

River Alaknanda at Badrinath																									
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
1	May-24	08°C	7.72	24	39	11.4	1.0	40	33	07	32	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.01	9.52	0.08	0.11	1.4	1.0	0.10	A
River Alaknanda at Govindghat																									
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
2	Sep-24	13°C	7.5	35	55	11	4	50	40		45	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.01	9.10	0.08	0.07	1.9	1.3	0.12	A
River Alaknanda B/C River Dhaulti 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 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
3	Jan-24	08°C	7.45	28	43	12.0	2.0	30	22	08	27	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	10.63	0.07	0.10	1.3	1.0	0.10	A
	Feb-24	07°C	7.62	33	51	11.8	3.0	36	26	10	31	1.0	4.0	<1.8	<1.8	<1.8	0.01	0.01	12.20	0.09	0.13	1.6	1.2	0.12	A
	Mar-24	07°C	7.50	30	47	11.6	4.0	34	22	12	32	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.01	13.40	0.08	0.12	1.9	1.4	0.14	A
	Apr-24	14°C	7.58	27	43	11.4	3.0	29	19	10	28	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.01	12.32	0.07	0.10	1.6	1.2	0.13	A
	May-24	11°C	7.69	38	59	11.0	4.0	47	37	10	40	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.02	11.62	0.06	0.09	1.9	1.3	0.12	A
	Jun-24	14°C	7.64	35	55	11.2	4.0	43	35	08	42	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.02	10.59	0.06	0.09	1.8	1.2	0.12	A
	Jul-24	15°C	7.88	40	62	11.0	5.0	50	38	12	45	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.03	10.36	0.08	0.09	2.0	1.5	0.12	A
	Aug-24	14°C	7.75	43	70	10.8	6	55	43	12	50	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.02	11.21	0.11	0.07	2.6	1.9	0.12	A
	Sep-24	14°C	7.2	45	74	11	5.0	49	40	9	45	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.03	0.01	12.92	0.07	0.15	2.3	1.8	0.11	A
	Oct-24	19°C	7.69	72	112	11	5	54	39	15	33	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.03	0.01	12.69	0.07	0.14	2.4	1.8	0.11	A
River Dhaulti 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 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
4	Jan-24	08°C	7.88	75	115	11.4	4.0	82	58	24	79	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.01	13.25	0.09	0.09	1.8	1.5	0.09	A
	Feb-24	06°C	8.07	84	128	11.2	5.0	89	61	28	87	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.02	11.42	0.11	0.07	2.2	1.8	0.10	A
	Mar-24	06°C	7.93	93	143	11.0	6.0	99	67	32	95	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.03	12.33	0.09	0.09	2.4	2.1	0.10	A
	Apr-24	13°C	7.80	80	122	11.0	5.0	85	57	28	82	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	11.25	0.06	0.07	2.1	1.9	0.10	A
	May-24	09°C	7.98	98	149	10.8	6.0	106	82	24	96	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.01	11.68	0.08	0.11	2.6	2.1	0.11	A
	Jun-24	15°C	7.95	96	147	11.0	6.0	104	80	24	90	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.02	10.87	0.07	0.10	2.8	2.0	0.12	A
	Jul-24	14°C	8.09	101	153	10.8	7.0	109	83	26	95	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.05	0.02	10.95	0.09	0.11	3.1	2.5	0.13	A
	Aug-24	13°C	8.02	93	151	11	6	120	80	40	90	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.05	0.03	11.00	0.08	0.10	3.2	2.8	0.09	A
	Sep-24	14°C	7.94	69	109	11.1	6	102	77	25	88	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.03	14.89	0.08	0.14	3.1	2.6	0.08	A
	Oct-24	18°C	7.92	83	131	11.1	5	105	87	18	73	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.03	14.23	0.08	0.15	3.1	2.6	0.08	A
River Alaknanda A/C River Dhaulti 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 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
5	Jan-24	07°C	7.70	58	88	11.8	3.0	67	48	19	60	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	12.82	0.11	0.11	1.4	1.3	0.07	A
	Feb-24	06°C	7.89	63	95	11.6	4.0	70	50	20	65	1.0	4.0	<1.8	<1.8	<1.8	0.02	0.01	11.69	0.07	0.09	1.7	1.5	0.09	A
	Mar-24	07°C	7.77	70	107	11.4	5.0	75	52	23	69	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.02	10.94	0.09	0.11	2.0	1.7	0.10	A
	Apr-24	13°C	7.66	59	91	11.2	5.0	62	44	18	60	1.0	4.0	<1.8	<1.8	<1.8	0.02	0.01	9.79	0.05	0.07	1.8	1.4	0.10	A

	May-24	10°C	7.80	73	110	11.0	5.0	79	59	20	75	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.03	10.41	0.06	0.09	2.1	1.6	0.10	A
	Jun-24	15°C	7.77	92	139	11.0	5.0	72	52	20	78	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.02	11.24	0.06	0.10	2.0	1.8	0.10	A
	Jul-24	15°C	7.92	98	150	10.8	6.0	80	56	24	84	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.04	0.03	11.02	0.07	0.09	2.4	2.2	0.12	A
	Aug-24	14°C	7.99	95	153	11	5	90	60	30	84	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.02	10.85	0.08	0.07	2.9	2.1	0.08	A
	Sep-24	13°C	7.57	51	80	10.9	5	84	57	27	61	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.04	15.02	0.11	0.18	2.7	2	0.08	A
	Oct-24	19°C	7.7	78	126	11.2	5	87	64	23	60	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.04	14.88	0.11	0.19	2.9	2	0.08	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 Criteria
6	Jan-24	09°C	7.91	72	110	11.4	3.0	73	51	22	68	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.03	10.31	0.12	0.13	1.7	1.4	0.09	A
	Feb-24	08°C	8.02	78	119	11.2	4.0	81	57	24	72	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.02	11.63	0.08	0.16	2.0	1.7	0.10	A
	Mar-24	08°C	7.95	90	138	11.0	5.0	92	65	27	82	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	13.41	0.09	0.14	2.4	2.0	0.11	A
	Apr-24	16°C	7.82	82	124	10.8	6.0	86	62	24	77	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.03	11.46	0.08	0.06	2.2	1.7	0.10	A
	May-24	17°C	7.95	92	140	10.6	6.0	96	71	25	87	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	10.57	0.09	0.12	2.6	1.9	0.12	A
	Jun-24	17°C	7.90	90	137	10.8	6.0	94	69	25	84	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	11.97	0.09	0.10	2.7	1.7	0.12	A
	Jul-24	12°C	7.97	95	145	10.6	7.0	98	71	27	90	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.04	0.02	10.25	0.08	0.12	3.0	2.3	0.13	A
	Aug-24	12°C	7.86	90	144	10.6	6	105	75	30	90	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.04	0.01	10.92	0.09	0.10	3.1	2.2	0.09	A
	Sep-24	18°C	7.97	64	102	10.8	5	74	59	15	64	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.04	13.98	0.09	0.14	2.9	2.1	0.08	A
	Oct-24	18°C	7.79	96	151	10.8	5	96	75	21	67	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.04	14.25	0.09	0.14	3	2.1	0.09	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 Criteria
7	Jan-24	10°C	8.03	48	73	11.0	2.0	54	44	10	51	1.0	4.0	26	22	<1.8	0.04	0.02	10.20	0.09	0.09	1.8	1.6	0.11	A
	Feb-24	09°C	7.94	53	81	10.8	3.0	56	42	14	54	1.0	4.0	34	27	<1.8	0.03	0.01	11.30	0.07	0.10	2.1	1.8	0.12	A
	Mar-24	09°C	7.81	48	73	10.6	4.0	52	40	12	50	1.0	4.0	22	17	<1.8	0.05	0.02	12.43	0.14	0.11	2.3	1.9	0.14	A
	Apr-24	17°C	7.69	51	78	10.4	5.0	56	46	10	53	1.0	4.0	32	26	<1.8	0.03	0.03	11.64	0.09	0.08	2.1	1.8	0.12	A
	May-24	14°C	7.52	59	90	10.6	4.0	63	55	08	60	1.0	4.0	21	17	<1.8	0.04	0.01	10.96	0.11	0.11	2.4	2.0	0.13	A
	Jun-24	16°C	7.54	57	87	10.8	4.0	60	50	10	55	1.0	4.0	26	17	<1.8	0.03	0.01	11.87	0.10	0.10	2.8	2.0	0.16	A
	Jul-24	13°C	7.66	61	94	10.4	5.0	65	52	13	59	BDL (<1)	BDL (<5)	38	17	<1.8	0.05	0.02	10.55	0.12	0.11	3.1	2.4	0.17	A
	Aug-24	13°C	7.75	65	102	10.2	7	70	60	10	62	BDL (<1)	BDL (<5)	26	22	<1.8	0.07	0.03	9.68	0.10	0.09	3.2	2.3	0.1	A
	Sep-24	17°C	7.51	58	90	10.4	6	61	43	18	51	BDL (<1)	BDL (<5)	26	21	<1.8	0.09	0.05	12.92	0.09	0.17	3.1	2.4	0.1	A
	Oct-24	20°C	7.92	81	130	10.9	4	68	48	20	54	BDL (<1)	BDL (<5)	27	22	<1.8	0.09	0.05	13.42	0.09	0.16	2.9	2.2	0.09	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 Criteria
8	Jan-24	09°C	7.99	63	97	11.2	3.0	70	53	17	66	1.0	4.0	<1.8	<1.8	<1.8	0.02	0.01	11.73	0.10	0.14	1.6	1.3	0.08	A
	Feb-24	08°C	8.10	69	105	11.0	4.0	74	55	19	70	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.02	12.85	0.07	0.09	1.9	1.6	0.10	A
	Mar-24	08°C	7.90	80	123	10.8	4.0	83	62	21	76	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	14.61	0.12	0.08	2.2	1.9	0.10	A
	Apr-24	16°C	7.73	72	110	10.6	5.0	76	57	19	70	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.01	12.96	0.09	0.09	2.1	1.7	0.10	A

	May-24	16°C	7.79	81	124	10.4	6.0	85	64	21	78	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.03	10.99	0.07	0.08	2.7	2.1	0.13	A
	Jun-24	16°C	7.81	78	118	10.6	5.0	83	62	21	76	1.0	4.0	<1.8	<1.8	<1.8	0.07	0.02	11.78	0.07	0.06	2.5	2.0	0.12	A
	Jul-24	13°C	7.71	84	129	10.6	6.0	88	65	23	80	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.04	10.3	0.09	0.08	2.8	2.2	0.13	A
	Aug-24	13°C	7.76	87	140	10.4	5	92	68	24	81	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.03	10.84	0.08	0.09	2.9	2.1	0.09	A
	Sep-24	18°C	7.65	57	89	10.5	5	69	45	24	48	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.03	13.19	0.10	0.13	2.8	2.2	0.09	A
	Oct-24	20°C	7.86	92	149	10.8	5	84	58	26	61	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.03	13.83	0.10	0.14	2.9	2.1	0.09	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 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
9	Jan-24	10°C	8.06	70	106	11.0	3.0	78	62	16	72	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	12.48	0.09	0.10	1.3	1.1	0.06	A
	Feb-24	08°C	8.19	79	120	10.8	3.0	83	66	17	81	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.02	13.41	0.06	0.13	1.7	1.3	0.08	A
	Mar-24	08°C	7.79	98	149	10.6	4.0	99	79	20	90	1.0	4.0	<1.8	<1.8	<1.8	0.02	0.01	15.24	0.13	0.12	2.0	1.7	0.09	A
	Apr-24	12°C	7.60	86	131	10.6	4.0	88	71	17	80	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.02	13.66	0.10	0.10	2.2	1.9	0.10	A
	May-24	19°C	7.68	97	147	10.4	5.0	99	76	23	89	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.02	12.05	0.08	0.13	2.9	2.3	0.13	A
	Jun-24	14°C	7.67	96	146	10.4	6.0	97	74	23	87	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.01	11.68	0.07	0.13	2.8	2.2	0.12	A
	Jul-24	14°C	7.8	99	151	10.4	6.0	101	76	25	92	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.03	11.53	0.09	0.13	3.0	2.5	0.13	A
	Aug-24	15°C	8.02	90	142	10.8	6	105	72	33	97	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.04	0.01	11.21	0.08	0.11	2.8	2.3	0.08	A
	Sep-24	20°C	7.78	56	88	10.6	6	71	56	15	62	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.03	12.96	0.13	0.10	2.7	2.1	0.08	A
	Oct-24	20°C	7.95	95	154	10.4	4	91	69	22	63	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.03	13.09	0.13	0.12	3	2.1	0.09	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 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
10	Jan-24	11°C	8.18	79	120	10.4	3.0	95	71	24	86	1.0	4.0	27	22	<1.8	0.06	0.04	11.98	0.07	0.09	2.0	1.8	0.09	A
	Feb-24	09°C	8.04	85	129	10.2	4.0	97	75	22	90	1.0	4.0	22	17	<1.8	0.05	0.02	12.42	0.12	0.12	2.4	2.0	0.11	A
	Mar-24	09°C	7.87	95	145	9.8	6.0	102	77	25	97	1.0	4.0	26	22	<1.8	0.03	0.01	13.68	0.12	0.14	2.8	2.3	0.12	A
	Apr-24	13°C	7.75	80	122	10.0	5.0	85	65	20	83	1.0	4.0	39	27	<1.8	0.05	0.02	11.69	0.08	0.09	2.5	2.1	0.12	A
	May-24	18°C	7.91	94	142	9.8	6.0	98	73	25	96	1.0	4.0	32	26	<1.8	0.09	0.04	11.20	0.12	0.12	3.0	2.5	0.13	A
	Jun-24	15°C	7.94	92	140	9.6	6.0	96	77	19	99	1.0	4.0	26	22	<1.8	0.08	0.03	12.69	0.10	0.10	3.3	2.4	0.15	A
	Jul-24	15°C	7.99	103	157	9.4	7.0	106	83	23	103	BDL (<1)	BDL (<5)	40	22	<1.8	0.08	0.05	11.00	0.13	0.12	3.7	2.8	0.16	A
	Aug-24	16°C	7.83	102	160	9.6	6	110	80	30	98	BDL (<1)	BDL (<5)	39	33	<1.8	0.05	0.02	10.88	0.11	0.10	3.4	2.8	0.1	A
	Sep-24	19°C	7.86	74	114	10.1	5	78	59	19	62	BDL (<1)	BDL (<5)	33	23	<1.8	0.05	0.02	14.58	0.11	0.15	3.2	2.7	0.09	A
	Oct-24	20°C	8.13	108	175	10	5	106	84	22	92	BDL (<1)	BDL (<5)	34	27	<1.8	0.06	0.02	14.77	0.11	0.13	3.3	2.9	0.09	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 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
11	Jan-24	10°C	8.10	75	115	11.0	2.0	88	69	19	81	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.02	10.82	0.09	0.08	1.7	1.4	0.08	A
	Feb-24	08°C	8.16	81	123	10.8	3.0	92	71	21	88	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.03	11.48	0.09	0.11	2.0	1.6	0.09	A
	Mar-24	08°C	7.85	92	140	10.4	5.0	98	75	23	95	1.0	4.0	<1.8	<1.8	<1.8	0.02	0.01	12.53	0.11	0.13	2.4	1.9	0.11	A

	Apr-24	12°C	7.69	82	125	10.4	4.0	87	68	19	85	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	11.70	0.09	0.10	2.3	1.7	0.11	A
	May-24	18°C	7.83	99	151	10.2	5.0	105	81	24	102	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	10.78	0.11	0.08	2.8	2.1	0.12	A
	Jun-24	16°C	7.80	96	148	10.0	5.0	107	84	23	104	1.0	4.0	<1.8	<1.8	<1.8	0.02	0.01	12.18	0.10	0.07	2.9	2.3	0.12	A
	Jul-24	15°C	7.88	98	148	10.0	6.0	110	82	28	107	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.05	0.02	10.05	0.13	0.08	3.2	2.5	0.13	A
	Aug-24	16°C	7.92	92	146	9.8	5	115	76	39	108	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.03	9.72	0.11	0.10	3.1	2.4	0.09	A
	Sep-24	19°C	7.8	63	101	10.2	5	75	61	14	63	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.03	0.02	14.02	0.09	0.14	2.9	2.6	0.08	A
	Oct-24	20°C	7.94	97	157	10.2	5	102	79	23	71	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.04	0.02	14.28	0.09	0.16	3.2	2.5	0.09	A
<b>River Mandakini at Kedarnath</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 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
12	May-24	14°C	7.83	18	30	11.6	1.0	22	17	05	20	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	6.52	0.07	0.11	1.3	1.0	0.12	A
<b>River Mandakini at Gaurikund</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 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
13	Aug-24	12°C	7.68	26	38	10.8	2	28	18	10	23	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.01	7.92	0.09	0.08	2.6	2.3	0.21	A
<b>River Mandakini at Sonprayag</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 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
14	Aug-24	14°C	7.63	28	42	10.6	3	37	24	13	35	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.03	8.11	0.1	0.1	2.7	2.2	0.12	A
<b>River Mandakini B/C River Alaknanda at Rudraprayag</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 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
15	Jan-24	07°C	7.68	51	78	11.2	3.0	61	48	13	57	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.02	18.63	0.14	0.19	2.6	2.2	0.14	A
	Feb-24	08°C	7.75	60	92	11.0	3.0	67	52	15	61	1.0	4.0	<1.8	<1.8	<1.8	0.13	0.04	19.52	0.13	0.12	2.8	2.4	0.15	A
	Mar-24	13°C	7.83	46	71	10.8	5.0	51	38	13	48	1.0	4.0	<1.8	<1.8	<1.8	0.11	0.03	18.39	0.10	0.09	3.0	2.7	0.18	A
	Apr-24	12°C	7.52	50	77	10.6	5.0	54	42	12	52	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.04	17.46	0.13	0.10	2.7	2.5	0.16	A
	May-24	19°C	7.73	59	90	10.4	6.0	61	48	13	57	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.03	10.82	0.11	0.12	2.9	2.6	0.16	A
	Jun-24	18°C	7.79	54	82	10.6	6.0	64	45	19	59	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.04	12.16	0.10	0.12	2.8	2.4	0.15	A
	Jul-24	13°C	7.56	55	80	10.1	5.0	69	47	22	55	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.04	10.55	0.10	0.14	2.4	2.6	0.12	A
	Aug-24	16°C	7.59	67	102	10.0	4.5	58	35	23	52	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.05	10.21	0.09	0.11	2.6	2.2	0.07	A
	Sep-24	16°C	7.57	55	89	10.6	4.0	54	36	18	38	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.02	22.96	0.09	0.13	2.5	2.1	0.07	A
	Oct-24	21°C	8.18	55	88	10.8	6.0	63	52	11	55	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.02	23.14	0.09	0.14	2.6	2.9	0.07	A
<b>River Alaknanda B/C River Mandakini at Rudraprayag</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 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
16	Jan-24	08°C	8.04	86	129	10.8	3.0	96	75	21	88	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.01	17.28	0.12	0.17	2.0	1.6	0.09	A
	Feb-24	09°C	7.91	98	149	10.8	4.0	104	79	25	99	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.04	20.41	0.11	0.11	2.3	2.0	0.10	A
	Mar-24	12°C	7.73	85	130	10.6	4.0	91	70	21	88	1.0	4.0	<1.8	<1.8	<1.8	0.13	0.05	19.49	0.11	0.10	2.6	2.2	0.12	A
	Apr-24	13°C	7.59	89	135	10.4	5.0	93	75	18	91	1.0	4.0	<1.8	<1.8	<1.8	0.11	0.03	18.42	0.09	0.10	2.8	2.0	0.13	A
	May-24	19°C	7.90	113	172	10.2	6.0	116	89	27	114	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.01	14.18	0.13	0.13	3.2	2.4	0.13	A

