

River Alaknanda at Badrinath																									
1	Jun-23	13.5°C	7.30	26	43	11.2	2.0	13	10	03	15	1.0	4.0	1.8	1.8	ND	0.09	0.003	14.87	0.11	0.15	4.2	4.9	0.50	A
River Alaknanda B/C River Dhauli Ganga at Vishnuprayag																									
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal 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	Jan-23	05°C	7.22	37	57	11.4	4.0	40	26	14	34	1.0	4.0	1.8	1.8	ND	0.06	0.02	27.85	0.15	0.23	2.9	1.3	0.19	A
	Feb-23	08°C	7.10	95	150	11.2	4.0	96	74	22	88	1.0	4.0	1.8	1.8	ND	0.09	0.03	18.36	0.15	0.12	10.4	3.5	0.46	A
	Mar-23	04°C	8.01	33	53	11.4	3.0	37	28	9	35	1.0	4.0	1.8	1.8	ND	0.02	0.01	25.10	0.15	0.16	2.8	2.0	0.19	A
	Apr-23	15°C	7.60	84	127	11.2	5.0	90	70	20	80	1.0	4.0	1.8	1.8	ND	0.09	0.02	48.30	0.13	0.16	6.3	2.4	0.28	A
	May-23	12°C	8.20	32	48	11.4	6.0	96	81	15	78	1.0	4.0	1.8	1.8	ND	0.11	0.03	46.22	0.14	0.14	4.5	2.0	0.19	A
	Jun-23	14°C	7.90	30	48	11.0	4.0	16	13	03	20	1.0	4.0	1.8	1.8	ND	0.07	0.002	17.33	0.12	0.13	3.9	4.3	0.42	A
	Jul-23	12°C	7.98	22	35	10.8	3.0	20	15	05	23	1.0	4.0	1.8	1.8	ND	0.08	0.03	18.10	0.10	0.17	3.7	3.4	0.36	A
	Aug-23	10°C	8.40	27	45	11.0	4.0	33	21	12	24	1.0	4.0	2.0	<1.8	ND	0.04	0.01	19.28	0.13	0.24	1.3	1.6	0.10	A
	Sep-23	15°C	7.14	18	30	11.2	5.0	24	20	04	28	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.02	15.63	0.11	0.20	1.1	1.3	0.09	A
River Dhauli Ganga B/C River Alaknanda at Vishnuprayag																									
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal 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-23	06°C	7.68	120	184	10.8	5.0	72	50	22	85	1.0	4.0	1.8	1.8	ND	0.07	0.02	58.63	0.20	0.30	3.7	1.9	0.18	A
	Feb-23	09°C	7.52	193	295	10.6	5.0	144	109	35	111	1.0	4.0	1.8	1.8	ND	0.07	0.02	17.15	0.13	0.14	10.2	3.1	0.36	A
	Mar-23	05°C	7.90	88	134	11.0	4.0	103	93	10	73	1.0	4.0	1.8	1.8	ND	0.08	0.03	60.25	0.13	0.19	2.5	2.2	0.10	A
	Apr-23	16°C	7.80	90	138	10.8	6.0	140	100	40	102	1.0	4.0	1.8	1.8	ND	0.10	0.05	51.38	0.15	0.16	2.6	2.1	0.09	A
	May-23	13°C	8.10	34	53	11.0	5.0	88	73	15	62	1.0	4.0	1.8	1.8	ND	0.11	0.02	45.14	0.16	0.13	2.2	1.7	0.10	A
	Jun-23	13.8°C	8.03	93	145	10.6	3.0	85	70	15	46	1.0	4.0	1.8	1.8	ND	0.05	0.002	32.43	0.08	0.16	3.1	3.4	0.14	A
	Jul-23	13°C	8.21	81	124	10.2	4.0	71	58	13	51	1.0	4.0	1.8	1.8	ND	0.03	0.02	35.11	0.09	0.20	3.5	3.2	0.18	A
	Aug-23	09°C	8.25	79	118	10.4	2.0	98	55	43	53	1.0	4.0	2.0	<1.8	ND	0.02	0.01	29.20	0.10	0.18	2.0	2.4	0.09	A
	Sep-23	14°C	7.99	66	101	10.6	6.0	101	75	26	60	1.0	4.0	2.0	<1.8	<1.8	0.05	0.03	22.10	0.09	0.15	1.7	2.1	0.07	A
River Alaknanda A/C River Dhauli Ganga at Vishnuprayag																									
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal 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-23	05°C	7.52	70	108	11.0	6.0	51	31	20	58	1.0	4.0	1.8	1.8	ND	0.05	0.03	50.23	0.17	0.27	3.2	1.5	0.19	A
	Feb-23	08°C	7.40	82	124	10.8	5.0	116	80	36	86	1.0	4.0	1.8	1.8	ND	0.09	0.02	16.94	0.15	0.14	10.1	3.5	0.40	A
	Mar-23	04°C	8.05	68	103	11.2	3.0	69	51	18	61	1.0	4.0	1.8	1.8	ND	0.03	0.02	55.33	0.12	0.22	2.6	1.6	0.13	A
	Apr-23	15°C	7.40	75	115	11.0	5.0	110	86	24	80	1.0	4.0	1.8	1.8	ND	0.13	0.06	43.14	0.18	0.19	3.7	2.3	0.15	A
	May-23	12°C	8.32	30	50	11.2	4.0	102	89	13	60	1.0	4.0	1.8	1.8	ND	0.15	0.03	52.31	0.16	0.17	3.2	1.9	0.13	A
	Jun-23	14°C	7.80	83	128	10.8	3.0	71	59	12	56	1.0	4.0	1.8	1.8	ND	0.08	0.003	19.82	0.13	0.15	3.7	3.9	0.19	A
	Jul-23	12°C	7.92	70	108	10.6	3.0	63	52	11	49	1.0	4.0	1.8	1.8	ND	0.06	0.01	17.33	0.15	0.22	3.4	3.0	0.19	A
	Aug-23	10°C	8.30	46	69	10.8	3.0	55	38	17	30	1.0	4.0	2.0	<1.8	ND	0.08	0.03	20.20	0.16	0.22	1.4	1.9	0.08	A
	Sep-23	14°C	8.10	56	85	11.0	5.0	85	67	18	50	1.0	4.0	2.0	<1.8	<1.8	0.09	0.02	18.63	0.11	0.20	1.2	1.5	0.06	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

5	Jan-23	06°C	7.08	80	123	10.8	4.0	58	47	11	70	1.0	4.0	1.8	1.8	ND	0.10	0.05	19.37	0.18	0.23	3.1	2.0	0.17	A
	Feb-23	11°C	7.19	84	128	10.6	4.0	120	96	24	102	1.0	4.0	1.8	1.8	ND	0.09	0.02	16.83	0.16	0.17	8.7	3.8	0.34	A
	Mar-23	06°C	8.03	86	131	10.8	4.0	76	57	19	62	1.0	4.0	1.8	1.8	ND	0.02	0.02	19.23	0.15	0.22	3.1	2.1	0.15	A
	Apr-23	15°C	7.50	90	137	10.8	5.0	124	94	30	98	1.0	4.0	1.8	1.8	ND	0.11	0.03	20.62	0.19	0.15	4.3	2.3	0.16	A
	May-23	15°C	7.80	76	116	10.8	5.0	78	64	14	64	1.0	4.0	1.8	1.8	ND	0.09	0.03	18.10	0.14	0.15	3.9	2.1	0.19	A
	Jun-23	18°C	7.90	78	118	10.4	5.0	65	52	13	61	1.0	4.0	1.8	1.8	ND	0.04	0.006	18.69	0.12	0.15	4.3	4.6	0.23	A
	Jul-23	13°C	8.03	67	103	10.2	4.0	60	50	10	54	1.0	4.0	1.8	1.8	ND	0.09	0.03	17.25	0.14	0.11	3.9	3.7	0.22	A
	Aug-23	12°C	8.38	55	85	10.4	3.0	64	44	20	46	1.0	4.0	2.0	<1.8	ND	0.06	0.01	19.24	0.18	0.24	1.6	3.1	0.09	A
	Sep-23	16°C	8.26	68	102	10.6	5.0	78	63	15	56	1.0	4.0	2.0	<1.8	<1.8	0.04	0.01	17.33	0.15	0.18	1.4	2.7	0.07	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 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
6	Jan-23	07°C	7.26	86	130	10.6	5.0	62	44	18	89	1.0	4.0	40	24	ND	0.05	0.02	25.11	0.13	0.19	2.9	2.4	0.15	A
	Feb-23	09°C	7.34	77	118	10.4	6.0	92	71	21	86	1.0	4.0	43	21	ND	0.08	0.03	15.80	0.18	0.19	7.9	3.0	0.35	A
	Mar-23	07°C	8.10	83	127	10.6	3.0	81	72	9	80	1.0	4.0	39	33	ND	0.07	0.02	23.25	0.12	0.20	2.7	2.6	0.13	A
	Apr-23	16°C	8.17	96	146	10.4	4.0	100	74	26	80	1.0	4.0	33	31	ND	0.10	0.03	20.10	0.15	0.15	3.0	2.6	0.13	A
	May-23	14°C	7.90	71	108	10.6	4.0	73	62	11	60	1.0	4.0	47	39	ND	0.13	0.02	23.11	0.16	0.16	2.8	2.3	0.14	A
	Jun-23	17°C	7.60	69	106	10.2	2.0	50	44	06	50	1.0	4.0	41	39	ND	0.09	0.001	7.09	0.16	0.11	3.4	3.2	0.20	A
	Jul-23	14°C	7.76	56	86	9.8	3.0	47	42	05	45	1.0	4.0	47	40	ND	0.11	0.01	13.20	0.20	0.15	3.0	2.6	0.19	A
	Aug-23	11°C	8.27	50	80	10.0	2.0	60	43	17	51	1.0	4.0	39	22	ND	0.07	0.03	16.33	0.11	0.14	2.0	3.0	0.11	A
	Sep-23	17°C	8.08	46	70	10.2	6.0	56	42	14	52	1.0	4.0	26	22	<1.8	0.08	0.02	13.42	0.13	0.17	1.8	2.6	0.10	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 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
7	Jan-23	06°C	7.30	89	136	10.8	5.0	52	35	17	81	1.0	4.0	1.8	1.8	ND	0.09	0.03	16.20	0.20	0.22	3.1	2.0	0.18	A
	Feb-23	10°C	7.43	86	131	10.6	4.0	111	90	21	107	1.0	4.0	1.8	1.8	ND	0.10	0.02	16.96	0.18	0.17	8.5	3.6	0.35	A
	Mar-23	07°C	7.90	88	136	10.8	3.0	85	66	19	56	1.0	4.0	1.8	1.8	ND	0.05	0.01	16.25	0.12	0.18	2.8	2.4	0.13	A
	Apr-23	16°C	8.30	92	140	10.6	5.0	106	86	20	114	1.0	4.0	1.8	1.8	ND	0.08	0.02	15.95	0.16	0.18	4.0	2.5	0.16	A
	May-23	14°C	8.10	83	126	10.8	4.0	82	73	9	72	1.0	4.0	1.8	1.8	ND	0.09	0.03	14.26	0.14	0.15	3.6	2.0	0.17	A
	Jun-23	18°C	7.70	70	110	10.4	5.0	41	34	07	52	1.0	4.0	1.8	1.8	ND	0.08	0.03	13.39	0.13	0.19	3.9	4.1	0.26	A
	Jul-23	13°C	7.85	64	98	10.2	4.0	49	40	09	54	1.0	4.0	1.8	1.8	ND	0.08	0.02	15.11	0.13	0.13	3.5	3.1	0.22	A
	Aug-23	12°C	8.30	54	84	10.4	3.0	60	50	10	49	1.0	4.0	2.0	<1.8	ND	0.06	0.01	18.39	0.17	0.13	1.7	3.0	0.10	A
	Sep-23	16°C	8.14	52	80	10.6	5.0	59	43	16	54	1.0	4.0	4.0	<1.8	<1.8	0.08	0.02	16.72	0.12	0.15	1.4	2.5	0.08	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
8	Jan-23	08°C	7.42	92	141	10.6	4.0	70	44	26	74	1.0	4.0	1.8	1.8	ND	0.07	0.03	20.33	0.17	0.19	3.6	2.1	0.18	A
	Feb-23	10°C	7.50	95	144	10.4	6.0	100	69	31	74	1.0	4.0	1.8	1.8	ND	0.11	0.03	17.36	0.20	0.18	8.9	3.4	0.38	A
	Mar-23	11°C	8.11	82	124	10.6	4.0	73	65	8	53	1.0	4.0	1.8	1.8	ND	0.09	0.03	22.11	0.11	0.22	2.6	2.1	0.13	A

