7.50	69	104	9.8	3.5	63	50	13	45	1.0	4.0	40	14	ND	0.09	0.03	41.36	0.26	0.36	2.8	5.2	0.15	A



Aug-22	22°C	7.40	55	84	9.6	3.0	85	48	37	60	1.0	4.0	43	17	ND	0.07	0.02	46.33	0.21	0.38	3.2	7.5	0.15	A
Sep-22	20°C	7.64	78	120	9.8	4.0	265	247	18	146	1.0	4.0	46	21	ND	0.06	0.05	44.16	0.07	0.26	6.2	3.8	0.16	A
Oct-22	18°C	8.06	74	112	10.0	5.0	91	81	10	88	1.0	4.0	49	23	ND	0.10	0.03	42.54	0.19	0.29	3.1	3.5	0.14	A
Nov-22	16°C	7.40	71	109	10.4	6.0	155	110	45	140	1.0	4.0	41	26	ND	0.09	0.04	45.33	0.17	0.31	4.2	3.7	0.14	A
Dec-22	17°C	7.95	69	103	10.6	5.0	83	70	13	90	1.0	4.0	38	25	ND	0.09	0.04	49.26	0.18	0.22	4.0	3.3	0.19	A

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

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
24	Jan-22	16°C	7.30	260	400	9.8	10.0	210	118	92	150	1.0	4.0	40	15	ND	0.03	0.01	30.90	0.18	0.37	22.6	4.2	0.67	A
	Feb-22	18°C	7.70	79	124	9.6	9.0	122	68	54	82	1.0	4.0	43	17	ND	0.15	0.07	42.16	0.26	0.39	20.8	4.0	0.81	A
	Mar-22	13°C	7.30	95	146	10.6	8.0	88	68	20	65	1.0	4.0	47	20	ND	0.07	0.03	33.53	0.23	0.37	15.5	2.7	0.71	A
	Apr-22	19°C	7.72	90	141	10.0	7.0	91	73	18	80	1.0	4.0	46	21	ND	0.06	0.01	68.85	0.17	0.39	7.4	0.9	0.33	A
	May-22	19°C	7.00	86	128	10.0	6.0	100	69	31	75	1.0	4.0	43	22	ND	0.07	0.03	41.24	0.27	0.29	5.3	4.0	0.22	A
	Jun-22	23°C	7.48	86	130	9.8	5.0	52	74	52	22	1.0	4.0	48	26	ND	0.09	0.04	46.24	0.24	0.25	4.0	4.2	0.15	A
	Jul-22	23°C	7.99	60	92	9.2	4.0	65	50	15	45	1.0	4.0	63	33	ND	0.16	0.03	44.25	0.36	0.24	2.0	4.1	0.10	B
	Aug-22	21°C	7.10	83	127	9.0	5.0	105	90	15	70	1.0	4.0	58	32	ND	0.10	0.08	52.15	0.33	0.26	2.9	4.8	0.12	B
	Sep-22	21°C	7.84	98	149	9.4	5.5	102	78	24	95	1.0	4.0	63	26	ND	0.04	0.08	51.26	0.13	0.33	3.8	3.5	0.16	B
	Oct-22	19°C	7.99	101	156	9.6	6.5	108	91	17	97	1.0	4.0	70	39	ND	0.13	0.09	55.73	0.28	0.22	2.4	3.1	0.10	B
	Nov-22	18°C	7.11	110	168	10.0	8.0	170	140	30	135	1.0	4.0	79	41	ND	0.11	0.07	42.11	0.23	0.18	3.4	3.0	0.11	B
	Dec-22	16°C	8.11	105	160	10.2	7.0	115	87	28	93	1.0	4.0	49	38	ND	0.09	0.03	75.33	0.20	0.24	3.1	2.8	0.12	A

**River Ganga D/S at Bairaaj, Rishikesh,**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
25	Jan-22	14°C	7.90	74	118	9.8	7.0	200	170	30	140	1.0	4.0	32	12	ND	0.04	0.02	20.11	0.13	0.29	10.3	1.4	0.31	A
	Feb-22	18°C	7.25	73	112	9.8	8.0	120	100	20	76	1.0	4.0	38	14	ND	0.09	0.03	26.83	0.20	0.36	10.1	1.3	0.40	A
	Mar-22	12°C	7.30	82	125	10.8	6.0	98	62	36	61	1.0	4.0	33	13	ND	0.08	0.06	29.56	0.19	0.50	4.1	2.1	0.17	A
	Apr-22	16°C	7.49	85	128	10.2	5.5	73	50	23	66	1.0	4.0	32	17	ND	0.03	0.01	29.35	0.11	0.27	4.1	1.8	0.20	A
	May-22	19°C	7.29	79	119	10.2	5.0	104	81	23	89	1.0	4.0	38	21	ND	0.05	0.03	37.20	0.24	0.36	5.1	4.3	0.21	A
	Jun-22	25°C	7.43	67	101	10.0	4.0	78	52	26	66	1.0	4.0	49	24	ND	0.09	0.03	35.25	0.30	0.35	3.0	3.7	0.14	A
	Jul-22	23°C	7.30	71	108	9.6	3.0	70	58	12	50	1.0	4.0	47	27	ND	0.10	0.04	38.28	0.33	0.36	2.4	3.3	0.12	A
	Aug-22	22°C	7.10	56	86	9.4	3.0	72	60	12	66	1.0	4.0	48	26	ND	0.05	0.04	52.54	0.26	0.30	2.7	4.2	0.13	A
	Sep-22	20°C	7.97	63	103	9.6	5.0	76	57	19	55	1.0	4.0	47	21	ND	0.02	0.08	25.20	0.22	0.36	2.3	2.9	0.11	A
	Oct-22	20°C	8.31	70	106	9.8	6.0	78	61	17	64	1.0	4.0	41	22	ND	0.07	0.03	55.37	0.23	0.28	2.0	2.6	0.09	A
	Nov-22	16°C	7.30	67	100	10.2	7.0	130	96	34	105	1.0	4.0	39	21	ND	0.09	0.04	50.26	0.22	0.31	2.9	2.3	0.11	A
	Dec-22	15°C	7.90	75	114	10.4	6.0	80	62	18	90	1.0	4.0	33	17	ND	0.09	0.03	48.33	0.21	0.24	2.6	2.1	0.12	A

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

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
26	Jan-22	20°C	7.10	243	370	9.4	13.0	250	200	50	190	1.2	4.0	40	21	1.8	0.02	0.01	65.15	0.22	0.35	16.8	1.9	0.46	A

	Feb-22	17°C	7.61	231	349	9.2	14.0	260	200	60	230	1.2	4.0	47	24	1.8	0.06	0.05	59.36	0.23	0.33	14.6	1.8	0.39	A
	Mar-22	21°C	8.10	250	378	10.0	10.0	220	180	40	195	1.2	4.0	43	21	1.8	0.03	0.02	76.53	0.11	0.27	9.3	2.9	0.27	A
	Apr-22	17°C	7.31	246	370	9.6	9.0	186	160	26	163	1.2	4.0	46	23	1.8	0.08	0.01	62.15	0.20	0.27	12.5	2.1	0.39	A
	May-22	20°C	7.81	224	336	9.2	8.0	160	108	52	173	1.2	4.0	48	26	2.0	0.07	0.04	69.74	0.38	0.25	7.2	5.1	0.24	A
	Jun-22	24°C	7.76	231	349	9.0	8.0	190	138	52	210	1.4	4.8	58	31	3.6	0.09	0.02	65.24	0.24	0.29	21.7	5.7	0.68	B
	Jul-22	25°C	7.30	84	130	8.6	7.0	83	70	13	57	1.4	5.2	63	34	4.0	0.11	0.08	72.15	0.28	0.37	5.7	3.2	0.27	B
	Aug-22	22°C	7.39	70	108	8.4	6.0	70	42	28	65	1.4	5.6	70	39	11	0.09	0.02	123.62	0.23	0.25	3.4	7.1	0.17	B
	Sep-22	20°C	8.07	86	135	8.6	6.5	110	88	22	81	1.4	6.0	84	41	14	0.03	0.07	59.30	0.09	0.42	4.5	3.5	0.18	B
	Oct-22	20°C	7.90	107	162	8.8	8.0	118	91	27	95	1.2	5.2	94	48	17	0.10	0.03	128.39	0.20	0.18	3.9	3.1	0.15	B
	Nov-22	17°C	7.28	76	117	9.0	9.0	150	120	30	145	1.2	5.2	84	43	21	0.11	0.05	113.31	0.18	0.20	5.0	3.9	0.17	B
	Dec-22	17°C	7.63	95	145	9.2	8.0	110	90	20	96	1.2	4.8	70	41	17	0.11	0.06	72.36	0.23	0.26	4.5	3.6	0.18	B

**River Ganga A/C River Song (River Ganga D/S) at Raiwala, Dehradun**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µs/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
27	Jan-22	18°C	7.20	262	396	9.4	14.0	270	230	40	224	1.4	6.0	58	40	ND	0.02	0.03	23.11	0.27	0.43	14.8	1.3	0.39	B
	Feb-22	17°C	7.60	255	386	9.4	14.0	258	210	48	212	1.4	6.0	63	47	ND	0.05	0.06	30.36	0.25	0.27	15.0	1.5	0.40	B
	Mar-22	19°C	7.90	312	472	10.2	12.0	250	186	64	210	1.4	6.0	58	39	ND	0.09	0.08	30.55	0.20	0.41	21.5	1.6	0.58	B
	Apr-22	20°C	7.80	277	416	9.8	10.0	240	205	35	160	1.4	5.6	63	41	ND	0.05	0.05	71.37	0.15	0.30	12.5	1.5	0.35	B
	May-22	22°C	7.24	260	392	9.0	8.5	136	102	34	114	1.4	5.6	70	39	ND	0.08	0.02	44.33	0.31	0.30	5.0	4.4	0.18	B
	Jun-22	24°C	7.36	238	360	9.2	7.0	256	210	46	230	1.6	6.0	79	43	ND	0.05	0.03	41.15	0.27	0.29	11.9	2.7	0.32	B
	Jul-22	24°C	7.65	161	243	8.8	8.0	153	120	33	115	1.5	6.0	84	47	ND	0.07	0.03	47.24	0.28	0.41	6.8	2.9	0.23	B
	Aug-22	21°C	7.40	138	210	8.6	6.0	135	110	25	105	1.6	6.0	94	58	ND	0.11	0.03	49.54	0.24	0.36	5.6	5.1	0.20	B
	Sep-22	20°C	8.11	173	264	8.8	7.5	195	168	27	157	1.5	6.0	84	43	ND	0.07	0.09	48.33	0.11	0.28	5.5	2.9	0.17	B
	Oct-22	20°C	8.40	206	311	9.0	7.0	185	167	18	179	1.4	5.6	79	47	ND	0.09	0.05	46.38	0.19	0.28	8.2	3.1	0.26	B
	Nov-22	17°C	8.05	196	300	9.2	9.0	200	165	35	184	1.3	5.6	84	43	ND	0.11	0.06	44.20	0.20	0.22	11.3	3.5	0.34	B
	Dec-22	16°C	8.23	190	290	9.4	7.0	180	160	20	165	1.2	5.2	94	46	ND	0.08	0.04	44.24	0.20	0.23	9.8	3.0	0.31	B

**River Ganga A/C River Song (River Ganga D/S) Near Birla guest house, Dist-Dehradun**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µs/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
28	Jan-22	18°C	7.40	251	379	9.6	12.0	180	160	20	130	1.0	4.0	40	26	ND	0.08	0.04	24.20	0.29	0.74	16.4	2.0	0.53	A
	Feb-22	16°C	7.40	261	393	9.6	12.0	240	200	40	180	1.0	4.0	48	27	ND	0.04	0.03	73.26	0.30	0.39	15.4	1.8	0.43	A
	Mar-22	18°C	7.70	290	439	10.4	10.0	234	178	56	200	1.0	4.0	46	24	ND	0.09	0.05	42.15	0.26	0.33	11.2	2.3	0.31	A
	Apr-22	18°C	7.60	258	388	10.0	8.0	224	194	30	150	1.0	4.0	48	26	ND	0.07	0.13	58.36	0.13	0.48	11.4	1.8	0.33	A
	May-22	19°C	7.60	242	363	9.8	7.0	110	70	40	90	1.0	4.0	47	22	ND	0.06	0.01	45.26	0.29	0.41	4.8	3.9	0.19	A
	Jun-22	22°C	7.01	256	384	9.6	6.0	234	217	17	195	1.0	4.0	58	39	ND	0.08	0.03	47.35	0.31	0.36	9.7	2.8	0.27	B
	Jul-22	24°C	7.62	190	288	9.0	6.5	190	155	35	135	1.0	4.0	63	43	ND	0.08	0.02	52.33	0.23	0.35	6.3	2.7	0.19	B
	Aug-22	22°C	7.30	193	292	8.8	7.0	220	180	40	118	1.0	4.0	70	41	ND	0.10	0.03	55.33	0.26	0.43	5.2	4.7	0.15	B

Sep-22	19°C	7.76	182	280	9.0	8.5	198	182	16	165	1.0	4.0	63	39	ND	0.05	0.06	46.25	0.08	0.39	5.6	3.0	0.17	B
Oct-22	20°C	8.35	213	321	9.2	7.5	188	171	17	176	1.0	4.0	70	41	ND	0.11	0.05	57.33	0.19	0.37	7.5	2.8	0.23	B
Nov-22	16°C	8.20	230	350	9.4	8.0	235	190	45	195	1.0	4.0	79	43	ND	0.13	0.08	49.36	0.21	0.30	10.4	3.1	0.29	B
Dec-22	18°C	8.11	206	314	9.6	7.0	193	150	43	157	1.0	4.0	84	41	ND	0.10	0.06	52.33	0.20	0.18	9.3	2.8	0.29	B

**River Suswa D/S at Mathurawala, Dehradun**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
29	Jan-22	18°C	7.18	485	743	3.4	40.0	440	270	170	207	24	96	≥1600	≥1600	540	0.08	0.03	148.27	0.29	0.87	38.1	12.4	0.78	C
	Feb-22	15°C	7.01	410	618	3.6	35.0	411	309	102	312	22	90	≥1600	≥1600	920	0.13	0.10	188.33	0.35	0.86	37.2	11.4	0.79	E
	Mar-22	19°C	7.20	432	654	3.4	40.0	308	268	40	262	24	98	≥1600	≥1600	920	0.11	0.08	181.45	0.32	0.78	35.1	11.0	0.86	E
	Apr-22	18°C	7.05	417	626	3.6	35.0	292	256	36	240	22	90	≥1600	≥1600	920	0.13	0.09	190.08	0.35	0.83	31.8	8.3	0.80	E
	May-22	21°C	6.79	303	458	3.2	40.0	396	352	44	401	24	98	≥1600	≥1600	540	0.25	0.15	126.33	0.19	0.45	35.5	14.3	0.77	E
	Jun-22	23°C	6.62	370	554	3.0	43.0	412	292	120	339	25	100	≥1600	≥1600	920	0.18	0.02	173.26	0.32	0.40	33.7	15.9	0.71	E
	Jul-22	18°C	7.47	287	435	3.6	36.0	390	360	30	302	22	90	≥1600	≥1600	920	0.20	0.16	188.24	0.36	0.37	23.2	12.4	0.50	E
	Aug-22	24°C	7.26	220	334	4.8	26.0	287	220	67	254	18.0	76.0	≥1600	≥1600	920	0.25	0.13	131.82	0.22	0.31	25.0	11.4	0.64	D
	Sep-22	20°C	7.64	149	226	3.8	28.0	190	168	22	153	22.0	86.0	≥1600	≥1600	920	0.11	0.35	152.14	0.13	0.38	26.4	12.3	0.83	E
	Oct-22	24°C	6.93	210	319	4.6	20.0	210	188	22	202	18.0	72.0	≥1600	≥1600	920	0.26	0.11	147.36	0.22	0.48	25.1	11.4	0.75	D
	Nov-22	19°C	6.84	278	419	4.8	17.0	230	184	46	200	16.0	68.0	9200	4700	920	0.25	0.13	139.33	0.25	0.52	30.5	15.1	0.87	D
	Dec-22	12°C	6.75	460	694	4.2	25.0	353	200	153	290	18.0	72.0	8400	4800	920	0.33	0.15	158.30	0.32	0.48	29.7	14.6	0.68	D