	Jun-24	19°C	7.88	110	167	10.0	6.0	119	87	32	108	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.02	13.92	0.13	0.12	3.4	2.7	0.14	A
	Jul-24	14°C	7.62	115	168	9.9	6.0	128	89	39	110	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.02	14.02	0.09	0.12	2.2	2.8	0.11	A
	Aug-24	15°C	7.62	110	171	9.9	5.0	110	57	53	96	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.03	13.82	0.11	0.10	2.3	2.7	0.07	A
	Sep-24	20°C	7.51	64	101	10	5.0	75	61	14	64	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.03	23.66	0.11	0.10	2.4	2.6	0.07	A
	Oct-24	21°C	8.27	93	150	10.7	5.0	75	61	14	62	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.03	23.70	0.11	0.12	2.6	2.8	0.08	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 Criteria
17	Jan-24	07°C	7.93	72	110	11.0	3.0	87	69	18	79	1.0	4.0	<1.8	<1.8	<1.8	0.11	0.02	20.43	0.13	0.20	2.2	2.0	0.10	A
	Feb-24	08°C	7.80	85	130	10.8	4.0	95	72	23	89	1.0	4.0	<1.8	<1.8	<1.8	0.12	0.03	21.96	0.12	0.13	2.6	2.3	0.12	A
	Mar-24	12°C	7.61	80	123	10.6	5.0	86	66	20	77	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.03	19.85	0.08	0.11	2.9	2.5	0.14	A
	Apr-24	13°C	7.56	76	116	10.6	4.0	80	64	16	74	1.0	4.0	<1.8	<1.8	<1.8	0.12	0.02	18.77	0.10	0.09	3.0	2.3	0.15	A
	May-24	18°C	7.82	95	145	10.4	5.0	98	76	22	92	1.0	4.0	<1.8	<1.8	<1.8	0.12	0.04	13.55	0.09	0.11	3.3	2.5	0.14	A
	Jun-24	18°C	7.81	97	148	10.2	5.0	100	80	20	96	1.0	4.0	<1.8	<1.8	<1.8	0.13	0.05	14.97	0.10	0.11	3.8	2.9	0.16	A
	Jul-24	13°C	7.59	101	158	10.0	5.0	104	82	22	98	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.10	0.02	12.96	0.10	0.09	2.7	2.9	0.12	A
	Aug-24	15°C	7.66	98	155	9.8	4.8	98	52	46	86	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.11	0.03	12.65	0.12	0.10	2.4	2.3	0.07	A
	Sep-24	20°C	7.64	61	98	9.9	5.0	71	51	20	53	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.03	23.10	0.12	0.12	2.6	2.4	0.07	A
	Oct-24	21°C	8.16	66	99	10.6	5.0	71	59	12	60	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.03	23.34	0.12	0.13	2.7	2.8	0.08	A

**River Mandakini D/S at Agustuni, 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 Criteria
18	Jan-24	07°C	7.54	40	61	11.6	2.0	55	40	15	48	1.0	4.0	<1.8	<1.8	<1.8	0.12	0.04	18.93	0.16	0.15	2.1	1.9	0.12	A
	Feb-24	07°C	7.66	47	72	11.4	3.0	59	42	17	52	1.0	4.0	<1.8	<1.8	<1.8	0.10	0.06	22.43	0.09	0.10	2.4	2.1	0.14	A
	Mar-24	14°C	7.70	35	54	11.0	4.0	44	30	14	40	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.03	20.39	0.06	0.08	2.7	2.3	0.18	A
	Apr-24	14°C	7.44	40	61	10.8	5.0	46	33	13	43	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.01	19.74	0.09	0.11	2.2	1.9	0.14	A
	May-24	19°C	7.63	48	73	10.6	5.0	52	41	11	50	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.03	16.70	0.11	0.12	2.6	2.2	0.16	A
	Jun-24	19°C	7.70	32	50	10.6	5.0	56	47	09	54	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.03	18.97	0.11	0.10	2.4	1.3	0.14	A
	Jul-24	13°C	7.68	57	88	10.3	5.0	59	45	14	52	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.04	15.52	0.12	0.10	1.9	2.4	0.14	A
	Aug-24	17°C	7.66	62	92	10.1	4.0	45	29	16	41	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.02	16.1	0.1	0.09	2.5	2.1	0.08	A
	Sep-24	18°C	7.54	56	90	10.7	4.0	49	24	25	29	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.03	23.49	0.11	0.11	2.8	2.3	0.09	A
	Oct-24	20°C	8.26	53	86	11.0	5.0	61	50	11	61	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.03	23.26	0.11	0.13	2.7	2.3	0.09	A

**River Bhagirathi U/S at Gangotri**

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
19	May-24	10°C	8.11	44	67	11.2	2.0	47	38	09	39	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.01	7.25	0.08	0.09	2.0	1.7	0.13	A

**River Yamuna U/S at Yamunotri**

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
20	May-24	14°C	7.69	20	33	11.4	2.0	26	21	05	22	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.01	9.11	0.09	0.06	1.6	1.2	0.14	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 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	
21	May-24	15°C	7.55	39	61	11.0	3.0	41	33	08	35	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.01	8.11	0.07	0.09	2.1	1.6	0.14	A	
<b>River Bhagirathi D/S at Uttarkashi, Uttarkasi District</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	
22	Jan-24	16°C	7.85	59	91	10.8	2.0	63	48	15	57	1.0	4.0	47	39	<1.8	0.08	0.03	20.11	0.15	0.20	2.8	2.3	0.15	A	
	Feb-24	12°C	7.71	66	99	10.6	3.0	72	54	18	63	1.0	4.0	48	40	<1.8	0.11	0.02	21.52	0.13	0.17	3.3	2.7	0.17	A	
	Mar-24	14°C	7.65	75	114	10.4	4.0	79	63	16	71	1.0	4.0	41	34	<1.8	0.07	0.03	20.11	0.10	0.09	3.1	2.4	0.15	A	
	Apr-24	20°C	7.79	83	127	10.2	5.0	88	69	19	81	1.0	4.0	48	41	<1.8	0.09	0.04	17.60	0.09	0.11	2.9	2.1	0.13	A	
	May-24	18°C	7.90	96	146	10.0	6.0	99	75	24	90	1.0	4.0	47	40	<1.8	0.11	0.05	19.46	0.08	0.15	3.3	2.3	0.14	A	
	Jun-24	17°C	7.87	90	137	10.0	6.0	101	80	21	94	1.0	4.0	46	33	<1.8	0.13	0.07	21.22	0.08	0.15	3.8	2.6	0.16	A	
	Jul-24	15°C	7.55	70	102	10.8	4.0	55	38	17	40	BDL (<1)	BDL (<5)	47	40	<1.8	0.09	0.04	17.63	0.07	0.13	1.8	3.1	0.10	A	
	Aug-24	14°C	7.44	64	107	10.1	3.8	57	38	19	41	BDL (<1)	BDL (<5)	48	41	<1.8	0.09	0.03	13.42	0.09	0.10	2.6	3.3	0.15	A	
	Sep-24	19°C	7.42	66	104	10.2	5.0	59	35	24	38	BDL (<1)	BDL (<5)	33	27	<1.8	0.04	0.03	18.93	0.13	0.14	2.7	3.2	0.15	A	
	Oct-24	19°C	7.57	58	91	10.2	5.0	66	51	15	53	BDL (<1)	BDL (<5)	41	24	<1.8	0.04	0.03	20.06	0.13	0.15	2.4	3.1	0.13	A	
<b>River Yamuna at Barkot</b>																										
23	Jan-24	11°C	8.01	70	106	10.8	2.0	67	55	12	62	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.01	17.96	0.08	0.18	1.9	1.6	0.10	A	
	Feb-24	11°C	7.88	64	97	10.6	3.0	62	47	15	59	1.0	4.0	<1.8	<1.8	<1.8	0.11	0.05	20.41	0.13	0.20	2.2	1.8	0.12	A	
	Mar-24	13°C	7.59	50	76	10.6	4.0	55	44	11	48	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.03	17.20	0.10	0.17	2.5	2.0	0.15	A	
	Apr-24	16°C	7.68	55	84	10.4	4.0	58	49	09	52	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.03	16.10	0.11	0.09	2.1	1.8	0.12	A	
	May-24	16°C	7.82	61	93	10.2	5.0	63	52	11	57	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.02	18.41	0.13	0.15	2.5	2.0	0.14	A	
	Jun-24	16°C	7.60	64	97	10.0	6.0	66	57	09	61	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.01	16.96	0.12	0.13	2.9	2.1	0.15	A	
	Jul-24	14°C	7.62	65	94	10.2	5.0	60	42	18	34	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.03	20.25	0.11	0.12	5.4	4.2	0.30	A	
	Aug-24	18°C	7.64	53	87	10.0	4.6	56	42	14	43	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.10	0.01	17.65	0.10	0.10	4.7	4.1	0.22	A	
	Sep-24	21°C	7.78	55	84	10.1	5.0	58	43	15	40	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.05	19.99	0.11	0.17	4.5	3.9	0.21	A	
	Oct-24	20°C	8.13	76	119	10.2	6.0	61	46	15	52	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.11	0.05	18.96	0.11	0.17	4.2	3.9	0.19	A	
<b>River Alaknanda B/C River Bhagirathi at Devprayag</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	
24	Jan-24	13°C	7.78	60	91	10.8	4.0	73	51	22	65	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.04	11.96	0.16	0.10	2.4	2.3	0.12	A	
	Feb-24	13°C	7.68	71	108	10.6	5.0	82	57	25	78	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.03	12.63	0.20	0.15	2.9	2.6	0.14	A	
	Mar-24	13°C	8.02	60	92	10.4	5.0	70	48	22	64	1.0	4.0	<1.8	<1.8	<1.8	0.07	0.02	13.41	0.13	0.13	3.2	2.8	0.17	A	
	Apr-24	17°C	7.80	67	102	10.2	5.0	73	53	20	69	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.03	12.42	0.11	0.10	3.4	2.6	0.17	A	
	May-24	20°C	7.96	84	127	10.0	6.0	89	64	25	86	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.02	13.11	0.13	0.15	3.7	2.8	0.17	A	
	Jun-24	16°C	7.92	82	125	10.2	6.0	92	67	25	89	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.03	14.89	0.14	0.12	4.6	2.7	0.21	A	
	Jul-24	14°C	7.68	70	121	10.6	6.0	110	60	50	92	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.03	12.35	0.15	0.13	4.6	2.7	0.19	A	

	Aug-24	13°C	7.73	84	133	9.8	5.5	108	56	52	95	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.03	12.35	0.15	0.13	3.7	2.7	0.15	A
	Sep-24	16°C	7.83	61	97	9.8	6.0	74	55	19	52	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.03	16.03	0.11	0.14	3.4	2.6	0.17	A
	Oct-24	20°C	7.86	69	112	10.2	6.0	92	60	32	89	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.03	17.10	0.11	0.14	3.2	2.8	0.14	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 Criteria
25	Jan-24	14°C	8.26	48	74	10.6	2.0	53	40	13	51	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.02	12.65	0.11	0.12	2.6	2.4	0.15	A
	Feb-24	14°C	7.83	53	82	10.4	3.0	56	42	14	50	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.03	13.42	0.15	0.13	3.0	2.7	0.17	A
	Mar-24	14°C	7.45	47	72	10.2	4.0	52	40	12	45	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.03	12.82	0.10	0.12	2.8	2.4	0.17	A
	Apr-24	18°C	7.59	51	78	10.0	5.0	54	44	10	48	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	12.11	0.09	0.09	2.5	2.2	0.15	A
	May-24	19°C	7.46	45	70	10.2	4.0	49	37	12	43	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.03	13.85	0.12	0.11	2.2	2.0	0.14	A
	Jun-24	15°C	7.12	42	64	10.4	4.0	52	39	13	46	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.04	15.08	0.10	0.11	2.7	2.0	0.16	A
	Jul-24	13°C	7.53	40	67	10.4	4.0	68	42	26	53	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.05	0.04	13.11	0.10	0.10	2.3	3.3	0.12	A
	Aug-24	14°C	7.23	40	68	9.9	4.4	66	43	23	55	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.05	0.04	13.11	0.10	0.10	2.8	3.1	0.13	A
	Sep-24	17°C	7.43	57	90	10.0	5.0	62	41	21	43	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.02	14.36	0.08	0.13	2.6	2.9	0.12	A
	Oct-24	20°C	8.09	54	79	10.3	5.0	60	42	18	54	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.02	14.88	0.08	0.13	2.7	3.2	0.12	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 Criteria
26	Jan-24	13°C	8.10	63	96	10.8	3.0	66	48	18	64	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.02	14.75	0.13	0.15	2.3	2.2	0.12	A
	Feb-24	13°C	7.79	69	105	10.6	4.0	74	53	21	71	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.03	11.79	0.15	0.14	2.7	2.4	0.14	A
	Mar-24	13°C	7.71	55	85	10.4	4.0	63	45	18	59	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.01	13.80	0.11	0.13	2.9	2.7	0.16	A
	Apr-24	17°C	7.63	62	95	10.2	4.0	67	51	16	64	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.01	12.96	0.13	0.10	2.7	2.5	0.14	A
	May-24	19°C	7.74	71	109	10.2	5.0	74	54	20	69	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.02	12.41	0.09	0.09	3.2	2.7	0.16	A
	Jun-24	17°C	7.77	70	108	10.2	6.0	78	57	21	71	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.03	11.09	0.10	0.11	3.6	2.4	0.18	A
	Jul-24	14°C	7.86	58	92	10.8	4.0	70	41	29	70	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.01	12.15	0.12	0.11	2.4	3.6	0.18	A
	Aug-24	13°C	7.57	68	103	9.8	5.0	77	44	33	68	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.01	12.15	0.12	0.11	2.9	3.0	0.08	A
	Sep-24	17°C	7.61	59	95	9.9	6.0	70	53	17	53	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.03	15.66	0.09	0.11	2.7	2.8	0.07	A
	Oct-24	21°C	7.90	62	96	10.2	6.0	73	55	18	64	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.03	16.52	0.10	0.11	3.0	2.9	0.08	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 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
27	Jan-24	18°C	8.05	54	81	10.2	3.0	58	44	14	53	1.0	4.0	48	41	2.0	0.06	0.01	20.44	0.18	0.16	2.1	2.0	0.12	A
	Feb-24	16°C	7.96	52	78	10.0	4.0	50	38	12	44	1.0	4.0	41	34	2.0	0.04	0.01	18.70	0.14	0.12	2.8	2.5	0.17	A
	Mar-24	16°C	7.60	40	61	9.8	5.0	45	35	10	42	1.0	4.0	47	40	2.0	0.06	0.02	11.62	0.12	0.10	2.9	2.7	0.19	A
	Apr-24	20°C	7.68	49	75	9.6	6.0	52	39	13	50	1.0	4.0	48	41	2.0	0.08	0.04	11.96	0.08	0.08	2.6	2.3	0.16	A
	May-24	19°C	7.53	56	85	9.4	6.0	60	44	16	58	1.0	4.0	47	40	2.0	0.06	0.02	12.09	0.10	0.12	2.9	2.5	0.16	A
	Jun-24	24°C	7.67	56	85	9.2	5.0	58	42	16	54	1.0	4.0	49	33	6.1	0.05	0.03	12.01	0.08	0.11	2.7	2.3	0.15	A

	Jul-24	25°C	7.72	61	96	9.1	5.0	59	45	14	56	BDL (<1)	BDL (<5)	48	41	7.8	0.05	0.03	12.01	0.08	0.11	2.7	2.3	0.15	A
	Aug-24	25°C	7.74	56	92	9.2	5.0	58	38	20	46	BDL (<1)	BDL (<5)	47	40	4.5	0.08	0.02	11.95	0.08	0.09	2.5	2.3	0.07	A
	Sep-24	20°C	7.89	50	81	9.4	5.0	54	36	18	38	BDL (<1)	BDL (<5)	39	33	4.0	0.07	0.03	25.40	0.16	0.24	2.4	1.9	0.07	A
	Oct-24	20°C	7.89	43	66	9.8	6.0	47	33	14	41	BDL (<1)	BDL (<5)	40	34	4.5	0.07	0.03	24.66	0.18	0.23	2.4	2.8	0.07	A