	Apr-23	16°C	8.39	98	150	10.6	5.0	134	90	44	110	1.0	4.0	1.8	1.8	ND	0.08	0.06	19.39	0.09	0.13	3.8	2.3	0.14	A
	May-23	18°C	8.01	69	106	10.6	5.0	89	76	13	60	1.0	4.0	1.8	1.8	ND	0.07	0.03	17.36	0.11	0.16	3.4	2.1	0.15	A
	Jun-23	18.7°C	7.10	80	123	10.2	5.0	63	51	12	55	1.0	4.0	1.8	1.8	ND	0.06	0.003	15.26	0.12	0.17	3.7	3.9	0.20	A
	Jul-23	15°C	7.67	71	108	10.0	5.0	60	50	10	57	1.0	4.0	1.8	1.8	ND	0.04	0.02	13.37	0.13	0.14	3.2	2.9	0.18	A
	Aug-23	12°C	8.23	56	85	10.2	3.0	61	46	15	48	1.0	4.0	6.1	4.0	ND	0.05	0.02	18.48	0.11	0.17	1.7	2.6	0.09	A
	Sep-23	13°C	7.61	46	71	10.4	5.0	68	54	14	53	1.0	4.0	2.0	<1.8	<1.8	0.07	0.01	15.30	0.13	0.15	1.2	2.2	0.06	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
9	Jan-23	09°C	7.59	85	130	10.4	5.0	68	41	27	87	1.0	4.0	43	32	ND	0.09	0.02	23.25	0.19	0.23	2.6	2.0	0.13	A
	Feb-23	09°C	7.67	97	147	10.2	7.0	119	85	34	104	1.0	4.0	39	27	ND	0.12	0.03	19.84	0.19	0.11	6.6	3.0	0.26	A
	Mar-23	12°C	8.20	86	131	10.4	3.0	85	68	17	81	1.0	4.0	43	38	ND	0.06	0.01	25.13	0.14	0.18	2.3	2.1	0.10	A
	Apr-23	15°C	8.44	95	144	10.2	6.0	96	60	36	70	1.0	4.0	41	39	ND	0.08	0.03	22.16	0.11	0.16	2.3	2.2	0.10	A
	May-23	17°C	8.12	79	120	10.4	4.0	78	62	16	63	1.0	4.0	48	43	ND	0.11	0.02	20.33	0.14	0.13	2.1	1.8	0.10	A
	Jun-23	18.5°C	8.06	82	125	10.0	3.0	58	48	10	60	1.0	4.0	46	43	ND	0.07	0.02	8.90	0.11	0.16	3.0	2.7	0.17	A
	Jul-23	16°C	8.19	76	117	9.6	4.0	52	40	12	55	1.0	4.0	49	33	ND	0.03	0.03	16.85	0.09	0.13	2.8	2.3	0.17	A
	Aug-23	11°C	8.34	71	105	9.8	5.0	80	52	28	70	1.0	4.0	40	34	ND	0.06	0.02	20.13	0.13	0.15	2.1	2.9	0.10	A
	Sep-23	14°C	8.12	49	74	9.8	4.0	75	60	15	80	1.0	4.0	33	27	<1.8	0.08	0.01	17.15	0.12	0.14	1.8	2.4	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
10	Jan-23	08°C	7.94	94	141	10.6	4.0	62	42	20	81	1.0	4.0	1.8	1.8	ND	0.08	0.01	15.26	0.13	0.20	3.1	2.0	0.17	A
	Feb-23	09°C	7.85	98	149	10.4	5.0	114	71	43	89	1.0	4.0	1.8	1.8	ND	0.11	0.03	17.75	0.22	0.16	9.4	3.1	0.38	A
	Mar-23	12°C	8.24	83	126	10.6	3.0	75	67	8	71	1.0	4.0	1.8	1.8	ND	0.03	0.01	14.11	0.09	0.15	2.4	2.1	0.12	A
	Apr-23	15°C	8.10	93	142	10.6	6.0	120	90	30	94	1.0	4.0	1.8	1.8	ND	0.06	0.04	15.38	0.12	0.19	2.4	2.0	0.09	A
	May-23	17°C	8.04	81	124	10.6	5.0	98	81	17	69	1.0	4.0	1.8	1.8	ND	0.07	0.03	13.49	0.13	0.22	2.0	1.7	0.08	A
	Jun-23	19°C	7.80	79	121	10.4	3.0	60	56	04	59	1.0	4.0	1.8	1.8	ND	0.05	0.001	13.63	0.18	0.11	2.8	2.5	0.16	A
	Jul-23	15°C	7.94	73	113	10.0	4.0	57	49	08	59	1.0	4.0	1.8	1.8	ND	0.05	0.02	15.69	0.07	0.10	2.5	2.1	0.14	A
	Aug-23	12°C	8.19	64	93	10.2	3.0	76	51	25	62	1.0	4.0	4.5	2.0	ND	0.05	0.03	18.30	0.10	0.18	1.8	3.1	0.09	A
	Sep-23	13°C	8.22	48	72	10.4	5.0	72	65	07	58	1.0	4.0	4.0	2.0	<1.8	0.09	0.02	15.43	0.11	0.15	1.5	2.6	0.08	A

River Mandakini at Kedarnath

11	Jun-23	10°C	8.01	32	50	11.4	3.0	30	16	14	18	1.0	4.0	1.8	1.8	ND	0.04	ND	18.19	0.07	0.13	3.8	3.7	0.30	A
	Sep-23																								

River Mandakini B/C River Alaknanda at Rudraprayag

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal 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	Jan-23	14°C	7.63	50	75	10.8	3.0	88	53	35	73	1.0	4.0	1.8	1.8	ND	0.06	0.02	13.63	0.07	0.13	4.0	3.4	0.18	A
	Feb-23	12°C	7.73	49	75	10.6	2.0	59	45	14	49	1.0	4.0	1.8	1.8	ND	0.08	0.03	11.83	0.09	0.15	11.0	3.1	0.62	A

	Mar-23	13°C	7.91	67	102	10.8	6.0	56	45	11	60	1.0	4.0	1.8	1.8	ND	0.03	0.02	12.35	0.11	0.13	4.1	2.2	0.23	A
	Apr-23	16°C	7.60	53	80	10.6	8.0	56	38	18	58	1.0	4.0	1.8	1.8	ND	0.05	0.03	10.33	0.10	0.11	4.4	1.9	0.25	A
	May-23	16°C	7.40	65	99	10.4	6.0	62	48	14	60	1.0	4.0	1.8	1.8	ND	0.11	0.04	13.24	0.11	0.13	4.9	3.1	0.26	A
	Jun-23	16°C	7.80	48	73	10.2	4.0	50	36	14	46	1.0	4.0	1.8	1.8	ND	0.09	0.0006	20.26	0.17	0.21	4.6	4.8	0.28	A
	Jul-23	16°C	7.80	39	61	9.8	3.0	30	21	09	24	1.0	4.0	1.8	1.8	ND	0.07	0.02	20.24	0.15	0.23	3.9	3.6	0.30	A
	Aug-23	16°C	8.30	49	75	10.2	3.0	58	49	09	56	1.0	4.0	4.0	2.0	ND	0.07	0.02	30.21	0.15	0.16	3.5	3.2	0.20	A
	Sep-23	18°C	8.10	58	88	10.4	5.0	73	61	12	67	1.0	4.0	6.1	4.0	<1.8	0.08	0.03	27.85	0.13	0.14	3.1	2.9	0.16	A

River Alaknanda B/C River Mandakini at Rudraprayag

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal 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
13	Jan-23	15°C	8.02	67	102	10.6	4.0	90	60	30	68	1.0	4.0	1.8	1.8	ND	0.04	0.02	14.38	0.09	0.18	3.6	2.7	0.16	A
	Feb-23	13°C	7.93	86	130	10.4	6.0	78	68	10	67	1.0	4.0	1.8	1.8	ND	0.09	0.02	12.63	0.11	0.13	10.3	3.3	0.50	A
	Mar-23	14°C	8.33	92	140	10.6	7.0	90	65	25	85	1.0	4.0	1.8	1.8	ND	0.05	0.02	11.85	0.09	0.16	3.0	2.2	0.13	A
	Apr-23	15°C	7.80	91	137	10.4	7.0	92	64	28	94	1.0	4.0	1.8	1.8	ND	0.06	0.01	10.85	0.08	0.15	3.2	2.0	0.14	A
	May-23	17°C	7.85	94	144	10.4	4.0	91	66	25	79	1.0	4.0	1.8	1.8	ND	0.07	0.01	11.36	0.15	0.18	3.0	2.1	0.13	A
	Jun-23	15°C	7.60	55	84	10.2	3.0	60	44	16	52	1.0	4.0	1.8	1.8	ND	0.06	0.001	29.03	0.19	0.17	3.5	3.8	0.20	A
	Jul-23	17°C	8.20	30	47	10.0	2.0	34	19	15	26	1.0	4.0	1.8	1.8	ND	0.08	0.05	23.06	0.13	0.18	3.1	2.9	0.23	A
	Aug-23	15°C	8.40	58	89	10.2	3.0	66	48	18	54	1.0	4.0	6.8	4.5	ND	0.08	0.04	33.15	0.13	0.17	2.6	3.0	0.14	A
	Sep-23	17°C	8.22	54	82	10.2	4.0	64	54	10	55	1.0	4.0	4.0	<1.8	<1.8	0.10	0.03	29.47	0.11	0.13	2.3	2.6	0.12	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 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
14	Jan-23	14°C	7.44	57	86	10.8	4.0	77	59	18	55	1.0	4.0	1.8	1.8	ND	0.03	0.01	15.26	0.06	0.12	4.3	2.4	0.21	A
	Feb-23	12°C	7.61	73	112	10.6	4.0	70	55	15	51	1.0	4.0	1.8	1.8	ND	0.07	0.02	12.15	0.08	0.16	10.5	3.2	0.54	A
	Mar-23	14°C	8.06	89	135	10.8	7.0	93	56	37	72	1.0	4.0	1.8	1.8	ND	0.05	0.03	13.14	0.11	0.11	3.2	2.2	0.14	A
	Apr-23	15°C	7.65	80	122	10.6	7.0	96	57	39	74	1.0	4.0	1.8	1.8	ND	0.09	0.03	13.37	0.13	0.18	3.5	2.2	0.15	A
	May-23	16°C	7.78	88	135	10.6	5.0	89	60	29	77	1.0	4.0	1.8	1.8	ND	0.08	0.05	14.33	0.14	0.16	3.2	1.8	0.14	A
	Jun-23	16°C	7.40	50	77	10.4	4.0	56	30	26	40	1.0	4.0	1.8	1.8	ND	0.03	0.002	39.11	0.17	0.14	3.8	4.1	0.22	A
	Jul-23	17°C	8.10	36	58	10.2	2.0	30	20	10	28	1.0	4.0	1.8	1.8	ND	0.08	0.03	18.15	0.19	0.20	3.3	3.0	0.26	A
	Aug-23	14°C	8.20	54	83	10.4	3.0	55	45	10	51	1.0	4.0	6.0	2.0	ND	0.08	0.03	35.29	0.13	0.13	2.7	2.9	0.16	A
	Sep-23	17°C	8.08	57	86	10.4	5.0	69	56	13	62	1.0	4.0	6.1	4.0	<1.8	0.09	0.02	31.95	0.12	0.11	2.5	2.8	0.13	A

River Mandakini D/S at Agstumuni, Rudraprayag

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
15	Jan-23	15°C	8.11	59	92	11.0	3.0	75	53	22	53	1.0	4.0	1.8	1.8	ND	0.03	0.02	15.10	0.14	0.16	4.2	2.6	0.21	A
	Feb-23	11°C	7.98	55	84	10.8	3.0	50	40	10	40	1.0	4.0	1.8	1.8	ND	0.09	0.03	13.85	0.12	0.14	11.4	2.9	0.69	A
	Mar-23	12°C	8.08	56	87	11.0	5.0	55	40	15	40	1.0	4.0	1.8	1.8	ND	0.09	0.03	14.12	0.09	0.14	4.9	3.0	0.28	A
	Apr-23	15°C	7.39	59	90	10.8	6.0	57	43	14	42	1.0	4.0	1.8	1.8	ND	0.07	0.02	15.94	0.14	0.11	4.7	2.4	0.26	A
	May-23	15°C	7.60	56	86	10.6	5.0	60	43	17	49	1.0	4.0	1.8	1.8	ND	0.09	0.02	16.11	0.15	0.13	4.6	2.8	0.25	A
	Jun-23	13°C	7.30	40	63	10.4	3.0	40	22	18	28	1.0	4.0	1.8	1.8	ND	0.11	0.005	70.99	0.25	0.19	4.3	4.6	0.29	A

	Jul-23	16°C	8.20	28	44	10.0	2.0	37	30	07	24	1.0	4.0	1.8	1.8	ND	0.06	0.03	15.37	0.10	0.18	3.4	3.1	0.24	A	
	Aug-23	15°C	7.90	40	62	10.4	2.0	52	41	11	49	1.0	4.0	2.0	<1.8	ND	0.05	0.02	25.37	0.11	0.15	3.1	2.9	0.19	A	
	Sep-23	17°C	7.83	48	74	10.6	4.0	66	52	14	59	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.03	23.12	0.11	0.13	2.9	2.6	0.15	A	
River Bhagirathi U/S at Gangotri, Uttarkashi District																										
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal 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	
16	Jun-23	07°C	8.40	56	84	11.0	3.0	45	33	12	13	1.0	4.0	1.8	1.8	ND	0.01	0.0007	71.92	0.06	0.08	3.6	5.8	0.23	A	
	Aug-23																									
River Yamuna U/S at Yamunotri, Uttarkashi District																										
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal 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	
17	Jun-23	04°C	7.80	18	31	11.2	3.0	25	18	07	19	1.0	4.0	1.8	1.8	ND	0.07	0.02	17.33	0.10	0.13	2.5	2.4	0.22	A	
	Sep-23																									
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 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	
18	Jun-23	10°C	7.60	34	56	10.8	4.0	33	28	05	29	1.0	4.0	1.8	1.8	ND	0.08	0.03	19.20	0.12	0.15	3.5	3.7	0.26	A	
	Sep-23																									
River Bhagirathi D/S at Uttarkashi, 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 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	
19	Jan-23	10°C	7.06	70	104	10.6	3.0	65	47	18	41	1.0	4.0	46	31	ND	0.10	0.03	28.33	0.13	0.25	3.3	2.5	0.17	A	
	Feb-23	08°C	7.20	88	134	10.4	5.0	110	70	40	65	1.0	4.0	49	38	ND	0.08	0.05	25.33	0.20	0.28	12.4	3.5	0.51	A	
	Mar-23	19°C	7.90	70	106	10.6	4.0	68	52	16	36	1.0	4.0	41	34	ND	0.07	0.02	18.37	0.17	0.25	4.7	2.6	0.24	A	
	Apr-23	18°C	8.40	56	86	10.4	3.0	61	37	24	37	1.0	4.0	47	38	ND	0.08	0.03	20.36	0.15	0.26	5.4	2.4	0.29	A	
	May-23	20°C	7.50	79	120	10.2	5.0	76	60	16	68	1.0	4.0	41	34	ND	0.11	0.04	23.11	0.18	0.19	5.0	2.2	0.24	A	
	Jun-23	13°C	8.30	45	67	10.0	4.0	49	41	08	15	1.0	4.0	39	27	ND	0.07	0.003	28.94	0.11	0.11	5.4	5.1	0.33	A	
	Jul-23	14°C	7.80	43	66	9.6	8.0	56	30	26	31	1.0	4.0	47	40	ND	0.09	0.06	27.33	0.19	0.26	4.7	4.2	0.27	A	
	Aug-23	15°C	7.50	48	72	9.8	5.0	35	26	09	26	1.0	4.0	40	34	ND	0.07	0.02	23.21	0.21	0.30	3.3	5.0	0.24	A	
	Sep-23	15°C	7.43	70	107	10.0	8.0	60	45	15	50	1.0	4.0	39	33	<1.8	0.08	0.03	20.11	0.14	0.25	3.0	4.1	0.17	A	
River Yamuna at Barkot																										
20	Jan-23	08°C	8.15	138	211	10.8	6.0	120	106	14	98	1.0	4.0	1.8	1.8	ND	0.06	0.02	19.63	0.20	0.26	4.9	2.1	0.19	A	
	Feb-23	14°C	8.06	90	136	10.6	6.0	100	89	11	57	1.0	4.0	1.8	1.8	ND	0.10	0.06	13.85	0.13	0.22	12.3	3.4	0.53	A	
	Mar-23	16°C	8.10	117	177	10.8	6.0	93	82	11	85	1.0	4.0	1.8	1.8	ND	0.09	0.03	15.11	0.16	0.22	5.4	2.0	0.24	A	
	Apr-23	18°C	7.80	115	175	10.6	6.0	49	36	13	51	1.0	4.0	1.8	1.8	ND	0.06	0.02	14.85	0.11	0.19	5.1	1.8	0.31	A	
	May-23	18°C	7.40	98	149	10.4	5.0	80	66	14	76	1.0	4.0	1.8	1.8	ND	0.04	0.01	10.82	0.09	0.13	4.7	1.6	0.22	A	
	Jun-23	14°C	7.50	68	107	10.0	7.0	35	25	10	38	1.0	4.0	1.8	1.8	ND	0.09	0.03	19.26	0.15	0.19	6.0	4.6	0.44	A	
	Jul-23	14°C	7.10	65	99	9.6	5.0	77	59	18	68	1.0	4.0	1.8	1.8	ND	0.07	0.02	21.85	0.13	0.16	5.5	4.0	0.27	A	
	Aug-23	21°C	7.90	40	62	9.8	5.0	47	41	06	44	1.0	4.0	2.0	<1.8	ND	0.07	0.01	17.33	0.18	0.24	2.7	2.4	0.17	A	
	Sep-23	18°C	8.07	60	92	10.0	7.0	58	55	03	50	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.01	15.63	0.14	0.20	2.4	2.2	0.14	A	