**River Suswa U/S at Barafutta, Doiwala, Dehradun**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality	
30	Jan-22	16°C	7.45	210	318	6.8	15.0	260	168	92	172	1.4	6.0	63	40	1.8	0.08	0.04	80.30	0.11	0.58	34.3	11.1	0.92	B	
	Feb-22	22°C	7.72	372	562	6.6	10.0	400	310	90	250	1.4	6.0	58	32	2.0	0.15	0.03	65.13	0.52	0.36	33.6	10.8	0.72	B	
	Mar-22	20°C	7.47	342	517	6.8	9.0	280	198	82	215	1.4	6.0	63	34	3.6	0.13	0.05	61.75	0.45	0.31	28.4	8.9	0.73	B	
	Apr-22	21°C	7.55	383	574	6.6	8.0	280	240	40	290	1.4	6.0	58	32	3.7	0.11	0.07	59.07	0.41	0.28	39.3	11.8	1.01	B	
	May-22	22°C	7.04	253	379	6.4	10.0	400	381	19	444	1.6	6.4	63	34	4.0	0.17	0.08	139.84	0.24	0.63	38.6	12.5	0.83	B	
	Jun-22																									River was Dry
	Jul-22	18°C	7.68	270	410	6.6	12.0	378	340	38	290	1.5	6.0	70	40	6.0	0.13	0.11	123.66	0.37	0.36	19.3	9.9	0.43	B	
	Aug-22	25°C	7.10	174	263	7.0	9.0	162	137	25	152	1.4	5.6	63	41	6.0	0.21	0.09	141.33	0.28	0.29	25.1	14.0	0.85	B	
	Sep-22	20°C	7.55	175	265	6.8	11.0	176	157	19	170	1.5	5.6	70	47	8.3	0.17	0.16	85.52	0.08	0.31	24.8	11.0	0.81	B	
	Oct-22	23°C	7.08	219	332	7.2	9.0	170	159	11	166	1.4	5.2	84	48	14	0.23	0.07	98.36	0.25	0.37	21.9	9.3	0.72	B	
	Nov-22	16°C	7.10	185	280	7.4	10.0	240	128	112	150	1.4	5.2	94	49	21	0.20	0.08	96.58	0.23	0.31	27.7	8.3	0.77	B	
	Dec-22	14°C	7.01	410	616	7.0	14.0	386	302	84	340	1.6	5.6	84	48	26	0.25	0.11	100.25	0.23	0.32	26.5	7.9	0.58	B	

**River Song D/S before confluence in to River Ganga Near Nepali Farm, Rishikesh**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
31	Jan-22	16°C	7.20	210	318	6.6	12.0	170	151	19	150	1.2	4.0	70	43	4.0	0.03	0.01	27.65	0.12	0.36	16.7	1.8	0.55	B

	Feb-22	17°C	7.15	274	413	7.2	9.0	366	244	122	196	1.2	4.0	79	48	3.7	0.07	0.04	97.76	0.68	0.48	17.8	2.3	0.40	B
	Mar-22	17°C	7.80	317	478	8.2	8.0	264	222	42	187	1.2	4.0	70	39	4.0	0.05	0.03	90.47	0.57	0.39	11.2	2.3	0.29	B
	Apr-22	18°C	8.00	300	467	8.6	7.0	261	179	82	146	1.2	4.0	63	34	3.6	0.05	0.01	75.36	0.15	0.36	11.0	1.3	0.29	B
	May-22	22°C	7.74	282	424	9.0	6.0	176	119	57	163	1.2	4.0	70	31	3.7	0.05	0.09	115.36	0.63	0.59	12.8	2.9	0.41	B
	Jun-22	23°C	7.43	275	414	8.8	7.0	270	242	28	197	1.2	4.0	79	49	4.5	0.25	0.02	110.25	0.25	0.50	8.3	2.6	0.21	B
	Jul-22	25°C	7.34	165	250	8.2	6.0	162	145	17	110	1.2	4.0	84	58	6.0	0.23	0.06	118.36	0.33	0.27	6.3	3.0	0.21	B
	Aug-22	21°C	7.61	177	268	8.4	8.0	210	190	20	165	1.2	4.0	70	48	8.3	0.09	0.06	113.26	0.22	0.29	12.2	4.6	0.36	B
	Sep-22	19°C	8.04	176	267	8.6	7.0	205	175	30	106	1.2	4.0	84	46	6.8	0.11	0.59	85.25	0.16	0.31	4.8	2.7	0.14	B
	Oct-22	20°C	8.15	211	318	8.8	6.0	212	181	31	135	1.2	4.0	94	48	9.3	0.10	0.03	120.11	0.18	0.23	3.7	2.1	0.11	B
	Nov-22	17°C	7.12	214	325	9.0	8.0	320	280	40	290	1.1	4.0	94	46	14	0.11	0.05	115.20	0.15	0.20	4.9	3.2	0.11	B
	Dec-22	17°C	7.90	190	288	9.2	7.0	110	80	30	80	1.1	4.0	84	48	17	0.13	0.08	98.36	0.24	0.30	4.4	2.9	0.18	B

**River Yamuna D/S at Vikash Nagar, Dehradun**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µs/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
32	Jan-22	15°C	7.8	152	231	9.2	9.0	132	116	16	97	1.0	4.0	63	40	5.6	0.11	0.04	37.45	0.17	0.39	10.8	1.8	0.40	B
	Feb-22	13°C	7.72	148	224	9.2	8.0	102	88	14	83	1.0	4.0	70	41	5.5	0.03	0.04	38.15	0.20	0.26	10.3	1.4	0.44	B
	Mar-22	16°C	7.14	86	130	10.2	7.0	56	40	16	50	1.0	4.0	79	43	6.0	0.07	0.05	42.15	0.20	0.36	9.8	1.5	0.56	B
	Apr-22	18°C	7.30	83	124	10.4	6.0	87	73	14	81	1.0	4.0	70	41	5.6	0.03	0.02	28.33	0.13	0.29	8.3	2.2	0.38	B
	May-22	21°C	7.58	48	73	9.8	5.0	70	40	30	50	1.0	4.0	79	40	5.5	0.09	0.02	36.85	0.17	0.43	3.4	2.4	0.17	B
	Jun-22	20°C	7.41	75	115	10.0	6.0	96	70	26	78	1.0	4.0	70	41	6.0	0.08	0.02	25.84	0.11	0.42	3.9	2.7	0.17	B
	Jul-22	24°C	7.40	58	90	9.4	4.5	60	40	20	53	1.0	4.0	84	58	6.1	0.07	0.01	29.15	0.13	0.11	2.1	2.4	0.11	B
	Aug-22	20°C	8.31	62	95	9.6	3.0	82	64	18	70	1.0	4.0	79	58	9.1	0.07	0.03	29.25	0.15	0.18	14.7	3.3	0.70	B
	Sep-22	20°C	8.40	78	119	9.8	3.5	76	60	16	62	1.0	4.0	63	46	8.2	0.05	0.01	26.11	0.18	0.17	7.6	2.9	0.37	B
	Oct-22	19°C	7.60	103	157	9.8	5.0	102	84	18	87	1.0	4.0	70	48	11	0.11	0.05	33.15	0.18	0.14	6.9	2.5	0.29	B
	Nov-22	16°C	7.19	105	160	10.0	6.0	94	70	24	84	1.0	4.0	79	46	17	0.15	0.08	29.36	0.20	0.13	4.0	4.3	0.17	B
	Dec-22	16°C	7.87	174	262	10.2	8.0	162	141	21	159	1.0	4.0	70	41	13	0.09	0.03	28.33	0.16	0.17	3.6	4.0	0.12	B

**Yamuna Canal at Dakpathar**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µs/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
33	Jan-22	14°C	7.42	131	200	9.0	9.0	152	102	50	120	1.0	4.0	58	32	3.7	0.09	0.06	33.24	0.20	0.46	5.7	1.5	0.20	B
	Feb-22	13°C	7.41	126	192	9.2	8.0	100	81	19	75	1.0	4.0	63	34	4.0	0.04	0.05	41.13	0.25	0.30	5.9	1.3	0.25	B
	Mar-22	15°C	7.21	124	186	10.4	6.0	98	60	38	80	1.0	4.0	58	27	4.5	0.10	0.01	30.84	0.19	0.57	8.2	1.9	0.35	B
	Apr-22	18°C	7.20	81	122	10.2	5.0	85	68	17	78	1.0	4.0	63	31	5.5	0.05	0.05	22.62	0.21	0.48	9.6	2.4	0.45	B
	May-22	21°C	7.50	67	101	9.8	4.5	110	73	37	58	1.0	4.0	58	27	5.6	0.05	0.04	31.51	0.19	0.28	3.7	2.6	0.15	B
	Jun-22	20°C	7.33	99	157	10.0	5.0	85	58	27	63	1.0	4.0	63	47	5.6	0.06	0.01	39.25	0.07	0.37	4.3	3.0	0.20	B
	Jul-22	24°C	7.20	42	65	9.2	4.0	49	30	19	32	1.0	4.0	70	48	7.8	0.08	0.05	36.15	0.11	0.19	2.3	2.6	0.14	B
	Aug-22	20°C	8.40	34	53	9.4	3.5	55	40	15	46	1.0	4.0	84	63	6.8	0.06	0.03	43.54	0.20	0.13	2.7	4.8	0.15	B

Sep-22	20°C	7.47	53	82	9.6	3.0	60	45	15	49	1.0	4.0	79	39	6.8	0.08	0.05	41.31	0.19	0.22	3.0	3.8	0.16	B
Oct-22	20°C	8.16	70	106	9.8	2.5	72	51	21	53	1.0	4.0	84	43	9.2	0.09	0.08	40.26	0.22	0.16	2.5	3.3	0.12	B
Nov-22	16°C	7.84	80	120	10.0	5.0	85	60	25	70	1.0	4.0	79	43	14	0.08	0.07	37.33	0.20	0.14	3.3	3.7	0.15	B
Dec-22	13°C	7.58	120	180	10.2	5.0	93	68	25	81	1.0	4.0	84	48	17	0.10	0.06	33.52	0.13	0.19	3.0	3.2	0.13	B

**River Yamuna at Dakpathar, Dehradun**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
34	Jan-22	15°C	7.52	136	209	9.4	8.0	130	100	30	80	1.0	4.0	46	22	5.6	0.07	0.01	42.11	0.15	0.39	6.1	1.7	0.23	A
	Feb-22	13°C	7.39	130	196	9.4	7.0	114	90	24	89	1.0	4.0	49	24	6.0	0.04	0.03	37.36	0.17	0.29	6.1	1.5	0.24	A
	Mar-22	15°C	7.17	87	133	10.6	6.0	64	50	14	57	1.0	4.0	46	22	5.6	0.09	0.02	33.26	0.24	0.48	8.0	1.7	0.43	A
	Apr-22	18°C	7.17	88	134	10.4	5.0	80	68	12	76	1.0	4.0	48	24	6.1	0.02	0.03	33.52	0.18	0.45	9.4	2.3	0.45	A
	May-22	20°C	7.40	61	92	9.8	4.5	114	71	43	88	1.0	4.0	46	22	6.0	0.05	0.03	39.42	0.16	0.33	3.5	2.4	0.14	A
	Jun-22	20°C	7.20	90	136	10.2	5.0	85	53	32	60	1.0	4.0	47	24	5.5	0.07	0.04	28.55	0.11	0.26	4.0	2.6	0.18	A
	Jul-22	25°C	7.40	50	76	9.4	4.0	50	35	15	42	1.0	4.0	78	26	6.1	0.08	0.04	25.38	0.11	0.16	1.6	2.9	0.09	B
	Aug-22	20°C	8.43	33	51	9.6	4.0	55	47	08	45	1.0	4.0	63	31	6.1	0.08	0.06	28.35	0.16	0.16	2.5	4.1	0.14	B
	Sep-22	21°C	7.60	89	136	9.8	4.0	70	55	15	57	1.0	4.0	70	33	6.1	0.09	0.06	29.15	0.15	0.22	2.8	3.5	0.14	B
	Oct-22	20°C	8.12	72	109	10.0	3.0	74	53	21	55	1.0	4.0	79	41	6.1	0.13	0.03	28.63	0.17	0.13	2.2	3.0	0.11	B
	Nov-22	16°C	7.81	82	124	10.2	5.0	89	62	27	73	1.0	4.0	84	46	8.1	0.12	0.04	30.31	0.18	0.15	3.4	3.7	0.15	B
	Dec-22	13°C	7.61	121	182	10.4	5.0	98	70	28	85	1.0	4.0	94	49	9.2	0.12	0.08	23.40	0.11	0.15	3.1	3.3	0.13	B

**River Yamuna at Lakhwar, Dehradun**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
35	Jan-22	11°C	7.64	145	224	9.6	6.0	180	156	24	140	1.0	4.0	<2	<2	ND	0.05	0.05	33.09	0.13	0.37	6.5	1.9	0.21	A
	Feb-22	10°C	7.15	130	196	9.8	8.0	110	93	17	80	1.0	4.0	<2	<2	ND	0.05	0.03	33.10	0.23	0.33	6.4	1.8	0.26	A
	Mar-22	16°C	7.05	141	214	10.8	5.0	100	70	30	76	1.0	4.0	<2	<2	ND	0.08	0.05	39.24	0.26	0.24	7.7	2.1	0.33	A
	Apr-22	16°C	7.30	87	131	10.6	4.5	90	76	14	87	1.0	4.0	<2	<2	ND	0.03	0.02	26.43	0.20	0.53	4.7	3.2	0.21	A
	May-22	20°C	7.55	112	167	10.2	4.5	138	106	32	92	1.0	4.0	<2	<2	ND	0.04	0.01	33.26	0.13	0.29	3.7	2.3	0.13	A
	Jun-22	18°C	7.78	87	133	10.8	4.0	80	50	30	66	1.0	4.0	<2	<2	ND	0.07	0.03	23.26	0.09	0.39	4.2	2.8	0.20	A
	Jul-22	25°C	7.70	95	145	9.8	3.5	95	50	45	55	1.0	4.0	<2	<2	ND	0.06	0.02	26.54	0.10	0.17	4.1	2.6	0.18	A
	Aug-22	20°C	8.08	44	68	10.0	2.5	66	57	09	52	1.0	4.0	<2	<2	ND	0.09	0.07	24.63	0.18	0.15	3.2	4.8	0.17	A
	Sep-22	20°C	7.66	72	110	10.2	3.5	60	48	12	46	1.0	4.0	<2	<2	ND	0.09	0.06	21.36	0.19	0.18	3.6	4.5	0.20	A
	Oct-22	20°C	8.05	94	143	10.4	4.0	93	78	15	79	1.0	4.0	<2	<2	ND	0.10	0.06	27.33	0.20	0.15	3.1	3.8	0.13	A
	Nov-22	15°C	7.62	90	139	10.6	5.0	100	81	19	99	1.0	4.0	1.8	1.8	ND	0.09	0.06	27.26	0.22	0.20	2.8	2.6	0.12	A
	Dec-22	17°C	8.20	135	204	10.6	6.0	105	87	18	95	1.0	4.0	1.8	1.8	ND	0.10	0.06	19.36	0.13	0.17	2.5	2.2	0.10	A

**River Yamuna at Kalsi, Dehradun**

36	May-22	21°C	7.31	122	184	10.0	4.0	134	106	28	90	1.0	4.0	41	20	2.0	0.07	0.01	27.75	0.10	0.27	3.9	2.6	0.14	A
	Jun-22	19°C	7.37	65	101	10.4	3.5	82	50	32	62	1.0	4.0	43	22	3.6	0.04	0.02	29.54	0.13	0.28	4.4	3.1	0.21	A