**River Ganga U/S at Lakshmanjula, 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 Criteria
28	Jan-24	11°C	7.80	69	104	10.8	2.0	72	50	22	70	1.0	4.0	26	22	<1.8	0.08	0.03	42.16	0.19	0.22	2.8	2.6	0.14	A
	Feb-24	16°C	7.50	77	118	10.6	4.0	85	59	26	80	1.0	4.0	32	26	<1.8	0.09	0.05	45.63	0.22	0.25	3.1	2.8	0.15	A
	Mar-24	20°C	7.60	69	105	10.4	5.0	74	52	22	71	1.0	4.0	38	31	<1.8	0.11	0.03	50.41	0.20	0.32	3.3	3.0	0.17	A
	Apr-24	20°C	7.97	75	114	10.2	5.0	78	58	20	76	1.0	4.0	39	33	<1.8	0.14	0.06	45.62	0.21	0.36	3.1	2.7	0.15	A
	May-24	23°C	7.80	68	104	10.0	6.0	73	50	23	70	1.0	4.0	40	34	<1.8	0.18	0.06	50.25	0.25	0.30	3.3	3.0	0.17	A
	Jun-24	20°C	7.82	72	109	10.4	5.0	74	53	21	71	1.0	4.0	47	40	<1.8	0.17	0.05	50.11	0.23	0.29	4.0	3.4	0.20	A
	Jul-24	20°C	7.89	79	116	10.3	5.0	79	58	21	73	BDL (<1)	BDL (<5)	39	33	<1.8	0.15	0.08	55.62	0.28	0.33	3.9	4.7	0.19	A
	Aug-24	18°C	7.85	80	155	9.8	6	125	85	40	115	BDL (<1)	BDL (<5)	38	32	<1.8	0.13	0.06	48.25	0.25	0.35	3.8	4.6	0.15	A
	Sep-24	18°C	7.91	82	134	9.8	5.0	78	61	17	68	BDL (<1)	BDL (<5)	33	27	<1.8	0.07	0.03	37.22	0.18	0.22	3.6	4.0	0.18	A
	Oct-24	20°C	7.92	72	121	10.2	7	87	76	11	78	BDL (<1)	BDL (<5)	38	26	<1.8	0.07	0.03	36.76	0.18	0.22	3.2	4.2	0.15	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 Criteria
29	Jan-24	13°C	7.89	75	115	10.4	3.0	79	54	25	77	1.0	4.0	33	27	<1.8	0.12	0.02	40.73	0.17	0.25	3.1	2.9	0.15	A
	Feb-24	16°C	7.58	88	135	10.2	5.0	98	68	30	90	1.0	4.0	39	33	<1.8	0.07	0.01	38.44	0.23	0.19	3.3	3.1	0.14	A
	Mar-24	18°C	7.72	78	118	10.0	6.0	82	58	24	79	1.0	4.0	47	39	<1.8	0.05	0.02	42.63	0.19	0.24	3.5	3.2	0.17	A
	Apr-24	22°C	7.92	92	140	9.8	7.0	97	74	23	94	1.0	4.0	48	41	<1.8	0.11	0.04	46.78	0.13	0.28	3.4	3.0	0.15	A
	May-24	23°C	7.71	82	124	9.6	8.0	86	62	27	84	1.0	4.0	46	33	<1.8	0.13	0.04	48.70	0.16	0.22	3.7	3.2	0.17	A
	Jun-24	19°C	7.88	82	124	10.0	7.0	82	61	21	81	1.0	4.0	48	41	<1.8	0.12	0.03	48.52	0.14	0.21	3.6	3.1	0.17	A
	Jul-24	20°C	7.87	88	136	9.9	7.0	87	64	23	83	BDL (<1)	BDL (<5)	47	40	<1.8	0.13	0.06	50.66	0.23	0.28	3.3	4.2	0.15	A
	Aug-24	17°C	7.92	95	176	10.2	8	120	92	28	121	BDL (<1)	BDL (<5)	39	33	<1.8	0.15	0.08	44.21	0.24	0.30	3.1	4.0	0.14	A
	Sep-24	19°C	7.78	85	137	9.6	6.0	80	63	17	72	BDL (<1)	BDL (<5)	41	34	<1.8	0.08	0.02	48.42	0.15	0.20	3.3	3.9	0.15	A
	Oct-24	21°C	8.01	75	126	10.1	8	92	79	13	81	BDL (<1)	BDL (<5)	39	27	<1.8	0.08	0.02	46.92	0.15	0.20	3.2	4.1	0.15	A

**River Ganga D/S at Bairaj, 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 Criteria
30	Jan-24	13°C	7.55	71	108	10.6	3.0	75	56	19	73	1.0	4.0	40	34	<1.8	0.09	0.02	48.52	0.19	0.22	2.6	2.2	0.13	A
	Feb-24	18°C	7.46	81	123	10.4	5.0	87	59	28	84	1.0	4.0	47	39	<1.8	0.08	0.03	52.32	0.15	0.18	2.9	2.6	0.13	A
	Mar-24	18°C	7.57	88	134	10.2	5.0	92	66	26	90	1.0	4.0	39	27	<1.8	0.07	0.02	48.14	0.11	0.13	3.1	2.9	0.14	A
	Apr-24	20°C	7.40	105	159	10.0	6.0	108	83	25	106	1.1	4.0	39	33	<1.8	0.08	0.01	52.63	0.14	0.18	3.6	3.2	0.15	A
	May-24	22°C	7.56	94	142	9.8	7.0	98	69	29	95	1.2	4.0	38	26	<1.8	0.09	0.05	60.41	0.16	0.23	3.4	2.9	0.15	A

	Jun-24	20°C	7.72	91	138	9.8	6.0	94	65	29	93	1.0	4.0	39	33	<1.8	0.07	0.04	60.32	0.14	0.21	3.2	2.7	0.14	A
	Jul-24	20°C	7.66	96	151	9.7	6.0	98	71	27	95	BDL (<1)	BDL (<5)	47	34	<1.8	0.10	0.06	58.63	0.13	0.20	3.8	3.4	0.16	A
	Aug-24	17°C	7.6	100	164	10	7	110	80	30	100	BDL (<1)	BDL (<5)	39	33	<1.8	0.10	0.09	60.22	0.11	.24	3.2	3.6	0.13	A
	Sep-24	19°C	7.86	86	136	9.8	6.0	88	54	34	58	BDL (<1)	BDL (<5)	33	27	<1.8	0.08	0.05	55.03	0.19	0.30	3.3	3.4	0.15	A
	Oct-24	22°C	7.94	72	123	9.8	4.0	66	51	15	79	BDL (<1)	BDL (<5)	38	32	<1.8	0.08	0.05	54.24	0.19	0.28	3.3	3.8	0.18	A
<b>River Ganga A/C River Song (River Ganga D/S) at Raiwala, Dehradun</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
31	Jan-24	16°C	8.33	150	226	9.2	5.0	131	105	26	121	1.1	5.0	70	49	4.5	0.11	0.03	42.96	0.22	0.23	4.8	3.6	0.18	B
	Feb-24	17°C	8.07	130	196	9.0	7.0	142	112	30	133	1.3	5.0	63	46	4.0	0.09	0.01	45.77	0.16	0.31	5.1	3.3	0.19	B
	Mar-24	22°C	7.91	142	213	8.6	8.0	148	110	38	146	1.5	5.0	70	49	4.0	0.08	0.04	40.68	0.22	0.25	5.5	3.6	0.20	B
	Apr-24	21°C	8.45	125	189	8.4	9.0	134	95	39	131	1.6	5.0	63	46	4.0	0.11	0.03	45.66	0.25	0.30	5.1	3.2	0.19	B
	May-24	22°C	8.09	130	196	8.0	10.0	137	95	42	134	1.8	6.0	70	49	4.0	0.13	0.06	50.41	0.28	0.25	5.9	4.0	0.22	B
	Jun-24	21°C	7.74	128	193	8.4	9.0	132	89	43	128	1.7	6.0	110	70	6.8	0.11	0.04	50.38	0.26	0.23	5.7	3.0	0.22	B
	Jul-24	21°C	7.71	133	198	8.2	9.0	136	92	44	131	1.7	6.0	120	94	6.1	0.15	0.08	53.44	0.25	0.28	6.2	4.1	0.23	B
	Aug-24	17°C	7.85	125	199	8.4	8.8	140	86	54	131	1.4	5.0	130	79	6.1	0.13	0.09	55.41	0.22	0.25	5.6	4.8	0.15	B
	Sep-24	20°C	7.96	98	157	8.6	9.0	144	101	43	112	1.4	5.0	110	70	4.0	0.07	0.03	50.35	0.18	0.20	5.7	3.9	0.15	B
	Oct-24	20°C	8.12	150	234	8.4	9.0	144	117	27	123	1.6	5.2	94	70	4.5	0.07	0.03	52.04	0.17	0.21	5.9	4.9	0.16	B
<b>River Ganga A/C River Song (River Ganga D/S) Near Birla guest house, Dist-Dehradun</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
32	Jan-24	14°C	8.14	131	198	9.4	5.0	122	99	23	114	1.1	5.0	94	70	<1.8	0.06	0.04	55.28	0.23	0.22	5.0	3.9	0.20	B
	Feb-24	16°C	7.93	144	218	9.2	6.0	135	108	27	124	1.2	5.0	79	49	<1.8	0.08	0.05	52.46	0.20	0.26	5.3	3.7	0.20	B
	Mar-24	21°C	7.82	158	239	8.8	7.0	152	118	34	141	1.4	5.0	94	46	<1.8	0.07	0.02	50.30	0.13	0.30	5.9	3.9	0.21	B
	Apr-24	21°C	8.33	135	205	8.6	8.0	142	105	37	137	1.5	5.0	70	49	<1.8	0.09	0.03	53.46	0.16	0.25	6.1	4.4	0.22	B
	May-24	23°C	7.98	143	216	8.2	9.0	148	108	40	145	1.7	6.0	70	46	<1.8	0.13	0.05	56.21	0.20	0.33	6.7	4.7	0.24	B
	Jun-24	20°C	7.81	147	223	8.8	7.0	158	118	40	154	1.5	5.0	84	63	4.0	0.11	0.03	56.07	0.18	0.31	6.4	4.4	0.22	B
	Jul-24	20°C	7.85	153	226	8.7	7.0	167	124	43	158	1.5	5.0	94	70	6.1	0.14	0.06	54.92	0.22	0.30	6.1	3.5	0.20	B
	Aug-24	17°C	7.90	145	234	8.8	6	175	115	60	160	1.4	5.0	84	63	6.8	0.12	0.08	55.63	.25	.28	5.3	4.8	0.16	B
	Sep-24	20°C	7.91	94	149	8.8	7.0	139	98	41	102	1.6	5.0	120	70	4.5	0.09	0.05	69.03	0.23	0.21	5.9	3.6	0.17	B
	Oct-24	21°C	8.21	155	236	8.6	8.0	132	102	30	119	1.4	5.2	110	70	4.0	0.09	0.05	68.82	0.23	0.21	5.5	4.7	0.16	B
<b>River Suswa D/S at Mathurawala, Dehradun</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
33	Jan-24	15°C	7.31	316	475	2.8	32.0	307	250	57	293	26.0	90.0	22×10 <sup>2</sup>	13×10 <sup>2</sup>	540	0.25	0.08	127.90	0.21	0.25	31.5	6.2	0.78	E
	Feb-24	18°C	7.49	335	505	2.4	34.0	347	281	66	339	28.0	100.0	17×10 <sup>2</sup>	14×10 <sup>2</sup>	920	0.32	0.03	136.52	0.15	0.21	30.0	6.8	0.70	E
	Mar-24	18°C	7.32	321	484	2.6	33.0	330	258	72	326	27.0	90.0	28×10 <sup>2</sup>	22×10 <sup>2</sup>	920	0.28	0.04	120.10	0.20	0.19	29.1	6.2	0.69	E
	Apr-24	21°C	7.51	340	512	2.4	34.0	348	271	77	343	28.0	100.0	22×10 <sup>2</sup>	17×10 <sup>2</sup>	920	0.33	0.09	132.41	0.23	0.26	28.3	5.9	0.66	E

	May-24	28°C	7.63	364	548	2.0	36.0	369	286	83	366	30.0	110.0	28×10 <sup>2</sup>	17×10 <sup>2</sup>	1600	0.41	0.13	140.41	0.19	0.29	28.9	6.2	0.65	E
	Jun-24	22°C	7.56	360	542	2.2	36.0	362	284	78	352	29.0	110.0	35×10 <sup>2</sup>	28×10 <sup>2</sup>	1600	0.40	0.12	141.64	0.19	0.28	26.9	6.0	0.61	E
	Jul-24	19°C	7.55	270	412	2.2	32.0	270	218	52	266	27.0	100.0	35×10 <sup>2</sup>	22×10 <sup>2</sup>	1600	0.35	0.11	133.4	0.15	0.24	28.5	15.3	0.75	E
	Aug-24	20°C	7.47	264	406	3.3	31.0	276	223	53	268	24.0	98.0	22×10 <sup>2</sup>	14×10 <sup>2</sup>	920	0.32	0.09	130.52	.16	.26	26.3	14.1	0.75	E
	Sep-24	21°C	7.24	278	440	3.2	33.0	279	226	53	241	26.0	90.0	22×10 <sup>2</sup>	14×10 <sup>2</sup>	430	0.22	0.06	126.22	0.13	0.20	25.2	4.2	0.72	E
	Oct-24	21°C	8.07	299	468	2.8	38.0	276	225	51	234	28.0	86.0	28×10 <sup>2</sup>	17×10 <sup>2</sup>	920	0.22	0.06	128.06	0.13	0.20	29.6	14.8	0.85	E

**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 Criteria	
34	Jan-24	17°C	7.65	277	416	5.4	19.0	267	230	37	255	2.8	8.0	350	280	110	0.26	0.07	125.40	0.20	0.24	30.1	5.7	0.80	B	
	Feb-24	17°C	7.77	291	438	5.2	20.0	299	256	43	293	3.0	9.0	280	220	140	0.38	0.02	129.73	0.26	0.25	28.9	5.3	0.73	B	
	Mar-24	17°C	7.59	269	404	5.6	18.0	274	227	47	271	2.8	8.0	430	280	170	0.33	0.03	119.02	0.21	0.26	28.3	5.0	0.74	B	
	Apr-24	20°C	7.74	297	447	5.2	19.0	307	253	54	301	3.0	9.0	350	240	140	0.38	0.12	122.62	0.18	0.30	27.8	4.8	0.69	B	
	May-24	29°C	7.91	313	472	5.0	20.0	327	264	63	319	3.0	10.0	430	350	110	0.45	0.16	130.42	0.22	0.25	28.0	5.1	0.67	B	
	Jun-24													River was found Dry												
	Jul-24	20°C	7.28	235	350	5.6	17.0	255	220	35	202	2.8	9.0	350	280	94	0.40	0.13	125.41	0.19	0.21	23.9	6.8	0.65	B	
	Aug-24	20°C	7.14	262	350	5.2	15.0	249	218	31	204	2.6	9	280	220	79	0.35	0.10	128.22	.14	.22	25.2	12.9	0.83	B	
	Sep-24	21°C	7.32	271	434	5	16.0	254	220	34	212	2.8	8	210	170	70	0.20	0.08	125.89	0.20	0.25	26.6	3.8	0.87	B	
	Oct-24	21°C	7.43	274	432	5	24.0	260	218	42	240	2.8	12	350	280	94	0.20	0.08	124.96	0.20	0.24	28.1	13.2	0.92	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 Criteria
35	Jan-24	13°C	7.90	142	214	8.4	6.0	130	105	25	121	1.2	5.0	140	79	6.8	0.11	0.04	52.17	0.23	0.20	13.6	2.9	0.52	B
	Feb-24	18°C	7.82	165	250	8.0	9.0	150	119	31	137	1.4	6.0	120	94	6.1	0.13	0.03	55.79	0.19	0.25	14.0	3.2	0.50	B
	Mar-24	20°C	7.68	178	268	7.6	10.0	183	144	39	168	1.6	6.0	110	79	6.8	0.16	0.01	50.05	0.13	0.20	13.1	3.5	0.42	B
	Apr-24	22°C	8.04	159	240	7.4	10.0	166	124	42	152	1.7	6.0	120	94	4.5	0.20	0.08	55.69	0.16	0.28	13.8	3.8	0.46	B
	May-24	23°C	8.19	171	258	7.0	11.0	175	128	47	167	1.9	7.0	110	79	4.0	0.25	0.11	60.79	0.23	0.20	14.2	4.0	0.47	B
	Jun-24	21°C	7.72	188	284	7.2	9.0	182	131	51	148	1.8	6.0	140	94	6.8	0.12	0.04	56.09	0.18	0.28	6.2	4.6	0.20	B
	Jul-24	23°C	7.72	188	284	7.2	9.0	182	131	51	148	1.4	5.0	120	70	6.1	0.20	0.05	58.1	0.20	0.20	6.7	4.4	0.21	B
	Aug-24	18°C	7.67	185	289	7.9	8.0	190	137	53	161	1.3	BDL (<5)	110	79	4.5	0.22	0.10	60.33	.22	.26	7.2	4.6	0.22	B
	Sep-24	19°C	7.71	107	173	8.0	9.0	168	132	36	142	1.4	BDL (<5)	170	140	6.8	0.08	0.07	53.13	0.18	0.25	9.3	3.5	0.29	B
	Oct-24	22°C	8.36	182	294	8.0	11.0	230	170	60	180	1.4	BDL (<5)	130	79	6.1	0.10	0.07	54.16	0.18	0.27	11.4	4.5	0.35	B

**River Ganga near Visthaphit Colony, 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 Criteria
36	Jan-24	14°C	8.07	88	133	10.2	4.0	90	68	22	84	1.0	4.0	47	40	<1.8	0.08	0.04	50.63	0.15	0.18	2.8	2.5	0.13	A
	Feb-24	18°C	7.80	103	156	10.0	6.0	98	73	25	96	1.0	4.0	48	41	<1.8	0.11	0.01	49.63	0.20	0.25	3.1	2.8	0.14	A
	Mar-24	23°C	7.92	122	184	9.6	7.0	126	93	33	120	1.2	4.0	41	34	<1.8	0.10	0.03	43.10	0.18	0.19	3.4	3.1	0.13	A