River Alaknanda B/C River Bhagirathi at Devprayag																											
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality		
21	Jan-23	16°C	7.96	85	128	10.6	5.0	70	45	25	59	1.0	4.0	1.8	1.8	ND	0.03	0.02	14.30	0.01	0.13	3.6	2.5	0.18	A		
	Feb-23	13°C	7.88	83	125	10.4	6.0	75	68	07	67	1.0	4.0	1.8	1.8	ND	0.08	0.03	15.28	0.11	0.13	10.9	3.4	0.54	A		
	Mar-23	14°C	8.20	91	139	10.6	9.0	103	60	43	75	1.0	4.0	1.8	1.8	ND	0.07	0.01	15.38	0.08	0.18	3.4	2.3	0.14	A		
	Apr-23	16°C	7.80	65	98	10.4	8.0	78	61	17	65	1.0	4.0	1.8	1.8	ND	0.05	0.01	14.37	0.10	0.13	3.4	1.9	0.16	A		
	May-23	16°C	7.50	93	141	10.2	5.0	99	62	37	81	1.0	4.0	1.8	1.8	ND	0.08	0.02	13.33	0.14	0.14	3.4	2.1	0.15	A		
	Jun-23	15°C	7.85	60	92	10.0	5.0	68	44	24	50	50	1.0	4.0	1.8	1.8	ND	0.05	0.003	19.36	0.09	0.11	4.1	4.5	0.22	A	
	Jul-23	19°C	8.30	58	89	10.0	3.0	46	36	10	50	50	1.0	4.0	1.8	1.8	ND	0.06	0.03	15.39	0.18	0.17	3.5	3.2	0.22	A	
	Aug-23	15°C	8.10	61	94	10.2	4.0	67	49	18	62	62	1.0	4.0	6.1	2.0	ND	0.07	0.02	17.26	0.12	0.19	2.2	3.6	0.12	A	
	Sep-23	19°C	7.82	69	105	10.2	6.0	80	59	21	70	70	1.0	4.0	6.1	4.0	<1.8	0.08	0.01	15.85	0.11	0.17	2.0	2.9	0.10	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		
22	Jan-23	16°C	7.82	75	114	10.8	4.0	80	60	20	68	1.0	4.0	1.8	1.8	ND	0.03	0.03	15.80	0.08	0.14	2.2	1.7	0.10	A		
	Feb-23	14°C	7.71	44	67	10.6	3.0	51	45	06	46	1.0	4.0	1.8	1.8	ND	0.11	0.03	16.15	0.10	0.18	9.2	2.3	0.55	A		
	Mar-23	14°C	7.60	54	82	10.8	6.0	53	36	17	45	1.0	4.0	1.8	1.8	ND	0.08	0.01	16.14	0.09	0.13	2.4	1.6	0.14	A		
	Apr-23	16°C	7.90	76	115	10.6	6.0	68	42	26	52	1.0	4.0	1.8	1.8	ND	0.05	0.02	16.33	0.15	0.11	3.5	1.8	0.18	A		
	May-23	15°C	7.30	80	123	10.4	6.0	63	41	22	60	1.0	4.0	1.8	1.8	ND	0.10	0.04	15.84	0.17	0.11	2.6	1.8	0.14	A		
	Jun-23	16°C	7.80	73	113	10.2	3.0	66	46	20	52	52	1.0	4.0	1.8	1.8	ND	0.08	0.002	13.32	0.11	0.17	4.6	3.9	0.25	A	
	Jul-23	20°C	8.10	55	84	9.8	2.0	43	28	15	35	35	1.0	4.0	1.8	1.8	ND	0.10	0.06	18.26	0.18	0.13	4.0	3.7	0.26	A	
	Aug-23	15°C	8.20	46	72	10.0	3.0	54	38	16	50	50	1.0	4.0	4.0	<1.8	ND	0.08	0.05	19.31	0.10	0.13	2.9	2.7	0.17	A	
	Sep-23	18°C	8.05	52	79	9.8	5.0	60	42	18	54	54	1.0	4.0	4.0	2.0	<1.8	0.09	0.03	17.12	0.09	0.11	2.5	2.2	0.14	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		
23	Jan-23	15°C	7.89	72	110	10.8	5.0	77	58	19	55	1.0	4.0	1.8	1.8	ND	0.03	0.01	16.10	0.11	0.15	2.6	1.9	0.12	A		
	Feb-23	13°C	7.82	68	104	10.6	6.0	76	60	16	54	1.0	4.0	1.8	1.8	ND	0.12	0.05	16.83	0.09	0.15	10.0	3.1	0.49	A		
	Mar-23	15°C	7.98	78	119	10.8	8.0	75	51	24	62	1.0	4.0	1.8	1.8	ND	0.08	0.07	15.95	0.13	0.15	3.0	2.0	0.15	A		
	Apr-23	15°C	7.84	69	103	10.6	9.0	78	52	26	69	1.0	4.0	1.8	1.8	ND	0.07	0.03	15.29	0.14	0.08	3.7	2.1	0.18	A		
	May-23	17°C	7.68	79	121	10.4	6.0	81	58	23	75	1.0	4.0	1.8	1.8	ND	0.08	0.04	14.11	0.16	0.13	3.1	2.0	0.15	A		
	Jun-23	15°C	7.50	65	102	10.2	4.0	62	50	12	56	56	1.0	4.0	1.8	1.8	ND	0.06	0.001	15.26	0.13	0.19	4.4	4.0	0.24	A	
	Jul-23	20°C	8.18	57	87	10.0	3.0	48	37	11	45	45	1.0	4.0	1.8	1.8	ND	0.09	0.03	16.84	0.14	0.15	3.8	3.5	0.24	A	
	Aug-23	14°C	8.17	59	89	10.2	4.0	62	47	15	59	59	1.0	4.0	2.0	<1.8	ND	0.07	0.03	17.33	0.14	0.17	2.7	3.1	0.15	A	
	Sep-23	19°C	7.90	63	96	10.2	6.0	71	54	17	64	64	1.0	4.0	6.1	4.0	<1.8	0.08	0.02	16.34	0.12	0.14	2.3	2.7	0.12	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		
24	Jan-23	18°C	7.27	41	63	10.4	4.0	52	37	15	36	1.0	4.0	49	26	ND	0.09	0.02	22.83	0.17	0.37	2.2	1.7	0.13	A		
	Feb-23	10°C	7.39	80	122	10.2	6.0	85	60	25	80	1.0	4.0	40	27	ND	0.09	0.03	20.82	0.22	0.36	11.9	3.4	0.55	A		

	Mar-23	14°C	7.32	105	159	10.4	5.0	48	30	18	28	1.0	4.0	47	41	ND	0.09	0.03	15.62	0.19	0.31	2.1	1.5	0.13	A
	Apr-23	21°C	8.05	59	92	10.2	7.0	60	40	20	35	1.0	4.0	41	40	ND	0.13	0.08	24.26	0.11	0.49	2.6	1.2	0.14	A
	May-23	20°C	7.70	62	94	10.0	8.0	66	52	14	55	1.0	4.0	49	47	ND	0.12	0.11	29.31	0.15	0.36	2.3	1.1	0.12	A
	Jun-23	19°C	8.30	67	101	9.6	6.0	62	45	17	45	1.0	4.0	46	41	ND	0.12	0.09	33.26	0.18	0.42	5.0	4.2	0.28	A
	Jul-23	17°C	8.38	54	83	9.2	5.0	40	33	07	35	1.0	4.0	46	31	ND	0.11	0.07	27.33	0.15	0.37	4.2	3.3	0.29	A
	Aug-23	19°C	8.42	32	52	9.6	4.0	34	26	08	29	1.0	4.0	48	41	ND	0.10	0.07	30.24	0.18	0.30	2.4	1.5	0.18	A
	Sep-23	21°C	7.83	40	61	9.8	5.0	45	34	11	41	1.0	4.0	40	34	<1.8	0.09	0.05	28.42	0.16	0.27	2.1	1.3	0.14	A

River Ganga U/S at Lakshmanjhula, Rishikesh

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococcus (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
25	Jan-23	13°C	7.08	75	113	10.8	4.0	81	60	21	83	1.0	4.0	48	27	ND	0.04	0.02	40.39	0.10	0.15	3.3	2.7	0.15	A
	Feb-23	19°C	7.22	79	121	10.6	4.0	91	78	13	55	1.0	4.0	41	39	ND	0.09	0.07	49.56	0.28	0.27	10.2	3.2	0.46	A
	Mar-23	16°C	8.25	101	154	10.8	6.0	115	90	25	72	1.0	4.0	39	33	ND	0.08	0.02	32.21	0.23	0.37	2.7	1.5	0.10	A
	Apr-23	20°C	7.90	89	137	10.6	8.0	76	68	08	55	1.0	4.0	33	31	ND	0.09	0.04	15.97	0.11	0.30	4.8	2.2	0.23	A
	May-23	19°C	7.79	86	130	10.2	7.0	97	81	16	80	1.0	4.0	48	43	ND	0.08	0.06	17.35	0.13	0.25	4.5	2.0	0.19	A
	Jun-23	17°C	7.60	65	102	9.8	4.0	69	48	21	54	1.0	4.0	41	39	ND	0.12	0.003	37.53	0.17	0.23	8.0	2.4	0.42	A
	Jul-23	21°C	7.90	45	70	9.6	3.0	51	43	08	57	1.0	4.0	46	33	ND	0.10	0.01	45.36	0.21	0.29	6.6	3.0	0.40	A
	Aug-23	16°C	7.80	55	85	9.8	5.0	69	57	12	73	1.0	4.0	38	32	ND	0.10	0.03	55.24	0.26	0.23	3.9	4.3	0.20	A
	Sep-23	23°C	8.10	70	106	10.0	4.0	75	60	15	73	1.0	4.0	39	33	<1.8	0.08	0.03	49.33	0.16	0.28	3.5	3.1	0.18	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 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
26	Jan-23	14°C	7.62	100	151	10.4	5.0	108	89	19	100	1.0	4.0	46	34	ND	0.09	0.06	66.21	0.11	0.26	3.6	3.1	0.15	A
	Feb-23	20°C	7.75	96	151	10.0	5.0	87	63	24	108	1.0	4.0	48	47	ND	0.18	0.13	68.37	0.21	0.45	13.3	5.0	0.61	A
	Mar-23	17°C	8.36	125	189	10.2	7.0	128	90	38	98	1.0	4.0	49	47	ND	0.13	0.03	50.32	0.21	0.29	5.1	3.1	0.19	A
	Apr-23	19°C	8.20	121	184	10.0	6.0	115	96	19	85	1.0	4.0	47	43	ND	0.16	0.04	62.33	0.15	0.30	6.3	2.8	0.25	A
	May-23	20°C	7.88	106	161	9.8	8.0	135	115	20	108	1.0	4.0	49	46	ND	0.13	0.06	67.24	0.17	0.25	5.9	2.4	0.22	A
	Jun-23	19°C	7.65	68	106	9.4	3.0	67	45	22	59	1.0	4.0	47	43	ND	0.16	0.06	68.11	0.13	0.27	8.0	1.9	0.42	A
	Jul-23	22°C	8.02	54	84	9.0	4.0	55	45	10	47	1.0	4.0	49	46	ND	0.09	0.02	72.25	0.15	0.22	6.2	2.7	0.36	A
	Aug-23	15°C	7.92	67	101	9.4	6.0	76	61	15	78	1.0	4.0	47	34	ND	0.07	0.02	68.54	0.20	0.30	3.3	3.9	0.16	A
	Sep-23	23°C	8.20	79	120	9.6	6.0	81	64	17	84	1.0	4.0	47	40	<1.8	0.09	0.01	62.13	0.20	0.31	3.1	2.9	0.15	A

River Ganga D/S at Bairaaj, Rishikesh,

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal 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
27	Jan-23	14°C	7.14	86	130	10.6	4.0	90	73	17	97	1.0	4.0	39	21	ND	0.04	0.03	49.64	0.09	0.18	2.1	1.7	0.09	A
	Feb-23	18°C	7.29	83	129	10.4	6.0	76	66	10	69	1.0	4.0	47	39	ND	0.11	0.02	52.36	0.21	0.28	10.5	2.7	0.52	A
	Mar-23	17°C	8.20	93	141	10.6	7.0	98	68	30	90	1.0	4.0	46	38	ND	0.11	0.01	38.31	0.26	0.42	3.6	2.1	0.15	A
	Apr-23	18°C	8.10	86	130	10.4	7.0	90	82	08	83	1.0	4.0	39	38	ND	0.14	0.08	35.22	0.19	0.25	6.2	1.9	0.28	A
	May-23	19°C	7.97	78	120	10.0	6.0	104	86	18	91	1.0	4.0	43	39	ND	0.15	0.07	38.15	0.22	0.36	5.8	1.7	0.24	A
	Jun-23	18°C	7.40	70	109	9.6	5.0	75	53	22	66	1.1	4.0	39	33	ND	0.13	0.03	51.38	0.11	0.25	7.2	2.0	0.36	A

	Jul-23	21°C	8.10	43	67	9.2	3.0	45	40	05	31	1.2	4.0	46	43	ND	0.10	0.02	60.22	0.11	0.19	5.6	2.3	0.36	A
	Aug-23	16°C	8.03	64	97	9.6	5.0	72	62	10	65	1.1	4.0	40	34	ND	0.09	0.03	57.94	0.15	0.36	2.9	3.7	0.15	A
	Sep-23	22°C	8.35	75	114	9.8	4.0	64	50	14	79	1.0	4.0	32	26	<1.8	0.09	0.03	58.11	0.19	0.25	2.6	2.4	0.14	A