	Jul-22	24°C	7.80	73	111	9.6	3.0	135	116	19	88	1.0	4.0	48	26	6.1	0.06	0.01	27.35	0.09	0.20	4.6	2.8	0.17	A
	Aug-22	19°C	8.23	74	113	9.8	2.5	90	73	17	76	1.0	4.0	43	22	5.6	0.11	0.04	33.25	0.12	0.11	7.6	2.0	0.34	A
	Sep-22	21°C	8.01	84	127	10.0	3.0	94	75	19	79	1.0	4.0	47	21	5.5	0.07	0.03	30.11	0.15	0.14	5.7	2.8	0.25	A
	Oct-22	20°C	8.12	91	139	10.2	3.5	53	42	11	47	1.0	4.0	48	26	6.8	0.08	0.03	29.18	0.15	0.18	4.9	2.2	0.29	A
	Nov-22	15°C	7.70	94	143	10.4	4.0	98	63	35	80	1.0	4.0	46	22	6.1	0.14	0.09	25.20	0.19	0.20	3.0	3.4	0.13	A
	Dec-22	16°C	8.38	131	198	10.6	3.0	113	87	26	107	1.0	4.0	49	26	8.1	0.07	0.01	19.84	0.16	0.20	2.8	3.1	0.11	A
River Tons Before joining to River Yamuna at Dakpathar, Dehradun																									
37	May-22	18°C	7.61	58	85	10.0	4.0	46	34	12	55	1.0	4.0	48	26	6.1	0.10	0.04	53.26	0.20	0.25	6.3	2.9	0.40	A
	Jun-22	18°C	7.20	43	66	10.4	4.5	50	30	20	42	1.0	4.0	38	20	4.0	0.07	0.01	24.51	0.06	0.48	6.5	3.2	0.39	A
	Jul-22	25°C	7.82	76	117	9.8	3.5	90	60	30	50	1.0	4.0	33	17	2.0	0.08	0.06	45.70	0.09	0.23	3.2	2.9	0.14	A
	Aug-22	19°C	8.25	69	106	10.0	3.0	100	82	18	88	1.0	4.0	39	20	3.6	0.09	0.03	40.25	0.13	0.25	8.7	1.9	0.37	A
	Sep-22	20°C	7.85	87	133	10.2	4.0	105	86	19	90	1.0	4.0	41	21	3.7	0.06	0.02	36.11	0.15	0.18	6.0	2.5	0.25	A
	Oct-22	20°C	8.10	105	160	10.2	5.0	88	66	22	72	1.0	4.0	47	22	5.5	0.13	0.05	48.39	0.15	0.20	5.3	2.1	0.24	A
	Nov-22	16°C	7.49	101	155	10.4	3.0	85	59	26	78	1.0	4.0	49	26	6.1	0.11	0.08	52.63	0.20	0.18	4.6	3.0	0.21	A
	Dec-22	16°C	8.45	143	215	10.6	4.0	105	92	13	85	1.0	4.0	47	25	8.1	0.08	0.03	39.33	0.13	0.20	4.2	2.8	0.17	A
River Tons at Selaqui, Dehradun																									
38	May-22	23°C	7.89	113	175	8.0	8.0	186	145	41	176	2.4	10.0	58	31	6.8	0.05	0.06	149.75	0.26	0.39	33.4	10.8	1.06	B
	Jun-22	24°C	6.82	195	295	8.2	10.0	230	220	10	195	2.2	9.6	63	41	8.2	0.08	0.04	104.91	0.31	0.53	31.9	9.8	0.91	B
	Jul-22	24°C	7.30	274	415	7.8	12.0	300	245	55	200	2.4	10.0	70	58	9.2	0.10	0.09	113.30	0.12	0.20	17.7	3.4	0.44	B
	Aug-22	19°C	7.51	134	204	8.0	9.0	240	220	20	168	2.2	9.2	79	63	14	0.13	0.18	110.25	0.11	0.26	12.5	3.5	0.35	B
	Sep-22	20°C	8.42	79	121	8.4	8.0	230	205	25	152	2.0	8.4	84	58	15	0.15	0.13	95.19	0.17	0.23	10.8	3.0	0.30	B
	Oct-22	19°C	7.61	161	244	8.6	10.0	252	225	27	175	1.9	8.0	94	63	17	0.11	0.07	117.29	0.13	0.23	9.7	2.6	0.26	B
	Nov-22	20°C	7.67	145	218	8.4	12.0	185	129	56	155	2.0	8.0	110	69	25	0.11	0.08	123.31	0.15	0.20	8.2	9.0	0.26	B
	Dec-22	17°C	7.60	262	395	8.0	15.0	281	260	21	242	2.2	8.8	120	70	26	0.13	0.08	128.36	0.16	0.29	8.6	9.2	0.22	B
River Rispana U/S at Shikhar Fall, Dehradun																									
39	May-22	22°C	7.76	252	379	7.6	7.0	310	260	50	175	1.8	4.0	58	48	4.0	0.23	0.06	199.74	0.60	0.30	27.3	1.7	0.67	B
	Jun-22	24°C	7.60	334	502	7.0	9.0	322	248	74	190	2.0	4.8	63	43	5.5	0.25	0.07	201.09	0.63	0.32	26.0	3.0	0.62	B
	Jul-22	14°C	8.37	265	399	7.8	7.0	460	355	105	160	1.4	4.0	70	47	6.1	0.26	0.08	203.31	0.65	0.33	6.1	1.5	0.12	B
	Aug-22	21°C	7.20	164	248	8.4	5.0	102	89	13	91	1.2	4.0	63	48	6.0	0.20	0.11	180.25	0.52	0.25	23.2	2.9	0.99	B
	Sep-22	20°C	8.28	180	272	8.0	5.0	260	231	29	193	1.2	4.0	110	79	11	0.09	0.01	93.92	0.14	0.43	21.8	2.5	0.58	B
	Oct-22	22°C	7.49	190	289	8.2	4.0	119	99	20	105	1.0	4.0	94	63	9.3	0.29	0.11	90.25	0.22	0.35	20.3	2.9	0.80	B
	Nov-22	15°C	7.30	200	305	8.8	5.0	188	123	65	131	1.0	4.0	84	69	11	0.26	0.10	87.36	0.23	0.49	14.2	8.8	0.44	B
	Dec-22	15°C	7.80	189	285	8.6	4.0	183	146	37	170	1.0	4.0	79	63	13	0.26	0.09	86.55	0.19	0.31	13.7	8.4	0.43	B
River Rispana D/S Near IT Park, Dehradun																									

40	May-22	River Was Dry																							
	Jun-22	River Was Dry																							
	Jul-22	18°C	8.15	254	383	5.6	12.0	362	308	54	175	1.6	6.0	84	58	12	0.21	0.09	175.18	0.53	0.45	10.6	4.3	0.24	B
	Aug-22	23°C	7.03	201	304	6.8	10.0	250	226	24	215	1.4	5.6	94	63	21	0.21	0.09	112.38	0.41	0.28	22.0	4.2	0.60	B
	Sep-22	20°C	7.69	190	288	6.6	11.0	222	195	27	187	1.5	5.6	130	84	13	0.18	0.04	85.74	0.06	0.27	20.6	3.9	0.60	B
	Oct-22	20°C	7.29	173	264	7.0	10.0	241	219	22	230	1.3	5.2	110	70	11	0.30	0.07	88.26	0.25	0.46	19.0	3.4	0.53	B
	Nov-22	17°C	7.80	198	297	7.8	7.0	210	158	52	184	1.2	5.2	94	63	13	0.28	0.09	92.63	0.23	0.44	20.3	4.9	0.60	B
	Dec-22	16°C	7.60	231	349	7.4	10.0	239	216	23	243	1.3	5.2	84	63	17	0.29	0.09	76.29	0.21	0.43	19.4	4.6	0.54	B
River Rispana B/C to River Bindal at Mothorowala																									
41	May-22	20°C	6.80	267	401	2.6	38.0	388	340	48	374	20	96	≥1600	≥1600	430	0.19	0.09	187.65	0.35	0.68	30.5	9.7	0.67	E
	Jun-22	23°C	6.59	363	544	2.2	40.0	302	262	40	253	22	98	≥1600	≥1600	540	0.21	0.10	189.27	0.37	0.69	31.8	12.7	0.79	E
	Jul-22	17°C	7.05	267	405	3.6	28.0	429	325	104	213	18	70	≥1600	≥1600	920	0.23	0.11	191.32	0.38	0.68	12.6	7.1	0.26	E
	Aug-22	22°C	7.27	204	309	4.8	18.0	270	200	70	238	14.0	60.0	≥1600	≥1600	920	0.29	0.11	186.25	0.32	0.29	20.7	6.8	0.54	D
	Sep-22	20°C	7.92	143	217	3.4	28.0	170	156	14	155	20.0	78.0	≥1600	≥1600	920	0.19	0.33	157.36	0.13	0.36	19.0	6.1	0.63	E
	Oct-22	23°C	7.27	198	301	4.4	18.0	199	170	29	181	16.0	60.0	≥1600	≥1600	920	0.25	0.15	155.36	0.28	0.33	17.7	6.9	0.54	D
	Nov-22	16°C	7.32	223	340	4.8	13.0	201	178	23	210	14.0	54.0	≥1600	≥1600	920	0.23	0.16	142.31	0.27	0.30	20.1	14.2	0.61	D
	Dec-22	12°C	7.12	250	378	4.6	18.0	400	340	60	376	16.0	60.0	≥1600	≥1600	920	0.32	0.11	153.15	0.25	0.52	19.2	13.4	0.41	D
River Bindal U/S at Bindal Bridge, Dehradun																									
42	May-22	22°C	6.92	422	634	NIL	52.0	401	300	101	294	52	148	1600	920	540	0.27	0.11	121.39	0.41	0.48	66.7	32.0	1.44	E
	Jun-22	24°C	6.52	464	696	NIL	56.0	396	374	22	444	54	152	1600	920	920	0.29	0.13	123.52	0.43	0.50	48.3	29.2	1.05	E
	Jul-22	20°C	7.60	390	588	1.2	46.0	440	360	80	420	36	112	≥1600	≥1600	920	0.30	0.14	125.52	0.44	0.52	43.2	25.2	0.89	E
	Aug-22	24°C	6.82	165	250	4.2	28.0	248	210	38	175	22.0	88.0	≥1600	≥1600	920	0.28	0.07	129.55	0.32	0.36	31.0	16.0	0.85	D
	Sep-22	21°C	8.10	198	300	2.0	38.0	185	165	20	176	28.0	96.0	≥1600	≥1600	920	0.18	0.22	143.75	0.09	0.25	29.5	14.7	0.94	E
	Oct-22	23°C	6.97	178	269	3.2	23.0	229	184	45	196	24.0	88.0	≥1600	≥1600	920	0.27	0.07	133.15	0.27	0.39	27.9	16.1	0.79	E
	Nov-22	16°C	6.99	230	346	3.8	18.0	218	167	51	189	20.0	80.0	≥1600	≥1600	920	0.28	0.09	140.24	0.30	0.33	30.9	11.0	0.90	E
	Dec-22	12°C	6.83	256	384	3.6	25.0	244	192	52	219	22.0	84.0	≥1600	≥1600	920	0.23	0.14	130.68	0.29	0.39	29.7	10.3	0.82	E
River Bindal D/S Near Kargi Chowk, Dehradun																									
43	May-22	20°C	7.22	403	605	1.0	58.0	397	300	97	311	46	124	≥1600	≥1600	540	0.29	0.08	215.83	0.63	0.52	41.4	13.4	0.90	E
	Jun-22	23°C	6.72	482	722	NIL	66.0	400	226	174	470	52	144	≥1600	≥1600	540	0.31	0.09	217.05	0.65	0.53	56.5	36.3	1.22	E
	Jul-22	20°C	7.45	372	562	1.6	48.0	435	352	83	410	38	110	≥1600	≥1600	920	0.32	0.10	219.12	0.67	0.54	40.6	24.4	0.84	E
	Aug-22	22°C	6.65	187	283	4.4	26.0	240	165	75	290	20.0	82.0	≥1600	≥1600	920	0.37	0.08	195.26	0.38	0.41	27.3	13.6	0.76	D
	Sep-22	21°C	7.37	173	262	3.0	32.0	181	162	19	175	24.0	92.0	≥1600	≥1600	920	0.18	0.24	138.73	0.28	0.51	26.0	12.5	0.83	E
	Oct-22	24°C	6.68	200	305	3.8	20.0	221	173	48	208	20.0	76.0	≥1600	≥1600	920	0.31	0.08	126.85	0.25	0.41	25.1	13.6	0.73	E
	Nov-22	17°C	6.93	190	290	4.2	16.0	239	160	79	198	18.0	70.0	≥1600	≥1600	920	0.33	0.10	129.22	0.28	0.40	26.7	16.8	0.74	D

	Dec-22	12°C	6.97	238	360	3.2	28.0	261	173	88	194	24.0	90.0	≥1600	≥1600	920	0.28	0.08	141.36	0.25	0.43	25.5	15.9	0.68	E
<b>River Bindal B/C to River Rispana at Motherowala, Dehradun</b>																									
44	May-22	20°C	6.90	280	418	1.2	40.0	387	246	141	290	30	102	≥1600	≥1600	540	0.38	0.09	118.36	0.37	0.37	41.8	15.4	0.92	E
	Jun-22	23°C	6.78	397	595	0.9	45.0	360	260	100	307	35	120	≥1600	≥1600	540	0.40	0.11	120.79	0.39	0.40	35.5	13.8	0.81	E
	Jul-22	18°C	7.24	300	452	2.6	44.0	375	295	80	320	28	102	≥1600	≥1600	920	0.41	0.12	122.81	0.40	0.42	28.7	15.6	0.64	E
	Aug-22	22°C	7.32	194	293	4.6	20.0	252	230	22	195	19.0	78.0	≥1600	≥1600	920	0.31	0.12	125.79	0.38	0.38	29.0	15.0	0.79	D
	Sep-22	20°C	7.25	146	223	3.2	30.0	185	160	25	160	23.0	88.0	≥1600	≥1600	920	0.13	0.20	141.75	0.25	0.39	27.8	13.9	0.88	E
	Oct-22	24°C	6.85	153	228	4.0	19.0	219	180	39	199	18.0	70.0	≥1600	≥1600	920	0.27	0.09	126.36	0.30	0.53	26.3	14.5	0.77	D
	Nov-22	17°C	6.65	180	273	4.4	15.0	232	189	43	205	16.0	66.0	≥1600	≥1600	920	0.25	0.13	127.30	0.31	0.50	25.0	16.1	0.71	D
	Dec-22	12°C	6.90	397	595	3.4	24.0	389	312	77	345	20.0	80.0	≥1600	≥1600	920	0.31	0.12	131.27	0.26	0.36	24.3	15.6	0.53	E
<b>Drain after STP at Swargaashram, Rishikesh</b>																									
45	May-22	22°C	6.62	285	428	5.2	32.0	151	117	34	123	9.6	40	210	170	3.6	0.04	0.06	173.25	0.25	0.59	46.2	19.1	1.63	D
	Jun-22	24°C	6.56	277	416	4.8	40.0	244	175	69	222	10.0	42	350	280	20	0.24	0.01	129.24	0.46	0.32	57.0	23.7	1.58	D
	Jul-22	23°C	7.20	219	331	5.4	36.0	148	120	28	160	8.8	38	16000	480	120	0.25	0.03	133.36	0.42	0.26	39.7	16.9	1.41	D
	Aug-22	22°C	7.08	288	436	5.6	34.0	175	110	65	230	8.4	34	7000	3900	430	0.21	0.08	143.45	0.39	0.35	43.4	24.5	1.42	D
	Sep-22	21°C	7.85	255	385	5.2	39.0	236	205	31	251	8.8	36.0	4600	2300	350	0.10	0.06	39.08	0.15	0.43	36.1	14.6	1.01	D
	Oct-22	19°C	7.68	297	446	5.4	37.0	218	197	21	229	8.0	32.0	1700	1100	280	0.17	0.10	138.15	0.33	0.27	40.2	16.1	1.18	D
	Nov-22	16°C	7.20	313	475	5.2	45.0	300	255	45	267	8.4	34.0	280000	170000	920	0.15	0.09	130.52	0.29	0.31	38.6	14.5	0.96	D
<b>Drain after STP at Lakkarghat, Rishikesh</b>																									
46	May-22	21°C	6.84	292	437	5.6	38.0	233	181	52	198	9.0	38	220	140	4.0	0.06	0.03	188.30	0.30	0.47	57.1	16.1	1.62	D
	Jun-22	23°C	6.71	271	408	5.8	34.0	184	116	68	190	8.4	34	540	350	21	0.15	0.05	118.37	0.48	0.36	40.9	9.2	1.30	D
	Jul-22	25°C	7.63	288	436	5.2	38.0	220	200	20	240	7.6	28	4700	3900	350	0.09	0.10	114.36	0.51	0.29	40.2	13.6	1.17	D
	Aug-22	21°C	7.15	208	315	5.8	33.0	190	160	30	193	7.0	24	35000	3900	540	0.05	0.08	140.33	0.43	0.31	41.8	18.6	1.31	D
	Sep-22	20°C	7.35	198	301	5.6	30.0	195	168	27	181	7.2	26.0	7000	3300	430	0.09	0.10	32.75	0.18	0.28	25.5	4.8	0.79	D
	Oct-22	20°C	7.49	205	311	5.8	26.0	197	171	26	189	6.0	20.0	2100	1300	350	0.10	0.07	133.26	0.29	0.28	27.6	6.3	0.85	D
	Nov-22	17°C	7.06	263	397	5.4	38.0	273	220	53	135	6.4	22.0	1400	920	540	0.11	0.08	131.11	0.24	0.24	29.2	7.1	0.76	D
<b>River Ganga canal D/S at Har ki Pauri, Rishikul Bridge, Haridwar</b>																									
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococcus (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
47	Jan-22	15°C	8.20	133	208	10.2	10	42	27	15	75	1.0	4	94	58	32	0.18	0.01	18.7	0.41	0.86	4.0	2.0	0.26	B
	Feb-22	15.3°C	7.9	124	193.6	9.5	7	53	41	12	74	1.2	8	84	49	27	0.16	0.02	18.40	0.44	0.81	2.9	1.5	0.17	B
	Mar-22	19.2°C	7.80	120.3	187.9	9.2	6	71	53	18	78	1.0	8	70	48	21	0.81	0.24	18.10	0.16	0.28	4.1	2.1	0.21	B
	Apr-22	18.8°C	7.60	207.3	324	8.8	15.0	47	28	19	80	1.2	7.0	79	49	14	0.22	0.01	19.4	0.21	0.62	3.1	1.8	0.19	B
	May-22	25°C	7.60	96	193.6	9.5	3.0	19	8	11	73	1.0	4.0	84	47	27	0.16	0.02	18.4	0.44	0.81	3.0	1.5	0.29	B
	Jun-22	25.6°C	7.40	149.1	233	8.1	8.0	122	32	90	68	1.8	8.0	84	38	21	0.44	0.08	22.63	0.57	0.32	3.5	3.4	0.14	B
	Jul-22	24.2°C	8.30	103.7	162	8.5	15	40	22	18	78	1.5	6.0	120	38	15	0.23	0.02	20.1	0.23	0.65	2.7	4.2	0.19	B