	Apr-24	20°C	7.87	144	217	9.4	7.0	148	118	30	139	1.3	4.0	47	40	<1.8	0.02	0.01	48.19	0.21	0.22	3.3	2.9	0.12	A
	May-24	22°C	7.68	120	182	9.2	8.0	125	89	36	112	1.4	4.0	48	40	<1.8	0.18	0.09	55.12	0.18	0.30	3.6	3.0	0.14	A
	Jun-24	20°C	7.78	118	179	9.4	7.0	118	84	34	108	1.2	4.0	47	34	<1.8	0.16	0.08	55.01	0.16	0.28	3.4	3.1	0.14	A
	Jul-24	20°C	7.75	113	174	9.2	7.0	124	89	35	111	1.2	BDL (<5)	40	41	<1.8	0.15	0.12	60.12	0.2	0.25	3.2	2.8	0.12	A
	Aug-24	17°C	7.8	120	194	9.4	6.5	130	82	48	95	1.2	BDL (<5)	41	34	<1.8	0.10	0.11	63.10	.18	.30	3.3	3.5	0.15	A
	Sep-24	20°C	7.87	89	145	9.2	6.0	91	56	35	57	1.4	BDL (<5)	39	33	<1.8	0.09	0.04	59.97	0.22	0.26	3.2	3.3	0.15	A
	Oct-24	23°C	7.9	102	161	9.4	6.0	71	52	19	86	1	BDL (<5)	47	40	<1.8	0.09	0.04	58.66	0.21	0.29	3.5	3.9	0.16	A

**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 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
37	Jan-24	19°C	7.88	99	150	10.0	5.0	101	84	17	96	1.0	4.0	94	70	6.1	0.09	0.02	32.10	0.21	0.18	3.4	2.8	0.15	B
	Feb-24	12°C	7.74	107	162	9.8	6.0	110	87	23	108	1.1	4.0	110	79	6.1	0.12	0.05	35.89	0.25	0.27	3.8	3.1	0.16	B
	Mar-24	22°C	7.65	113	171	9.6	6.0	118	91	27	115	1.1	4.0	120	94	9.2	0.15	0.03	46.20	0.20	0.22	4.2	3.4	0.17	B
	Apr-24	23°C	7.79	118	178	9.4	7.0	121	90	31	119	1.2	4.0	110	79	6.1	0.21	0.09	48.72	0.23	0.26	3.9	3.2	0.15	B
	May-24	18°C	7.66	110	168	9.2	8.0	115	85	30	112	1.3	4.0	140	94	4.5	0.28	0.12	53.11	0.20	0.21	4.1	3.5	0.17	B
	Jun-24	18°C	7.54	114	173	9.0	8.0	118	87	31	116	1.3	4.0	110	70	9.2	0.29	0.14	55.26	0.20	0.22	4.2	3.4	0.17	B
	Jul-24	20°C	7.93	80	123	9.8	5.0	88	72	16	80	1.3	BDL (<5)	130	79	6.8	0.25	0.12	55.18	0.24	0.25	2.1	2.4	0.10	B
	Aug-24	17°C	7.99	85	125	10	4.8	90	80	10	80	1.2	BDL (<5)	120	94	6.1	0.28	0.09	58.10	.23	.27	2.5	2.3	0.07	B
	Sep-24	19°C	7.79	88	142	8.8	4.0	90	71	19	78	1.2	BDL (<5)	110	79	4.5	0.11	0.06	41.11	0.16	0.20	3.4	3.1	0.1	B
	Oct-24	21°C	7.83	153	238	9.1	8.0	134	97	37	123	1.2	BDL (<5)	120	94	6.8	0.13	0.06	42.24	0.16	0.22	3.1	2.5	0.09	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 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
38	Jan-24	19°C	7.96	74	112	10.2	3.0	79	65	14	77	1.0	4.0	79	49	4.5	0.07	0.01	40.43	0.13	0.20	3.2	2.5	0.16	B
	Feb-24	13°C	7.89	80	122	10.0	4.0	86	69	17	84	1.0	4.0	94	49	4.0	0.09	0.03	48.52	0.22	0.15	3.5	2.8	0.16	B
	Mar-24	21°C	7.81	87	133	9.8	5.0	94	72	22	92	1.0	4.0	63	46	4.0	0.13	0.03	40.30	0.26	0.21	3.8	2.9	0.17	B
	Apr-24	24°C	7.93	90	136	9.6	6.0	95	70	25	92	1.0	4.0	79	49	4.0	0.11	0.06	42.93	0.21	0.25	3.3	2.7	0.15	B
	May-24	20°C	7.73	88	134	9.4	7.0	91	68	23	90	1.0	4.0	70	46	4.0	0.15	0.04	46.05	0.19	0.26	3.6	2.9	0.16	B
	Jun-24	18°C	7.70	86	130	9.2	7.0	89	71	18	87	1.0	4.0	94	70	6.8	0.14	0.05	48.12	0.21	0.24	3.8	2.6	0.17	B
	Jul-24	20°C	7.82	60	92	10	4.0	78	66	12	65	BDL (<1)	BDL (<5)	84	63	4.0	0.16	0.04	48.1	0.15	0.23	2.8	2.5	0.14	B
	Aug-24	17°C	7.88	65	100	10.2	4.2	80	70	10	64	BDL (<1)	BDL (<5)	94	70	4.5	0.18	0.05	50.63	0.18	0.23	2.7	2.4	0.08	B
	Sep-24	20°C	7.83	79	126	9.0	5.0	82	55	27	66	BDL (<1)	BDL (<5)	140	110	9.2	0.07	0.04	34.98	0.10	0.17	3.1	2.8	0.09	B
	Oct-24	22°C	8.22	89	138	9.4	6.0	81	71	10	78	BDL (<1)	BDL (<5)	170	130	6.1	0.07	0.04	33.77	0.10	0.17	4.2	2.3	0.12	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 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
39	Jan-24	18°C	8.05	81	122	10.4	4.0	85	69	16	83	1.0	4.0	94	63	4.5	0.08	0.02	23.41	0.19	0.16	3.5	2.7	0.16	B
	Feb-24	12°C	7.94	86	130	10.2	5.0	92	72	20	90	1.0	4.0	79	49	4.0	0.06	0.04	29.74	0.23	0.23	3.7	3.0	0.17	B
	Mar-24	20°C	7.88	95	145	10.0	6.0	99	74	25	97	1.0	4.0	84	46	6.1	0.09	0.02	30.63	0.20	0.17	4.0	3.2	0.17	B

	Apr-24	22°C	7.98	99	150	9.8	7.0	101	73	28	96	1.0	4.0	70	46	4.5	0.10	0.04	41.73	0.13	0.23	3.6	3.0	0.16	B
	May-24	19°C	7.80	94	142	9.6	7.0	98	72	26	95	1.0	4.0	94	49	4.0	0.11	0.07	44.52	0.16	0.19	3.8	3.1	0.17	B
	Jun-24	19°C	7.82	96	146	9.4	7.0	100	78	22	98	1.0	4.0	70	49	6.1	0.10	0.08	46.70	0.15	0.20	4.2	3.6	0.18	B
	Jul-24	19°C	7.86	65	97	9.8	5.0	70	62	8	66	BDL (<1)	BDL (<5)	94	49	4	0.12	0.07	46.08	0.20	0.22	2.5	2.9	0.13	B
	Aug-24	18°C	7.91	70	90	9.4	4.6	75	68	7	65	BDL (<1)	BDL (<5)	84	46	4.5	0.15	0.08	48.10	.21	.26	3.2	2.8	0.09	B
	Sep-24	20°C	7.88	84	135	9.2	4.0	77	52	25	61	BDL (<1)	BDL (<5)	94	70	4.0	0.08	0.04	27.96	0.15	0.24	3.3	2.9	0.09	B
	Oct-24	20°C	7.97	102	165	9.6	5.0	69	65	4	65	BDL (<1)	BDL (<5)	94	49	4.0	0.08	0.04	28.76	0.15	0.22	2.9	2.7	0.08	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 Streptococci (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
40	Jan-24	19°C	8.13	84	127	10.8	3.0	89	75	14	87	1.0	4.0	<1.8	<1.8	<1.8	0.11	0.06	26.12	0.20	0.15	2.5	2.1	0.11	A
	Feb-24	13°C	7.99	77	117	10.6	4.0	83	66	17	80	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.02	33.96	0.25	0.18	2.8	2.3	0.13	A
	Mar-24	20°C	7.80	69	105	10.4	5.0	78	58	20	73	1.0	4.0	<1.8	<1.8	<1.8	0.11	0.03	28.11	0.18	0.24	3.0	2.6	0.15	A
	Apr-24	19°C	7.91	76	115	10.2	6.0	82	59	23	78	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.05	32.41	0.26	0.27	2.6	2.1	0.12	A
	May-24	19°C	7.75	82	125	10.0	6.0	86	66	20	84	1.0	4.0	<1.8	<1.8	<1.8	0.12	0.06	33.48	0.20	0.21	2.9	2.3	0.14	A
	Jun-24	19°C	7.73	84	127	10.0	7.0	89	69	20	88	1.0	4.0	<1.8	<1.8	<1.8	0.15	0.06	35.26	0.21	0.20	3.2	2.6	0.15	A
	Jul-24	19°C	7.95	77	110	10.2	4.0	76	55	21	70	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.13	0.06	35.72	0.22	0.25	4.0	2.7	0.2	A
	Aug-24	17°C	7.95	75	95	10.0	3.6	80	60	20	75	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.15	0.08	38.63	.24	.25	3.8	2.6	0.17	A
	Sep-24	19°C	7.78	90	145	9.4	4.0	84	59	25	71	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.03	24.96	0.14	0.22	3.7	2.6	0.16	A
	Oct-24	20°C	8.26	87	142	10.2	6.0	110	86	24	102	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.03	23.89	0.14	0.22	3.4	2.4	0.15	A

**River Yamuna at Kalsi, 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 Streptococci (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
41	Jan-24	17°C	8.26	97	148	10.6	4.0	99	82	17	95	1.0	4.0	48	40	2.0	0.09	0.05	40.21	0.23	0.13	2.8	2.5	0.12	A
	Feb-24	12°C	8.10	92	139	10.4	5.0	96	75	21	94	1.0	4.0	41	34	2.0	0.11	0.01	45.39	0.16	0.16	3.2	2.8	0.14	A
	Mar-24	22°C	7.93	87	132	10.2	6.0	90	66	24	88	1.0	4.0	47	39	2.0	0.13	0.02	39.08	0.23	0.11	3.5	3.0	0.16	A
	Apr-24	24°C	8.02	96	146	10.0	6.0	99	72	27	97	1.0	4.0	49	33	2.0	0.11	0.04	43.25	0.21	0.18	3.0	2.6	0.13	A
	May-24	18°C	7.91	91	139	9.8	7.0	97	73	24	93	1.0	4.0	48	40	2.0	0.15	0.08	46.19	0.28	0.23	3.4	2.9	0.15	A
	Jun-24	19°C	7.84	105	159	9.6	8.0	101	79	22	98	1.0	4.0	47	39	4.0	0.18	0.08	48.16	0.27	0.20	3.8	2.7	0.16	A
	Jul-24	20°C	7.88	80	125	10.4	5.0	85	62	23	75	BDL (<1)	BDL (<5)	48	41	6.1	0.18	0.08	50.08	0.25	0.26	3.8	2.6	0.18	A
	Aug-24	18°C	7.96	75	115	10.2	4.7	90	70	20	80	BDL (<1)	BDL (<5)	47	40	4.5	0.20	0.09	52.63	.25	.24	3.9	2.7	0.15	A
	Sep-24	21°C	7.82	81	130	9.2	5.0	92	68	24	74	BDL (<1)	BDL (<5)	48	41	4.0	0.09	0.03	39.00	0.22	0.21	3.6	3.0	0.14	A
	Oct-24	20°C	8.13	107	177	9.6	4.0	84	74	10	76	BDL (<1)	BDL (<5)	48	40	4.0	0.09	0.03	36.83	0.22	0.21	3.1	2.3	0.12	A

**River Tons Before joining to 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 Streptococci (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
42	Jan-24	18°C	7.75	75	114	10.4	3.0	81	65	16	78	1.0	4.0	47	39	<1.8	0.12	0.04	43.83	0.19	0.12	3.1	2.3	0.15	A
	Feb-24	12°C	7.86	83	125	10.2	4.0	90	71	19	87	1.0	4.0	48	41	<1.8	0.07	0.03	50.11	0.22	0.24	3.3	2.6	0.15	A
	Mar-24	22°C	7.98	91	138	9.8	5.0	96	74	22	94	1.1	4.0	47	40	<1.8	0.09	0.04	45.30	0.19	0.20	3.7	2.9	0.16	A



	Apr-24														River was dry.											
	May-24														River was dry.											
	Jun-24														River was dry.											
	Jul-24	19°C	7.82	263	402	6.6	13.0	205	148	57	187	2.6	9	170	110	9.3	0.35	0.12	149.05	0.27	0.33	11.2	4.1	0.34	B	
	Aug-24	20°C	7.58	252	396	6.2	12.3	246	187	59	203	2	9	170	120	6.1	0.30	0.10	155.2	.23	.30	12.4	4.3	0.61	B	
	Sep-24	22°C	7.49	235	376	6.2	12.0	240	175	65	189	1.8	6	220	140	6.8	0.18	0.03	105.99	0.19	0.29	14.9	3.2	0.73	B	
	Oct-24	21°C	7.45	256	403	7.0	9.0	284	243	41	192	2.6	12	210	170	9.2	0.18	0.03	110.14	0.19	0.28	15.7	4.8	0.77	B	

**River Rispana B/C to River Bindal at Motherowala**

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
46	Jan-24	17°C	7.35	281	422	2.4	32.0	295	233	62	266	28.0	100.0	17×10 <sup>2</sup>	14×10 <sup>2</sup>	540	0.26	0.09	112.40	0.17	0.28	28.5	8.0	0.72	E
	Feb-24	18°C	7.52	295	445	2.2	34.0	306	239	67	282	29.0	100.0	14×10 <sup>2</sup>	11×10 <sup>2</sup>	540	0.32	0.02	113.5	0.14	0.23	29.2	8.3	0.72	E
	Mar-24	18°C	7.43	280	421	2.4	32.0	294	223	71	285	28.0	90.0	17×10 <sup>2</sup>	14×10 <sup>2</sup>	920	0.27	0.03	110.10	0.11	0.18	29.9	8.5	0.76	E
	Apr-24	19°C	7.30	296	446	2.2	33.0	305	229	76	299	29.0	90.0	22×10 <sup>2</sup>	13×10 <sup>2</sup>	920	0.30	0.06	127.41	0.19	0.38	30.7	9.0	0.76	E
	May-24	28°C	7.47	310	467	2.0	34.0	321	239	82	315	30.0	100.0	21×10 <sup>2</sup>	14×10 <sup>2</sup>	920	0.36	0.08	129.85	0.23	0.31	30.1	8.6	0.73	E
	Jun-24	22°C	7.42	300	452	2.2	34.0	320	260	60	310	30.0	110.0	22×10 <sup>2</sup>	14×10 <sup>2</sup>	920	0.36	0.07	128.75	0.23	0.31	29.8	7.9	0.72	E
	Jul-24	22°C	7.28	255	396	2.4	28.0	270	206	64	240	30.0	110.0	28×10 <sup>2</sup>	17×10 <sup>2</sup>	1600	0.32	0.08	122.08	0.26	0.28	21.8	6.5	0.58	E
	Aug-24	21°C	7.32	258	399	2.6	29.0	243	171	72	193	32.0	128.0	1600	920	540	0.35	0.09	122.08	0.23	0.24	22.3	6.8	0.85	E
	Sep-24	21°C	7.29	271	434	2.4	31.0	235	184	51	195	34.0	130.0	1600	540	350	0.25	0.04	103.14	0.19	0.31	26.2	4.9	0.99	E
	Oct-24	21°C	7.23	278	445	1.4	37.0	325	267	58	243	32.0	110.0	17×10 <sup>2</sup>	11×10 <sup>2</sup>	540	0.26	0.04	113.06	0.18	0.31	25.4	6.9	0.97	E

**River Bindal U/S at Bindal Bridge, 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 Criteria
47	Jan-24	18°C	7.24	289	435	1.2	43.0	304	245	59	294	50.0	150.0	1600	920	430	0.25	0.09	132.10	0.16	0.26	44.6	14.7	1.11	E
	Feb-24	19°C	7.38	306	460	1.0	45.0	325	255	70	314	52.0	160.0	1600	920	540	0.28	0.04	140.65	0.19	0.20	50.0	14.9	1.20	E
	Mar-24	18°C	7.19	292	439	1.2	44.0	306	230	76	298	51.0	160.0	1600	920	430	0.24	0.06	129.42	0.13	0.17	50.6	14.6	1.25	E
	Apr-24	22°C	7.38	312	468	1.0	45.0	323	243	80	318	52.0	170.0	1600	920	350	0.28	0.15	133.41	0.18	0.33	49.9	14.1	1.20	E
	May-24	26°C	7.52	331	497	0.8	46.0	344	256	88	337	53.0	180.0	1600	920	540	0.33	0.12	135.96	0.26	0.28	50.4	13.9	1.18	E
	Jun-24	24°C	7.56	326	490	1.0	45.0	380	300	80	368	51.0	170.0	22×10 <sup>2</sup>	14×10 <sup>2</sup>	920	0.33	0.10	136.90	0.29	0.28	51.2	14.2	1.14	E
	Jul-24	24°C	7.73	253	391	1.4	40.0	276	216	60	268	51.0	170.0	22×10 <sup>2</sup>	14×10 <sup>2</sup>	920	0.38	0.12	125.63	0.28	0.33	42.7	14.8	1.11	E
	Aug-24	22°C	7.36	265	401	1.2	35.0	253	182	71	197	48.0	160.0	14×10 <sup>2</sup>	11×10 <sup>2</sup>	920	0.32	0.10	130.25	.24	.30	41.4	12.9	1.54	E
	Sep-24	22°C	7.24	268	430	1.0	39.0	251	196	55	210	48.0	150.0	1600	920	430	0.23	0.10	135.19	0.17	0.25	43.1	6.5	1.6	E
	Oct-24	22°C	7.21	289	461	1.0	47.0	253	221	32	210	54.0	168.0	17×10 <sup>2</sup>	14×10 <sup>2</sup>	430	0.26	0.10	138.50	0.17	0.25	39.2	15.8	1.46	E