River Ganga D/S Lakkarghat O.P, Dehradun

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
28	Jan-23	14°C	7.93	188	286	9.4	6.0	116	90	26	104	1.2	5.2	84	43	21	0.11	0.05	77.30	0.23	0.29	2.8	1.6	0.11	B
	Feb-23	24°C	7.80	202	304	9.2	9.0	191	168	23	161	1.4	5.6	79	46	12	0.15	0.10	75.38	0.26	0.39	17.6	1.9	0.55	B
	Mar-23	16°C	7.88	128	195	9.4	8.0	125	98	27	115	1.3	5.2	70	49	10	0.11	0.04	63.25	0.25	0.40	5.7	3.3	0.22	B
	Apr-23	21°C	7.90	204	308	9.2	11.0	195	172	23	165	1.4	5.2	79	47	9.2	0.15	0.03	67.16	0.18	0.22	9.8	2.6	0.30	B
	May-23	19°C	7.82	145	220	9.0	10.0	140	120	20	125	1.5	5.2	84	49	11	0.14	0.05	64.28	0.15	0.28	9.1	2.2	0.33	B
	Jun-23	19°C	7.20	72	112	8.6	7.0	90	63	27	80	1.6	5.2	58	49	13	0.14	0.03	66.36	0.16	0.22	10.1	2.1	0.46	B
	Jul-23	21°C	8.20	58	90	8.2	6.0	98	81	17	102	1.7	5.2	63	46	6.8	0.13	0.03	81.31	0.21	0.36	7.6	2.8	0.33	B
	Sep-23																								

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

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
29	Jan-23	13°C	7.09	139	216	9.6	6.0	155	121	34	149	1.2	4.8	63	40	ND	0.18	0.02	49.52	0.19	0.19	11.0	1.8	0.38	B
	Feb-23	25°C	7.34	205	310	9.4	7.0	205	193	12	195	1.3	4.8	63	58	ND	0.10	0.03	37.23	0.25	0.31	22.8	3.2	0.69	B
	Mar-23	17°C	8.13	190	286	9.6	8.0	175	146	29	160	1.2	4.8	70	58	ND	0.09	0.03	36.17	0.19	0.30	6.2	2.4	0.20	B
	Apr-23	19°C	8.40	189	287	9.6	11.0	230	213	17	177	1.0	4.0	70	48	ND	0.12	0.03	60.87	0.10	0.31	15.7	2.1	0.44	B
	May-23	21°C	8.45	215	325	9.4	9.0	242	226	16	193	1.2	4.8	58	43	ND	0.11	0.05	48.26	0.15	0.28	12.4	2.1	0.34	B
	Jun-23	22°C	7.80	200	305	8.8	6.0	201	170	31	184	1.5	5.2	63	46	ND	0.13	0.08	62.22	0.13	0.25	14.0	2.3	0.43	B
	Jul-23	20°C	8.09	185	281	8.4	5.0	104	91	13	118	1.6	5.6	58	43	ND	0.07	0.01	59.10	0.15	0.20	9.7	3.0	0.41	B
	Aug-23	15°C	8.26	154	232	8.2	8.0	131	104	27	115	1.7	5.6	63	46	2.0	0.15	0.08	62.15	0.21	0.27	6.2	6.9	0.23	B
	Sep-23	21°C	7.95	163	246	8.4	9.0	142	119	23	123	1.5	5.2	70	49	4.0	0.08	0.07	68.38	0.25	0.38	5.9	5.4	0.21	B

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

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
30	Jan-23	12°C	7.40	146	225	9.8	5.0	110	83	27	101	1.0	4.0	94	47	ND	0.10	0.04	45.24	0.17	0.20	10.1	1.6	0.41	B
	Feb-23	25°C	7.56	177	268	9.6	8.0	235	219	16	163	1.0	4.0	79	58	ND	0.13	0.06	59.84	0.20	0.36	16.8	3.0	0.47	B
	Mar-23	18°C	7.95	179	270	9.8	9.0	200	168	32	149	1.0	4.0	63	49	ND	0.11	0.05	42.10	0.20	0.45	6.0	2.7	0.18	B
	Apr-23	19°C	8.40	189	287	9.6	11.0	230	213	17	177	1.0	4.0	70	48	ND	0.12	0.03	60.87	0.10	0.31	15.7	2.1	0.44	B
	May-23	19°C	8.01	162	246	9.4	10.0	180	156	24	168	1.1	4.4	58	48	ND	0.13	0.02	58.26	0.13	0.25	14.9	1.7	0.48	B
	Jun-23	21°C	7.90	152	237	9.0	6.0	183	155	28	169	1.3	4.8	79	63	ND	0.11	0.05	67.25	0.15	0.16	12.6	2.0	0.40	B
	Jul-23	20°C	8.01	140	214	8.6	4.0	107	94	13	119	1.4	5.2	84	58	ND	0.09	0.08	73.15	0.20	0.21	8.9	2.6	0.37	B
	Aug-23	16°C	8.20	135	206	8.4	7.0	122	99	23	112	1.5	5.2	84	63	ND	0.13	0.07	78.30	0.22	0.30	6.5	6.7	0.26	B
	Sep-23	23°C	8.03	148	224	8.6	8.0	130	104	26	119	1.4	5.2	94	70	ND	0.09	0.03	71.11	0.18	0.27	6.2	5.8	0.24	B

River Suswa D/S at Mathurawala, Dehradun

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal 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		
31	Jan-23	15°C	6.85	300	447	4.0	27.0	412	346	66	346	20.0	82.0	6300	4100	1600	0.21	0.03	139.25	0.29	0.33	28.9	13.8	0.61	D		
	Feb-23	20°C	6.76	390	588	3.0	40.0	445	310	135	315	24.0	94.0	7000	6300	1600	0.30	0.12	141.32	0.29	0.96	40.8	15.2	0.83	E		
	Mar-23	17°C	7.83	319	484	2.6	45.0	515	322	193	335	26.0	98.0	17000	14000	1600	0.25	0.10	128.22	0.26	0.42	20.0	7.9	0.38	E		
	Apr-23	19°C	7.40	295	445	2.4	47.0	355	260	95	349	28.0	102.0	>1600	>1600	1600	0.29	0.13	100.83	0.24	0.53	30.1	7.5	0.69	E		
	May-23	24°C	7.12	399	601	1.6	44.0	368	280	88	353	32.0	108.0	>1600	>1600	1600	0.31	0.11	143.36	0.28	0.56	28.65	6.9	0.64	E		
	Jun-23	21°C	7.50	382	586	1.4	46.0	380	310	70	360	34.0	112.0	>1600	>1600	920	0.42	0.11	130.16	0.23	0.39	30.84	7.8	0.69	E		
	Jul-23	20°C	7.60	212	321	2.0	41.0	349	232	117	240	32.0	108.0	160000	28000	540	0.33	0.10	110.36	0.20	0.47	28.90	7.1	0.67	E		
	Aug-23	17°C	7.40	256	396	2.2	38.0	298	250	48	256	30.0	96.0	16000	5400	920	0.30	0.13	123.24	0.26	0.50	36.1	8.0	0.91	E		
	Sep-23	20°C	7.29	240	362	2.4	36.0	272	232	40	234	28.0	92.0	16000	1700	540	0.36	0.12	138.43	0.28	0.43	35.3	7.6	0.93	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 Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality		
32	Jan-23	16°C	7.28	260	392	7.4	11.0	396	267	129	363	1.5	5.2	94	49	21	0.24	0.13	101.55	0.30	0.41	25.3	7.0	0.55	B		
	Feb-23	17°C	7.11	357	538	6.8	16.0	409	290	119	303	1.7	6.0	130	110	39	0.29	0.09	135.77	0.21	0.68	42.8	12.9	0.91	B		
	Mar-23	18°C	7.60	298	449	6.6	17.0	383	259	124	298	1.8	6.4	170	130	34	0.20	0.09	125.36	0.32	0.36	21.6	9.6	0.47	B		
	Apr-23	20°C	7.70	332	499	6.4	20.0	397	284	113	356	2.0	6.8	130	110	38	0.25	0.15	110.38	0.35	0.42	36.5	10.1	0.79	B		
	May-23	23°C	7.60	363	546	5.8	26.0	362	204	158	350	2.6	8.0	150	120	41	0.36	0.16	97.24	0.22	0.30	34.70	9.4	0.79	B		
	Jun-23	River was Dry																									
	Jul-23	23°C	7.50	209	316	6.2	17.0	320	211	109	228	2.4	7.6	240	220	63	0.18	0.23	73.98	0.13	0.51	24.18	8.8	0.59	B		
	Aug-23	18°C	7.80	225	308	5.8	19.0	290	254	36	274	2.6	7.2	210	170	70	0.28	0.11	88.63	0.20	0.43	40.0	10.3	1.02	B		
	Sep-23	24°C	7.50	215	324	5.6	20.0	258	228	30	240	2.8	7.6	280	220	94	0.32	0.14	95.63	0.24	0.40	37.8	9.5	1.02	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 Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality		
33	Jan-23	13°C	7.81	120	181	9.4	7.0	174	100	74	150	1.0	4.0	79	47	21	0.12	0.03	56.84	0.20	0.28	4.1	2.3	0.13	B		
	Feb-23	21°C	7.68	245	369	9.0	10.0	285	261	24	208	1.0	4.0	94	84	26	0.21	0.11	88.25	0.28	0.52	16.9	3.4	0.43	B		
	Mar-23	17°C	8.22	183	277	9.2	9.0	197	156	41	183	1.0	4.0	84	70	22	0.09	0.06	79.64	0.18	0.39	6.8	2.2	0.21	B		
	Apr-23	19°C	8.20	259	391	9.0	11.0	260	232	28	220	1.0	4.0	94	84	21	0.13	0.05	86.43	0.12	0.44	9.2	1.6	0.24	B		
	May-23	20°C	7.75	220	334	8.6	11.0	200	160	40	190	1.2	4.4	79	63	20	0.14	0.05	90.23	0.15	0.38	8.8	1.4	0.26	B		
	Jun-23	20°C	8.10	190	297	8.4	7.0	178	131	47	140	1.3	4.8	63	58	17	0.16	0.03	78.33	0.19	0.38	13.3	2.0	0.43	B		
	Jul-23	21°C	8.18	178	270	7.8	6.0	129	114	15	124	1.5	5.2	79	58	11	0.07	0.05	68.25	0.23	0.28	11.7	2.9	0.45	B		
	Aug-23	16°C	8.30	189	286	7.4	8.0	140	118	22	130	1.7	5.6	84	63	7.8	0.08	0.05	71.20	0.23	0.37	16.8	4.1	0.62	B		
	Sep-23	22°C	8.04	197	297	7.6	9.0	158	130	28	143	1.6	5.6	94	70	6.1	0.13	0.04	65.10	0.23	0.33	15.9	3.7	0.55	B		
River Ganga near Visthaphit Colony, Rishikesh																											
Aug-23	15°C	8.10	69	105	9.2	6.0	80	67	13	83	1.2	4.0	47	40	ND	0.08	0.04	60.24	0.16	0.30	3.5	3.9	0.17	A			
Sep-23	22°C	8.17	83	125	9.4	6.0	70	54	16	86	1.1	4.0	40	34	<1.8	0.11	0.05	63.25	0.19	0.26	3.1	2.7	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		
34	Jan-23	08°C	8.26	172	260	10.4	7.0	159	124	35	152	1.0	4.0	79	43	14	0.10	0.03	39.22	0.25	0.25	9.1	2.0	0.31	B		
	Feb-23	21°C	8.17	106	162	10.2	8.0	112	93	19	68	1.0	4.0	94	84	17	0.11	0.02	33.11	0.16	0.35	14.0	4.8	0.57	B		
	Mar-23	20°C	8.01	160	243	10.4	7.0	152	134	18	125	1.0	4.0	84	70	15	0.15	0.02	28.53	0.19	0.30	9.4	2.3	0.33	B		
	Apr-23	19°C	8.15	168	255	10.0	5.0	133	120	13	172	1.0	4.0	94	84	17	0.09	0.02	35.26	0.15	0.26	9.0	2.1	0.33	B		
	May-23	19°C	8.23	173	262	9.8	7.0	165	142	23	129	1.0	4.0	79	63	14	0.06	0.03	39.36	0.11	0.19	8.5	1.9	0.28	B		
	Jun-23	20°C	7.50	123	187	9.4	6.0	124	111	13	102	1.1	4.0	84	79	17	0.11	0.04	33.15	0.13	0.23	6.4	2.3	0.25	B		
	Jul-23	18°C	8.09	129	197	9.0	4.0	112	98	14	75	1.2	4.0	94	84	13	0.10	0.07	41.09	0.15	0.21	5.5	3.0	0.23	B		
	Aug-23	18°C	7.95	82	124	9.2	3.0	72	62	10	68	1.1	4.0	94	70	11	0.08	0.03	39.15	0.20	0.28	3.9	2.2	0.20	B		
	Sep-23	22°C	7.30	90	137	9.2	4.0	81	69	12	70	1.2	4.0	84	63	9.2	0.07	0.01	46.25	0.20	0.30	3.6	2.0	0.17	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		
35	Jan-23	10°C	7.99	95	144	10.4	4.0	72	63	09	59	1.0	4.0	79	43	21	0.12	0.03	33.41	0.19	0.25	4.3	1.9	0.21	B		
	Feb-23	18°C	7.91	132	199	10.2	5.0	127	108	19	77	1.0	4.0	70	63	17	0.11	0.03	38.45	0.25	0.20	13.0	2.9	0.50	B		
	Mar-23	18°C	8.12	126	190	10.4	6.0	112	101	11	83	1.0	4.0	84	70	13	0.12	0.04	37.11	0.23	0.19	5.9	2.3	0.24	B		
	Apr-23	19°C	8.01	125	189	10.0	4.0	93	78	15	71	1.0	4.0	79	70	12	0.06	0.03	33.24	0.13	0.19	5.3	2.0	0.23	B		
	May-23	Cannal Dry																									
	Jun-23	18°C	7.10	51	78	9.4	2.0	87	79	08	74	1.0	4.0	84	79	13	0.12	0.02	37.10	0.19	0.28	5.6	2.9	0.26	B		
	Jul-23	19°C	8.01	119	181	9.0	4.0	84	72	12	78	1.0	4.0	94	84	14	0.09	0.06	51.26	0.18	0.20	5.1	3.2	0.24	B		
	Aug-23	20°C	8.22	78	118	9.2	6.0	75	67	08	61	1.0	4.0	84	63	7.8	0.06	0.05	34.59	0.23	0.25	3.7	2.0	0.19	B		
	Sep-23	22°C	7.37	79	120	9.4	5.0	73	63	10	64	1.0	4.0	94	70	6.1	0.08	0.02	38.11	0.22	0.18	3.3	1.7	0.17	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		
36	Jan-23	10°C	8.10	93	141	10.6	4.0	75	65	10	56	1.0	4.0	70	41	13	0.13	0.03	36.43	0.25	0.30	4.2	1.9	0.21	B		
	Feb-23	16°C	8.02	130	196	10.4	6.0	124	102	22	75	1.0	4.0	79	63	14	0.13	0.01	29.35	0.22	0.22	14.0	2.9	0.54	B		
	Mar-23	18°C	8.10	127	193	10.6	6.0	118	107	11	85	1.0	4.0	70	58	11	0.15	0.03	25.11	0.20	0.28	5.5	2.3	0.21	B		
	Apr-23	20°C	7.93	123	186	10.2	5.0	109	89	20	86	1.0	4.0	79	70	10	0.07	0.03	28.16	0.17	0.28	5.1	1.9	0.21	B		
	May-23	20°C	8.07	135	207	10.0	5.0	127	116	11	97	1.0	4.0	84	79	12	0.13	0.03	33.21	0.13	0.15	4.8	1.7	0.18	B		
	Jun-23	18°C	7.02	46	72	9.6	3.0	84	77	07	70	1.0	4.0	94	84	14	0.14	0.03	31.25	0.16	0.36	5.7	3.1	0.27	B		
	Jul-23	19°C	7.93	121	185	9.2	3.0	95	83	12	85	1.0	4.0	84	79	11	0.16	0.07	38.15	0.18	0.25	4.9	3.4	0.22	B		
	Aug-23	18°C	8.28	74	114	9.4	5.0	71	64	07	58	1.0	4.0	94	70	13	0.06	0.05	34.62	0.23	0.25	4.1	2.2	0.21	B		
	Sep-23	21°C	7.32	83	126	9.6	5.0	78	69	09	62	1.0	4.0	84	63	6.1	0.06	0.03	41.10	0.19	0.25	3.8	1.9	0.19	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 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		
37	Jan-23	09°C	8.36	140	214	10.8	5.0	130	120	10	94	1.0	4.0	1.8	1.8	ND	0.09	0.04	22.19	0.26	0.20	5.4	1.7	0.20	A		