Aug-22	22°C	7.20	161	252	7.9	6.0	71	31	40	59	1.6	10.0	94	47	22	0.36	0.09	21.6	0.31	0.21	2.5	2.4	0.13	B
Sep-22	26°C	7.60	249	390	8.6	8	90	52	48	164	2.6	12.0	84	46	17	0.32	0.05	49.18	1.25	0.32	5.9	7.0	0.27	B
Oct-22	22.3°C	8.00	136	212	8.6	8.0	46	32	14	72	1.8	8.0	84	49	24	0.30	0.06	18.6	0.34	0.68	3.4	1.8	0.21	B
Nov-22	20.1°C	7.80	152	238	8.6	10.0	54	24	30	169	2.0	9.0	94	25	14	0.30	0.10	33.95	1.09	0.54	3.6	2.2	0.21	B
Dec-22	15.7°C	7.40	186	290	10.0	9.0	88	10	78	250	1.0	4.8	70	20	10	0.16	0.02	18.0	0.42	0.80	3.8	2.0	0.17	B

**River Ganga at Har Ki Pouri, Haridwar**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
48	Jan-22	15°C	8.20	133	208	10.0	5	24	14	10	75	1.0	4	70	48	18	0.17	0.04	18.53	0.46	0.80	3.6	1.9	0.31	B
	Feb-22	15°C	8.1	125	196	9.5	6	26	15	11	74	1.0	8	63	40	22	0.13	0.04	20.86	0.51	0.75	2.8	1.5	0.23	B
	Mar-22	19.5°C	7.70	140	219	9.8	6	66	44	22	73	1.0	8	58	47	09	0.83	0.21	20.72	0.32	0.12	4.0	12.4	0.21	B
	Apr-22	19.3°C	7.90	102	159.4	9.0	10.0	25	14	11	75	1.5	5.0	63	46	9	0.18	0.02	18.4	0.31	0.31	2.8	1.7	0.24	B
	May-22	25.6°C	7.10	79.3	124	8.0	5.0	15	9	6	74	1.6	10.0	70	41	21	0.15	0.04	20.6	0.51	0.42	3.0	1.6	0.33	B
	Jun-22	23.1°C	7.60	142.0	222	7.8	10.0	140	16	124	59	2.0	10.0	94	39	17	0.29	0.05	21.89	0.13	0.33	3.4	2.2	0.12	B
	Jul-22	27.3°C	8.30	105.6	165	8.8	10	29	15	14	72	1.2	4.0	84	38	26	0.15	0.03	17.7	0.45	0.32	5.2	4.5	0.42	B
	Aug-22	23°C	7.80	150	235	8.1	10.0	69	43	26	70	1.6	8.0	120	38	15	0.19	0.03	18.7	0.41	0.18	2.2	2.3	0.12	B
	Sep-22	27°C	7.60	317	496	8.9	8	91	47	44	171	2.4	10.0	94	33	15	0.38	0.08	40.24	1.16	0.38	6.0	7.2	0.27	B
	Oct-22	22.6°C	8.00	141	220	8.2	6.6	36	20	16	74	1.6	8.0	79	46	14	0.23	0.05	20.2	0.38	0.56	3.6	2.9	0.26	B
	Nov-22	20.5°C	7.60	140	218	9.9	9.0	69	24	45	161	2.2	9.0	70	24	4.0	0.33	0.11	30.24	1.11	0.29	3.2	1.9	0.17	B
	Dec-22	19.3°C	7.40	165	258	10.2	4.0	110	14	96	30	1.0	4.4	63	21	11	0.15	0.06	21.8	0.52	0.74	3.4	1.8	0.14	B

**River Ganga D/S at Bisnpur Kundi Village, Haridwar**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
49	Jan-22	16°C	8.40	131	205	10.0	10	37	24	13	80	1.4	6	120	70	30	0.21	0.02	30.33	0.95	0.86	4.8	2.7	0.34	B
	Feb-22	15.9°C	8.2	156	244	9.8	8	42	28	14	88	1.5	10	120	84	32	0.26	0.04	30.01	0.76	0.8	15.6	4.7	1.04	B
	Mar-22	20.4°C	7.50	141.4	221	8.4	8	72	42	30	73	1.4	12	94	63	17	0.74	0.22	14.85	0.28	0.36	5.1	2.5	0.26	B
	Apr-22	18.5°C	7.70	96.8	151.4	8.2	5.0	36	24	12	65	1.8	8.0	94	58	32	0.22	0.05	17.7	0.19	0.37	3.6	4.3	0.26	B
	May-22	27.4°C	7.40	200.3	313	8.3	7.0	27	16	11	62	1.6	6.0	140	84	31	0.26	0.04	20.8	0.16	0.46	9.4	4.7	0.78	B
	Jun-22	27.1°C	8.20	250.9	392	8.0	11.0	280	20	260	66	2.2	12.0	110	58	21	0.79	0.22	28.89	0.13	0.38	4.3	2.3	0.11	B
	Jul-22	24.8°C	7.80	192.6	301	8.6	10	39	22	17	68	1.3	4.0	94	47	15	0.25	0.06	18.4	0.47	0.40	6.5	5.1	0.45	B
	Aug-22	24°C	8.10	155	242	7.8	14.0	79	40	39	86	1.0	5.0	110	32	21	0.17	0.06	23.6	0.32	0.21	3.2	2.7	0.16	B
	Sep-22	27°C	7.90	235	368	8.9	15	85	42	43	145	2.6	10.0	94	41	14	0.52	0.14	40.68	1.12	0.41	16.0	9.6	0.75	B
	Oct-22	23.5°C	8.20	148	231	7.8	8.2	52	32	20	88	1.8	9.0	140	70	26	0.64	0.09	23.4	0.43	0.70	6.0	3.2	0.36	B
	Nov-22	22.8°C	7.80	156	244	8.8	12.0	82	32	50	172	2.2	7.0	94	32	17	0.65	0.30	42.61	1.10	0.48	4.1	2.3	0.20	B
	Dec-22	18.0°C	8.40	191	298	10.2	6.0	32	16	16	87	1.4	6.4	79	22	10	0.30	0.04	19.6	0.77	0.80	4.2	2.4	0.32	B

**River Ganga Canal at Lal Ta Rao Bridge, Haridwar**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
50	Jan-22	15°C	8.30	119	186.6	9.8	5	47	35	12	75	1.0	4	79	43	22	0.15	0.03	22.99	0.88	0.85	4.0	2.0	0.25	B
	Feb-22	15°C	7.7	124.5	195	9.1	8	34	19	15	72	1.1	6	70	41	26	0.16	0.05	22.58	0.82	0.84	12.1	4.8	0.90	B
	Mar-22	19.1°C	7.60	122.9	192	8.9	6	65	47	18	71	1.0	8	63	49	14	0.84	0.28	18.10	0.38	0.20	4.0	2.3	0.21	B
	Apr-22	19.4°C	7.50	190.7	298	8.1	10.0	34	19	15	75	1.6	5.0	79	43	12	0.22	0.03	17.9	0.44	0.85	2.7	1.7	0.2	B
	May-22	23.3°C	7.20	102.4	160	8.3	7.0	15	9	6	75	1.5	5.0	70	41	24	0.16	0.05	22.52	0.52	0.84	12.1	4.8	1.35	B
	Jun-22	24.9°C	7.70	172.2	269	7.5	8.0	106	20	86	70	1.2	8.0	94	31	17	0.45	0.09	20.72	0.13	0.39	3.3	2.1	0.14	B
	Jul-22	25.7°C	8.20	101.8	159	8.2	5	35	20	15	73	1.6	5.0	94	47	22	0.28	0.04	19.5	0.18	0.48	2.7	4.2	0.20	B
	Aug-22	22°C	7.70	155	243	7.5	8.0	62	39	23	62	1.1	5.0	94	47	15	0.14	0.05	16.3	0.39	0.21	2.4	2.7	0.13	B
	Sep-22	27°C	7.50	315	493	8.2	8	81	42	39	172	2.4	8.0	94	43	12	0.40	0.04	44.33	1.32	0.41	6.3	6.8	0.30	B
	Oct-22	22.6°C	8.10	132	206	8.3	7.0	38	24	14	70	1.4	8.0	63	41	20	0.30	0.08	20.8	0.60	0.72	7.0	3.2	0.49	B
	Nov-22	20.2°C	7.60	154	241	8.8	9.0	62	22	40	168	2.0	8.0	63	17	8.2	0.41	0.20	35.34	1.66	0.48	3.5	2.0	0.19	B
	Dec-22	15.4°C	7.50	160	250	10.0	6.0	79	12	67	64	1.0	4.8	70	25	10	0.14	0.06	22.0	0.76	0.82	3.2	1.8	0.15	B

**River Ganga Canal at Damkothi, Haridwar**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
51	Jan-22	16°C	8.40	133.7	209	10.2	10	36	23	13	85	1.0	4	84	46	20	0.02	0.06	22.23	0.67	0.98	4.0	2.2	0.28	B
	Feb-22	15.1°C	7.4	131.8	206	9.4	6	29	19	10	76	1.1	6	79	34	12	0.04	0.04	21.26	0.64	0.96	2.8	1.5	0.22	B
	Mar-22	19.5°C	7.80	117.18	183	9.2	8	63	43	20	67	1.0	8	94	49	17	0.89	0.18	14.62	0.21	0.12	4.1	2.1	0.22	B
	Apr-22	19.0°C	7.30	115.5	180.5	8.8	15.0	30	19	11	95	1.5	8.0	79	49	26	0.23	0.04	21.1	0.17	0.65	3.2	1.9	0.25	B
	May-22	25.2°C	7.80	98.5	154	9.3	6.0	19	10	9	88	1.0	5.0	79	33	14	0.25	0.04	21.28	0.20	0.62	2.9	1.5	0.28	B
	Jun-22	21.9°C	7.30	147.0	230	8.2	8.0	120	34	86	67	2.0	8.0	110	32	14	0.39	0.10	24.54	0.09	0.30	3.7	2.0	0.15	B
	Jul-22	24.8°C	8.30	99.2	155	8.5	15	32	18	14	86	1.8	7.0	110	31	77	0.18	0.01	21.6	0.22	0.39	2.7	4.5	0.21	B
	Aug-22	22°C	7.50	177	276	8.3	8.0	55	23	32	56	1.1	8.0	120	32	10	0.16	0.02	15.9	0.25	0.31	2.6	2.3	0.15	B
	Sep-22	26°C	7.60	311	486	8.2	9	86	46	40	170	2.2	8.0	110	31	14	0.42	0.09	41.29	1.29	0.43	6.5	7.4	0.30	B
	Oct-22	22.1°C	8.30	119	185	8.3	9.0	34	22	12	80	1.2	9.0	70	47	17	0.29	0.07	20.1	0.38	0.66	3.5	1.6	0.26	B
	Nov-22	19.7°C	7.70	146.5	229	8.5	8.0	74	29	45	172	1.8	7.0	70	21	6.8	0.35	0.12	38.69	1.24	0.67	3.8	2.1	0.19	B
	Dec-22	15.6°C	7.60	189	296	10.0	4.0	84	10	74	170	1.0	5.2	79	23	11	0.06	0.04	20.2	0.62	0.92	3.4	2.0	0.16	B

**River Ganga U/S at Bindughat Dudhiyaban, Haridwar**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
52	Jan-22	16°C	8.30	138	216	9.8	5	67	56	11	80	1.0	4	84	47	9.3	0.082	0.04	28.12	0.97	0.77	6.0	2.7	0.31	B
	Feb-22	15.5°C	7.8	148	231	9.2	7	36	22	14	88	2.0	10	70	47	11	0.08	0.06	26.14	0.96	0.66	4.3	2.2	0.31	B
	Mar-22	19.3°C	7.10	425	664	8.6	10	85	57	28	97	1.2	12	84	41	12	0.12	0.08	17.95	0.12	0.10	7.3	3.3	0.34	B
	Apr-22	19.5°C	7.40	106.6	166.5	8.1	20.0	24	13	11	85	2.0	5.0	70	47	11	0.22	0.01	16.2	0.20	0.63	5.3	2.1	0.47	B
	May-22	24.1°C	7.30	84.4	132	8.0	5.0	16	8	8	86	1.4	4.0	70	48	14	0.20	0.06	25.31	0.95	0.66	4.7	2.3	0.51	B
	Jun-22	22.7°C	7.30	128.6	201	7.8	7.0	134	28	106	72	1.8	8.0	110	47	25	0.38	0.09	23.66	0.39	0.46	3.7	2.1	0.14	B

Jul-22	30.6°C	8.20	93.4	146	8.1	15	27	15	12	82	2.0	5.0	94	31	14	0.18	0.02	16.8	0.51	0.33	3.1	4.4	0.26	B
Aug-22	23°C	7.90	188	294	8.3	12.0	86	53	33	80	1.2	6.0	110	39	17	0.15	0.08	22.6	0.56	0.23	4.5	2.4	0.21	B
Sep-22	28°C	7.60	235	368	7.8	10	96	51	45	185	2.6	10.0	110	46	20	0.45	0.28	42.69	1.42	0.44	6.4	7.2	0.28	B
Oct-22	23.7°C	8.10	180	281	8.4	9.4	46	32	14	82	1.4	7.0	79	46	11	0.14	0.05	22.0	0.64	0.58	5.5	2.5	0.35	B
Nov-22	24.4°C	7.80	171	268	8.2	12.0	66	30	36	176	2.0	7.0	84	26	8.1	0.38	0.18	30.62	1.08	0.34	5.0	2.3	0.27	B
Dec-22	16.4°C	8.37	183	286	10.0	10.0	58	12	46	70	1.2	6.0	79	32	14	0.08	0.60	23.7	0.96	0.64	4.5	2.2	0.25	B