**River Bindal D/S Near Kargi Chowk, 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 Criteria
48	Jan-24	15°C	7.11	317	477	1.6	32.0	331	265	66	323	46.0	140.0	22×10 <sup>2</sup>	13×10 <sup>2</sup>	920	0.30	0.12	132.72	0.18	0.25	42.9	17.1	1.02	E
	Feb-24	18°C	7.23	337	506	1.4	34.0	357	278	79	346	48.0	150.0	21×10 <sup>2</sup>	17×10 <sup>2</sup>	920	0.35	0.09	129.44	0.14	0.21	43.7	17.6	1.00	E

	Mar-24	17°C	7.36	320	482	1.6	33.0	335	254	81	326	47.0	150.0	14×10 <sup>2</sup>	11×10 <sup>2</sup>	540	0.33	0.03	135.60	0.18	0.14	44.5	17.1	1.05	E
	Apr-24	22°C	7.51	346	520	1.4	34.0	357	271	86	350	48.0	160.0	17×10 <sup>2</sup>	11×10 <sup>2</sup>	540	0.29	0.13	140.63	0.23	0.42	43.7	16.6	1.00	E
	May-24	27°C	7.67	362	545	1.0	36.0	372	279	93	366	50.0	170.0	1600	920	350	0.41	0.11	143.12	0.28	0.32	44.5	15.8	1.00	E
	Jun-24	23°C	7.62	365	549	1.2	35.0	370	272	98	362	48.0	160.0	13×10 <sup>2</sup>	920	540	0.40	0.10	140.92	0.30	0.28	40.1	14.9	0.90	E
	Jul-24	23°C	7.25	280	422	1.2	35.0	310	243	67	290	48.0	160.0	22×10 <sup>2</sup>	17×10 <sup>2</sup>	920	0.37	0.11	130.85	0.28	0.25	39.3	22.5	0.97	E
	Aug-24	21°C	7.32	291	458	1.2	34.0	289	204	85	214	44.0	140.0	17×10 <sup>2</sup>	11×10 <sup>2</sup>	920	0.33	0.13	127.23	.23	.26	38.6	21.2	1.57	E
	Sep-24	21°C	7.36	279	448	1.2	32.0	265	211	54	207	46.0	145	1700	1100	920	0.38	0.15	144.04	0.13	0.29	39.8	5.4	1.61	E
	Oct-24	22°C	7.38	267	428	1.2	36.0	260	232	28	226	50.0	154.0	21×10 <sup>2</sup>	17×10 <sup>2</sup>	540	0.37	0.15	146.20	0.13	0.29	40.3	18.5	1.64	E

**River Bindal B/C to River Rispana at Mothorowala, 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 Criteria
49	Jan-24	16°C	7.40	338	507	2.0	30.0	349	288	61	308	28.0	110.0	22×10 <sup>2</sup>	17×10 <sup>2</sup>	920	0.33	0.13	120.11	0.21	0.29	20.2	6.6	0.47	E
	Feb-24	18°C	7.61	361	543	1.6	33.0	380	308	72	365	30.0	120.0	21×10 <sup>2</sup>	11×10 <sup>2</sup>	920	0.29	0.08	132.28	0.16	0.24	20.9	7.0	0.47	E
	Mar-24	17°C	7.50	341	513	1.8	32.0	355	277	78	346	29.0	110.0	21×10 <sup>2</sup>	14×10 <sup>2</sup>	920	0.35	0.03	140.78	0.19	0.16	22.1	7.6	0.51	E
	Apr-24	21°C	7.65	370	556	1.6	33.0	378	296	82	372	30.0	120.0	21×10 <sup>2</sup>	17×10 <sup>2</sup>	920	0.38	0.16	145.79	0.23	0.28	21.5	7.1	0.48	E
	May-24	29°C	7.85	389	585	1.2	35.0	395	308	87	391	32.0	130.0	17×10 <sup>2</sup>	11×10 <sup>2</sup>	920	0.48	0.12	147.83	0.31	0.31	22.7	7.6	0.50	E
	Jun-24	22°C	7.80	386	581	1.4	40.0	390	300	90	385	30.0	120.0	17×10 <sup>2</sup>	11×10 <sup>2</sup>	920	0.46	0.09	65.53	0.27	0.26	20.6	7.2	0.45	E
	Jul-24	22°C	7.63	295	443	1.4	33.0	322	251	71	267	30.0	110.0	21×10 <sup>2</sup>	17×10 <sup>2</sup>	920	0.40	0.12	136.69	0.26	0.26	24.6	7.1	0.59	E
	Aug-24	21°C	7.17	285	437	1.2	32.0	294	193	101	219	32.0	120.0	17×10 <sup>2</sup>	13×10 <sup>2</sup>	920	0.35	0.1	138.22	.23	0.22	23.7	6.9	1.15	E
	Sep-24	21°C	7.21	245	391	1.6	30.0	274	199	75	206	30.0	110.0	1600	920	540	0.47	0.15	110.02	0.17	0.30	22.5	4.8	1.09	E
	Oct-24	21°C	7.26	248	392	1.4	34.0	249	229	20	194	30.0	104.0	21×10 <sup>2</sup>	14×10 <sup>2</sup>	430	0.48	0.15	112.74	0.17	0.30	27.4	9.4	1.33	E

**Asan Conservation Reserve, 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 Criteria
50	Jan-24	19°C	7.63	69	104	9.6	3.0	62	52	10	65	1.0	4.0	<1.8	<1.8	<1.8	0.15	0.05	45.16	0.13	0.17	2.6	2.3	0.14	A
	Feb-24	13°C	7.79	76	115	9.4	4.0	67	59	08	70	1.0	4.0	<1.8	<1.8	<1.8	0.19	0.02	52.19	0.17	0.28	2.9	2.5	0.15	A
	Mar-24	20°C	7.88	83	125	9.2	5.0	78	67	11	79	1.0	4.0	<1.8	<1.8	<1.8	0.20	0.05	60.44	0.13	0.23	3.2	2.7	0.16	A
	Apr-24	22°C	7.69	90	136	9.0	6.0	82	69	13	80	1.0	4.0	<1.8	<1.8	<1.8	0.27	0.11	68.74	0.22	0.34	3.0	2.3	0.14	A
	May-24	19°C	7.55	79	120	8.8	7.0	73	58	15	71	1.0	4.0	<1.8	<1.8	<1.8	0.18	0.09	67.53	0.27	0.28	3.4	2.5	0.17	A
	Jun-24	18°C	7.66	76	115	8.6	7.0	78	62	16	77	1.0	4.0	<1.8	<1.8	<1.8	0.17	0.10	65.92	0.28	0.29	3.7	2.8	0.18	A
	Jul-24	19°C	7.37	86	126	8.8	5.0	60	43	17	52	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.15	0.09	70.58	0.23	0.32	3.3	2.5	0.18	A
	Aug-24	17°C	7.63	82	95	9	7	72	48	24	69	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.20	0.10	75.16	0.21	0.30	3.2	2.4	0.13	A
	Sep-24	22°C	7.69	74	119	9.1	7.0	69	49	20	52	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.25	0.03	36.19	0.08	0.17	3.1	2.7	0.12	A
	Oct-24	20°C	8.17	75	117	9	8	96	70	26	69	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.25	0.03	34.88	0.08	0.17	3.6	2.9	0.14	A

**River Ganga canal D/S at Har ki Pauri, Rishikul 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 Criteria
51	Jan-24	15°C	8.30	149	234	9.1	10.0	129	60	69	118	1.4	8.0	110	79	14	0.35	0.12	26.29	0.19	0.35	3.5	1.6	0.13	B

	Feb-24	17.1°C	8.00	120	187.5	9.6	7.0	134	55	79	110	1.2	7.0	170	94	11	0.6	0.14	25.28	0.2	0.3	3.7	5.4	0.14	B
	Mar-24	18.5°C	7.60	193	302	8.6	7.0	114	55	59	118	1.2	6.0	150	70	9.3	0.51	0.13	35.68	0.49	0.48	7.7	5.9	0.31	B
	Apr-24	20.9°C	7.50	180	281.25	9	9.0	120	50	70	149	2	10.0	130	79	6.8	0.45	0.11	29.37	0.16	0.38	16.5	5.9	0.65	B
	May-24	21.9°C	7.40	162	254	8.4	8.0	111	52	59	132	1.6	12.0	120	94	4.5	0.46	0.28	33.31	0.66	0.68	11.5	7.9	0.47	B
	Jun-24	21.8°C	7.08	140	218.75	8	8.0	114	26	88	75	2	11.0	120	94	9.2	0.6	0.14	25.73	0.57	0.37	10.9	5.6	0.44	B
	Jul-24	21.5°C	7.41	243	379.688	7.4	4.0	113	51	62	126	2.2	10.0	120	94	9.2	0.56	0.24	34.69	0.77	0.77	12.9	9.2	0.52	B
	Aug-24	22°C	7.09	154.8	242	7.9	9	110	40	70	114	2.4	10	150	94	6.8	0.5	0.32	29.47	0.64	0.61	11.8	6.9	0.49	B
	Sep-24	20.6°C	7.26	207.3	324	8.8	15	88	42	46	80	1.2	7	170	79	7.8	0.22	0.01	19.4	0.21	0.62	3.1	1.8	0.14	B
	Oct-24	23.5°C	7.5	117	182.3	8.4	10	125	50	75	140	1.2	7	140	94	6.1	0.7	0.14	20.55	0.2	0.38	3.6	5.7	0.14	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 Streptococci (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
52	Jan-24	15.9°C	7.9	182	285	9.6	7.0	110	49	61	107	1.2	6.0	120	70	9.2	0.49	0.15	30.29	0.29	0.48	3.3	1.7	0.14	B
	Feb-24	16.5°C	8.20	150	234.375	9.8	6.0	112	40	72	105	1.0	7.0	110	79	14	0.45	0.15	21.32	0.17	0.50	3.7	2.21	0.15	B
	Mar-24	19.2°C	7.70	192	301	8.8	5.0	109	45	64	120	1.2	7.0	120	94	11	0.45	0.13	31.39	0.47	0.55	6.7	4.9	0.28	B
	Apr-24	22°C	8.10	110	171.875	9.1	7.0	118	49	69	132	1	6.0	110	70	7.8	0.35	0.13	20.16	0.15	0.55	4.2	2.2	0.17	B
	May-24	21.4°C	7.30	169	264	8.6	6.0	112	49	63	128	1.4	8.0	150	94	7.8	0.38	0.23	32.38	0.55	0.68	8.7	5.2	0.36	B
	Jun-24	23°C	7.05	210	328.125	7.2	7.0	112	31	81	70	2.2	10.0	140	94	14	0.42	0.15	25.81	0.54	0.52	7.8	3.22	0.32	B
	Jul-24	21.7°C	7.46	243	379.688	7.6	4.0	108	53	55	110	2.4	10.0	140	94	14	0.49	0.25	39.66	0.74	0.62	13	7.6	0.54	B
	Aug-24	21°C	7.23	193.2	302	7.7	8	116	40	76	104	2	9	120	94	6.1	0.48	0.24	30.26	0.58	0.55	8.9	3.8	0.36	B
	Sep-24	21°C	7.31	150	235	8.1	10	89	43	46	70	1.6	8	130	79	6.8	0.19	0.03	18.7	0.41	0.18	2.2	2.3	0.1	B
	Oct-24	23.8°C	8.1	103	161.1	8.3	5	110	50	60	121	1	6	150	94	7.8	0.45	0.16	20.5	0.45	0.4	3.2	4.2	0.13	B

**River Ganga D/S at Bisanpur 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 Streptococci (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
53	Jan-24	23.2°C	7.60	192	301	8.8	8.0	118	57	61	104	1.6	9.0	130	79	9.2	0.39	0.16	34.59	0.34	0.56	4.7	2.1	0.19	B
	Feb-24	18°C	7.50	170	265.625	9	8.0	130	49	81	100	1.4	10.0	120	94	11	0.45	0.11	32.12	0.45	0.66	4.19	4.1	0.16	B
	Mar-24	19.6°C	7.80	201	315	8.8	7.0	119	52	67	129	1.6	10.0	110	79	14	0.55	0.16	33.72	0.65	0.64	9.2	6.9	0.37	B
	Apr-24	22°C	7.60	200	312.5	8.6	9.0	116	50	66	127	2	12.0	120	94	11	0.55	0.19	30.14	0.44	0.53	47.0	19.0	1.89	B
	May-24	21.6°C	7.40	179	280	8.2	10.0	115	50	65	137	2.2	14.0	110	79	6.8	0.56	0.34	32.22	0.64	0.63	12.9	9.9	0.52	B
	Jun-24	22.6°C	6.96	150	234.375	7.4	10.0	134	46	88	94	2.2	12.0	110	79	14	0.45	0.18	36.35	0.58	0.65	13.1	4.4	0.49	B
	Jul-24	22.6	7.62	245	384	7.6	5.0	127	59	68	133	2.4	14.0	110	79	14	0.49	0.28	36.45	0.68	0.75	10.9	7.6	0.41	B
	Aug-24	23°C	7.13	168.9	264	7.5	11	126	42	84	112	2.4	14	130	79	6.1	0.56	0.34	30.14	0.57	0.53	12.3	7.1	0.48	B
	Sep-24	20.3°C	7.39	148	231	7.8	8.2	93	43	50	88	1.8	9	170	110	7.8	0.64	0.09	23.4	0.43	0.7	6	3.2	0.27	B
	Oct-24	25°C	7.6	195	304	8.2	10	120	54	66	130	1.4	11	210	79	9.2	0.4	0.2	30.17	0.4	0.78	4.8	4.5	0.19	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 Streptococci (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
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54	Jan-24	15.7°C	8.3	227	355	9.1	9.0	105	45	60	97	1.2	8.0	120	70	9.2	0.4	0.09	25.38	0.34	0.56	3.5	1.6	0.15	B
	Feb-24	17°C	7.90	210	328.125	9.6	9.0	108	40	68	90	1.4	9.0	130	79	7.8	0.49	0.13	24.56	0.3	0.45	3.6	3.1	0.15	B
	Mar-24	18.8°C	7.40	197	309	8.8	6.0	112	54	58	122	1.4	7.0	170	94	9.2	0.49	0.12	34.56	0.42	0.54	6.9	5.1	0.28	B
	Apr-24	21.6°C	7.20	110	171.875	8.9	9.0	112	50	62	136	1.8	9.0	140	79	11	0.56	0.15	35.67	0.33	0.42	5.3	3.8	0.22	B
	May-24	21.6°C	7.20	163	255	8.2	8.0	112	51	61	130	1.4	9.0	120	94	12	0.46	0.29	33.97	0.53	0.62	8.9	5.8	0.36	B
	Jun-24	22.5°C	7.02	200	312.5	7.4	8.0	110	28	82	80	2.2	9.0	130	79	12	0.49	0.1	24.26	0.59	0.45	8.8	3.1	0.36	B
	Jul-24	21.6°C	7.45	243	381	7.6	5.0	112	54	58	122	2.4	11.0	130	79	12	0.51	0.23	35.96	0.69	0.75	13.7	9.1	0.56	B
	Aug-24	21°C	7.19	188.8	295	7.9	7	111	49	62	110	2	10	110	70	6.8	0.46	0.22	28.67	0.55	0.52	7.9	4.1	0.33	B
	Sep-24	20.1°C	7.26	101.76	159	8.2	5	80	38	42	73	1.6	5	130	79	6.1	0.28	0.04	19.5	0.18	0.48	2.7	4.2	0.13	B
	Oct-24	23°C	7.6	115	179.4	8.8	10	140	65	75	120	1.6	9	140	110	6.8	0.42	0.15	20.64	0.25	0.32	3.1	3.6	0.11	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 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 Criteria
55	Jan-24	16.1°C	8.10	192	301	8.8	8.0	118	52	66	110	1.2	7.0	94	63	6.1	0.36	0.12	26.87	0.21	0.49	3.3	1.4	0.13	B
	Feb-24	16.9°C	7.80	200	312.5	9.4	9.0	110	50	60	100	1.2	8.0	94	70	4.0	0.52	0.14	23.37	0.15	0.41	3.3	5.2	0.14	B
	Mar-24	19°C	7.80	195	306	8.4	6.0	110	52	58	98	1.4	8.0	84	63	4.0	0.44	0.14	33.39	0.45	0.51	7.3	5.5	0.3	B
	Apr-24	21.3°C	7.50	120	187.5	8.8	9.0	116	49	67	134	1.2	9.0	94	70	6.8	0.22	0.14	20.61	0.18	0.41	12.9	4.7	0.52	B
	May-24	21.6°C	7.40	161	253	8.2	7.0	116	52	64	139	1.4	10.0	110	79	6.1	0.45	0.24	31.47	0.58	0.65	9.2	6.7	0.37	B
	Jun-24	22.3°C	7.05	190	296.875	7.6	9.0	110	20	90	85	2.2	9.6	94	70	9.2	0.55	0.16	22.41	0.64	0.42	9.3	4.2	0.38	B
	Jul-24	20.9°C	7.16	242	379	7.4	5.0	110	49	61	126	2.2	12.0	130	79	12	0.56	0.26	34.91	0.74	0.72	14.1	9	0.58	B
	Aug-24	22°C	7.11	180.4	282	7.8	7	114	38	76	106	2	11	170	84	9.2	0.52	0.28	24.61	0.62	0.59	9.8	5.7	0.4	B
	Sep-24	19.8°C	7.2	176.64	276	8.3	8	88	43	45	56	1.1	8	120	94	9.3	0.16	0.02	15.9	0.25	0.31	2.6	2.3	0.12	B
	Oct-24	24°C	7.5	131	205	8.2	9	145	69	76	125	2	11	140	79	6.8	0.9	0.16	22.48	0.16	0.44	3.4	5.3	0.12	B