	Feb-23	15°C	8.24	125	190	10.4	8.0	116	88	28	75	1.0	4.0	1.8	1.8	ND	0.09	0.03	28.55	0.28	0.43	12.5	2.8	0.50	A	
	Mar-23	18°C	8.30	120	182	10.6	6.0	139	115	24	73	1.0	4.0	1.8	1.8	ND	0.19	0.06	25.73	0.22	0.25	5.3	2.0	0.19	A	
	Apr-23	19°C	7.90	117	180	10.4	4.0	118	95	23	87	1.0	4.0	1.8	1.8	ND	0.13	0.02	32.49	0.03	0.31	4.9	1.7	0.19	A	
	May-23	18°C	8.20	119	184	10.2	6.0	142	119	23	76	1.0	4.0	1.8	1.8	ND	0.11	0.04	36.39	0.09	0.30	4.5	1.5	0.16	A	
	Jun-23	18°C	8.27	74	113	10.0	4.0	72	68	04	61	1.0	4.0	1.8	1.8	ND	0.11	0.02	39.15	0.18	0.40	4.9	2.4	0.25	A	
	Jul-23	17°C	8.03	119	185	9.4	2.0	109	91	18	86	1.0	4.0	1.8	1.8	ND	0.08	0.03	43.24	0.15	0.37	4.2	2.8	0.17	A	
	Aug-23	18°C	8.10	77	118	9.8	3.0	60	49	11	48	1.0	4.0	2.0	<1.8	ND	0.08	0.03	36.38	0.20	0.29	3.7	2.4	0.21	A	
	Sep-23	23°C	7.61	80	123	10.0	4.0	72	59	13	58	1.0	4.0	2.0	<1.8	<1.8	0.07	0.02	43.17	0.18	0.33	3.5	2.2	0.18	A	
River Yamuna at Kalsi, Dehradun																										
38	Jan-23	10°C	8.43	136	208	10.6	4.0	127	118	09	103	1.0	4.0	43	32	9.1	0.08	0.02	33.54	0.23	0.22	7.5	1.1	0.28	A	
	Feb-23	20°C	8.37	128	194	10.2	7.0	125	113	12	94	1.0	4.0	49	48	9.3	0.08	0.06	26.57	0.18	0.28	15.0	1.5	0.58	A	
	Mar-23	19°C	8.20	127	191	10.4	5.0	136	121	15	82	1.0	4.0	47	40	6.1	0.10	0.07	30.11	0.19	0.25	5.8	2.0	0.21	A	
	Apr-23	20°C	8.10	111	167	10.4	4.0	127	112	15	88	1.0	4.0	49	47	5.6	0.09	0.05	29.35	0.11	0.33	5.5	1.9	0.21	A	
	May-23	19°C	8.28	134	205	10.0	5.0	130	121	9	91	1.0	4.0	43	41	3.7	0.14	0.07	36.11	0.17	0.25	5.2	1.8	0.19	A	
	Jun-23	19°C	8.22	82	125	9.8	3.0	74	64	10	64	1.0	4.0	46	43	3.7	0.13	0.08	46.25	0.17	0.37	5.4	2.7	0.27	A	
	Jul-23	19°C	7.90	105	161	9.2	3.0	108	94	14	79	1.0	4.0	49	43	4.5	0.06	0.03	40.20	0.21	0.30	4.6	2.9	0.19	A	
	Aug-23	19°C	8.19	88	132	9.6	4.0	68	61	07	59	1.0	4.0	48	40	4.0	0.09	0.03	39.63	0.19	0.30	4.4	1.9	0.23	A	
	Sep-23	21°C	7.92	94	143	9.8	6.0	81	71	10	78	1.0	4.0	46	33	2.0	0.08	0.02	42.33	0.17	0.27	4.0	1.6	0.19	A	
River Tons Before joining to River Yamuna at Dakpathar, Dehradun																										
39	Jan-23	11°C	8.40	146	220	10.8	3.0	150	130	20	78	1.0	4.0	49	27	9.3	0.13	0.03	55.38	0.31	0.38	4.5	1.8	0.15	A	
	Feb-23	21°C	8.28	140	213	10.6	6.0	129	118	11	71	1.0	4.0	46	40	11	0.13	0.02	55.35	0.25	0.39	12.0	3.2	0.45	A	
	Mar-23	19°C	8.45	114	172	10.4	3.0	111	101	10	56	1.0	4.0	48	41	12	0.11	0.03	53.15	0.20	0.27	4.0	2.3	0.16	A	
	Apr-23	22°C	8.03	121	183	10.0	3.0	107	95	12	58	1.0	4.0	49	43	11	0.08	0.02	98.45	0.02	0.25	3.7	2.1	0.15	A	
	May-23	18°C	8.30	112	171	9.8	4.0	114	104	10	60	1.0	4.0	48	41	10	0.09	0.03	115.26	0.09	0.19	3.3	1.9	0.13	A	
	Jun-23	28°C	8.40	93	142	9.4	3.0	81	78	03	57	1.0	4.0	49	48	6.1	0.11	0.06	110.38	0.23	0.31	3.7	2.2	0.18	A	
	Jul-23	18°C	7.95	109	168	9.0	2.0	92	83	09	54	1.0	4.0	48	41	5.6	0.09	0.02	79.08	0.11	0.40	3.2	2.5	0.14	A	
	Aug-23	19°C	7.90	52	81	9.2	4.0	57	48	09	65	1.0	4.0	47	34	4.0	0.05	0.03	59.69	0.18	0.29	3.4	2.4	0.20	A	
	Sep-23	21°C	7.24	59	91	9.6	3.0	65	51	14	71	1.0	4.0	48	41	2.0	0.11	0.04	62.31	0.23	0.35	3.0	2.0	0.16	A	
River Tons at Selaqui, Dehradun																										
40	Jan-23	08°C	7.42	274	412	7.6	18.0	243	222	21	208	2.4	9.2	150	84	32	0.37	0.02	133.25	0.22	0.49	24.6	3.6	0.68	B	
	Feb-23	21°C	7.55	266	402	7.2	22.0	291	232	59	265	2.6	9.6	220	210	40	0.11	0.03	138.15	0.20	0.32	21.5	3.3	0.54	B	
	Mar-23	20°C	7.90	218	328	7.6	15.0	216	202	14	162	2.4	9.2	240	220	47	0.15	0.08	142.11	0.19	0.30	9.5	1.9	0.28	B	
	Apr-23	20°C	7.80	209	317	7.2	16.0	213	182	31	205	2.5	9.6	220	170	49	0.19	0.11	75.58	0.11	0.28	9.8	1.7	0.29	B	
	May-23	23°C	7.60	230	348	7.0	14.0	230	215	15	175	2.6	10.0	240	150	43	0.22	0.14	88.36	0.16	0.33	9.2	1.5	0.26	B	
	Jun-23	29°C	7.50	250	380	6.6	17.0	275	266	09	201	2.8	10.8	280	240	49	0.19	0.09	88.62	0.12	0.43	10.4	2.3	0.27	B	
	Jul-23	17°C	8.10	180	274	6.4	13.0	198	178	20	115	2.9	11.2	350	280	63	0.26	0.11	76.35	0.20	0.41	9.7	2.0	0.30	B	

	Aug-23	22°C	7.60	183	279	6.6	11.0	225	210	15	165	2.8	11.2	430	350	70	0.18	0.10	98.60	0.18	0.31	8.0	2.2	0.23	B	
	Sep-23	23°C	8.21	192	290	6.8	9.0	204	184	20	152	2.6	10.8	350	240	79	0.11	0.09	110.33	0.21	0.39	7.4	1.9	0.22	B	
River Rispana U/S at Shikhar Fall, Dehradun																										
41	Jan-23	11°C	7.84	194	292	8.4	6.0	302	258	44	139	1.0	4.0	84	58	14	0.19	0.08	79.68	0.23	0.35	14.0	8.0	0.34	B	
	Feb-23	16°C	7.72	305	460	8.8	8.0	412	288	124	202	1.0	4.0	110	94	17	0.17	0.03	122.56	0.26	0.39	12.4	1.5	0.26	B	
	Mar-23	18°C	7.50	310	468	8.6	10.0	510	430	80	280	1.1	4.0	94	70	14	0.19	0.08	133.21	0.31	0.43	6.2	1.5	0.11	B	
	Apr-23	20°C	8.10	286	430	8.4	8.0	432	325	107	187	1.2	4.0	84	70	11	0.22	0.11	138.99	0.17	0.39	10.7	1.2	0.22	B	
	May-23	25°C	7.90	328	495	7.8	7.0	404	250	154	152	1.4	4.0	94	84	6.0	0.31	0.15	109.22	0.25	0.41	9.9	1.0	0.21	B	
	Jun-23	20°C	7.70	295	443	8.0	8.0	350	280	70	140	1.3	4.0	79	63	3.6	0.17	0.09	179.15	0.23	0.50	10.6	1.8	0.24	B	
	Jul-23	18°C	8.40	245	371	7.8	6.0	290	235	55	160	1.3	4.0	84	79	6.8	0.26	0.16	133.15	0.23	0.33	9.8	2.3	0.25	B	
	Aug-23	15°C	7.70	260	392	7.6	7.0	300	261	39	190	1.4	4.0	84	63	2.0	0.29	0.02	198.3	0.25	0.38	11.7	2.4	0.29	B	
	Sep-23	19°C	7.56	235	354	7.8	6.0	268	238	30	171	1.3	4.0	94	70	2.0	0.25	0.03	176.43	0.22	0.32	10.9	2.1	0.29	B	
River Rispana D/S Near IT Park, Dehradun																										
42	Jan-23													River Dry												
	Feb-23													River Dry												
	Mar-23													River Dry												
	Apr-23													River Dry												
	May-23													River Dry												
	Jun-23													River Dry												
	Jul-23													River Dry												
	Aug-23	16°C	7.50	249	375	6.8	10.0	318	275	43	212	1.6	5.2	120	94	11	0.28	0.11	93.2	0.25	0.42	16.0	1.3	0.39	B	
	Sep-23	18°C	7.42	219	330	7.0	9.0	283	248	35	188	1.5	5.2	150	120	6.8	0.25	0.09	90.43	0.18	0.40	14.6	1.6	0.38	B	
River Rispana B/C to River Bindal at Mothorowala																										
43	Jan-23	15°C	6.67	312	470	3.2	23.0	341	281	60	350	22.0	86.0	≥1600	≥1600	920	0.24	0.15	140.18	0.31	0.37	24.1	12.0	0.56	E	
	Feb-23	18°C	6.80	330	498	4.0	25.0	440	300	140	250	20.0	78.0	≥1600	≥1600	920	0.29	0.20	142.07	0.41	0.63	21.0	3.3	0.43	D	
	Mar-23	18°C	7.39	289	435	3.6	30.0	455	308	147	325	22.0	82.0	>1600	>1600	1600	0.26	0.09	130.94	0.25	0.41	42.2	3.9	0.85	E	
	Apr-23	20°C	7.30	348	525	2.0	35.0	364	293	71	297	26.0	90.0	>1600	>1600	1600	0.31	0.18	149.50	0.64	0.35	33.2	10.7	0.75	E	
	May-23	26°C	7.10	421	634	NIL	47.0	360	240	120	315	36.0	118.0	>1600	>1600	1600	0.29	0.13	149.20	0.22	0.38	32.5	10.3	0.74	E	
	Jun-23	21°C	7.40	480	721	NIL	49.0	420	350	70	330	38.0	122.0	>1600	>1600	540	0.37	0.15	110.36	0.25	0.53	34.10	10.9	0.72	E	
	Jul-23	21°C	7.40	243	366	0.6	41.0	335	254	81	245	36.0	118.0	92000	17000	920	0.63	0.09	87.29	0.26	0.30	32.07	9.7	0.76	E	
	Aug-23	17°C	7.30	275	414	1.0	39.0	331	271	60	245	34.0	114.0	>1600	>1600	920	0.43	0.11	118.36	0.24	0.28	33.6	10.0	0.80	E	
	Sep-23	20°C	7.22	252	380	1.4	37.0	315	263	52	236	32.0	112.0	>1600	1600	920	0.35	0.06	120.40	0.20	0.22	31.8	9.5	0.78	E	
River Bindal U/S at Bindal Bridge, Dehradun																										
44	Jan-23	16°C	6.60	427	643	2.4	29.0	293	168	125	369	26.0	96.0	≥1600	≥1600	920	0.27	0.11	138.51	0.29	0.31	31.1	9.6	0.78	E	
	Feb-23	20°C	6.69	387	582	NIL	60.0	456	319	137	320	50.0	160.0	≥1600	≥1600	920	0.37	0.09	123.72	0.28	0.35	73.9	27.3	1.50	E	
	Mar-23	18°C	7.20	278	420	NIL	66.0	482	303	179	312	52.0	168.0	>1600	>1600	920	0.32	0.15	127.14	0.29	0.35	40.8	12.0	0.80	E	