**River Ganga D/S at Balkumari Mandir, Ajeetpur, Haridwar**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
53	Jan-22	16°C	8.30	155	242	9.8	10	38	21	17	85	1.4	6	130	79	16	0.10	0.02	21.44	0.42	0.8	6.8	3.1	0.47	B
	Feb-22	16.1°C	8.6	159	249	9.6	8	34	19	15	86	1.4	10	110	79	24	0.06	0.02	20.12	0.42	0.90	4.3	2.2	0.32	B
	Mar-22	21.1°C	7.50	183	286	9.8	10	59	45	14	87	1.6	6	110	58	20	1.01	0.25	28.33	0.05	0.15	10.0	4.1	0.56	B
	Apr-22	18.2°C	7.60	105.8	165.4	9.2	5.0	38	25	13	65	1.9	8.0	84	58	24	0.18	0.02	20.1	0.15	0.48	5.8	2.6	0.81	B
	May-22	27.1°C	7.50	145.9	228	9.4	9.0	28	17	11	70	2.5	7.0	170	84	22	0.15	0.02	20.12	0.18	0.50	5.9	2.6	0.48	B
	Jun-22	26.8°C	7.70	249.0	389	7.8	30.0	162	62	100	60	2.4	12.0	120	48	22	0.84	0.12	29.63	0.25	0.41	13.5	4.7	0.46	B
	Jul-22	24.5°C	7.90	129.3	202	8.0	10	40	25	15	68	1.1	6.0	120	58	26	0.22	0.05	18.3	0.12	0.43	2.6	4.5	0.18	B
	Aug-22	24°C	8.10	151	236	7.6	12.0	63	45	18	90	1.4	7.0	94	31	17	0.32	0.02	30.2	0.49	0.17	4.1	2.6	0.22	B
	Sep-22	29°C	7.60	222	347	9.3	15	92	48	44	158	2.8	12.0	110	46	21	0.60	0.11	34.17	1.05	0.45	16.4	9.7	0.74	B
	Oct-22	24.5°C	8.20	160	250	7.9	8.6	44	28	16	90	2.4	12.0	110	58	22	0.26	0.06	22.8	0.34	0.60	6.5	3.0	0.42	B
	Nov-22	22.3°C	7.80	198	298	8.4	14.0	80	34	46	187	2.4	11.0	84	39	22	0.74	0.25	40.65	1.42	0.88	11.2	4.6	0.54	B
	Dec-22	17.5°C	8.20	138	216	10.4	8.0	44	14	30	80	1.2	4.8	84	17	10	0.17	0.02	19.8	0.40	0.90	6.0	2.6	0.39	B

**Upper Ganga Canal D/S at Roorkee, Haridwar District**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
54	Jan-22	15°C	8.30	128	200	9.2	5	31	19	12	75	1.4	6	110	79	4.0	0.13	0.05	20.21	0.49	0.92	4.5	2.2	0.35	B
	Feb-22	14.0°C	7.4	129	201	9.5	9	30	17	13	75	1.2	10	84	41	33.0	0.15	0.06	22.40	0.38	0.86	2.8	1.5	0.22	B
	Mar-22	18.9°C	7.70	169	264	9.3	8	55	45	10	71	1.2	12	110	47	17	0.19	0.09	16.00	0.14	0.09	4.5	2.6	0.26	B
	Apr-22	19.2°C	7.50	314.2	491	9.5	10.0	35	20	15	75	1.1	6.0	110	70	33	0.22	0.04	18.8	0.57	0.40	3.7	2.0	0.27	B
	May-22	23.7°C	7.20	118.4	185	8.1	7.0	20	12	8	75	1.2	4.0	94	43	39	0.17	0.06	21.4	0.40	0.58	3.5	1.8	0.34	B
	Jun-22	22.8°C	8.30	217.6	340	7.6	10.0	158	68	90	69	2.4	10.0	120	58	26	0.68	0.21	28.71	0.26	0.48	3.9	2.1	0.13	B
	Jul-22	26.7°C	8.00	111.4	174	8.3	10	39	22	17	76	1.5	6.0	110	58	26	0.24	0.02	18.8	0.15	0.56	2.1	1.9	0.15	B
	Aug-22	24°C	8.40	173	271	8.1	12.0	57	37	20	65	1.2	6.0	84	48	33	0.19	0.06	16.5	0.14	0.06	3.1	2.6	0.18	B
	Sep-22	24°C	7.60	253	396	8.2	12	89	45	44	158	2.8	12.0	120	46	20	0.38	0.04	40.69	1.51	0.58	2.7	1.9	0.12	B
	Oct-22	24.8°C	8.10	167	260	6.2	10.0	48	26	22	80	2.0	12.0	110	58	25	0.19	0.05	20.4	0.36	0.70	4.5	2.4	0.28	B
	Nov-22	21.5°C	7.90	196	306	9.1	12.0	64	24	40	173	2.4	10.0	94	31	17	0.87	0.38	48.93	1.22	0.98	4.3	2.2	0.23	B
	Dec-22	15.8°C	7.26	196	306	9.0	12.0	54	12	42	68	2.0	8.0	70	27	12	0.16	0.07	20.4	0.39	0.88	5.5	2.4	0.32	B

**River Banganga D/S at Laksar before entering U.P**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality	
55	Jan-22	20°C	8.0	371	580	6.8	5	49	31	18	255	1.8	8	120	84	12.1	0.07	0.04	22.99	0.30	0.72	22	6.3	1.36	B	
	Feb-22	16°C	8.2	322	503	6.8	13	37	28	9	240	2.5	15	120	70	34.0	0.08	0.04	23.20	0.32	0.76	3.1	1.6	0.22	B	
	Mar-22	24.4°C	7.50	425	664	6.7	12	179	111	68	292	2.4	12	120	63	25	0.63	0.08	24.51	0.05	0.07	30.3	7.3	0.98	B	
	Apr-22	22.3°C	7.40	144	225	6.8	15.0	26	14	12	220	2.4	8.0	110	84	17.0	0.29	0.02	17.1	0.17	0.33	5.4	2.1	0.45	B	
	May-22	28.8°C	7.80	366.7	573	5.2	11.0	48	16	32	240	2.2	5.0	170	79	33	0.25	0.04	19.6	0.26	0.36	5.3	2.0	0.33	B	
	Jun-22	31.8°C	7.80	210.6	329	4.8	38.0	266	132	134	255	2.2	10.0	110	32	11	0.98	0.38	30.87	0.32	0.38	31.8	9.8	0.84	C	
	Jul-22	32.8°C	7.70	379.2	593	6.0	15	28	15	13	150	2.0	8.0	120	32	10	0.19	0.06	25.3	0.17	0.42	15.2	7.9	1.25	B	
	Aug-22	29°C	7.70	340	531	7.5	9.0	120	80	40	96	2.1	12.0	170	70	19	0.63	0.09	25.31	0.89	0.34	12.8	5.2	0.51	B	
	Sep-22	28°C	8.10	160	250	6.2	11	111	54	57	144	2.4	12.0	110	40	20	0.19	0.12	27.09	0.96	0.46	9.7	2.8	0.40	B	
	Oct-22	22.3°C	8.30	326	509	7.9	11.0	68	40	28	250	1.8	10.0	130	63	24	0.26	0.44	21.5	0.22	0.45	13.5	4.5	0.71	B	
	Nov-22	25.3°C	7.90	140	218	5.6	20.0	84	32	52	245	2.6	9.0	170	63	40	0.39	0.21	33.91	1.20	0.44	33.3	7.5	1.58	B	
	Dec-22	19.8°C	8.40	593	926	5.0	20.0	99	56	43	240	2.0	12.0	84	41	20	0.07	0.03	22.0	0.34	0.66	19.9	6.4	0.86	B	
<b>River Ganga D/S at Sultanpur, Haridwar</b>																										
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality	
56	Jan-22	17°C	8.30	121	188.5	10.4	5	24	16	8	80	2.0	8	110	70	6.0	0.02	0.04	18.63	0.86	0.87	4.1	2.2	0.36	B	
	Feb-22	15.3°C	8.2	230	359	9.2	10	33	20	13	74	2.0	10	70	34	17	0.04	0.06	19.86	0.84	0.92	11.3	4.3	0.85	B	
	Mar-22	21.5°C	7.80	138.9	217	9.1	8	66	48	18	71	1.0	12	94	49	21	0.65	0.17	17.16	0.24	0.34	4.8	2.3	0.25	B	
	Apr-22	20.5°C	8.00	170.8	267	8.8	15.0	33	18	15	224	1.2	6.0	84	34	6.0	0.78	0.04	18.6	0.19	0.39	5.6	2.8	0.42	B	
	May-22	28.5°C	7.20	175.3	274	8.0	3.0	24	15	9	235	1.0	7.0	84	38	20	0.74	0.06	19.8	0.20	0.40	10.2	3.6	0.90	B	
	Jun-22	27.2°C	8.00	222.7	348	8.1	8.0	142	22	120	76	2.1	9.0	94	47	15	0.61	0.19	26.93	0.53	0.43	3.7	1.9	0.13	B	
	Jul-22	26.1°C	7.40	162.6	254	7.3	15	36	18	18	190	1.6	7.0	84	38	11	0.75	0.04	28.2	1.30	0.52	6.5	5.0	0.47	B	
	Aug-22	23°C	8.20	129	202	8.4	8.0	82	45	37	112	1.4	7.0	120	48	22	0.29	0.07	18.7	0.78	0.45	3	2.7	0.14	B	
	Sep-22	28°C	8.20	210	329	9.1	10	115	60	55	186	2.4	10.0	94	32	17	0.45	0.24	38.48	1.24	0.39	8.8	2.4	0.36	B	
	Oct-22	22.6°C	8.20	167	260	8.4	8.2	32	23	9	136	1.8	8.0	84	47	14	0.45	0.07	18.8	0.47	0.58	7.2	3.3	0.55	B	
	Nov-22	22.6°C	7.80	209	327	8.7	12.0	83	26	57	175	1.8	6.0	63	22	10	0.42	0.11	32.16	1.21	0.54	4.4	2.2	0.21	B	
	Dec-22	21.2°C	8.20	179	280	8.0	10.0	56	12	44	88	2.8	9.2	63	26	12	0.05	0.06	20.0	0.78	0.90	6.0	2.2	0.34	B	
<b>Drain after STP at Jagjeetpur, Haridwar</b>																										
57	May-22	25.6°C	7.70	350	546	5.2	43.0	60	37	23	220	2.4	10.0	94	32	25	1.13	1.03	28.8	0.46	0.74	30.6	10.5	1.71	B	
	Jun-22	31.0°C	7.30	284.2	441	6.1	34.0	266	152	114	252	1.8	10.0	110	63	33	1.01	0.64	22.48	0.12	0.68	35.4	10	0.94	B	
	Jul-22	32.6°C	7.70	204	320	6.3	30	150	90	60	223	2.0	9.0	120	58	25	0.24	0.52	25.82	0.32	0.53	27.4	9.1	0.97	B	
	Aug-22	28°C	7.43	524	820	7.9	22.0	56	38	18	196	2.4	12.0	110	63	33	1.10	0.62	24.36	0.16	0.58	24.8	8.4	1.44	B	
	Sep-22	28°C	7.20	315	493	6.2	32	163	95	68	236	3.8	16.0	70	47	27	1.48	0.21	33.27	1.53	0.46	62.4	26.1	2.13	D	
	Oct-22	28.4°C	8.00	365	570	6.3	20.0	66	36	30	180	6.0	28.0	94	25	12	1.2	1.06	26.0	0.42	0.72	3.2	12	0.17	D	
Nov-22	21.6°C	7.30	145	226	3.4	37.0	98	53	45	211	3.6	16.0	70	48	12	1.62	0.68	30.21	1.48	0.52	27.8	10.5	1.22	E		

River Nayar D/S at Satpuli , Pauri Garhwal																										
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality	
58	Jan-22	14°C	7.72	82	126	9.0	6.0	88	52	36	64	1.0	4.0	34	22	5.6	0.07	0.02	10.26	0.25	0.39	6.8	1.0	0.31	A	
	Feb-22	10°C	7.10	60	92	8.8	5.5	51	34	17	48	1.0	4.0	31	20	4.5	0.08	0.03	12.02	0.14	0.38	6.7	1.1	0.40	A	
	Mar-22	14°C	7.20	62	95	10.6	5.0	48	40	08	57	1.0	4.0	34	24	5.5	0.09	0.03	20.12	0.18	0.22	6.3	0.9	0.39	A	
	Apr-22	20°C	7.32	56	85	10.4	4.0	48	42	06	52	1.0	4.0	25	11	2.0	0.06	0.03	20.58	0.23	0.27	5.8	0.6	0.36	A	
	May-22	7.40	45	66	10.0	4.0	73	54	19	60	1.0	4.0	34	22		4.0	0.06	0.02	9.54	0.11	0.26	9.0	2.2	0.45	A	
	Jun-22	24°C	7.96	67	101	10.0	5.0	70	54	16	75	1.0	4.0	41	22	5.5	0.05	0.02	16.68	0.06	0.61	8.5	2.5	0.44	A	
	Jul-22	26°C	7.08	30	47	9.6	4.5	101	52	49	47	1.0	4.0	48	26	4.5	0.09	0.05	16.15	0.09	0.53	3.5	1.9	0.15	A	
	Aug-22	22°C	7.13	76	114	9.2	5.0	63	36	27	53	1.0	4.0	39	25	6.1	0.10	0.05	15.26	0.18	0.33	12.1	0.7	0.66	A	
	Sep-22	21°C	7.80	45	69	9.6	5.5	50	38	12	62	1.0	4.0	48	21	6.0	0.06	0.05	5.00	0.17	0.48	9.5	1.6	0.58	A	
	Oct-22	19°C	8.19	49	75	9.8	4.0	47	29	18	47	1.0	4.0	48	24	5.5	0.11	0.03	16.33	0.17	0.28	7.7	1.8	0.48	A	
	Nov-22	13°C	7.98	50	76	10.0	5.0	54	33	21	56	1.0	4.0	49	33	8.1	0.09	0.03	18.36	0.20	0.29	5.9	1.8	0.34	A	
	Dec-22	13°C	7.86	46	70	10.2	4.0	52	32	20	53	1.0	4.0	48	31	6.1	0.10	0.02	12.54	0.16	0.26	5.3	1.7	0.31	A	
River Nayar U/S at Satpuli , Pauri Garhwal																										
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality	
59	Jan-22	13°C	7.68	80	122	9.2	5.0	92	50	42	58	1.0	4.0	26	10	1.8	0.08	0.05	14.33	0.37	0.45	6.5	0.9	0.29	A	
	Feb-22	10°C	7.60	56	89	9.0	5.0	46	30	16	40	1.0	4.0	22	11	1.8	0.07	0.05	14.36	0.20	0.46	6.3	0.8	0.40	A	
	Mar-22	15°C	7.97	64	98	10.8	4.5	52	45	07	58	1.0	4.0	26	13	2.0	0.08	0.04	22.15	0.25	0.30	6.0	0.7	0.36	A	
	Apr-22	20°C	7.85	60	91	10.2	4.5	54	46	08	56	1.0	4.0	38	26	4.5	0.07	0.02	18.46	0.16	0.19	6.2	0.8	0.36	A	
	May-22	7.33	50	71	10.4	3.5	61	40	21	46	1.0	4.0	27	13		3.6	0.07	0.03	13.26	0.15	0.40	8.8	1.8	0.48	A	
	Jun-22	23°C	7.91	61	92	10.2	4.5	84	54	30	66	1.0	4.0	34	17	4.0	0.04	0.02	16.11	0.03	0.45	8.1	2.3	0.38	A	
	Jul-22	26°C	6.94	33	51	9.8	4.0	98	50	48	55	1.0	4.0	33	17	4.5	0.08	0.03	18.21	0.10	0.48	4.0	1.6	0.17	A	
	Aug-22	21°C	7.00	72	112	9.4	4.0	59	31	28	54	1.0	4.0	31	20	4.0	0.07	0.06	14.39	0.11	0.41	9.5	0.5	0.53	A	
	Sep-22	20°C	7.90	40	62	9.8	4.0	46	36	10	56	1.0	4.0	40	22	5.5	0.05	0.03	4.44	0.23	0.37	7.9	1.2	0.50	A	
	Oct-22	19°C	8.17	41	62	10.0	5.0	43	26	17	45	1.0	4.0	47	25	6.0	0.09	0.05	18.26	0.15	0.35	6.3	1.5	0.41	A	
	Nov-22	13°C	7.94	44	67	10.2	4.0	49	30	19	52	1.0	4.0	41	21	5.5	0.10	0.02	20.15	0.18	0.33	5.2	1.8	0.32	A	
	Dec-22	14°C	7.80	39	61	10.4	3.0	45	28	17	50	1.0	4.0	43	17	5.6	0.08	0.03	10.11	0.13	0.31	4.9	1.6	0.31	A	
Nainital Lake Water Intake, Nainital																										
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality	
60	Jan-22	09°C	7.56	283	410	9.0	23	270	144	126	186	1.2	5.0	280	110	2.0	0.07	0.05	42.13	0.2	0.43	20.1	2.1	0.52	B	
	Feb-22	07°C	7.79	296	440	9.2	21	266	148	118	192	1.6	6.0	220	120	3.7	0.08	0.001	184.03	0.23	0.64	19.8	1.9	0.52	B	
	Mar-22	10°C	7.45	277	390	9.0	15	252	140	112	198	1.4	5.0	210	110	3.6	0.07	0.003	172.46	0.21	0.59	18.9	1.7	0.51	B	
	Apr-22	14°C	7.78	289	430	9.0	21	260	144	116	212	2.0	6.0	220	130	3.7	0.08	0.10	110.33	0.15	0.20	14.7	4.0	0.39	B	
	May-22	17°C	7.53	298	440	9.0	19.0	256	148	108	224	2.2	7.0	210	120	3.6	0.11	0.07	87.33	0.20	0.27	10.1	3.5	0.27	B	