River Ganga U/S at Bindughat Dudhiyan, 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 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 Criteria
56	Jan-24	15.3°C	8.20	124	194	8.7	7.0	102	48	54	92	1.4	8.0	110	79	9.3	0.35	0.12	24.48	0.34	0.56	3.9	1.9	0.17	B
	Feb-24	16.2°C	7.70	170	265.625	9.2	7.0	114	45	69	90	1.2	8.0	140	70	6.8	0.4	0.15	22.65	0.18	0.6	3.1	1.15	0.13	B
	Mar-24	18.9°C	7.90	198	310	8.6	6.0	110	50	60	102	1.4	8.0	110	79	6.1	0.54	0.11	33.65	0.49	0.66	8.4	5.6	0.35	B
	Apr-24	23.5°C	7.90	150	234.375	8.8	8.0	110	42	68	120	1.2	8.0	120	94	9.2	0.2	0.12	23.89	0.23	0.71	3.8	2.5	0.16	B
	May-24	22.4°C	7.40	167	259	8.4	7.0	116	50	66	132	1.8	10.0	140	79	12	0.32	0.22	33.59	0.53	0.61	9.8	5.5	0.39	B
	Jun-24	23.9°C	7.3	240	375	7.6	8.0	120	43	77	124	2.4	10.4	140	94	9.2	0.4	0.2	31.62	0.44	0.48	9.6	5.1	0.38	B
	Jul-24	22.6°C	7.29	248	389	7.4	5.0	110	50	60	121	2.6	12	140	94	9.2	0.56	0.29	38.12	0.79	0.68	12.9	8.8	0.53	B
	Aug-24	23°C	7.28	208.6	326	7.8	8	122	48	74	128	2.2	9	140	94	9.2	0.45	0.23	32.89	0.48	0.56	8.7	4.9	0.34	B
	Sep-24	21.6°C	7.21	235	368	7.8	10	96	45	51	185	2.6	10	140	79	6.8	0.45	0.28	42.69	1.42	0.44	6.4	7.2	0.28	B
	Oct-24	23°C	7.9	121	189	8	8	115	55	60	120	1	7	170	110	7.8	0.78	0.2	22.2	0.48	0.56	3.4	7.1	0.14	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 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 Criteria
57	Jan-24	29.9°C	7.50	190	297	9.51	10.0	122	57	65	109	1.2	8.0	120	94	9.2	0.44	0.19	28.79	0.51	0.49	4.7	2.2	0.18	B
	Feb-24	18.1°C	7.60	180	281.25	9.6	10.0	125	45	80	95	1.4	9.0	110	70	9.2	0.2	0.18	24.67	0.5	0.45	5.3	4.7	0.21	B
	Mar-24	19.8°C	7.90	204	320	8.8	8.0	121	60	61	119	1.6	9.0	120	94	9.3	0.52	0.14	34.66	0.59	0.55	9.6	6.4	0.38	B
	Apr-24	22.8°C	7.80	190	296.875	8.8	10.0	108	48	60	119	2.2	12.0	140	70	7.8	0.5	0.15	39.18	0.46	0.41	39.4	11.4	1.64	B
	May-24	21.1°C	7.30	177	277	8.4	9.0	119	56	63	141	2.2	14.0	130	79	6.8	0.54	0.35	35.28	0.66	0.64	12	9.8	0.48	B
	Jun-24	22°C	7.04	140	218.75	7.2	11.0	130	52	78	125	2.4	14.0	170	110	9.2	0.28	0.2	24.67	0.51	0.44	10	4.7	0.38	B
	Jul-24	22.9°C	7.78	247	385.938	7.8	6.0	129	60	69	135	2.6	16.0	170	110	9.2	0.48	0.22	35.66	0.71	0.64	11.6	8	0.44	B
	Aug-24	23°C	7.15	152.3	238	7.6	12	120	46	74	136	2.2	12	130	79	6.8	0.38	0.16	37.38	0.66	0.63	10.4	4.4	0.41	B
	Sep-24	19.5°C	7.41	129.28	202	8	10	90	41	49	68	1.1	6	120	94	6.1	0.22	0.05	18.3	0.12	0.43	2.6	4.5	0.12	B
	Oct-24	25.2°C	7.8	218	341	8.3	12	110	52	58	145	2.2	9	170	110	6.8	0.3	0.23	23.63	0.36	0.43	5.6	4.9	0.23	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 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 Criteria
58	Jan-24	15.3°C	7.60	167	261	8.7	7.0	138	68	70	125	1.4	12.0	120	84	14	0.37	0.2	38.91	0.41	0.56	3.4	1.7	0.13	B
	Feb-24	16°C	7.20	150	230	8.8	9.0	135	55	80	105	1.6	14.0	110	79	11	0.98	0.2	30.76	0.31	0.43	3.5	7.19	0.13	B
	Mar-24	17.1°C	7.90	198	310	8.6	8.0	125	60	65	137	1.8	12.0	120	94	14	0.68	0.19	37.66	0.61	0.63	8.9	7.5	0.34	B
	Apr-24	19.9°C	8.40	120	187.5	8.4	10.0	125	52	73	142	2.2	12.0	150	84	11	0.53	0.2	32.59	0.38	0.47	36.0	9.9	1.39	B
	May-24	21.4°C	7.40	169	265	8	9.0	120	52	68	151	2.4	16.0	170	94	9.2	0.53	0.32	34.99	0.68	0.67	20	11.9	0.79	B
	Jun-24	21.5°C	7.12	180	281.25	7.6	12.0	140	55	85	143	2.4	14.0	140	110	14	0.88	0.22	31.58	0.54	0.46	22.6	6.8	0.83	B
	Jul-24	22°C	7.21	248	387.5	7.6	7.0	131	60	71	140	2.6	16.0	140	110	14	0.48	0.29	39.63	0.74	0.76	13	8	0.49	B
	Aug-24	21°C	7.19	180.4	282	7.7	11	132	48	84	148	2.1	12	150	120	12	0.64	0.36	32.39	0.53	0.5	19.8	10.2	0.75	B
	Sep-24	20°C	7.41	217.6	340	7.6	10	98	48	50	69	2.4	10	170	120	9.3	0.68	0.21	28.71	0.26	0.48	3.9	2.1	0.17	B
	Oct-24	23.7°C	8.1	145	226	8.9	10	125	60	65	130	1.2	10	140	110	7.8	0.75	0.21	32	0.32	0.45	25.7	12.4	1	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 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 Criteria
59	Jan-24	17.9°C	7.70	474	742	5.1	11.0	196	89	107	170	1.6	16.0	170	120	11	0.55	0.2	36.78	0.49	0.39	23	5.9	0.71	B
	Feb-24	18.8°C	7.60	340	531.25	6.8	12.0	220	95	125	185	1.8	16.0	150	94	9.3	0.94	0.88	35.71	0.23	0.41	27.5	6.7	0.8	B
	Mar-24	18.9°C	7.50	355	556	5.8	10.0	209	116	93	216	1.8	12.0	130	79	11	0.64	0.48	36.21	0.53	0.58	17.8	7.5	0.53	B
	Apr-24	24°C	7.60	150	234.375	5.6	12.0	138	58	80	168	1.4	8.0	140	94	9.2	0.39	0.22	38.19	0.24	0.43	12.9	5.2	0.48	B
	May-24	24°C	7.40	151	236	6	11.0	127	55	72	161	2	14.0	120	94	6.1	0.49	0.32	40.19	0.54	0.63	16.9	9.2	0.65	B
	Jun-24	24.2°C	7.28	230	359.375	5.6	12.0	200	97	103	140	2.8	16.0	170	94	12	0.41	0.29	34.16	0.66	0.42	13.4	6.7	0.41	B
	Jul-24	21.8°C	7.64	249	390	5.2	8.0	180	89	91	191	2.6	18.0	170	94	12	0.55	0.39	37.55	0.66	0.72	18.6	12.5	0.6	B
	Aug-24	25°C	7.26	193.2	302	5.9	11	142	50	92	154	2.2	16	150	94	7.8	0.62	0.33	36.28	0.63	0.62	12.7	5.1	0.46	B
	Sep-24	21°C	7.49	386	603	8.1	12	91	42	49	154	1.6	12	170	110	9.3	0.39	0.21	33.91	1.2	0.44	33.3	7.5	1.58	B

	Oct-24	23.5°C	7.6	267	373	8.1	10	170	56	114	165	1.8	12	210	170	11	0.97	0.22	30.22	0.33	0.58	26.2	5.8	0.87	B
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**River Ganga D/S at Sultanpur, 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 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 Criteria
60	Jan-24	24.1°C	7.80	320	501	8.12	7.0	132	62	70	112	1.4	10.0	110	79	14	0.39	0.23	30.12	0.44	0.39	4.7	2.2	0.18	B
	Feb-24	18.5°C	7.70	250	390.625	8.5	8.0	140	65	75	105	1.6	12.0	170	94	11	0.28	0.12	30.06	0.43	0.36	7.1	3.3	0.26	B
	Mar-24	18.7°C	7.90	205	321	8.6	6.0	122	59	63	135	1.4	7.0	120	94	14	0.48	0.13	36.16	0.53	0.56	8.2	6.7	0.32	B
	Apr-24	23°C	7.40	170	265.625	8.8	6.0	119	50	69	167	1.8	10.0	130	79	11	0.25	0.19	33.28	0.45	0.31	29.5	9.1	1.17	B
	May-24	21.4°C	7.20	176	275	8.2	8.0	121	56	65	148	2	10.0	120	94	9.2	0.35	0.29	34.22	0.65	0.65	13.8	9.8	0.54	B
	Jun-24	23.6°C	7.22	160	250	7.2	9.0	130	60	70	75	2.4	11.0	130	79	14	0.3	0.25	37.59	0.45	0.37	17.2	5.3	0.65	B
	Jul-24	21.8°C	7.49	243	380	7.6	5.0	122	56	66	129	2.6	14.0	130	79	14	0.5	0.28	38.71	0.65	0.67	14	8.9	0.55	B
	Aug-24	23°C	7.25	169.6	265	7.6	10	120	50	70	132	2.6	12	130	79	9.2	0.36	0.21	34.29	0.49	0.48	15.5	6.4	0.62	B
	Sep-24	20°C	7.4	129.28	202	8.4	8	82	37	45	112	1.4	7	140	79	6.8	0.29	0.07	18.7	0.78	0.45	3	2.7	0.14	B
	Oct-24	25°C	7.4	207	324	8.6	10	165	79	86	140	1.9	9	170	110	9.3	0.5	0.18	22.3	0.42	0.36	6.8	3.4	0.23	B

**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 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 Criteria
61	Jan-24	12°C	8.20	68	103	10.6	4.0	71	57	14	69	1.0	4.0	47	40	4.0	0.05	0.02	19.86	0.15	0.19	2.9	2.6	0.15	A
	Feb-24	13°C	7.96	61	94	10.4	5.0	65	50	15	63	1.0	4.0	48	41	4.0	0.06	0.01	22.40	0.21	0.25	3.1	2.8	0.17	A
	Mar-24	16°C	7.78	68	103	10.2	6.0	70	56	14	66	1.0	4.0	47	40	6.1	0.09	0.03	24.66	0.16	0.20	3.3	2.9	0.17	A
	Apr-24	20°C	7.58	73	111	10.0	6.0	75	64	11	71	1.0	4.0	48	41	7.8	0.14	0.01	20.78	0.20	0.28	3.1	2.5	0.16	A
	May-24	24°C	7.69	79	120	9.8	7.0	82	69	13	77	1.0	4.0	47	40	6.8	0.09	0.03	22.42	0.25	0.33	3.5	2.9	0.17	A
	Jun-24	26°C	7.57	74	114	10.0	7.0	80	72	08	78	1.0	4.0	46	33	6.8	0.12	0.04	31.67	0.20	0.29	3.4	2.6	0.16	A
	Jul-24	23°C	7.82	90	137	9.8	7.0	94	82	12	88	BDL (<1)	BDL (<5)	48	41	9.3	0.11	0.05	25.62	0.23	0.29	4	3.5	0.18	A
	Aug-24	24°C	7.57	81	128	9.4	6	91	61	30	84	BDL (<1)	BDL (<5)	47	40	6.8	0.10	0.06	25.6	0.21	0.30	3.9	3.3	0.12	A
	Sep-24	24°C	7.54	76	122	9.4	6.0	88	67	21	78	BDL (<1)	BDL (<5)	48	41	6.1	0.03	0.01	20.98	0.19	0.13	3.9	3.2	0.12	A
	Oct-24	21°C	7.53	79	127	9.6	6	89	60	29	79	BDL (<1)	BDL (<5)	48	41	7.8	0.03	0.01	21.72	0.19	0.13	3.5	3.4	0.1	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 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 Criteria
62	Jan-24	11°C	8.11	61	93	10.8	3.0	65	53	12	63	1.0	4.0	41	34	2.0	0.06	0.03	20.60	0.13	0.18	2.6	2.2	0.14	A
	Feb-24	13°C	7.89	55	84	10.6	4.0	61	47	14	59	1.0	4.0	46	33	2.0	0.09	0.02	25.96	0.18	0.16	2.9	2.4	0.16	A
	Mar-24	15°C	7.67	60	91	10.4	5.0	64	52	12	62	1.0	4.0	41	34	2.0	0.06	0.01	22.96	0.13	0.19	3.1	2.6	0.17	A
	Apr-24	19°C	7.49	67	101	10.2	6.0	70	60	10	69	1.0	4.0	38	32	2.0	0.09	0.03	22.43	0.16	0.22	2.9	2.3	0.15	A
	May-24	24°C	7.61	72	109	10.0	6.0	76	64	12	74	1.0	4.0	40	33	2.0	0.11	0.05	30.15	0.20	0.28	3.2	2.7	0.16	A
	Jun-24	25°C	7.62	83	126	10.2	6.0	86	77	09	82	1.0	4.0	40	34	4.0	0.08	0.03	21.97	0.24	0.33	3.7	3.1	0.17	A
	Jul-24	22°C	7.75	87	132	10	7.0	90	79	11	86	BDL (<1)	BDL (<5)	41	34	6.8	0.13	0.06	33.16	0.18	0.3	3.9	3.3	0.18	A
	Aug-24	23°C	7.56	74	123	9.8	6	86	56	30	83	BDL (<1)	BDL (<5)	47	39	6.1	0.15	0.05	32.16	0.20	0.34	3.7	3.4	0.1	A
	Sep-24	23°C	7.43	70	115	9.6	5.0	86	66	20	79	BDL (<1)	BDL (<5)	40	34	4.5	0.08	0.03	22.87	0.17	0.17	3.8	3.1	0.1	A