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
	Apr-23	River Dry																							
	May-23	27°C	6.80	480	725	NIL	55.0	367	228	139	425	56.0	176.0	>1600	>1600	1600	0.30	0.16	122.35	0.24	0.39	47.6	11.1	1.07	E
	Jun-23	20°C	8.00	520	780	NIL	58.0	390	260	130	366	58.0	180.0	>1600	>1600	920	0.52	0.16	170.11	0.23	0.35	49.75	12.0	1.09	E
	Jul-23	21°C	7.20	279	423	0.6	49.0	351	263	88	291	56.0	176.0	160000	92000	920	0.39	0.43	120.31	0.28	0.48	48.25	11.1	1.12	E
	Aug-23	17°C	7.40	295	445	0.8	48.0	268	240	28	220	55.0	174.0	>1600	1600	540	0.41	0.28	157.35	0.26	0.40	50.0	18.3	1.33	E
	Sep-23	20°C	7.17	270	406	1.0	47.0	249	225	24	205	54.0	172.0	>1600	1600	920	0.36	0.25	138.60	0.22	0.35	48.9	17.8	1.35	E
River Bindal D/S Near Kargi Chowk, Dehradun																									
45	Jan-23	16°C	7.96	490	739	2.0	31.0	306	196	110	355	28.0	100.0	≥1600	≥1600	540	0.28	0.06	130.16	0.32	0.29	26.8	14.8	0.66	E
	Feb-23	19°C	6.90	441	664	NIL	73.0	532	386	146	396	48.0	152.0	≥1600	≥1600	920	1.43	0.41	127.03	0.22	0.41	70.6	35.3	1.32	E
	Mar-23	17°C	7.28	317	480	NIL	76.0	520	378	142	348	50.0	160.0	>1600	>1600	920	0.31	0.13	141.96	0.31	0.36	41.6	25.0	0.79	E
	Apr-23	20°C	6.90	424	639	NIL	78.0	390	300	90	460	52.0	164.0	>1600	>1600	1600	0.26	0.15	129.11	0.16	0.46	56.6	21.1	1.24	E
	May-23	26°C	7.30	495	744	NIL	45.0	368	281	87	350	54.0	170.0	>1600	>1600	1600	0.28	0.15	119.28	0.26	0.42	55.8	20.3	1.26	E
	Jun-23	21°C	7.80	533	799	NIL	48.0	350	266	84	320	56.0	174.0	>1600	>1600	920	0.38	0.18	147.25	0.20	0.46	58.10	21.2	1.34	E
	Jul-23	19°C	7.60	267	405	0.8	38.0	380	255	125	300	52.0	168.0	16000	9200	430	0.63	0.21	108.31	0.23	0.52	56.25	19.8	1.25	E
	Aug-23	18°C	7.60	283	425	1.0	37.0	295	254	41	235	51.0	166.0	>1600	920	350	0.59	0.25	147.26	0.24	0.49	47.1	21.0	1.19	E
	Sep-23	21°C	7.35	253	381	1.2	36.0	263	228	35	213	50.0	164.0	>1600	1600	540	0.50	0.22	165.77	0.20	0.39	46.2	20.4	1.24	E
River Bindal B/C to River Rispana at Mothorowala, Dehradun																									
46	Jan-23	16°C	7.26	263	400	2.8	27.0	392	290	102	309	24.0	90.0	≥1600	≥1600	540	0.30	0.02	131.85	0.36	0.30	25.6	14.5	0.56	E
	Feb-23	18°C	6.84	316	477	1.4	40.0	448	298	150	304	32.0	108.0	≥1600	≥1600	920	0.90	0.19	130.09	0.17	0.49	23.7	4.4	0.48	E
	Mar-23	18°C	7.22	300	453	1.2	42.0	419	310	109	318	34.0	112.0	>1600	>1600	1600	0.23	0.12	156.25	0.28	0.31	25.6	6.9	0.54	E
	Apr-23	20°C	7.02	316	475	1.4	37.0	236	152	84	275	32.0	110.0	>1600	>1600	1600	0.28	0.19	103.72	0.10	0.38	16.8	1.7	0.47	E
	May-23	25°C	6.78	344	517	0.8	39.0	365	270	95	310	34.0	114.0	>1600	>1600	1600	0.28	0.14	133.11	0.20	0.38	16.0	1.5	0.36	E
	Jun-23	21°C	6.60	326	490	0.6	41.0	384	261	123	296	36.0	120.0	>1600	>1600	920	0.63	0.12	120.36	0.19	0.48	19.83	2.4	0.43	E
	Jul-23	20°C	7.48	265	401	1.2	38.0	360	245	115	282	34.0	114.0	160000	92000	920	0.88	0.34	84.24	0.15	0.49	18.12	3.6	0.41	E
	Aug-23	18°C	7.35	270	408	1.4	36.0	271	244	27	216	32.0	110.0	>1600	>1600	920	0.67	0.24	123.11	0.20	0.37	20.0	7.1	0.53	E
	Sep-23	20°C	7.20	237	357	1.6	34.0	245	222	23	196	30.0	108.0	1600	920	540	0.62	0.23	117.60	0.21	0.41	21.6	7.8	0.60	E
Drain after STP at Swargaashram, Rishikesh																									
47	Jun-23																								
Asan Conservation Reserve, Dehradun																									
48	May-23	29°C	8.45	152	232	9.0	5.0	114	108	06	113	1.0	4.0	2.0	2.0	ND	0.73	BDL	21.87	0.02	0.17	11.5	2.8	0.46	A
	Jun-23	27°C	8.30	43	65	8.8	3.0	44	40	04	35	1.0	4.0	2.0	2.0	ND	0.65	ND	33.20	0.05	0.22	10.1	1.9	0.66	A
	Jul-23	19°C	8.22	56	86	8.4	5.0	52	44	08	45	1.0	4.0	2.0	2.0	ND	1.15	ND	33.15	0.06	0.21	8.9	1.5	0.54	A
	Aug-23	21°C	8.40	68	103	8.6	4.0	68	61	07	61	1.0	4.0	2.0	<1.8	ND	0.59	0.03	37.05	0.04	0.21	3.9	2.0	0.21	A
	Sep-23	23°C	7.66	47	72	8.8	5.0	50	40	10	41	1.0	4.0	2.0	<1.8	ND	0.47	0.06	47.31	0.10	0.25	3.3	1.7	0.20	A
River Ganga canal D/S at Har ki Pauri, Rishikul Bridge, Haridwar																									

49	Jan-23	15.6°C	8.11	227	355	10.0	13.0	66	36	30	58	1.6	8.0	79	22	9.1	0.26	0.00	24.02	0.16	0.49	2.4	1.8	0.13	B	
	Feb-23	18.7°C	8.39	224	350	9.8	11.0	72	34	38	54	1.8	6.4	84	34	20	0.20	0.01	20.2	0.15	0.40	3.0	2.4	0.15	B	
	Mar-23	22.0°C	8.21	115.5	180.5	9	8.0	79	40	39	209	2.4	8.0	110	40	25	0.46	0.22	43.89	1.22	0.54	18.8	6.3	0.92	B	
	Apr-23	21.5°C	8.10	200	312.5	9.2	7.0	60	36	24	205	2.2	6.4	70	26	17	0.21	0.01	19.0	0.15	0.40	16.4	5.8	0.91	B	
	May-23	25.7°C	8.11	188	294	8.8	6.0	129	79	50	138	1.2	5.0	84	33	17	0.20	0.04	28.66	0.45	0.66	11.0	3.2	0.42	B	
	Jun-23	24.8°C	7.90	173	270	7.9	10.0	72	42	30	115	2.2	8.8	94	47	15	0.28	0.04	20.79	0.15	0.33	12.2	3.5	0.62	B	
	Jul-23	24.1°C	8.20	218	342	7.8	9.0	60	35	25	64	1.4	8.0	150	63	47	0.36	0.19	31.60	0.39	0.33	7.9	5.1	0.44	B	
	Aug-23	Canal was closed																								
	Sep-23	25°C	7.56	198	310	8.6	8.0	78	40	38	89	1.6	9.0	140	32	21	0.16	0.08	28.53	0.64	0.51	1.1	1.7	0.05	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 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	
50	Jan-23	14.8°C	8.21	164	257	10.3	13.0	76	31	45	52	1.6	7.0	63	39	9.2	0.25	0.00	24.22	0.18	0.34	2.3	1.9	0.11	B	
	Feb-23	18.1 °C	8.27	152	237	10.0	10.0	65	28	37	62	1.8	6.8	94	49	17	0.22	0.01	22.8	0.15	0.47	3.0	2.6	0.16	B	
	Mar-23	21.0°C	7.76	106.6	166.5	9.18	6.0	37	24	13	80	1	10.0	120	70	31	0.21	0.02	30.33	0.95	0.86	4.8	2.7	0.34	B	
	Apr-23	21.3°C	7.70	120	187.5	9.6	7.0	32	22	10	82	1.2	5.5	84	58	20	0.20	0.01	18.8	0.18	0.45	4.80	2.8	0.36	B	
	May-23	23.8°C	8.12	180	281	9.0	6.0	119	64	55	150	1.6	6.0	70	26	9.2	0.10	0.04	21.28	0.42	0.44	10.0	3.6	0.40	B	
	Jun-23	22.8°C	7.60	134	210	8.2	8.0	44	28	16	92	2.0	10.0	94	31	17	0.26	0.05	20.62	0.13	0.32	3.7	2.1	0.24	B	
	Jul-23	22.6°C	8.16	215	336	8.5	6.0	68	36	32	60	1.8	10.0	120	63	43	0.29	0.13	38.70	0.41	0.38	7.8	5.1	0.41	B	
	Aug-23	Canal was closed																								
	Sep-23	25°C	7.46	203	318	8.4	5.0	73	44	29	86	1.6	8.0	120	34	14	0.19	0.04	25.93	0.67	0.49	1.7	1.7	0.09	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 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	
51	Jan-23	18.2°C	7.68	366	572	9.2	19.0	134	75	59	105	2.4	14.0	79	25	17	0.31	0.30	32.38	0.28	0.89	11.8	5.3	0.44	B	
	Feb-23	20.6 °C	8.40	356	556	9.4	20.0	124	72	52	98	2.0	16.0	110	70	17	0.32	0.30	28.6	0.44	0.76	10.5	4.5	0.40	B	
	Mar-23	23.3°C	7.95	183	286	8.5	12.0	125	75	50	210	2.4	14.0	94	48	32	1.24	0.33	35.89	1.25	0.38	45.0	19.0	1.75	B	
	Apr-23	22.9°C	8.15	205	320.3	9.6	12.0	122	74	48	212	2.1	6.8	94	58	15	0.30	0.30	28.0	0.40	0.76	43.0	17.0	1.69	B	
	May-23	26.4°C	8.19	200	313	8.8	8.0	131	79	52	190	2.0	9.0	79	32	14	0.44	0.24	38.21	0.48	0.66	8.0	5.8	0.30	B	
	Jun-23	23.7°C	7.20	220	344	8.0	10.0	110	64	46	190	2.2	9.0	120	48	22	0.30	0.30	28.0	0.40	0.76	38.0	14.0	1.57	B	
	Jul-23	24.9°C	7.76	235	368	7.6	8.0	64	40	24	61	1.4	10.0	130	63	43	0.27	0.16	33.60	0.32	0.29	7.9	5.0	0.43	B	
	Aug-23	22°C	7.20	160	250	8.4	11	164	119	45	170	2.0	9.0	94	40	20	0.64	0.06	23.40	0.43	0.70	3.9	2.2	0.13	B	
	Sep-23	26°C	7.58	200	313	8.4	8.0	83	50	33	118	1.2	8.0	140	46	22	0.20	0.16	30.48	0.81	0.79	1.3	1.8	0.06	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 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	
52	Jan-23	15.0°C	8.15	161	252	10.4	15.0	79	31	48	56	1.6	7.0	70	38	11	0.22	0.00	24.68	0.16	0.32	2.7	1.8	0.13	B	
	Feb-23	17.7 °C	8.32	140	219	10.2	10.0	81	26	55	60	1.5	7.0	70	38	21	0.20	0.01	20.6	0.16	0.42	3.2	2.3	0.15	B	

	Mar-23	20.4°C	7.95	115.5	180.5	9.08	7.0	29	15	14	90	2.3	9.0	63	47	33	0.03	0.09	27.30	0.20	0.82	5.8	2.9	0.47	B	
	Apr-23	21.8°C	7.90	110	171.9	9.0	7.8	30	12	18	86	2.0	6.4	63	38	17	0.20	0.01	20.0	0.14	0.40	5.50	3.5	0.43	B	
	May-23	22.1°C	8.02	183	286	8.6	6.0	143	79	64	169	1.8	8.0	79	24	9.1	0.20	0.08	26.46	0.40	0.44	8.0	2.1	0.29	B	
	Jun-23	23.9°C	7.70	150	235	8.1	8.0	34	14	20	78	2.0	8.0	110	32	11	0.44	0.08	21.64	0.25	0.30	4.3	2.3	0.32	B	
	Jul-23	24.7°C	8.20	214	335	7.8	9.0	72	40	32	63	1.8	10.0	140	79	48	0.24	0.15	36.30	0.38	0.31	7.9	5.1	0.40	B	
	Aug-23	Canal was closed																								
	Sep-23	24°C	7.81	190	298	8.4	6.0	76	42	34	89	1.6	8.0	110	27	17	0.17	0.06	24.67	0.64	0.44	0.9	1.9	0.04	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 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	
53	Jan-23	15.6°C	8.17	245	384	10.2	11.0	86	41	45	60	1.8	8.0	79	32	9.3	0.26	0.00	23.94	0.22	0.32	2.5	1.9	0.12	B	
	Feb-23	18.1°C	8.24	220	344	10.2	10.0	80	28	52	65	1.5	6.4	70	32	14	0.29	0.02	22.0	0.17	0.44	3.2	2.6	0.15	B	
	Mar-23	22.5°C	8.1	120.25	187.9	9	6.0	50	20	30	80	1	8.0	150	48	26	0.80	0.25	27.52	1.00	0.20	13.2	5.0	0.81	B	
	Apr-23	21.0°C	8.00	125	195.3	9.4	8.0	46	18	28	79	1.2	6.5	70	27	13	0.25	0.02	21.0	0.16	0.42	13.5	4.6	0.86	B	
	May-23	23.2°C	7.92	186	291	8.4	5.0	118	60	58	98	1.8	8.0	70	34	14	0.18	0.04	23.67	0.34	0.41	8.9	2.4	0.36	B	
	Jun-23	23.2°C	7.30	166	259	8.0	8.0	42	18	24	79	1.8	7.8	84	38	21	0.36	0.10	22.4	0.13	0.40	13.2	4.7	0.88	B	
	Jul-23	24.0°C	8.16	245	384	7.7	9.0	58	30	28	70	1.8	10.0	150	63	46	0.26	0.12	35.90	0.35	0.31	7.2	5.7	0.41	B	
	Aug-23	Canal was closed																								
	Sep-23	24°C	7.79	193	302	8.1	6.0	80	49	31	102	1.4	7.0	120	33	13	0.19	0.06	24.08	0.60	0.48	1.3	1.7	0.06	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 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
54	Jan-23	16.8°C	8.16	276	421	9.8	13.0	87	31	56	64	2.0	8.0	84	32	11	0.31	0.00	28.39	0.16	0.56	2.5	1.8	0.12	B
	Feb-23	18.2 °C	8.29	242	378	9.8	11.0	74	30	44	78	1.6	7.4	84	43	11	0.26	0.02	24.0	0.15	0.44	3.4	2.7	0.17	B
	Mar-23	21.7°C	7.56	140	219	8.76	8.0	33	18	15	224	1.2	6.0	84	34	6.0	0.78	0.04	18.60	0.19	0.39	5.6	2.8	0.42	B
	Apr-23	22.0°C	7.80	160	250.0	9.4	9.6	44	20	24	220	1.4	6.8	110	33	13	0.23	0.02	22.0	0.15	0.38	4.80	2.5	0.31	B
	May-23	23.7°C	7.88	192	300	8.8	8.0	122	52	70	82	1.8	7.0	79	32	10	0.12	0.04	28.21	0.40	0.22	9.0	2.1	0.35	B
	Jun-23	22.4°C	7.40	143	224	8.4	10.0	58	26	32	60	1.4	6.2	94	39	17	0.36	0.06	23.22	0.18	0.23	3.4	2.2	0.19	B
	Jul-23	25.3°C	8.14	201	315	7.9	5.0	68	38	30	57	2.2	12.0	140	70	46	0.25	0.11	40.20	0.56	0.43	7.8	5.3	0.41	B
	Aug-23	22°C	7.80	170	266	7.6	10.0	141	109	32	154	2.6	12.0	140	58	25	0.39	0.05	22.60	0.64	0.58	4.2	4.0	0.15	B
	Sep-23	25°C	7.31	204	320	8.6	8.0	78	42	36	94	1.8	10.0	170	31	22	0.22	0.09	28.06	0.78	0.55	1.3	1.6	0.06	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 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
55	Jan-23	17.9°C	7.76	414	648	9.3	21.0	135	75	60	112	2.4	16.0	84	38	20	0.39	0.33	30.29	0.28	0.88	10.5	4.8	0.39	B
	Feb-23	20.9 °C	8.45	298	466	9.6	22.0	130	70	60	102	2.2	15.0	120	70	21	0.35	0.30	28.0	0.35	0.80	9.5	4.4	0.36	B
	Mar-23	23.9°C	7.98	208.64	326	8.4	12.0	83	33	50	220	2.4	12.0	79	58	24	0.34	0.06	32.02	0.86	0.76	32.7	11.5	1.56	B
	Apr-23	23.0°C	8.10	190	296.9	9.8	11.0	80	32	48	215	2.3	7.2	110	63	21	0.34	0.20	25.0	0.34	0.78	34.3	10.2	1.66	B
	May-23	25.3°C	8.23	210	328	9.0	8.0	145	80	65	198	1.8	7.0	94	41	20	0.38	0.17	35.94	0.68	0.59	9.0	4.7	0.32	B