	Jun-22	18°C	7.33	293	430	8.8	25.0	262	144	118	228	2.0	7.0	170	110	4.0	0.06	0.01	163.05	0.05	0.18	18.3	6.0	0.48	B
	Jul-22	15°C	7.15	261	370	9.6	13	220	118	102	188	1.2	5.0	150	94	3.5	0.08	0.03	182.53	0.11	0.25	22	4.6	0.64	B
	Aug-22	14°C	7.68	243	360	9.6	11.0	224	116	108	196	1.0	4.0	170	110	4.0	0.09	0.05	47.81	0.22	0.39	17.6	6.1	0.50	B
	Sep-22	13°C	7.22	209	310	9.8	17.0	228	124	104	184	1.2	5.0	210	120	6	0.08	0.06	51.24	0.20	0.35	11.7	0.8	0.33	B
	Oct-22	12°C	7.81	248	370	9.8	19.0	240	128	112	210	1.6	5.0	220	110	5.6	0.11	0.02	47.25	0.18	0.32	10.4	1.3	0.29	B
	Nov-22	12°C	8.19	305	460	9.8	13.0	232	94	138	192	1.4	6.0	280	94	6.1	0.11	0.05	55.33	0.18	0.36	9.8	6.4	0.27	B
	Dec-22	10°C	7.75	297	440	9.6	15.0	242	136	106	220	1.0	5.0	240	110	8.1	0.13	0.02	58.24	0.19	0.33	14.9	9.3	0.41	B

**Bheemtal Lake Water Intake, Nainital**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
61	Jan-22	11°C	7.25	133	210	8.4	17	210	112	98	148	1.4	6.0	170	63	1.8	0.08	0.03	13.15	0.11	0.54	14.8	1.9	0.44	B
	Feb-22	09°C	7.51	127	220	8.8	19	204	118	86	156	1.8	6.0	140	84	2.0	0.05	0.024	8.28	0.07	0.83	14.6	1.8	0.44	B
	Mar-22	12°C	7.73	125	180	8.4	19	232	126	106	142	1.2	6.0	150	94	1.8	0.06	0.020	7.95	0.06	0.75	13.7	1.5	0.38	B
	Apr-22	17°C	7.25	135	210	8.6	23	222	128	94	160	1.8	7.0	140	84	1.8	0.05	0.10	25.37	0.10	0.27	8.5	5.0	0.24	B
	May-22	19°C	7.39	155	230	8.8	15.0	224	122	102	178	1.8	6.0	150	94	2.0	0.14	0.05	33.11	0.17	0.36	5.8	2.6	0.16	B
	Jun-22	20°C	7.81	159	240	8.6	21.0	230	126	104	172	1.6	6.0	130	84	3.6	0.09	0.04	110.04	0.07	0.24	7.9	5.5	0.22	B
	Jul-22	17°C	7.39	121	180	9.2	11	194	106	88	146	1.4	5.0	110	84	3.2	0.08	0.06	118.36	0.09	0.15	6.5	2.4	0.20	B
	Aug-22	17°C	7.54	112	170	9.4	15.0	182	98	84	158	1.4	5.0	130	94	9.3	0.09	0.05	79.30	0.20	0.40	7.4	3.5	0.23	B
	Sep-22	17°C	8.13	136	190	9.2	11.0	198	106	92	166	1.8	4.0	150	110	10	0.07	0.04	81.20	0.18	0.33	8.8	1.0	0.27	B
	Oct-22	14°C	7.26	145	210	9.4	17.0	192	104	88	174	1.2	5.0	170	120	11	0.10	0.01	76.55	0.17	0.40	8.2	1.2	0.25	B
	Nov-22	15°C	7.41	151	240	9.6	19.0	160	88	72	138	1.6	5.0	210	79	14	0.13	0.03	68.25	0.20	0.33	14.7	3.4	0.50	B
	Dec-22	13°C	7.63	158	230	9.4	13.0	176	98	78	152	1.2	6.0	220	84	17	0.11	0.01	68.29	0.22	0.39	13.2	3.1	0.43	B

**Gola River at Haldwani, Nainital**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
62	Jan-22	13°C	7.65	187	240	8.0	21	234	126	108	176	1.4	6.0	150	70	3.7	0.06	0.06	45.15	0.25	0.49	13.6	1.8	0.38	B
	Feb-22	12°C	7.54	193	230	8.2	13	248	136	112	182	1.6	7.0	170	63	4.0	0.08	0.003	30.80	0.18	0.90	13.2	1.6	0.36	B
	Mar-22	13°C	7.79	176	260	8.0	19	240	128	112	188	1.8	7.0	140	58	3.7	0.07	0.002	28.83	0.16	0.81	12.7	1.4	0.35	B
	Apr-22	18°C	7.48	197	280	8.6	17	238	126	112	182	2.0	8.0	130	49	3.6	0.10	0.08	52.57	0.11	0.26	13.0	3.0	0.36	B
	May-22	20°C	7.61	181	260	8.4	21.0	236	128	108	190	3.0	8.0	120	47	3.7	0.09	0.04	61.11	0.24	0.29	7.0	3.8	0.19	B
	Jun-22	22°C	7.44	187	260	8.4	19.0	240	132	108	196	2.2	7.0	140	58	3.7	0.05	0.08	83.79	0.23	0.19	6.6	4.5	0.18	B
	Jul-22	19°C	7.59	147	210	8.8	15	208	112	96	152	1.8	6.0	150	63	3.4	0.07	0.06	89.15	0.26	0.25	6.5	2.7	0.19	B
	Aug-22	18°C	8.16	129	190	9.0	17.0	210	108	102	174	1.2	5.0	140	84	9.2	0.08	0.03	70.02	0.15	0.31	17.4	5.8	0.52	B
	Sep-22	19°C	7.91	159	230	9.0	15.0	212	114	98	178	1.4	5.0	170	94	11	0.07	0.03	71.33	0.18	0.38	18.9	1.2	0.56	B
	Oct-22	18°C	7.41	193	260	9.2	25.0	224	122	102	192	2.0	6.0	150	84	14	0.09	0.03	55.85	0.19	0.39	16.5	1.5	0.47	B
	Nov-22	16°C	7.72	141	210	9.2	21.0	202	108	94	126	1.6	6.0	140	84	13	0.18	0.08	57.38	0.15	0.31	9.9	6.3	0.30	B
	Dec-22	14°C	7.25	167	240	9.2	23.0	226	118	108	164	1.2	6.0	120	70	11	0.09	0.06	60.11	0.16	0.29	12.6	9.6	0.36	B

Sattal lake, Nainital																										
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality	
63	Jan-22	08°C	7.73	115	160	9.0	21	164	90	74	132	0.8	4.0	110	48	1.8	0.03	0.02	10.36	0.33	0.51	12.9	1.2	0.43	B	
	Feb-22	08°C	7.16	119	170	9.2	15	172	94	78	144	1.2	5.0	130	31	1.8	0.07	0.001	21.05	0.24	0.55	13.0	1.4	0.42	B	
	Mar-22	09°C	7.91	108	150	9.0	21	154	90	64	136	1.0	4.0	120	27	1.8	0.06	0.002	20.70	0.19	0.47	12.4	1.2	0.43	B	
	Apr-22	14°C	7.57	102	140	9.2	19	168	96	72	134	1.2	4.0	110	24	1.8	0.09	0.05	23.54	0.13	0.40	17.8	3.0	0.59	B	
	May-22	16°C	7.82	111	160	9.2	21.0	176	98	78	146	1.6	5.0	130	26	1.8	0.09	0.06	15.26	0.18	0.27	2.5	1.0	0.08	B	
	Jun-22	17°C	7.56	122	180	9.0	19.0	188	102	86	154	1.4	5.0	150	30	2.0	0.07	0.01	74.78	0.01	0.17	7.5	5.4	0.23	B	
	Jul-22	15°C	7.42	102	130	9.8	11	170	98	72	138	1.2	4.0	140	31	1.8	0.06	0.05	76.88	0.09	0.21	2.9	2.8	0.09	B	
	Aug-22	13°C	7.79	109	160	9.8	15.0	150	86	64	132	1.0	4.0	170	48	9.3	0.10	0.08	57.31	0.21	0.38	7.6	3.3	0.26	B	
	Sep-22	14°C	7.45	105	160	9.8	11.0	166	94	72	148	1.2	4.0	220	58	13	0.11	0.09	63.22	0.25	0.30	13.5	1.5	0.45	B	
	Oct-22	12°C	7.63	114	170	9.6	13.0	176	98	78	156	1.4	4.0	240	63	11	0.10	0.06	57.80	0.19	0.29	12.4	1.3	0.40	B	
	Nov-22	13°C	8.13	103	150	9.8	11.0	158	82	76	142	1.2	5.0	280	94	13	0.11	0.07	60.31	0.22	0.28	9.7	6.7	0.33	B	
	Dec-22	11°C	7.94	124	180	9.6	15.0	184	102	82	138	1.0	5.0	220	79	12	0.13	0.04	50.38	0.18	0.36	5.3	4.1	0.16	B	
Naukichyatal lake, Nainital																										
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality	
64	Jan-22	09°C	7.41	141	180	8.6	19	194	108	86	156	1.2	5.0	58	26	1.8	0.07	0.05	10.37	0.30	0.39	13.4	4.3	0.41	B	
	Feb-22	09°C	7.29	135	190	9.0	23	188	106	82	158	1.0	4.0	63	33	2.0	0.03	0.001	121.52	0.30	0.73	13.8	4.1	0.43	B	
	Mar-22	11°C	7.16	129	190	8.6	17	194	112	82	164	1.4	5.0	70	41	3.6	0.04	0.001	118.38	0.23	0.64	13.2	3.8	0.41	B	
	Apr-22	15°C	7.93	141	190	8.8	21	190	104	86	178	1.8	6.0	84	43	4.0	0.05	0.03	30.27	0.10	0.25	18.4	3.1	0.57	B	
	May-22	17°C	7.24	148	190	8.8	17.0	198	106	92	166	1.8	5.0	94	48	4.5	0.09	0.03	23.15	0.15	0.33	6.1	4.1	0.18	B	
	Jun-22	18°C	7.85	139	190	8.6	21.0	208	110	98	162	1.6	5.0	84	33	5.5	0.03	0.03	87.88	0.03	0.23	7.8	5.5	0.23	B	
	Jul-22	16°C	7.51	125	160	9.2	13	184	102	82	144	1.6	4.0	70	31	4.0	0.08	0.05	90.25	0.03	0.19	2.8	2.7	0.08	B	
	Aug-22	14°C	7.25	117	180	9.4	19.0	194	106	88	156	1.2	4.0	94	31	8.1	0.08	0.06	68.33	0.23	0.31	7.5	3.4	0.23	B	
	Sep-22	15°C	7.72	121	180	9.4	15.0	186	98	88	152	1.0	4.0	110	47	13	0.13	0.07	73.37	0.25	0.42	14.0	0.8	0.44	B	
	Oct-22	14°C	7.95	127	190	9.4	17.0	188	106	82	168	1.6	5.0	120	48	15	0.11	0.02	65.28	0.20	0.31	13.1	1.1	0.41	B	
	Nov-22	14°C	7.22	133	210	9.8	11.0	180	92	88	174	1.8	5.0	110	43	14	0.13	0.05	73.26	0.21	0.27	9.7	6.4	0.31	B	
	Dec-22	12°C	7.85	145	210	9.8	11.0	210	112	98	142	1.4	5.0	94	40	11	0.09	0.03	62.14	0.23	0.30	7.3	4.2	0.21	B	
River Shipra D/S near Neem Karoli Dam, Bhawali, Nainital																										
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality	
65	Jan-22	09°C	7.91	136	190	8.4	15	190	104	86	152	1.0	5.0	170	84	2.0	0.07	0.02	17.85	0.10	0.38	14.8	4.8	0.46	B	
	Feb-22	08°C	7.33	144	190	8.4	19	194	112	82	148	1.0	5.0	150	94	5.5	0.02	0.001	7.57	0.24	0.49	14.5	4.7	0.45	B	
	Mar-22	11°C	7.28	138	190	8.2	13	198	110	88	156	1.4	5.0	140	84	6.0	0.03	0.001	6.98	0.20	0.41	13.7	4.2	0.42	B	
	Apr-22	15°C	7.71	118	160	9.0	21	202	106	96	164	1.2	5.0	150	94	6.1	0.08	0.09	21.33	0.12	0.26	11.9	1.4	0.36	B	
	May-22	18°C	7.48	125	180	8.8	17.0	210	112	98	158	1.4	6.0	170	84	6.8	0.09	0.07	21.31	0.15	0.25	5.6	2.0	0.16	B	
	Jun-22	19°C	7.63	133	190	8.8	23.0	218	116	102	168	1.8	5.0	150	94	6.0	0.04	0.01	53.33	0.07	0.20	7.6	3.1	0.22	B	
	Jul-22	16°C	7.29	141	170	9.4	19	212	114	98	152	1.4	5.0	140	84	5.5	0.07	0.05	57.28	0.08	0.26	6.8	2.9	0.20	B	

Aug-22	16°C	7.93	135	190	9.2	15.0	188	102	86	164	1.6	6.0	150	70	6.8	0.10	0.06	53.51	0.13	0.48	8.1	3.1	0.25	B
Sep-22	17°C	7.16	118	180	9.2	21.0	202	108	94	174	1.2	5.0	170	94	11	0.13	0.07	59.33	0.15	0.37	8.5	0.9	0.25	B
Oct-22	15°C	7.21	122	190	9.2	17.0	196	104	92	182	1.4	5.0	150	84	12	0.09	0.02	53.85	0.16	0.38	7.9	1.0	0.24	B
Nov-22	14°C	7.63	159	230	9.4	23.0	184	102	82	166	1.8	6.0	170	94	12	0.10	0.08	56.30	0.18	0.30	6.6	2.1	0.21	B
Dec-22	12°C	7.12	137	230	9.4	13.0	206	110	96	178	1.6	6.0	110	84	9.3	0.08	0.02	59.38	0.22	0.38	10.7	9.9	0.32	B