	Oct-24	20°C	7.43	68	113	9.8	5	82	58	24	74	BDL (<1)	BDL (<5)	40	34	4.5	0.08	0.03	23.16	0.17	0.17	3.4	3.2	0.09	A
<b>Nainital Lake Water Intake, Nainital</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
63	Jan-24	12°C	7.59	256	430	9.0	13.0	256	140	116	202	2.2	6.0	120	94	2.0	0.15	0.05	52.10	0.25	0.20	8.3	2.9	0.22	B
	Feb-24	13°C	7.73	322	480	8.6	15.0	248	134	114	236	2.0	6.0	110	79	2.0	0.18	0.03	56.41	0.20	0.24	7.9	2.7	0.22	B
	Mar-24	15°C	7.89	310	460	8.4	19.0	252	130	122	218	1.4	5.0	150	94	2.0	0.13	0.04	52.63	0.18	0.36	7.4	2.9	0.20	B
	Apr-24	16°C	7.81	302	440	8.0	11.0	256	138	118	224	2.2	6.0	120	70	2.0	0.18	0.06	55.13	0.21	0.31	7.1	3.0	0.19	B
	May-24	17°C	7.63	311	460	7.8	15.0	258	144	114	236	2.0	6.0	110	79	2.0	0.22	0.08	58.42	0.18	0.25	6.8	2.8	0.18	B
	Jun-24	18°C	7.38	324	480	7.4	17.0	252	140	112	220	2.2	6.0	170	110	6.8	0.22	0.07	56.92	0.18	0.24	6.7	2.6	0.18	B
	Jul-24	16°C	7.27	309	460	7.2	15.0	234	128	106	208	2.0	5.0	170	110	6.8	0.25	0.11	55.63	0.22	0.22	11.3	8.6	0.15	B
	Aug-24	16°C	7.48	283	420	7.8	17	232	124	108	212	1.6	5	140	110	6.1	0.28	0.14	51.26	0.20	0.21	10.1	8.3	0.29	B
	Sep-24	15°C	7.53	290	430	8.2	13	242	130	112	204	1.4	5	150	94	6.1	0.11	0.02	45.12	0.15	0.20	10.3	7.9	0.29	B
	Oct-24	15°C	7.36	305	450	8.2	15	244	134	110	212	2	6	110	79	4.5	0.11	0.02	43.85	0.16	0.20	10.0	7.2	0.28	B
<b>Bheemtal Lake Water Intake, Nainital</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
64	Jan-24	14°C	7.35	143	210	8.6	15.0	206	108	98	176	1.8	6.0	110	79	2.0	0.11	0.06	32.10	0.21	0.18	5.7	2.6	0.17	B
	Feb-24	15°C	7.22	166	240	8.4	11.0	188	102	86	162	1.2	5.0	120	94	2.0	0.13	0.04	36.74	0.18	0.22	5.2	2.2	0.16	B
	Mar-24	17°C	7.58	149	220	8.2	13.0	172	98	74	148	1.8	5.0	130	79	4.0	0.16	0.05	40.20	0.22	0.28	4.9	2.0	0.16	B
	Apr-24	18°C	7.40	149	210	7.6	17.0	194	108	86	156	2.0	5.0	150	94	4.5	0.20	0.09	43.63	0.25	0.22	4.5	1.8	0.14	B
	May-24	19°C	7.59	153	220	7.6	11.0	206	112	94	180	1.6	5.0	140	79	4.0	0.26	0.11	45.63	0.21	0.28	4.2	2.0	0.13	B
	Jun-24	19°C	7.47	157	230	7.4	14.0	202	114	88	138	1.8	5.0	140	94	4.0	0.22	0.08	50.94	0.18	0.23	4.0	2.1	0.12	B
	Jul-24	17°C	7.33	149	210	7.4	13.0	172	94	78	144	1.4	4	130	79	6.1	0.23	0.09	48.16	0.2	0.23	10.2	4.1	0.34	B
	Aug-24	17°C	7.25	133	190	7.8	15	180	98	82	158	1.2	4	120	94	6.8	0.30	0.12	50.1	0.18	0.20	8.7	3.5	0.40	B
	Sep-24	16°C	7.47	145	210	8.2	15	192	104	88	166	1.6	5	140	110	7.8	0.09	0.03	30.02	0.16	0.18	8.5	3.8	0.39	B
	Oct-24	16°C	7.54	151	220	8	16	202	108	94	166	1.4	5	170	110	7.8	0.09	0.03	31.38	0.16	0.18	8.1	3.4	0.37	B
<b>Gola River at Haldwani, Nainital</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
65	Jan-24	17°C	7.92	189	280	8.2	25.0	220	118	102	186	2.4	6.0	110	70	4.0	0.15	0.08	28.60	0.20	0.15	4.0	3.1	0.12	B
	Feb-24	19°C	7.48	180	260	8.0	24.0	224	116	108	178	2.2	6.0	120	84	4.0	0.19	0.05	30.63	0.15	0.19	4.3	2.9	0.12	B
	Mar-24	20°C	7.71	191	280	7.8	21.0	236	126	110	208	2.0	6.0	140	94	4.0	0.15	0.06	35.41	0.18	0.26	4.0	2.5	0.11	B
	Apr-24	21°C	7.95	185	270	7.6	23.0	226	120	106	192	2.2	6.0	110	79	2.0	0.23	0.11	43.16	0.15	0.20	3.6	2.2	0.10	B
	May-24	23°C	7.70	191	280	7.4	21.0	230	126	104	198	1.8	5.0	170	84	4.0	0.20	0.14	45.16	0.18	0.23	3.9	2.6	0.11	B
	Jun-24	23°C	7.64	177	260	7.2	19.0	232	122	110	176	2.0	6.0	170	130	4.0	0.20	0.15	44.89	0.17	0.23	3.8	2.4	0.11	B
	Jul-24	21°C	7.47	183	270	7.0	17.0	224	120	104	172	2.0	5.0	140	110	6.8	0.23	0.11	50.13	0.2	0.2	6.3	2.5	0.18	B
	Aug-24	20°C	7.59	169	250	7.4	21	220	118	102	180	1.8	5	170	130	6.8	0.25	0.14	48.96	0.17	0.18	6.4	2.6	0.17	B
	Sep-24	19°C	7.7	177	260	7.8	19	218	112	106	186	2	5	220	140	9.3	0.10	0.02	28.82	0.13	0.25	6.2	2.8	0.17	B
	Oct-24	19°C	7.5	182	270	7.8	23	228	120	108	178	2	6	170	130	9.1	0.10	0.02	29.43	0.13	0.25	6.2	2.8	0.17	B
<b>Sattal lake, Nainital</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	
66	Jan-24	11°C	7.22	115	170	9.0	13.0	162	92	70	160	1.4	5.0	150	94	6.1	0.13	0.06	45.79	0.26	0.22	3.1	2.0	0.11	B	
	Feb-24	12°C	7.80	95	140	8.8	11.0	150	88	62	124	1.2	5.0	130	79	4.0	0.09	0.03	50.41	0.20	0.26	3.4	2.3	0.12	B	
	Mar-24	14°C	7.42	101	150	8.6	9.0	134	78	56	128	1.0	4.0	110	70	4.0	0.18	0.05	55.41	0.23	0.21	3.8	2.5	0.14	B	
	Apr-24	16°C	7.35	97	140	8.2	17.0	142	82	60	134	1.2	4.0	120	84	4.0	0.28	0.08	51.96	0.20	0.26	4.1	2.8	0.15	B	
	May-24	17°C	7.44	108	160	8.0	11.0	170	96	74	140	1.4	4.0	150	79	2.0	0.22	0.07	48.16	0.19	0.24	4.5	3.0	0.15	B	
	Jun-24	18°C	7.50	101	150	7.8	14.0	160	92	68	68	122	1.6	5.0	110	70	4.0	0.20	0.06	47.65	0.19	0.26	4.9	3.1	0.17	B
	Jul-24	17°C	7.61	105	150	7.6	9.0	140	78	62	62	118	1.2	4.0	120	94	4	0.26	0.09	50.66	0.15	0.21	6.7	4.2	0.24	B
	Aug-24	16°C	7.73	92	130	8	11	152	84	68	68	128	1.2	4	140	79	4.5	0.24	0.11	47.62	0.17	0.19	7.2	3.7	0.21	B
	Sep-24	14°C	7.66	103	150	8.2	9	162	92	70	70	132	1.4	4	170	110	6.1	0.07	0.03	36.92	0.18	0.19	6.9	3.5	0.20	B
	Oct-24	15°C	7.48	95	140	8.4	11	160	88	72	72	138	1.2	4	150	94	6.8	0.07	0.03	35.87	0.18	0.19	6.6	3.1	0.20	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 Criteria	
67	Jan-24	13°C	7.60	145	210	8.6	18.0	186	102	84	174	1.2	5.0	140	79	4.0	0.14	0.07	55.66	0.23	0.23	2.9	2.2	0.09	B	
	Feb-24	14°C	7.26	130	190	8.6	13.0	170	92	78	148	1.8	5.0	150	94	4.0	0.11	0.04	60.43	0.18	0.28	3.1	2.0	0.10	B	
	Mar-24	16°C	7.60	117	170	8.2	15.0	160	88	72	154	1.4	4.0	120	70	4.5	0.15	0.06	55.96	0.22	0.25	3.6	2.3	0.12	B	
	Apr-24	17°C	7.88	144	210	7.8	17.0	178	94	84	168	1.8	5.0	170	79	6.1	0.19	0.12	59.14	0.16	0.21	3.9	2.5	0.13	B	
	May-24	18°C	7.71	150	220	7.4	15.0	192	104	88	162	1.6	5.0	120	94	6.1	0.23	0.09	55.46	0.20	0.23	4.1	2.8	0.13	B	
	Jun-24	19°C	7.69	148	220	7.4	17.0	182	102	80	80	154	1.8	5.0	140	79	6.8	0.20	0.09	54.51	0.19	0.20	4.3	2.6	0.14	B
	Jul-24	18°C	7.40	145	210	7.2	14.0	166	92	78	78	148	1.4	4.0	170	94	7.8	0.28	0.06	58.92	0.22	0.22	2.9	2.6	0.10	B
	Aug-24	17°C	7.38	129	190	7.6	17	176	96	80	80	144	1.6	4	130	79	6.1	0.23	0.08	55.41	0.25	0.18	3.7	2.5	0.11	B
	Sep-24	16°C	7.57	155	230	8	13	184	98	86	86	160	1.6	4	120	94	6.1	0.10	0.03	49.18	0.17	0.20	3.6	2.9	0.10	B
	Oct-24	17°C	7.7	142	210	8	12	174	96	78	78	164	1.8	5	110	79	7.8	0.10	0.03	48.26	0.16	0.20	3.5	2.2	0.10	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 Criteria	
68	Jan-24	13°C	7.14	150	210	8.4	24.0	228	120	108	188	2.0	6.0	130	79	4.5	0.13	0.05	35.41	0.19	0.23	3.7	1.4	0.11	B	
	Feb-24	14°C	7.59	118	170	8.4	19.0	200	104	96	154	1.6	5.0	120	94	4.5	0.09	0.03	40.77	0.22	0.28	4.0	1.7	0.12	B	
	Mar-24	16°C	7.47	129	220	8.2	23.0	214	110	104	168	1.8	6.0	110	79	4.5	0.13	0.05	46.71	0.25	0.22	3.8	1.4	0.11	B	
	Apr-24	17°C	7.19	131	190	7.8	21.0	198	106	92	174	2.0	6.0	120	94	4.0	0.18	0.09	50.77	0.20	0.26	4.0	1.8	0.12	B	
	May-24	18°C	7.34	155	220	7.6	19.0	208	112	96	178	1.8	5.0	110	79	4.0	0.23	0.12	53.46	0.23	0.22	3.7	2.0	0.11	B	
	Jun-24	19°C	7.41	144	210	7.4	20.0	190	110	80	80	168	2.0	6.0	110	79	6.8	0.20	0.10	54.45	0.23	0.21	3.9	2.4	0.12	B
	Jul-24	17°C	7.64	129	190	7.4	17.0	186	102	84	84	154	1.4	5.0	120	94	6.8	0.26	0.15	55.41	0.2	0.2	4.9	4.2	0.16	B
	Aug-24	17°C	7.71	124	180	7.8	21	202	108	94	94	160	1.6	5	110	70	6.8	0.23	0.12	58.63	0.23	0.17	5.7	3.8	0.19	B
	Sep-24	16°C	7.38	143	210	8	19	192	104	88	88	164	1.8	5	130	79	4.5	0.11	0.05	24.99	0.13	0.20	5.4	3.4	0.18	B
	Oct-24	15°C	7.44	149	220	8.2	21	194	110	84	84	172	1.4	4	130	79	6.1	0.11	0.05	23.46	0.13	0.20	5.1	3.3	0.17	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 Criteria
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69	Jan-24	16°C	7.20	178	267	7.9	10.0	285	172	113	275	2.2	14.0	280	170	20	0.11	0.27	36.4	0.12	0.26	8.4	5.9	0.22	B
	Feb-24	18°C	7.62	246	370	7.7	12.0	292	178	114	260	2.4	16.0	350	220	13	0.15	0.28	41.2	0.22	0.29	6.8	5.1	0.17	B
	Mar-24	21°C	7.84	286	434	8.0	10.0	305	210	95	275	2.2	14.0	430	280	14	0.12	0.22	29.5	0.18	0.24	18.3	2.7	0.45	B
	Apr-24	26°C	7.92	356	594	7.6	15.0	297	152	145	240	2.6	16.0	540	240	17	0.15	0.49	66.38	0.37	0.21	14.5	5.7	0.36	C
	May-24	33°C	7.32	364	544	7.8	13.0	265	135	130	210	2.5	14.0	430	350	20	0.13	0.41	58.23	0.29	0.28	12.1	1.6	0.32	B
	Jun-24	33°C	7.88	296	494	7.5	15.0	256	135	121	205	2.8	16.0	350	280	32	0.15	0.48	55.28	0.31	0.25	15.2	3.4	0.41	B
	Jul-24	31°C	7.55	176	285	7.8	14.0	146	98	48	140	1.8	12	430	350	70	0.12	0.38	36.55	0.25	0.21	7.4	3.7	0.26	B
	Aug-24	30	7.51	158	260	7.4	18	130	87	43	120	2.1	12	350	280	79	0.22	0.81	68.12	0.35	0.25	7	5.7	0.27	B
	Sep-24	30°C	7.38	191	316	7.6	14	145	98	47	130	2	10.4	430	350	94	0.18	0.65	46.74	0.28	0.23	8.5	4.9	0.31	B
	Oct-24	30	7.56	292	484	7.4	18	160	102	58	145	2.2	12	350	280	110	0.24	0.75	52.18	0.32	0.25	10.2	4.5	0.35	B

**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 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
70	Jan-24	13°C	7.60	136	205	7.2	12.0	198	142	56	210	2.4	16.0	350	210	40	0.21	0.22	48.1	0.08	0.31	14.3	4.5	0.44	B
	Feb-24	20°C	7.84	166	254	7.0	14.0	228	161	67	195	2.5	18.0	280	220	32	0.24	0.26	52.5	0.11	0.26	12.5	3.5	0.36	B
	Mar-24	21°C	7.76	238	358	6.6	16.0	195	161	34	170	2.8	20.0	540	240	38	0.31	0.29	64.6	0.15	0.28	13.3	5.2	0.41	C
	Apr-24	32°C	7.88	226	379	6.4	15.0	159	90	69	155	3.0	20.0	430	350	40	0.49	0.35	19.32	0.05	0.40	20.1	4.7	0.69	B
	May-24											River was dry.													
	Jun-24											River was dry.													
	Jul-24	29°C	7.58	185	312	6.1	15.0	104	70	34	120	2.4	16	350	280	40	0.42	0.31	24.58	0.09	0.35	7.8	5.3	0.33	B
	Aug-24	29	7.8	194	358	6.6	13	154	98	56	175	2.2	12	280	240	70	0.52	0.43	32.7	0.11	0.39	12	4.4	0.42	B
	Sep-24	27°C	7.64	148	242	6.8	9	125	79	46	115	2	12	350	210	79	0.35	0.29	28.24	0.08	0.31	5.1	1.4	0.2	B
	Oct-24	27	7.74	217	362	6.1	15	138	86	52	130	2.4	13.6	430	350	79	0.41	0.32	35.72	0.11	0.3	6.8	2.2	0.25	B

**Dhella River D/S at Thakurdwara, Aliganj Road, 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 Criteria
71	Jan-24	14°C	7.30	298	470	2.4	48.0	296	218	78	295	25.0	160.0	430	280	94	0.43	0.65	61.9	0.15	0.35	74.9	14.4	1.89	E
	Feb-24	20°C	7.39	342	512	2.6	46.0	316	230	86	275	23.0	144.0	350	240	79	0.38	0.51	65.5	0.18	0.32	78.5	13.1	1.91	E
	Mar-24	22°C	7.11	378	567	2.2	49.0	255	188	67	245	26.0	160.0	920	430	110	0.49	0.54	96.8	0.28	0.38	36.4	8.8	0.99	E
	Apr-24	33°C	7.13	375	633	1.2	88.0	235	185	50	220	30.0	176.0	1600	540	140	0.31	0.83	110.34	0.30	0.48	84.2	24.1	2.38	E
	May-24	36°C	7.63	572	855	0.8	80.0	275	214	61	245	34.0	192.0	920	540	170	0.55	0.41	141.46	0.62	0.72	149.0	7.6	3.9	E
	Jun-24	36°C	7.51	756	1260	0.7	129.0	345	265	80	385	38.0	240.0	920	350	94	0.75	0.65	201.52	0.98	0.83	168.2	11.6	3.92	E
	Jul-24	31°C	7.19	456	764	1.8	78.0	252	184	68	185	32	176	1600	540	110	0.62	0.56	94.32	0.72	0.64	15.3	6.2	0.42	E

	Aug-24	32	7.09	509	842	1.6	72	282	205	77	295	36	192	920	540	94	0.58	0.51	74.78	0.58	0.52	78.3	10.4	0.02	E
	Sep-24	28°C	7.21	297	485	2	42	204	146	58	205	30	160	540	350	79	0.47	0.42	58.51	0.38	0.46	27.9	5.6	0.85	E
	Oct-24	30	6.95	508	842	1.6	48	225	158	67	235	32	176	920	350	110	0.54	0.48	74.28	0.44	0.48	25.8	4.1	0.75	E

**Bhella River U/S Kashipur, (U/S Ramnagar Road), 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 Streptococci (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
72	Jan-24	16°C	7.50	117	175	7.0	11.0	156	120	36	145	2.0	12.0	220	170	48	0.29	0.18	23.13	0.03	0.24	12.5	3.4	0.43	B
	Feb-24	14°C	7.41	165	252	6.8	13.0	168	128	40	150	2.4	15.0	280	220	39	0.26	0.21	28.4	0.08	0.25	10.2	3.8	0.34	B
	Mar-24	18°C	7.65	172	259	6.2	15.0	155	119	36	160	2.8	18.0	350	280	33	0.29	0.22	36.8	0.11	0.25	7.7	2.4	0.27	B
	Apr-24	27°C	7.73	148	244	6.4	15.0	107	70	37	130	2.5	16.0	540	240	40	0.23	0.35	26.91	0.08	0.51	6.5	2.8	0.27	C
	May-24													River was dry.											
	Jun-24													River was dry.											
	Jul-24	27°C	7.01	162	264	6.4	12.0	130	79	51	115	2.1	12	350	220	32	0.42	0.28	32.42	0.11	0.35	8.8	4.1	0.33	B
	Aug-24	28	7.11	186	306	6.5	15	144	92	52	160	2	12	350	240	39	0.51	0.36	30.56	0.15	0.38	12.1	3.5	0.44	B
	Sep-24	27°C	7.19	195	327	7	13	162	105	57	155	1.8	13.6	430	280	70	0.41	0.29	25.46	0.11	0.32	13.6	5.5	0.46	B
	Oct-24	25	7.26	221	369	6.4	17	174	114	60	170	2.2	12.8	430	350	48	0.45	0.35	29.22	0.18	0.35	12.2	5.9	0.4	B

**Bhella River at Lohia Bridge D/S Kashipur (D/S Lohiya 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 Streptococci (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
73	Jan-24	16°C	7.20	164	270	2.8	28.0	254	162	92	265	16.0	120.0	540	430	94	0.30	0.26	38.06	0.13	0.45	27.3	8.6	0.74	E
	Feb-24	19°C	6.85	215	324	2.8	30.0	285	178	107	255	17.0	104.0	430	350	70	0.32	0.25	42.6	0.22	0.48	29.2	8.1	0.75	E
	Mar-24	21°C	6.93	305	456	3.0	28.0	224	140	84	210	16.0	96.0	540	430	79	0.40	0.32	68.2	0.26	0.45	16.5	8.8	0.48	E
	Apr-24	30°C	6.37	315	522	2.2	86.0	260	153	107	225	18.0	104.0	920	540	94	0.43	0.52	41.72	0.10	0.80	52.7	9.9	1.42	E
	May-24	32°C	6.52	634	948	1.4	89.0	285	166	119	240	24.0	160.0	1600	920	110	0.62	0.58	84.62	0.45	0.96	81.5	1.6	2.09	E
	Jun-24	36°C	6.61	498	828	1.2	107.0	320	205	115	305	28.0	192.0	430	350	94	0.78	0.42	104.68	0.74	0.81	112.0	5.2	2.71	E
	Jul-24	33°C	6.95	385	642	2.2	52.0	240	178	62	215	22	128	920	540	110	0.52	0.31	75.62	0.63	0.66	20.7	8.8	0.58	E
	Aug-24	31	6.3	397	668	2.1	46	280	212	68	305	24	140	1600	920	140	0.72	0.46	69.17	0.52	0.61	41.1	8	1.06	E
	Sep-24	31°C	6.78	384	644	2.2	41	290	218	72	380	22	120	1600	540	170	0.67	0.38	48.44	0.46	0.51	33.1	8.3	0.84	E
	Oct-24	30	6.56	375	622	1.5	54	312	234	78	390	24	136	920	540	110	0.67	0.35	62.14	0.52	0.55	29.8	9.2	0.73	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 Streptococci (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
74	Jan-24	14°C	7.50	325	484	7.4	11.0	262	195	67	255	2.0	14.0	540	350	110	0.13	0.17	55.6	0.24	0.29	12.2	4.3	0.33	C
	Feb-24	18°C	7.34	312	470	7.1	13.0	228	172	56	240	2.4	18.0	430	280	94	0.21	0.28	64.2	0.28	0.32	10.8	4.6	0.31	B
	Mar-24	20°C	7.42	325	492	6.8	15.0	240	182	58	255	2.6	20.0	350	240	79	0.28	0.26	59.8	0.32	0.38	12.4	4.1	0.35	B