	Jun-23	24°C	7.30	202	315	8.2	11.0	88	40	48	170	2.4	10.0	110	47	25	0.32	0.10	26.63	0.53	0.43	31.8	9.8	1.47	B
	Jul-23	26.3°C	8.24	302	473	7.1	10.0	66	36	30	77	1.6	12.0	170	79	63	0.32	0.12	40.20	0.49	0.27	9.6	7.7	0.51	B
	Aug-23	22°C	7.50	170	266	7.6	12.0	158	124	34	172	2.6	10.0	110	47	17	0.46	0.10	23.80	0.34	0.60	6.6	2.9	0.22	B
	Sep-23	26°C	7.62	212	332	8.2	10.0	84	52	32	122	1.4	10.0	130	41	25	0.24	0.12	29.94	0.84	0.85	4.9	2.5	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
56	Jan-23	14.7°C	7.72	278	435	9.7	13.0	88	38	50	61	2.2	12.0	94	31	12	0.84	0.01	29.08	0.32	0.78	3.1	2.1	0.14	B
	Feb-23	17.7°C	8.30	270	422	9.5	14.0	82	40	42	62	2.0	10.0	120	43	21	0.46	0.04	30.0	0.36	0.70	4.0	2.9	0.19	B
	Mar-23	19.2°C	8.14	141.4	221	8.9	14.0	296	144	152	245	2.4	12.0	94	21	10	0.87	0.22	31.24	0.23	0.29	34.2	8.4	0.86	B
	Apr-23	23.0°C	8.20	140	218.8	9.0	12.0	288	138	150	240	2.2	7.8	120	41	22	0.41	0.02	30.4	0.32	0.75	35.0	8.2	0.89	B
	May-23	24.6°C	7.69	245	383	8.8	8.0	142	64	78	171	2.2	8.0	94	47	26	0.49	0.32	38.92	0.46	0.52	5.9	2.8	0.21	B
	Jun-23	23°C	8.20	186	290	7.8	10.0	254	118	136	214	2.0	8.2	110	63	33	0.64	0.21	30.87	0.34	0.42	34.4	8.6	0.94	B
	Jul-23	25.7°C	8.12	239	374	7.8	8.0	80	45	35	55	2.2	16.0	170	79	63	0.29	0.16	36.50	0.34	0.36	5.2	3.4	0.25	B
	Aug-23	23°C	7.52	180	281	7.4	12.0	127	93	34	142	2.4	10.0	170	63	26	0.63	0.05	21.40	0.36	0.70	5.6	4.8	0.21	B
	Sep-23	24°C	7.42	208	325	8.1	10.0	69	35	34	82	1.8	12.0	170	47	24	0.29	0.10	30.56	0.87	0.65	0.7	1.9	0.04	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
57	Jan-23	16.2°C	7.75	594	772	5.0	29.0	100	70	30	221	2.8	16.0	110	48	24	0.68	0.02	35.40	0.31	0.84	25.8	8.7	1.12	B
	Feb-23	24.2 °C	7.91	580	906	5.2	25.0	112	64	48	215	2.4	16.8	120	63	20	0.54	0.02	34.6	0.30	0.40	20.9	8.2	0.85	B
	Mar-23	25.8°C	8.04	144	225	5.9	11.0	68	40	28	250	1.8	10.0	130	63	24	0.26	0.44	21.50	0.22	0.45	13.5	4.5	0.71	B
	Apr-23	20.0°C	8.19	150	234.4	7.8	16.0	66	48	18	246	1.8	8.8	120	70	25	0.52	0.04	33.8	0.30	0.45	12.4	4.3	0.66	B
	May-23	24.9°C	7.62	268	419	5.0	14.0	158	85	73	118	2.6	10.0	110	58	32	0.56	0.44	40.86	0.88	0.79	11.0	4.0	0.38	B
	Jun-23	23.2°C	7.80	170	266	5.2	16.0	62	46	16	80	1.8	7.6	120	48	22	0.87	0.22	31.28	0.23	0.66	12.8	4.8	0.71	B
	Jul-23	26.5°C	7.98	418	654	5.1	12.0	98	50	48	148	2.6	14.0	140	79	63	0.49	0.27	48.70	0.78	0.45	26.1	13.5	1.15	B
	Aug-23	23°C	7.56	189	296	5.8	10.0	92	48	44	120	2.4	10.0	120	46	17	0.59	0.22	38.70	0.58	0.55	18.1	11.0	0.82	B
	Sep-23	28°C	7.89	460	718	5.2	8.0	110	62	48	112	2.2	10.0	110	41	17	0.52	0.24	34.02	0.54	0.32	22.6	5.39	0.93	B

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
58	Jan-23	15.7°C	8.30	167	261	10.3	21.0	79	36	43	63	1.8	10.0	70	14	9.3	0.28	0.03	25.89	0.23	0.43	2.4	2.1	0.12	B
	Feb-23	23.7 °C	7.92	170	260	9.0	18.0	72	32	40	65	1.8	9.6	84	39	17	0.30	0.04	22.4	0.35	0.42	5.4	2.0	0.27	B
	Mar-23	20.5°C	7.69	175.3	274	8.9	8.0	179	111	68	292	2.4	12.0	120	63	25	0.63	0.08	24.51	0.05	0.07	30.3	7.3	0.98	B
	Apr-23	22.3°C	8.20	168	262.5	9.8	8.8	168	109	59	283	1.8	7.5	94	43	20	0.32	0.02	21.8	0.36	0.40	24.5	7.0	0.82	B
	May-23	22.6°C	7.98	194	303	9.2	7.0	150	90	60	198	1.8	8.0	70	20	9.1	0.23	0.04	28.32	0.44	0.32	11.3	4.3	0.40	B
	Jun-23	22.5°C	7.90	143	223	8.1	8.0	172	110	62	150	1.8	7.4	94	47	15	0.46	0.02	23.13	0.57	0.32	26.2	8.2	0.87	B
	Jul-23	25.4°C	8.20	202	316	7.6	3.0	64	35	29	51	1.4	10.0	130	63	46	0.27	0.16	39.46	0.33	0.28	6.1	3.8	0.33	B
	Aug-23	23°C	7.58	182	285	8.2	8.0	84	46	38	96	1.6	6.0	94	33	21	0.47	0.19	29.46	0.41	0.32	8.1	6.0	0.38	B

	Sep-23	26°C	7.56	210	328	8.4	6.0	112	72	40	144	1.6	8.0	110	39		20	0.29	0.15	40.12	0.26	0.21	6.4	2.5	0.26	
Drain after STP at Jagjeetpur, Haridwar																										
59																										
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 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	
60	Jan-23	14°C	7.25	64	98	10.4	6.0	65	55	10	60	1.0	4.0	49	26	8.1	0.09	0.04	16.80	0.15	0.21	4.5	1.9	0.24	A	
	Feb-23	15°C	7.36	52	80	10.2	4.0	75	50	25	56	1.0	4.0	48	46	6.8	0.09	0.03	17.32	0.19	0.30	13.5	1.8	0.67	A	
	Mar-23	18°C	7.28	75	114	10.4	7.0	80	48	32	72	1.0	4.0	49	47	8.1	0.05	0.03	19.22	0.15	0.28	4.8	2.2	0.23	A	
	Apr-23	23°C	7.40	65	99	10.2	5.0	49	36	13	52	1.0	4.0	47	43	6.8	0.06	0.01	16.33	0.13	0.19	4.3	1.9	0.26	A	
	May-23	18°C	8.31	148	223	10.0	8.0	81	72	9	69	1.0	4.0	49	48	10	0.11	0.09	15.28	0.15	0.26	4.0	1.7	0.19	A	
	Jun-23	31°C	8.45	70	108	9.8	6.0	63	58	05	72	1.0	4.0	49	48	3.7	0.12	0.03	18.95	0.16	0.45	5.3	2.3	0.29	A	
	Jul-23	20°C	7.80	52	84	9.4	3.0	52	37	15	58	1.0	4.0	49	48	7.8	0.09	0.02	17.29	0.15	0.15	4.8	2.0	0.29	A	
	Aug-23	17°C	7.45	67	103	9.6	5.0	69	53	16	72	1.0	4.0	46	33	4.0	0.08	0.02	25.22	0.24	0.19	4.5	2.4	0.23	A	
	Sep-23	21°C	7.39	55	85	9.8	6.0	59	45	14	63	1.0	4.0	47	40	4.0	0.05	0.04	20.41	0.22	0.16	3.9	2.1	0.22	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 Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality	
61	Jan-23	13°C	7.03	61	93	10.6	5.0	68	57	11	57	1.0	4.0	40	22	4.0	0.13	0.03	19.35	0.16	0.23	6.4	1.0	0.33	A	
	Feb-23	14°C	7.19	55	84	10.4	3.0	68	61	07	54	1.0	4.0	46	43	5.6	0.11	0.05	20.07	0.16	0.25	13.2	1.3	0.69	A	
	Mar-23	19°C	7.65	74	112	10.6	6.0	72	50	22	68	1.0	4.0	41	39	6.0	0.06	0.02	15.36	0.22	0.22	4.4	1.9	0.22	A	
	Apr-23	22°C	7.10	62	93	10.4	4.0	45	32	13	49	1.0	4.0	39	34	5.5	0.07	0.03	18.16	0.18	0.25	4.0	1.7	0.25	A	
	May-23	17°C	8.20	142	215	10.2	7.0	79	68	11	65	1.0	4.0	47	43	6.0	0.13	0.05	17.36	0.17	0.20	3.6	1.4	0.17	A	
	Jun-23	31°C	8.38	68	104	10.0	4.0	64	60	04	68	1.0	4.0	49	41	5.5	0.09	0.02	17.28	0.20	0.37	5.0	2.1	0.27	A	
	Jul-23	21°C	7.90	50	81	9.6	2.0	46	34	12	56	1.0	4.0	48	41	5.6	0.05	0.01	20.37	0.20	0.17	4.4	1.8	0.28	A	
	Aug-23	16°C	7.50	62	95	9.8	4.0	65	51	14	69	1.0	4.0	43	31	4.0	0.06	0.03	23.17	0.20	0.15	4.0	2.1	0.22	A	
	Sep-23	20°C	7.32	48	74	10.0	5.0	53	41	12	58	1.0	4.0	48	41	2.0	0.05	0.04	18.42	0.21	0.18	3.6	1.9	0.21	A	
Nainital Lake Water Intake, Nainital																										
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality	
62	Jan-23	08°C	7.42	266	390	9.2	17.0	256	142	114	212	1.0	5.0	170	120	8.3	0.11	0.07	108.62	0.23	0.31	9.6	3.0	0.25	B	
	Feb-23	10°C	7.17	281	410	9.0	13.0	244	126	118	238	1.4	6.0	150	130	11	0.15	0.09	55.36	0.23	0.31	18.9	4.9	0.52	B	
	Mar-23	12°C	7.94	299	430	9.0	11.0	248	138	110	206	1.8	6.0	120	110	10	0.12	0.03	63.24	0.13	0.37	8.1	3.3	0.22	B	
	Apr-23	14°C	7.66	321	470	8.6	15.0	262	146	116	218	2.2	6.0	94	84	5.5	0.10	0.03	73.22	0.16	0.38	6.4	3.7	0.17	B	
	May-23	16°C	7.85	315	470	8.2	19.0	254	142	112	226	2.0	7.0	120	94	3.7	0.11	0.04	65.26	0.14	0.35	6.0	3.2	0.16	B	
	Jun-23	18°C	7.51	301	450	8.4	13.0	256	138	118	222	2.4	7.0	110	84	5.5	0.08	0.002	33.94	0.20	0.29	12.0	10.7	0.32	B	
	Jul-23	16°C	7.38	275	410	8.8	15.0	240	132	108	194	2.0	6.0	130	94	6.0	0.09	0.01	38.16	0.23	0.31	6.3	1.6	0.18	B	
	Aug-23	15°C	7.76	259	380	9.2	13.0	234	122	112	188	1.2	5.0	140	110	6.1	0.12	0.04	39.71	0.29	0.33	13.3	4.0	0.38	B	
	Sep-23	14°C	7.49	271	390	9.0	17.0	246	130	116	196	1.8	6.0	170	140	4.0	0.15	0.05	35.42	0.25	0.30	11.9	3.7	0.33	B	