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

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Category
66	Jan-22	8°C	7.9	277	410	7.0	11.9	108.8	95.2	13.6	92	3.1	10	130	58	3.7	0.05	0.02	14.26	0.25	0.40	21.1	3.8	0.87	B
	Feb-22	22°C	7.20	174	260	7.2	10.2	100.4	86.8	13.6	90	3.0	9.6	150	70	6.0	0.06	0.016	71.82	0.26	0.44	21.8	3.9	0.94	B
	Mar-22	25°C	7.60	210	300	6.1	15.9	116	87	29	108	3.2	10	140	63	6.1	0.05	0.02	39.25	0.12	0.34	24.9	2.4	1.00	D
	Apr-22	28°C	7.70	210	310	6.7	12.24	112	86	26	98	3.0	10	150	70	6.8	0.05	0.03	42.26	0.18	0.32	22.6	3.2	0.92	B
	May-22	28°C	7.50	300	447	6.5	15.0	110	84	26	104	3.4	12.8	140	79	6.1	0.06	0.03	32.4	0.10	0.36	26.0	2.4	1.07	D
	Jun-22	30°C	7.30	345	515	6.5	14.40	104	76	28	74	3.2	11.0	900	280	30	0.04	0.03	32.30	0.15	0.26	20.0	3.0	0.85	D
	Jul-22	28°C	7.50	340	506	6.8	15.0	102.6	80	22.6	84	3.5	14	280	110	25	0.03	0.02	36.40	0.16	0.30	14.2	4.9	0.60	D
	Aug-22	30°C	7.10	146	220	6.0	10.0	165	140	25	118	6.0	35.5	350	120	27	0.11	0.09	47.34	0.25	0.31	8.3	3.4	0.28	D
	Sep-22	28°C	8.10	139	211	6.1	9.0	160	114	46	137	5.0	23.8	430	170	33	0.15	0.07	53.11	0.23	0.25	13.4	8.0	0.45	D
	Oct-22	25°C	8.00	135	203	5.8	4.0	110	85	25	111	5.2	24.0	350	210	39	0.09	0.05	39.20	0.18	0.26	11.3	4.8	0.46	D
	Nov-22	24°C	8.10	236	356	5.6	7.0	296	210	86	209	5.2	26.0	430	350	47	0.13	0.09	43.11	0.18	0.23	13.8	7.5	0.34	D
	Dec-22	18°C	8.00	273	412	5.8	11.0	235	174	61	194	4.5	28.0	350	280	48	0.17	0.08	56.64	0.27	0.38	15.8	10.3	0.44	D

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

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Category
67	Jan-22	8°C	7.8	220	320	5.0	14.9	181.5	160.1	21.4	102	3.3	16	540	350	70	0.08	0.03	37.24	0.03	0.38	22.2	2.8	0.71	C
	Feb-22	22°C	7.50	220	330	5.4	18.0	160.2	120.1	40.1	120	3.0	12.0	430	220	63	0.07	0.005	13.74	0.26	0.028	22.8	3.0	0.78	B
	Mar-22	25°C	7.70	246	370	5.2	21.9	186.7	120.1	66.6	118	3.5	12	350	170	58	0.05	0.02	23.91	0.19	0.32	30	2.1	0.95	D
	Apr-22	28°C	7.70	246	368	5.0	20.0	188.6	130.4	58.2	122	3.6	14	280	130	48	0.07	0.06	26.80	0.22	0.40	30.02	2.80	0.94	D
	May-22	28°C	7.80	264	395	5.5	16.0	178	154	24	160	3.0	10	240	110	40	0.05	0.04	24.5	0.20	0.30	28.4	2.0	0.92	B
	Jun-22	River was Dry																							
	Jul-22	28°C	7.40	257	384	4.0	14.0	172.0	142	30	180	3.8	20	350	220	58	0.06	0.04	20.02	0.16	0.27	11.4	4.1	0.37	D
	Aug-22	30°C	7.50	141	215	4.2	9.0	148	140	08	161	3.6	22.0	280	170	63	0.13	0.04	28.88	0.18	0.36	11.3	3.4	0.40	D
	Sep-22	27°C	7.70	133	202	5.3	8.0	106	87	19	110	3.2	20.64	350	220	70	0.15	0.09	33.25	0.18	0.29	12.3	2.8	0.51	D
	Oct-22	25°C	7.90	166	253	7.6	5.0	130	102	28	177	2.8	15.0	430	240	84	0.16	0.06	27.30	0.20	0.30	16.1	5.5	0.61	B
	Nov-22	15°C	8.10	174	264	5.5	6.0	140	114	26	170	3.5	14.0	540	350	94	0.15	0.05	26.11	0.15	0.30	15.7	5.0	0.57	D



	Dec-22	19°C	7.70	159	240	5.6	8.0	261	190	71	161	3.2	16.0	920	430	84	0.13	0.03	26.32	0.20	0.32	17.7	7.8	0.47	D
<b>Dhella River D/S at Thakurdwara, Aliganj Road, US Nagar</b>																									
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
68	Jan-22	8°C	7.5	433	630	3.2	74.98	191.2	176.4	14.8	216	16	120	920	540	350	0.09	0.01	33.11	0.16	0.45	88.6	10.0	2.78	C
	Feb-22	22°C	7.50	431.4	644	3.4	80.94	194.4	180.3	14.1	214	16.0	112.0	540	350	430	0.09	0.021	57.83	0.20	0.18	87.8	10.1	2.73	E
	Mar-22	25°C	7.50	493	730	2.0	87.98	206	130	76	202	19.5	140	920	430	280	0.08	0.06	56.82	0.24	0.59	38	8.6	1.14	E
	Apr-22	28°C	7.60	500	760	2.2	88.64	214	150	64	200	16.8	134.4	540	280	150	0.08	0.07	57.72	0.26	0.54	42.0	8.20	1.24	E
	May-22	28°C	7.00	400	600	2.0	86.72	210	144	66	240	20	140	430	170	110	0.08	0.07	50.02	0.21	0.54	38.6	8.8	1.15	E
	Jun-22	30°C	7.00	509	760	1.5	90.12	220	160	60	228	26.0	176.0	920	540	140	0.08	0.06	60.64	0.30	0.60	50.0	11.20	1.46	E
	Jul-22	28°C	7.00	498	744	2.0	84.0	208.4	156.4	52	220	24	160	540	220	94	0.07	0.06	56.06	0.28	0.57	26.2	7.0	0.78	E
	Aug-22	31°C	7.30	253	381	1.4	64.0	218	160	58	206	22.0	176.0	350	210	84	0.10	0.03	35.33	0.13	0.22	55.6	6.6	1.63	E
	Sep-22	27°C	7.30	190	289	1.3	55.0	160	92	68	136	24.0	163.2	430	240	94	0.09	0.03	39.54	0.18	0.25	51.0	6.7	1.74	E
	Oct-22	26°C	7.40	230	346	2.6	29.0	160	140	20	178	23	220.0	540	280	94	0.15	0.08	63.58	0.30	0.39	45.8	8.5	1.57	E
	Nov-22	20°C	7.20	363	547	2.1	45.0	215	180	35	279	23.0	140.0	430	280	84	0.18	0.09	66.81	0.36	0.36	10.1	11.5	0.29	E
	Dec-22	19°C	7.30	190	287	2.2	20.0	279	183	96	214	22.0	140.0	540	350	70	0.11	0.02	31.50	0.16	0.29	81.9	13.9	2.12	E
<b>Bhella River U/S Kashipur, (U/S Ramnagar Road), US Nagar</b>																									
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
69	Jan-22	8°C	7.7	127	190	5.3	15.96	148.7	134.5	14.2	126	3.2	12	430	350	17	0.11	0.03	40.26	0.13	0.51	16.4	1.9	0.58	B
	Feb-22	22°C	7.70	134	200	5.2	17.3	142.16	128.4	13.76	128	3.4	16.0	350	240	21	0.13	0.004	17.04	0.12	0.69	16.8	1.8	0.61	D
	Mar-22	25°C	7.60	182	280	5.1	18.9	177.7	126.5	51.2	138	3.9	14	280	150	20	0.04	0.01	34.33	0.18	0.43	17.9	1.3	0.58	D
	Apr-22	28°C	7.50	190	286	5.3	18.2	164.8	122.4	42.4	126	3.4	12.0	240	140	20	0.05	0.02	30.20	0.16	0.50	19.90	1.60	0.67	D
	May-22	28°C	7.60	140	208	5.4	16.0	160	122	38	130	3.1	11.4	280	130	24	0.06	0.02	32.74	0.16	0.44	15.5	1.7	0.53	D
	Jun-22	River was Dry																							
	Jul-22	River was Dry																							
	Aug-22	River was Dry																							
	Sep-22	26°C	7.50	102	155	6.5	11.0	88	52	36	84	3.0	17.2	350	280	84	0.11	0.06	52.18	0.16	0.43	38.7	9.5	1.78	B
	Oct-22	24°C	7.50	140	215	6.4	7.0	102	85	17	131	3.0	13.0	430	240	84	0.17	0.05	57.24	0.22	0.41	25.2	7.2	1.08	B
	Nov-22	12°C	7.70	131	197	5.6	11.0	91	67	24	109	3.4	13.0	350	280	79	0.11	0.07	49.22	0.20	0.33	12.5	3.7	0.56	D
	Dec-22	16°C	7.50	120	182	5.7	14.0	312	209	103	198	2.8	13.0	430	220	70	0.09	0.05	44.31	0.28	0.25	12.7	5.3	0.31	B
<b>Bhella River at Lohia Bridge D/S Kashipur (D/S Lohiya Bridge), US Nagar</b>																									
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
70	Jan-22	8°C	7.7	263	400	3.6	80.9	215.7	184.1	31.6	208	15.5	100	280	120	58	0.07	0.02	35.13	0.14	0.53	32.4	5.8	0.95	B

	Feb-22	22°C	7.60	281	420	3.8	84.46	220.66	190.8	29.86	210	12.0	105.6	430	170	49	0.09	0.007	36.76	0.39	0.27	33.8	5.9	0.98	E
	Mar-22	25°C	7.80	328	510	2.1	90.97	215.85	183.38	32.47	222	17.0	120	350	220	33	0.09	0.05	68.14	0.26	0.54	46.5	6.5	1.37	E
	Apr-22	28°C	7.60	340	504	2.4	92.8	218.4	186.64	31.76	220	16	112	350	170	31	0.08	0.06	62.20	0.30	0.44	42.5	6.4	1.24	E
	May-22	28°C	7.30	313	467	2.2	88.0	204	176	28	216	18	120	350	150	33	0.08	0.07	66.14	0.24	0.54	40.0	6.6	1.21	E
	Jun-22	28°C	7.00	402	600	1.5	88.65	208	180.46	27.54	240	22.0	168.0	900	500	90	0.08	0.07	62.10	0.32	0.48	44.30	8.4	1.33	E
	Jul-22	28°C	7.20	392	586	1.8	84.52	205.3	164.8	40.5	200	20	150	430	170	63	0.08	0.07	42.2	0.30	0.46	47.7	9.4	1.44	E
	Aug-22	31°C	7.00	275	415	1.4	67.0	280	255	25	200	60.0	194.0	540	220	70	0.09	0.04	41.72	0.17	0.28	39.7	9.2	1.02	E
	Sep-22	25°C	7.40	158	239	1.0	56.0	175	160	15	149	50.0	136	540	350	94	0.13	0.05	48.33	0.20	0.23	46.2	13.1	1.51	E
	Oct-22	26°C	7.50	199	302	2.8	22.0	145	119	26	167	48.0	140.0	540	430	94	0.10	0.07	36.33	0.20	0.27	32.4	9.3	1.16	E
	Nov-22	22°C	7.40	218	328	2.6	24.0	231	121	110	173	22.0	120.0	430	350	94	0.11	0.04	50.24	0.18	0.31	19.3	8.0	0.55	E
	Dec-22	18°C	7.20	290	437	2.6	15.0	250	200	50	166	25.0	160.0	540	350	84	0.16	0.07	56.04	0.17	0.41	71.2	13.1	1.95	E

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

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Category
71	Jan-22	8°C	7.4	269	390	4.5	22.94	119.5	107.3	12.2	114	9.2	28	350	220	14	0.25	0.08	93.54	0.30	0.55	33.1	4.1	1.31	B
	Feb-22	21°C	7.40	268	400	6.0	20.02	110.2	100.34	9.86	100	10.0	30.0	280	220	17	0.03	0.05	94.81	0.14	0.26	30.8	3.9	1.27	D
	Mar-22	23°C	7.30	299	440	4.9	20.9	124.27	105.7	18.57	164	9.4	32	280	140	15	0.07	0.03	62.26	0.16	0.36	29.1	3.2	1.13	D
	Apr-22	28°C	7.50	290	420	6.5	18.8	120.6	102.1	18.5	134	8.6	30	220	130	14	0.04	0.02	66.64	0.12	0.28	26.2	3.05	1.03	D
	May-22	28°C	7.40	316	470	6.7	20.7	130	106	24	206	4.0	24	280	170	20	0.06	0.05	56.28	0.12	0.40	26.1	2.8	0.99	D
	Jun-22	30°C	7.00	402	600	4.5	22.84	160	120	40	184	10.0	40.0	920	540	220	0.07	0.06	70.66	0.34	0.44	30.22	3.8	1.03	D
	Jul-22	28°C	7.20	375	560	4.8	20.0	170.8	124	46.8	146	9.6	36	430	350	130	0.07	0.05	64.5	0.32	0.40	34	7.1	1.12	D
	Aug-22	27°C	7.30	340	512	4.6	24.0	407	220	187	408	11.0	44.0	430	170	110	0.18	0.03	84.73	0.16	0.20	43.5	10.9	0.93	D
	Sep-22	27°C	7.60	239	363	3.0	22.0	290	170	120	247	12.0	47.6	430	280	120	0.11	0.09	88.56	0.15	0.16	45.0	17.1	1.14	E
	Oct-22	25°C	7.60	292	442	2.8	18.0	280	230	50	292	11.0	40.0	350	280	110	0.11	0.04	70.11	0.20	0.22	30.1	5.0	0.78	E
	Nov-22	18°C	7.70	371	559	2.8	30.0	443	371	72	382	8.0	36.0	350	220	84	0.13	0.05	85.11	0.15	0.30	41.8	10.8	0.86	E
	Dec-22	15°C	7.30	491	739	2.9	19.0	480	441	39	414	9.0	44.0	430	240	70	0.11	0.04	79.19	0.20	0.33	78.5	49.8	1.55	E

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

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Category
72	Jan-22	10°C	7.3	210	310	6.5	17.9	151.9	120.9	31	82	3.2	10	170	70	1.8	0.08	0.03	37.54	0.15	0.40	20.7	1.6	0.72	B
	Feb-22	21°C	7.40	234.5	350	6.8	16.0	150	132	18	84	3.0	9.2	220	94	2.0	0.03	0.019	11.59	0.08	0.68	21.8	1.8	0.77	B
	Mar-22	25°C	7.30	206	290	6.2	17.9	146.81	92.89	53.92	98	3.1	14	210	84	3.6	0.03	0.01	34.10	0.17	0.45	16.0	1.1	0.57	D
	Apr-22	28°C	7.30	214	320	6.5	18.0	144.9	100	44.9	92	3.0	12	240	94	3.7	0.02	0.01	11.59	0.08	0.42	20.60	1.06	0.74	B
	May-22	River was Dry																							
	Jun-22	River Was Dry																							

Jul-22	28°C	7.20	234	350	6.1	20.0	172.0	144	28	160	3.2	14	240	94	25	0.06	0.05	16.3	0.12	0.56	18.4	1.9	0.60	D
Aug-22	28°C	7.60	111	172	6.4	16.0	120	98	22	120	3.2	11.0	280	110	26	0.11	0.07	12.48	0.17	0.26	6.9	1.9	0.27	D
Sep-22	27°C	8.20	103	157	6.2	13.0	97	54	43	70	3.6	13.76	240	84	46	0.15	0.09	18.26	0.19	0.28	7.5	2.3	0.32	D
Oct-22	26°C	7.80	116	176	7.2	8.0	121	85	36	150	3.2	12.0	280	94	48	0.13	0.03	15.36	0.20	0.25	10.3	2.3	0.40	D
Nov-22	24°C	8.40	136	203	6.8	6.0	115	93	22	160	2.8	11.0	350	84	46	0.13	0.07	15.33	0.20	0.33	11.6	2.7	0.46	B
Dec-22	River was Dry																							