	Apr-24	22°C	7.56	298	492	6.4	17.0	215	156	59	245	2.9	22.0	430	350	70	0.22	0.29	44.52	0.32	0.32	14.8	3.8	0.44	B
	May-24	29°C	7.71	368	551	6.8	15.0	225	162	63	235	2.6	20.0	350	280	110	0.24	0.26	40.12	0.38	0.36	20.8	1.1	0.60	B
	Jun-24	30°C	7.55	356	579	6.2	22.0	240	162	78	220	2.8	20.0	540	240	130	0.29	0.42	65.42	0.52	0.44	25.6	2.1	0.71	C
	Jul-24	28°C	7.23	261	436	6.8	24.0	194	145	49	210	2.4	16	430	350	94	0.24	0.46	46.52	0.4	0.37	17.2	2.1	0.54	B
	Aug-24	27	7.52	254	419	6.6	29	178	135	43	185	2.6	16	350	280	110	0.36	0.62	54.26	0.61	0.32	15.6	3.5	0.51	B
	Sep-24	27°C	7.25	224	358	6.8	25	141	106	35	165	2.2	14.4	540	220	94	0.39	0.52	43.52	0.49	0.26	12.8	3.3	0.47	C
	Oct-24	25	7.36	235	389	6.2	29	154	111	43	170	2.5	16	540	350	94	0.42	0.55	52.18	0.55	0.31	14.2	5.1	0.5	C

**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 Streptococci (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	
75	Jan-24											River was dry.														
	Feb-24	17°C	7.49	146	222	8.2	9.0	155	102	53	145	1.6	8.0	920	430	94	0.24	0.18	18.4	0.03	0.21	7.4	1.4	0.26	C	
	Mar-24	20°C	7.86	236	353	7.6	11.0	180	114	66	160	2.0	10.0	920	540	110	0.32	0.24	24.6	0.08	0.19	8.6	2.2	0.28	C	
	Apr-24	River was																								
	May-24																									
	Jun-24														River was found Dry											
	Jul-24	29°C	7.84	105	184	8.1	14.0	108	74	34	115	1.6	8	920	350	70	0.34	0.22	18.53	0.05	0.13	4.5	2.6	0.19	C	
	Aug-24	28	7.91	139	228	8	17	124	89	35	140	1.8	12	920	540	79	0.54	0.42	17.26	0.09	0.15	4.9	2.3	0.19	C	
	Sep-24	29°C	7.84	148	245	8.4	8	104	71	33	115	1.5	8	540	350	110	0.46	0.33	15.69	0.08	0.12	5.9	3.5	0.25	C	
	Oct-24	30	8.11	166	272	8	12	119	84	35	125	1.4	8.8	920	540	110	0.44	0.39	24.29	0.12	0.09	6.1	2.8	0.24	C	

**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 Streptococci (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
76	Jan-24	14°C	7.40	165	248	8.0	13.0	236	148	88	275	2.2	12.0	920	540	220	0.38	0.30	17.12	0.11	0.31	10.1	3.5	0.28	C
	Feb-24	17°C	7.81	233	352	7.8	15.0	286	177	109	260	2.4	12.0	1600	920	280	0.31	0.24	21.5	0.15	0.25	11.2	4.4	0.29	C
	Mar-24	20°C	7.89	274	411	6.9	18.0	236	145	91	220	2.8	16.0	17×10 <sup>2</sup>	14×10 <sup>2</sup>	240	0.44	0.31	42.6	0.21	0.32	8.8	2.0	0.25	C
	Apr-24	28°C	7.95	232	398	7.2	17.0	206	120	86	185	2.6	14.0	21×10 <sup>2</sup>	11×10 <sup>2</sup>	220	0.44	0.32	18.04	0.18	0.37	9.0	2.5	0.27	C
	May-24	35°C	7.92	222	334	7.0	18.0	214	126	88	195	2.8	16.0	1600	920	170	0.48	0.36	32.12	0.32	0.45	11.2	0.5	0.33	C
	Jun-24	35°C	7.88	247	412	6.6	25.0	188	112	76	150	3.0	20.0	28×10 <sup>2</sup>	22×10 <sup>2</sup>	350	0.61	0.38	56.28	0.48	0.39	22.4	2.1	0.70	C
	Jul-24	35°C	7.62	134	228	7.2	20.0	129	92	37	135	2.8	16	1600	920	220	0.52	0.35	40.54	0.42	0.28	5.4	3.4	0.21	C
	Aug-24	32	7.72	152	264	7.1	25	145	106	39	185	2.8	20	920	540	170	0.68	0.51	28.39	0.36	0.35	5.9	3.1	0.21	C
	Sep-24	29°C	7.79	194	328	7.8	13	184	131	53	155	2.4	16	920	540	140	0.54	0.39	21.24	0.28	0.3	7.9	4.8	0.25	C
	Oct-24	31	7.83	224	370	7.5	19	194	138	56	165	2.8	17.6	1600	920	170	0.61	0.48	38.15	0.29	0.35	8.9	3.5	0.28	C

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 Criteria
77	Jan-24	15°C	7.60	254	385	5.8	29.0	288	176	112	255	3.2	28.0	430	220	47	0.25	0.48	60.56	0.18	0.29	35.1	7.5	0.90	D
	Feb-24	20°C	7.82	356	535	5.6	30.0	272	175	97	265	3.3	28.0	540	350	70	0.21	0.41	55.2	0.20	25	31.4	9.2	0.83	D
	Mar-24	22°C	7.79	411	626	4.6	32.0	284	185	99	255	3.5	36.0	1600	920	130	0.24	0.39	66.4	0.28	0.26	37.4	5.2	0.96	D
	Apr-24	27°C	7.86	418	706	4.4	55.0	294	168	126	240	3.8	40.0	17×10 <sup>2</sup>	11×10 <sup>2</sup>	140	0.24	0.33	65.94	0.21	0.41	53.5	7.2	1.35	D
	May-24	34°C	6.80	432	648	4.0	57.0	285	160	125	250	4.9	48.0	21×10 <sup>2</sup>	14×10 <sup>2</sup>	140	0.41	0.36	95.46	0.46	0.72	108.0	2.5	2.77	D
	Jun-24	34°C	7.98	582	964	3.6	79.0	348	210	138	325	6.2	64.0	1600	920	130	0.64	0.52	134.52	0.74	0.64	132.0	4.2	3.11	E
	Jul-24	34°C	7.51	295	488	5.5	35.0	219	162	57	195	4.8	52	>1600	1600	210	0.55	0.46	78.94	0.71	0.58	18.7	6.8	0.55	D
	Aug-24	35	7.45	295	488	6	32	186	128	58	190	4.2	44	1600	920	170	0.76	0.82	75.01	0.68	0.64	16.2	7.9	0.52	D
	Sep-24	30°C	7.35	258	418	6.6	18	176	121	55	180	3.8	32	>1600	920	130	0.48	0.55	56.42	0.51	0.58	16	11.1	0.52	D
	Oct-24	28	7.72	304	502	5.8	25	198	135	63	195	4	36	1700	1100	210	0.59	0.62	68.12	0.54	0.67	18.5	9.3	0.57	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 Criteria
78	Jan-24	15°C	7.40	203	312	6.9	7.0	218	172	46	280	2.1	10.0	540	430	140	0.24	0.16	14.57	0.06	0.27	8.9	3.0	0.26	C
	Feb-24	17°C	7.96	294	442	6.5	10.0	254	198	56	245	2.4	16.0	920	350	110	0.28	0.21	25.4	0.11	0.22	5.8	2.2	0.16	C
	Mar-24	19°C	7.84	353	551	7.1	9.0	266	208	58	260	2.2	14.0	540	430	140	0.22	0.18	28.2	0.12	0.15	8.1	2.3	0.22	C
	Apr-24	23°C	7.67	335	573	6.2	13.0	283	155	128	270	2.6	20.0	430	350	110	0.52	0.40	48.72	0.41	0.35	14.6	5.1	0.38	B
	May-24	26°C	6.78	384	575	5.6	17.0	294	163	131	255	2.9	20.0	540	240	140	0.56	0.38	54.18	0.48	0.44	9.4	0.1	0.24	C
	Jun-24													River was found Dry.											
	Jul-24	29°C	7.41	292	476	5.4	22	243	154	89	220	2.8	20	430	220	94	0.38	0.29	28.22	0.23	0.54	8.5	4.1	0.24	B
	Aug-24	28	7.41	235	384	5.2	19	270	175	95	255	3	24	350	280	79	0.45	0.36	26.54	0.25	0.58	10.7	3.1	0.28	B
	Sep-24	26°C	7.27	205	338	6.2	9	191	125	66	185	2.8	20	540	350	94	0.39	0.27	23.54	0.19	0.45	6	2.5	0.19	C
	Oct-24	26	7.48	321	530	5.5	15	206	135	71	190	3	21.6	430	350	94	0.42	0.35	29.32	0.25	0.34	7	3.2	0.21	B
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 Criteria
79	Jan-24	17°C	7.30	146	228	8.2	11.0	132	86	46	190	1.8	10.0	210	170	70	0.27	0.24	15.57	0.02	0.23	9.8	2.1	0.37	B
	Feb-24	17°C	7.88	189	295	8.0	12.0	158	98	60	180	2.0	12.0	280	220	94	0.28	0.19	21.4	0.08	0.24	7.8	2.4	0.27	B
	Mar-24	20°C	7.86	244	365	7.2	14.0	172	108	64	165	2.4	16.0	350	280	110	0.35	0.21	28.6	0.11	0.28	9.8	2.8	0.32	B
	Apr-24	29°C	7.62	172	294	7.0	17.0	220	138	82	180	2.6	16	430	220	94	0.29	0.37	15.27	0.04	0.46	8.8	2.8	0.26	B
	May-24	31°C	7.89	246	370	7.2	15.0	242	154	88	195	2.4	14.0	350	220	94	0.25	0.29	18.24	0.06	0.34	11.7	0.4	0.33	B

	Jun-24	34°C	7.72	258	430	6.8	21.0	212	115	97	205	2.6	14.0	540	350	110	0.29	0.25	25.4	0.15	0.34	15.2	1.2	0.45	C
	Jul-24	32°C	7.68	156	268	7.8	12.0	133	95	38	145	1.8	12	430	350	94	0.23	0.18	20.86	0.12	0.28	6.1	3	0.23	B
	Aug-24	30	7.82	162	276	7.8	19	142	95	47	170	2	12	540	430	110	0.48	0.44	18.89	0.11	0.18	6	2.6	0.22	C
	Sep-24	28°C	7.89	168	285	8.1	11	122	81	41	135	1.8	11.2	430	350	94	0.51	0.37	17.24	0.12	0.15	6.5	3.9	0.26	B
	Oct-24	31	7.69	216	356	7.8	15	144	94	50	150	2	12	1600	540	140	0.55	0.42	30.24	0.21	0.24	6.4	3	0.23	C

**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 Streptococci (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
80	Jan-24	17°C	7.20	294	456	2.2	45.0	332	204	128	320	26.0	176.0	1600	540	140	0.31	0.68	66.19	0.18	0.78	45.4	11.5	1.08	E
	Feb-24	19°C	6.93	418	628	1.8	49.0	356	217	139	335	28.0	192.0	920	540	170	0.38	0.54	88.3	0.32	0.54	52.6	13.2	1.21	E
	Mar-24	22°C	7.13	462	702	1.6	51.0	363	222	141	325	30.0	208.0	1600	920	220	0.44	0.51	106.5	0.68	0.59	25.3	5.2	0.58	E
	Apr-24	24°C	6.34	432	729	0.8	42.0	333	191	142	295	32.0	240.0	1600	540	170	0.48	0.57	106.5	1.35	0.68	49.1	9.2	1.16	E
	May-24	27°C	7.53	505	754	Nil	58.0	384	218	166	320	36.0	272.0	1600	540	170	0.78	0.64	144.6	1.65	0.96	55.0	1.2	1.22	E
	Jun-24	33°C	6.75	554	916	Nil	120.0	364	179	185	305	42.0	304.0	540	350	170	1.12	0.89	218.0	1.78	1.12	78.6	5.4	1.78	E
	Jul-24	30°C	6.81	424	714	3.1	66.0	310	195	115	265	30	160	920	240	110	0.93	0.74	102.53	0.86	0.73	30.9	7.2	0.76	E
	Aug-24	29	6.81	416	690	2.4	74	320	206	114	295	34	192	1600	540	94	0.75	0.53	71.32	0.59	0.69	32.6	5.7	0.79	E
	Sep-24	28°C	7.08	304	494	2.9	45	238	149	89	245	28	152	920	540	110	0.64	0.38	54.64	0.48	0.51	14.1	8.9	0.4	E
	Oct-24	27	7.1	404	668	2.2	59	274	171	103	255	32	176	1600	920	170	0.75	0.44	74.56	0.78	0.65	19.8	10.2	0.52	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 Streptococci (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
81	Jan-24	14°C	7.55	159	230	8.2	21.0	234	120	114	182	2.2	6.0	120	94	2.0	0.15	0.09	55.63	0.22	0.28	5.4	1.9	0.15	B
	Feb-24	15°C	7.71	129	190	8.2	25.0	212	110	102	168	1.4	5.0	110	79	2.0	0.18	0.04	53.42	0.18	0.22	5.1	1.7	0.15	B
	Mar-24	17°C	7.29	163	240	8.0	17.0	226	118	108	190	2.0	6.0	120	94	2.0	0.15	0.06	50.41	0.20	0.18	5.4	2.0	0.16	B
	Apr-24	18°C	7.71	149	220	7.6	21.0	238	124	114	198	1.8	6.0	110	79	2.0	0.17	0.08	52.15	0.18	0.16	5.0	2.3	0.14	B
	May-24	20°C	7.63	161	240	7.2	24.0	230	120	110	192	2.0	6.0	170	94	4.5	0.18	0.08	58.42	0.22	0.26	4.7	2.1	0.13	B
	Jun-24	21°C	7.57	157	230	7.4	21.0	214	112	102	180	1.4	5.0	110	79	4.0	0.19	0.17	59.72	0.20	0.26	4.5	2.0	0.13	B
	Jul-24	30°C	6.81	424	714	3.1	66.0	310	195	115	265	30	160	920	240	110	0.93	0.74	102.53	0.86	0.73	30.9	7.2	0.76	E
	Aug-24	20°C	7.54	159	230	7.4	19	218	112	106	176	1.8	5	110	79	4.5	0.18	0.11	63.42	0.28	0.32	6.3	2.5	0.20	B
	Sep-24	18°C	7.66	156	230	7.8	17	212	110	102	168	1.6	5	94	70	4.5	0.10	0.04	30.76	0.18	0.27	6.4	2.3	0.19	B
	Oct-24	18°C	7.78	163	240	8.0	19	220	114	104	178	1.8	5	140	110	6.1	0.10	0.04	31.14	0.18	0.27	6.5	2.1	0.19	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 Streptococci (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
82	Jan-24	15°C	7.87	165	240	8.4	24.0	214	112	102	174	1.6	5.0	140	79	4.0	0.11	0.09	42.13	0.19	0.31	3.0	1.6	0.09	B
	Feb-24	17°C	7.50	143	210	8.0	21.0	200	108	92	160	2.0	6.0	120	70	4.0	0.16	0.11	45.63	0.13	0.20	3.3	1.8	0.10	B

	Mar-24	18°C	7.14	177	260	7.8	19.0	230	124	106	202	2.2	6.0	110	79	4.0	0.11	0.09	48.71	0.16	0.15	3.1	1.5	0.09	B
	Apr-24	19°C	7.57	168	240	7.6	23.0	220	118	102	186	1.4	5.0	150	70	2.0	0.11	0.10	49.90	0.15	0.13	3.3	1.8	0.10	B
	May-24	21°C	7.49	159	230	7.4	21.0	232	124	108	180	1.8	5.0	120	94	2.0	0.11	0.11	48.71	0.16	0.15	3.7	2.0	0.11	B
	Jun-24	20°C	7.66	180	260	7.2	24.0	226	120	106	194	2.0	6.0	140	94	12	0.10	0.10	47.67	0.16	0.14	3.9	2.1	0.11	B
	Jul-24	20°C	7.71	175	250	7.2	21.0	214	112	102	178	2.0	5.0	170	79	9.3	0.15	0.10	50.66	0.2	0.19	5.8	3.7	0.17	B
	Aug-24	19°C	7.62	163	240	7.6	19	220	116	104	164	1.6	5	120	94	6.1	0.12	0.12	52.41	0.23	0.25	6.2	3.4	0.18	B
	Sep-24	18°C	7.41	160	230	8	19	222	114	108	170	1.8	5	140	79	4.5	0.11	0.04	29.24	0.20	0.28	5.9	3.3	0.17	B
	Oct-24	17°C	7.65	155	220	8	21	226	120	106	166	1.4	5	140	79	4.5	0.11	0.04	30.22	0.20	0.28	5.9	3.1	0.27	B