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

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Category
73	Jan-22	10°C	7.4	232	350	6.1	19.9	146.8	134.5	12.3	134	3.5	14	350	220	2.0	0.09	0.03	20.33	0.17	0.42	18.6	1.5	0.66	B
	Feb-22	21°C	7.20	260	387	6.3	18.1	140.2	128.5	11.7	124	3.4	14.0	430	280	3.6	0.08	0.01	16.72	0.03	0.59	18.2	1.4	0.66	D
	Mar-22	25°C	7.50	282	410	6.0	21.9	129.42	88.08	41.34	140	3.5	14	350	170	4.0	0.03	0.01	30.44	0.13	0.43	23.1	1.3	0.88	D
	Apr-22	28°C	7.60	280	420	6.2	20.1	130.26	98.07	32.19	136	3.5	14	350	150	4.1	0.05	0.02	28.66	0.10	0.46	22.44	1.40	0.85	D
	May-22	28°C	7.50	268	400	7.0	18.8	151.8	80.2	29.8	160	3.0	10	280	110	4.5	0.02	0.01	26.48	0.10	0.38	20.2	1.2	0.83	B
	Jun-22	30°C	7.40	322	480	6.8	18.60	112.20	86	26.20	144	3.2	12.0	900	500	110	0.05	0.02	26.40	0.20	0.44	20.18	1.20	0.82	D
	Jul-22	28°C	7.50	306	458	5.8	18.6	134.62	100.02	34.6	174	3.6	18	350	220	84	0.08	0.07	30.42	0.24	0.40	18.0	2.4	0.67	D
	Aug-22	28°C	7.40	133	202	5.2	14.0	155	120	35	146	4.4	20.0	430	210	94	0.12	0.06	16.33	0.26	0.29	8.6	2.9	0.29	D
	Sep-22	28°C	7.90	77	118	4.2	11.0	70	60	10	87	4.8	20.64	540	170	110	0.15	0.08	18.36	0.21	0.36	9.7	3.5	0.50	D
	Oct-22	26°C	7.90	129	198	6.4	6.0	110	82	28	109	5.0	18.0	430	210	120	0.15	0.05	14.15	0.19	0.27	10.6	2.7	0.43	D
	Nov-22	23°C	7.50	197	298	6.2	5.0	154	120	34	222	4.0	22.0	540	220	110	0.18	0.03	20.63	0.15	0.26	12.7	3.4	0.44	D
	Dec-22	17°C	7.40	192	289	6.3	6.0	164	115	49	160	4.0	24.0	540	280	120	0.16	0.05	15.69	0.24	0.39	13.2	4.7	0.44	D

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

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Category
74	Jan-22	10°C	7.3	628	940	5.6	31.9	129.4	112.9	16.5	142	5.2	22	920	430	17	0.03	0.05	95.33	0.11	0.39	64.7	6.8	2.46	C
	Feb-22	22°C	7.30	650	970	6.0	28.08	120.6	106.9	13.7	136	5.2	20.0	920	540	20	0.05	0.07	79.30	0.18	0.53	62.8	6.6	2.48	D
	Mar-22	25°C	7.20	524	730	5.0	32.9	124.27	91.29	32.98	194	7.8	26	920	430	22	0.06	0.05	75.05	0.20	0.58	66.4	7.9	2.58	D
	Apr-22	28°C	7.40	536	800	6.1	30.1	126.48	98	28.48	186	7.0	22	920	350	24	0.05	0.04	78.06	0.16	0.56	64.2	7.10	2.47	D
	May-22	28°C	7.60	510	760	6.6	30.0	120	90.26	29.74	200	5.8	20	540	280	22	0.05	0.02	68.75	0.16	0.48	50.4	5.5	1.99	D
	Jun-22	30°C	7.20	469	700	6.2	28.20	130.34	100	30.34	206	6.7	22.0	920	540	220	0.06	0.05	75.08	0.18	0.58	66.3	7.0	2.51	D
	Jul-22	28°C	7.30	456	680	6.5	26.4	140.6	112	28.6	162	5.2	20	540	430	94	0.05	0.03	66.3	0.16	0.50	48.8	6.4	1.78	D
	Aug-22	31°C	7.40	197	300	4.3	22.0	190	150	40	150	12.0	52.8	540	350	84	0.17	0.09	100.17	0.24	0.41	30.6	4.4	0.96	D
	Sep-22	28°C	7.80	227	342	4.6	24.0	186	144	42	148	14.0	37.4	920	540	220	0.19	0.07	113.26	0.27	0.35	43.1	8.0	1.37	D
	Oct-22	25°C	7.80	145	221	4.4	14.0	151	132	19	131	13.0	68.0	920	430	240	0.13	0.10	13.54	0.17	0.41	27.7	8.8	0.97	D

	Nov-22	24°C	7.80	279	421	5.3	23.0	210	180	30	237	6.2	30.0	540	350	170	0.13	0.08	46.33	0.20	0.37	40.2	9.2	1.20	D
	Dec-22	18°C	7.60	312	470	5.2	11.0	205	114	91	240	6.0	32.0	430	280	150	0.15	0.07	88.49	0.28	0.47	63.4	13.9	1.91	D

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

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Category
75	Jan-22	10°C	7.6	310	440	4.6	27.9	131.3	113.7	17.6	124	7	24	220	130	12	0.03	0.06	115.26	0.13	0.43	20.4	2.5	0.77	B
	Feb-22	22°C	7.50	288	430	4.5	30	120.84	100.7	20.14	130	8.0	20.0	210	110	14	0.08	0.004	37.22	0.18	0.25	22.4	2.8	0.88	D
	Mar-22	25°C	7.60	325	480	4.3	28.9	130.71	94.49	36.22	134	7.0	20	240	130	17	0.04	0.02	45.29	0.08	0.31	18.4	2.2	0.69	D
	Apr-22	28°C	7.60	328	490	4.0	30.0	136.6	98	38.6	140	8.0	24	350	140	21	0.08	0.04	48.30	0.12	0.34	20.6	2.80	0.76	D
	May-22	28°C	7.30	300	445	3.0	30.8	180	152	28	134	10	32	350	130	24	0.07	0.05	48.50	0.10	0.36	26.48	3.5	0.85	E
	Jun-22	30°C	7.00	340	508	3.0	32.10	154.60	110	44.60	156	8.0	30.0	540	350	110	0.07	0.05	50.46	0.16	0.42	28.7	2.80	1.0	E
	Jul-22	28°C	7.60	360	540	3.6	28.4	148.7	110.5	38.2	206	6.0	24	350	130	84	0.06	0.04	46.5	0.15	0.40	19.5	2.8	0.69	E
	Aug-22	28°C	7.40	232	352	3.5	20.0	281	255	26	265	8.0	26.4	430	150	79	0.13	0.05	57.41	0.25	0.44	10.3	2.6	0.26	E
	Sep-22	28°C	7.90	210	319	5.2	23.0	265	140	125	204	7.6	24.08	430	170	63	0.10	0.08	55.33	0.21	0.39	11.5	3.1	0.30	D
	Oct-22	24°C	7.60	224	340	5.6	12.0	232	185	47	277	7.2	22.0	350	220	70	0.14	0.07	48.13	0.23	0.36	14.2	4.6	0.40	D
	Nov-22	24°C	8.00	245	370	3.8	9.0	261	220	41	280	6.2	16.0	280	220	79	0.15	0.06	50.26	0.20	0.40	12.9	4.6	0.34	E
	Dec-22	15°C	7.80	241	363	5.6	16.0	220	154	66	259	4.0	20.0	350	210	84	0.10	0.03	40.39	0.28	0.23	13.6	7.3	0.39	D

**River Kailash Downstream behind Sitarganj Industrial Area, US Nagar**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Category
76	Jan-22	10°C	7.4	492	730	2.9	85.98	213.7	201	12.7	220	19	140	920	430	150	0.05	0.05	83.15	0.09	0.39	84.2	19.6	2.50	C
	Feb-22	20°C	7.40	220	326	7.0	16.0	138.4	120	18.4	126	3.0	12.0	220	79	4.0	0.07	0.011	13.78	0.103	0.67	21.6	1.9	0.79	B
	Mar-22	25°C	7.40	209	310	6.3	18.9	139.08	87.28	51.8	124	3.3	12	280	84	5.5	0.03	0.01	31.09	0.15	0.32	18.3	1.4	0.67	D
	Apr-22	28°C	7.20	214	320	6.8	20	130	94.28	35.72	120	3.4	10	240	79	6.0	0.04	0.01	20.40	0.32	0.40	20.6	1.6	0.78	D
	May-22	30°C	7.00	200	298	8.0	16.0	110	86	24	100	2.5	10	280	84	6.8	0.02	0.01	26.40	0.12	0.34	18.0	1.6	0.74	B
	Jun-22	28°C	7.30	195	290	7.2	22.0	136	102	34	176	3.2	12.0	540	350	110	0.07	0.05	30.80	0.16	0.50	23.4	1.7	0.87	D
	Jul-22	28°C	7.40	186	278	7.5	18.6	123.8	98	25.8	168	2.8	9.0	350	130	58	0.05	0.02	26.5	0.21	0.46	13.3	3.3	0.51	B
	Aug-22	29°C	7.50	128	195	6.5	14.0	130	100	30	139	3.2	12.0	280	150	63	0.13	0.06	11.16	0.16	0.38	7.6	2.1	0.28	D
	Sep-22	27°C	8.00	187	283	6.2	12.0	198	115	83	165	4.0	10.2	350	140	79	0.16	0.08	15.33	0.20	0.41	8.8	2.9	0.27	D
	Oct-22	26°C	8.10	115	175	7.4	9.0	163	135	28	132	3.5	11.0	430	150	84	0.13	0.09	15.37	0.19	0.37	10.4	2.3	0.35	D
	Nov-22	23°C	8.00	174	262	6.6	7.0	141	130	11	185	2.8	13.0	350	240	79	0.11	0.05	15.63	0.18	0.33	12.2	2.7	0.44	B
	Dec-22	17°C	7.90	178	268	6.8	6.0	140	100	40	164	3.0	12.0	430	220	84	0.14	0.02	13.25	0.14	0.29	12.4	4.1	0.45	B

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

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Category
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77	Jan-22	10°C	7.5	212	310	6.2	19	156.4	137.7	18.7	112	3.4	14	170	84	3.7	0.05	0.03	30.13	0.15	0.38	20.3	1.7	0.70	B
	Feb-22	22°C	7.30	502	750	2.5	88.56	220.02	206.7	13.32	238	20.0	144	540	350	130	0.05	0.008	29.39	0.11	1.2	85.3	20.8	2.49	E
	Mar-22	25°C	7.50	518	710	2.0	97.47	214.4	121.7	92.7	242	22.5	160	540	430	140	0.08	0.05	86.89	0.28	0.54	65.8	15.4	1.94	E
	Apr-22	28°C	7.70	524	720	1.8	99.0	218.6	130.7	87.9	248	24	168	430	350	120	0.08	0.06	90.86	0.32	0.58	80.2	18.6	2.35	E
	May-22	28°C	7.00	440	660	1.5	98.6	230	142	88	240	28	190	540	220	94	0.08	0.06	88.64	0.30	0.64	70.64	15.8	2.01	E
	Jun-22	30°C	6.80	737	1100	1.0	98.0	230	168	62	260	34.0	220.0	920	540	430	0.08	0.07	94.90	0.38	0.64	90.2	19.5	2.57	E
	Jul-22	28°C	7.10	710	1060	1.0	90.84	226.4	156.4	70	224	32	216	430	280	94	0.08	0.05	90.76	0.36	0.64	70.6	16.1	2.03	E
	Aug-22	31°C	7.30	244	368	1.4	68.0	263	225	38	292	28.0	211.0	540	240	84	0.16	0.08	30.81	0.18	0.29	30.2	6.7	0.80	E
	Sep-22	28°C	7.00	219	331	0.8	59.0	199	120	79	240	26.0	204	920	350	94	0.18	0.09	29.37	0.20	0.31	40.0	8.3	1.22	E
	Oct-22	26°C	7.30	265	399	3.0	28.0	230	195	35	265	28.0	200.0	920	430	110	0.13	0.08	36.33	0.20	0.31	30.5	9.9	0.87	E
	Nov-22	24°C	7.20	297	447	2.3	35.0	301	261	40	293	26.0	180.0	540	430	120	0.11	0.09	59.26	0.28	0.26	45.9	10.8	1.14	E
	Dec-22	16°C	7.10	248	374	2.4	30.0	187	138	49	230	22.0	140.0	920	350	150	0.07	0.03	59.72	0.17	0.32	36.6	10.8	1.16	E

**River Kosi D/S near Khairna- Ranikhet Bridge, Almora**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Category
78	Jan-22	10°C	7.35	166	230	8.2	17	234	132	102	168	1.4	5.0	130	63	1.8	0.08	0.03	13.54	0.27	0.40	13.5	4.6	0.38	B
	Feb-22	10°C	7.72	174	210	8.6	1	226	124	102	172	1.2	5.0	150	70	2.0	0.07	0.006	17.80	0.49	0.52	13.8	4.7	0.39	B
	Mar-22	11°C	7.66	153	220	8.0	23	240	128	112	184	1.6	6.0	170	63	4.0	0.06	0.004	15.97	0.38	0.41	12.5	4.1	0.34	B
	Apr-22	17°C	7.15	143	210	8.6	19	218	116	102	176	1.6	6.0	210	70	5.5	0.10	0.05	18.37	0.11	0.30	19.5	2.4	0.57	B
	May-22	18°C	7.92	133	190	8.6	25.0	230	122	108	174	2.2	7.0	240	79	6.1	0.08	0.05	13.27	0.21	0.31	6.5	3.7	0.18	B
	Jun-22	20°C	7.53	148	210	8.8	21.0	244	132	112	188	2.0	6.0	210	70	5.6	0.08	0.01	64.08	0.03	0.22	19.8	5.5	0.54	B
	Jul-22	18°C	7.13	129	160	9.0	17	202	110	92	176	1.8	5.0	220	84	5.5	0.06	0.04	68.25	0.05	0.23	6.3	2.3	0.19	B
	Aug-22	17°C	7.51	141	190	9.0	13.0	212	116	96	188	1.4	5.0	240	94	9.3	0.11	0.06	49.36	0.18	0.39	7.0	2.9	0.20	B
	Sep-22	19°C	7.38	135	210	9.0	19.0	220	118	102	182	1.6	6.0	280	120	14	0.11	0.04	55.37	0.22	0.36	8.1	0.8	0.23	B
	Oct-22	17°C	8.11	139	210	9.2	15.0	208	110	98	174	2.4	7.0	240	150	17	0.12	0.05	48.25	0.15	0.30	7.6	1.2	0.22	B
	Nov-22	16°C	7.79	163	230	9.4	25.0	206	108	98	196	2.0	6.0	220	130	14	0.11	0.08	55.26	0.18	0.27	5.8	3.3	0.17	B
	Dec-22	13°C	7.24	157	230	9.2	17.0	238	136	102	184	1.6	6.0	170	120	12	0.11	0.03	55.68	0.20	0.31	13.1	5.0	0.36	B

**River Saryu D/S Near Bilona Bridge, Bageshwar**

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Category
79	Jan-22	11°C	7.52	153	180	8.0	21	218	124	94	176	1.2	6.0	120	58	1.8	0.05	0.02	17.13	0.13	0.43	16.9	4.4	0.49	B
	Feb-22	11°C	7.15	161	190	8.2	24	216	128	88	164	1.8	6.0	140	63	1.8	0.03	0.002	7.38	0.21	0.58	16.2	4.2	0.47	B
	Mar-22	12°C	7.34	169	240	8.0	19	228	132	96	178	1.2	5.0	150	70	2.0	0.02	0.003	6.53	0.16	0.45	14.9	3.8	0.42	B
	Apr-22	18°C	7.63	158	230	8.8	23	224	132	92	188	2.0	6.0	170	79	3.7	0.11	0.07	15.90	0.15	0.27	8.6	1.0	0.24	B

May-22	20°C	7.75	146	210	8.4	21.0	232	128	104	182	2.0	7.0	150	70	4.0	0.08	0.05	23.22	0.19	0.41	5.7	4.1	0.16	B
Jun-22	21°C	7.18	155	230	8.4	17.0	226	118	108	176	1.8	6.0	140	84	5.5	0.04	0.02	59.49	0.08	0.41	3.9	2.7	0.11	B
Jul-22	18°C	7.95	136	180	9.0	15	192	108	84	162	1.6	4.0	150	94	6.1	0.07	0.05	61.26	0.07	0.16	4.3	3.0	0.13	B
Aug-22	17°C	7.95	111	160	8.8	11.0	182	94	88	176	1.2	5.0	170	84	8.2	0.11	0.05	43.25	0.19	0.36	7.4	3.1	0.23	B
Sep-22	18°C	7.12	127	190	9.2	15.0	208	112	96	168	1.8	5.0	210	94	12	0.14	0.07	45.20	0.21	0.36	11.3	0.6	0.33	B
Oct-22	Monitoring Not Done.																							
Nov-22	16°C	7.51	135	210	9.4	21.0	226	124	102	154	1.8	6.0	170	84	11	0.16	0.09	58.16	0.18	0.33	10.8	3.7	0.31	B
Dec-22	14°C	8.13	163	240	9.2	25.0	224	118	106	172	1.2	5.0	150	70	9.3	0.08	0.02	66.31	0.21	0.35	8.1	3.3	0.23	B