Bheemtal Lake Water Intake, Nainital																											
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality		
63	Jan-23	11°C	7.88	167	240	9.0	15.0	208	112	96	168	1.2	6.0	150	79	21	0.09	0.03	22.90	0.20	0.30	6.4	4.3	0.19	B		
	Feb-23	12°C	8.15	149	220	8.8	17.0	196	108	88	176	1.6	5.0	170	120	17	0.17	0.06	66.20	0.19	0.29	18.7	4.8	0.57	B		
	Mar-23	14°C	7.36	140	210	8.6	13.0	184	102	82	154	1.4	5.0	130	120	14	0.17	0.08	59.20	0.18	0.25	5.4	3.7	0.17	B		
	Apr-23	16°C	7.83	122	180	8.2	19.0	216	114	102	162	1.8	6.0	110	94	13	0.13	0.06	62.85	0.17	0.28	7.9	1.7	0.23	B		
	May-23	18°C	7.43	138	210	8.0	17.0	228	122	106	184	1.4	5.0	130	110	11	0.14	0.05	63.11	0.15	0.25	7.1	1.5	0.20	B		
	Jun-23	20°C	7.68	145	220	8.2	15.0	214	116	98	176	1.8	6.0	150	130	9.1	0.11	0.001	28.49	0.19	0.33	11.1	10.5	0.33	B		
	Jul-23	18°C	7.16	129	190	8.6	11.0	196	102	94	158	1.2	5.0	180	120	6.8	0.10	0.02	25.81	0.15	0.37	5.4	1.4	0.17	B		
	Aug-23	17°C	7.39	110	160	9.0	13.0	184	96	88	152	1.0	4.0	120	94	4.0	0.18	0.03	30.59	0.18	0.31	8.9	3.7	0.28	B		
	Sep-23	17°C	7.76	118	180	8.8	11.0	204	106	98	164	1.2	4.0	150	120	4.0	0.16	0.05	28.52	0.15	0.28	8.1	3.3	0.25	B		
Gola River at Haldwani, Nainital																											
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Streptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality		
64	Jan-23	13°C	8.12	184	260	8.8	19.0	230	126	104	172	1.4	5.0	94	63	9.3	0.12	0.05	50.86	0.11	0.26	6.9	3.5	0.19	B		
	Feb-23	14°C	7.84	163	240	8.6	21.0	236	134	102	194	1.6	6.0	110	94	13	0.18	0.10	55.11	0.26	0.38	12.4	4.9	0.34	B		
	Mar-23	16°C	7.39	171	260	8.2	25.0	240	132	108	190	2.0	6.0	94	84	12	0.13	0.09	60.17	0.17	0.23	5.6	2.8	0.15	B		
	Apr-23	19°C	8.17	179	260	7.8	27.0	238	128	110	186	2.0	7.0	84	70	9.3	0.09	0.05	57.15	0.18	0.25	8.1	3.1	0.22	B		
	May-23	22°C	7.79	185	280	7.6	21.0	248	132	116	192	2.2	7.0	94	79	6.0	0.08	0.04	48.33	0.14	0.14	7.7	2.8	0.21	B		
	Jun-23	23°C	7.35	172	260	7.4	25.0	242	130	112	184	2.2	6.0	84	84	5.5	0.12	0.002	21.49	0.15	0.30	11.1	10.4	0.31	B		
	Jul-23	20°C	7.41	166	240	7.8	21.0	222	116	106	166	2.4	7.0	120	94	4.0	0.10	0.06	27.28	0.26	0.33	7.3	2.8	0.21	B		
	Aug-23	19°C	7.91	158	230	8.2	19.0	216	112	104	172	2.0	6.0	120	94	6.1	0.15	0.06	29.84	0.23	0.22	4.8	3.7	0.14	B		
	Sep-23	18°C	7.25	177	260	8.4	23.0	232	122	110	182	2.0	6.0	210	170	6.1	0.15	0.06	25.63	0.20	0.25	4.1	3.5	0.12	B		
Sattal lake, Nainital																											
S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal 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		
65	Jan-23	09°C	7.38	113	160	9.2	13.0	170	96	74	152	1.0	4.0	140	84	13	0.13	0.05	42.93	0.14	0.25	5.9	3.2	0.19	B		
	Feb-23	10°C	7.51	118	170	9.0	13.0	180	94	86	164	1.2	5.0	150	120	11	0.11	0.13	59.36	0.25	0.45	12.5	5.0	0.40	B		
	Mar-23	11°C	7.17	129	180	9.0	17.0	164	88	76	146	1.4	4.0	170	150	12	0.22	0.03	57.99	0.22	0.28	5.4	2.9	0.18	B		
	Apr-23	13°C	8.24	86	130	8.4	11.0	152	84	68	126	1.0	4.0	150	130	13	0.15	0.07	60.23	0.15	0.33	5.1	2.0	0.17	B		
	May-23	15°C	7.94	93	140	8.2	13.0	162	92	70	132	1.2	4.0	170	150	11	0.13	0.06	58.71	0.18	0.30	4.8	1.9	0.16	B		
	Jun-23	17°C	7.61	113	170	8.6	15.0	182	104	78	154	1.4	5.0	130	120	9.2	0.13	0.003	38.09	0.23	0.23	12.0	10.6	0.39	B		
	Jul-23	15°C	7.43	99	150	8.8	13.0	176	94	82	142	1.2	5.0	170	110	11	0.13	0.08	40.41	0.22	0.42	5.2	1.6	0.17	B		
	Aug-23	14°C	7.58	84	130	9.2	11.0	148	82	66	136	1.0	4.0	120	94	4.0	0.23	0.08	40.08	0.16	0.25	3.4	1.0	0.12	B		
	Sep-23	13°C	7.81	91	140	9.2	11.0	156	88	68	144	1.2	4.0	170	140	4.0	0.14	0.05	35.63	0.18	0.28	3.0	0.8	0.10	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 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		
66	Jan-23	10°C	7.42	138	190	9.0	19.0	178	92	86	166	1.2	5.0	84	47	12	0.15	0.05	26.17	0.17	0.36	6.1	3.5	0.19	B		
	Feb-23	12°C	7.19	124	180	8.8	15.0	174	98	76	154	1.2	5.0	94	84	11	0.20	0.03	62.19	0.23	0.25	12.7	4.9	0.41	B		
	Mar-23	13°C	7.75	131	180	8.8	11.0	180	98	82	172	1.0	4.0	84	70	10	0.18	0.02	69.07	0.24	0.26	6.0	3.8	0.19	B		
	Apr-23	15°C	7.61	114	170	8.2	15.0	186	108	78	152	1.2	4.0	79	70	6.1	0.10	0.03	71.17	0.19	0.43	6.3	1.9	0.20	B		

	May-23	17°C	7.37	107	160	8.0	11.0	190	106	84	148	1.4	5.0	94	84	8.2	0.11	0.05	67.38	0.23	0.36	5.8	1.6	0.18	B
	Jun-23	18°C	8.13	119	180	8.2	18.0	192	112	80	166	1.8	6.0	79	70	8.1	0.12	0.003	87.62	0.23	0.36	14.4	10.4	0.45	B
	Jul-23	16°C	7.65	122	190	8.4	15.0	190	102	88	154	1.2	5.0	110	84	7.8	0.08	0.02	28.09	0.23	0.41	6.1	1.4	0.19	B
	Aug-23	16°C	7.24	109	170	8.8	13.0	174	92	82	142	1.2	4.0	94	70	6.1	0.13	0.03	64.32	0.23	0.35	2.5	2.3	0.08	B
	Sep-23	15°C	7.38	125	190	9.0	17.0	184	96	88	158	1.6	5.0	120	94	4.0	0.14	0.04	58.43	0.20	0.30	2.8	2.0	0.09	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
67	Jan-23	10°C	7.56	149	220	9.0	17.0	192	104	88	158	1.8	5.0	94	63	11	0.15	0.06	12.92	0.22	0.41	7.3	3.0	0.22	B
	Feb-23	11°C	7.48	157	230	8.6	19.0	204	112	92	162	1.4	5.0	84	79	13	0.11	0.05	60.25	0.25	0.29	17.1	3.0	0.51	B
	Mar-23	13°C	7.52	142	210	8.6	21.0	192	108	84	184	2.0	6.0	94	84	14	0.11	0.03	68.11	0.15	0.29	5.1	1.7	0.15	B
	Apr-23	15°C	7.22	167	240	8.0	19.0	200	116	84	176	2.0	6.0	110	94	12	0.05	0.04	70.10	0.25	0.29	7.0	3.4	0.21	B
	May-23	18°C	7.57	159	240	7.8	21.0	206	114	92	172	2.2	7.0	130	84	10	0.11	0.06	66.24	0.26	0.30	6.5	3.0	0.19	B
	Jun-23	19°C	7.43	140	230	8.0	17.0	216	120	96	164	2.0	6.0	110	94	9.2	0.09	0.002	22.56	0.26	0.37	11.2	10.5	0.33	B
	Jul-23	17°C	7.88	131	190	8.4	19.0	192	112	80	160	1.8	6.0	140	94	9.8	0.10	0.01	28.09	0.23	0.41	6.9	3.1	0.22	B
	Aug-23	16°C	7.62	122	170	8.6	25.0	194	106	88	168	1.4	5.0	84	63	2.0	0.16	0.02	21.09	0.19	0.39	4.4	1.3	0.14	B
	Sep-23	15°C	7.50	127	190	8.8	21.0	206	110	96	154	1.2	4.0	110	79	<1.8	0.16	0.03	20.43	0.15	0.34	4.0	1.0	0.12	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
68	Jan-23	13°C	7.80	372	482	7.8	14.0	170	150	20	208	3.6	28.0	210	120	79	0.08	0.03	133.14	0.26	0.25	14.2	8.5	0.47	D
	Feb-23	19°C	7.60	396	596	7.1	17.0	240	225	15	225	3.8	32.0	240	170	84	0.09	0.04	128.65	0.22	0.22	9.8	7.4	0.27	D
	Mar-23	24°C	7.60	422	628	7.4	18.0	218	194	24	196	3.6	28.0	220	150	70	0.07	0.04	114.0	0.19	0.20	10.4	5.2	0.30	D
	Apr-23	22°C	7.40	368	569	7.0	17.0	263	222	41	211	2.0	28.0	170	130	63	0.09	0.05	108.0	0.21	0.19	11.1	4.3	0.30	B
	May-23	31°C	7.60	365	531	6.8	21.0	236	202	34	194	2.2	24.0	210	170	58	0.12	0.04	115.0	0.20	0.20	8.6	3.2	0.24	B
	Jun-23	31°C	7.80	365	558	7.3	24.0	276	228	48	158	2.0	20.0	220	210	63	0.14	0.07	102.35	0.15	0.18	12.4	5.4	0.32	B
	Jul-23	28°C	7.90	152	248	7.0	16.0	175	141	34	155	2.2	20.0	350	280	79	0.14	0.05	102.0	0.18	0.22	6.3	4.4	0.21	B
	Aug-23	28°C	7.50	131	230	7.2	13.0	164	122	42	130	2.6	16.0	280	170	49	0.38	0.28	185.32	0.46	0.28	7.7	6.5	0.26	B
	Sep-23	29°C	7.50	119	211	7.0	18.0	155	125	30	135	2.8	16.0	170	130	47	0.28	0.25	90.18	0.42	0.22	6.4	8.4	0.22	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 Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
69	Jan-23	13°C	7.50	220	284	7.6	13.0	250	150	100	188	2.8	20.0	1600	920	94	0.11	0.04	20.14	0.23	0.27	17.8	3.0	0.48	C
	Feb-23	19°C	7.70	244	367	7.4	12.0	196	114	82	170	3.0	24.0	>1600	920	110	0.13	0.05	27.81	0.19	0.31	8.7	3.1	0.26	C
	Mar-23	23°C	7.90	235	348	7.5	11.0	174	103	71	162	2.8	20.0	1600	920	94	0.12	0.04	25.0	0.18	0.27	6.2	3.3	0.20	C
	Apr-23	21°C	7.60	180	262	7.2	13.0	150	130	20	148	2.8	24.0	540	430	84	0.11	0.06	28.0	0.16	0.25	10.6	3.0	0.37	C
	May-23	River Dry																							
	Jun-23	34°C	7.80	388	596	7.2	9.0	144	95	49	106	2.6	20.0	350	350	120	0.09	0.14	29.58	0.11	0.21	14.9	5.1	0.54	B

	Jul-23	28°C	7.60	217	334	7.0	11.0	128	88	40	135	2.7	20.0	540	430	130	0.11	0.06	29.0	0.17	0.25	4.6	5.5	0.18	C
	Aug-23	27°C	7.80	146	236	6.6	17.0	145	95	50	175	2.9	24.0	350	240	94	0.20	0.52	54.15	0.36	0.35	10.8	15.4	0.39	B
	Sep-23	31°C	7.60	158	254	6.4	19.0	140	102	38	165	3.0	20.0	430	350	79	0.17	0.23	47.03	0.29	0.29	9.6	3.9	0.35	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 Steptococccs (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
70	Jan-23	12°C	7.20	435	565	2.3	28.0	344	275	69	243	24.0	144.0	920	540	170	0.15	0.09	27.99	0.21	0.39	23.3	9.7	0.54	E
	Feb-23	19°C	7.30	472	710	1.5	48.0	282	230	52	235	38.0	240.0	1600	540	150	0.15	0.12	31.1	0.18	0.43	71.0	6.4	1.83	E
	Mar-23	23°C	7.20	640	972	1.6	45.0	251	224	27	214	36.0	192.0	>1600	920	110	0.10	0.11	32.0	0.16	0.39	52	3.6	1.42	E
	Apr-23	21°C	7.00	815	990	1.4	62.0	615	494	121	225	32.0	196.0	1600	540	70	0.12	0.10	34.0	0.19	0.36	118.0	24.6	2.06	E
	May-23	28°C	7.10	562	856	1.2	64.0	585	468	117	212	34.0	188.0	>1600	920	110	0.16	0.12	45.0	0.25	0.34	82.5	12.2	1.47	E
	Jun-23	33°C	7.40	856	1254	1.4	56.0	380	310	70	148	30.0	176.0	1600	920	170	0.11	0.15	40.89	0.18	0.30	48.1	13.8	1.07	E
	Jul-23	29°C	7.70	418	613	3.6	40.0	205	170	35	215	16.0	128.0	1600	540	150	0.15	0.10	39.0	0.22	0.31	26.1	5.3	0.79	E
	Aug-23	30°C	7.40	220	335	4.0	29.0	160	125	35	190	15.0	120.0	920	540	130	0.34	0.95	129.80	0.61	0.51	19.8	7.7	0.68	D
	Sep-23	32°C	7.10	192	298	4.1	28.0	158	121	37	180	14.0	108.0	1600	920	220	0.26	0.6	83.52	0.46	0.34	19.7	5.1	0.68	D

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 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
71	Jan-23	13°C	7.80	155	195	7.7	10.0	200	105	95	110	2.0	12.0	540	430	150	0.11	0.08	14.20	0.22	0.33	8.7	1.8	0.26	C
	Feb-23	15°C	7.50	174	262	7.6	14.0	162	124	38	118	2.6	16.0	920	430	170	0.14	0.13	17.4	0.14	0.36	6.2	2.4	0.21	C
	Mar-23	24°C	7.50	208	316	7.4	16.0	148	116	32	152	2.8	16.0	920	540	210	0.13	0.09	15.0	0.15	0.32	4.4	2.6	0.2	C
	Apr-23	21°C	7.80	168	247	7.1	15.0	162	124	38	168	3.0	20.0	540	430	170	0.15	0.08	18.0	0.17	0.28	6.3	1.6	0.21	C
	May-23	River Dry																							
	Jun-23	30°C	7.30	126	182	5.6	14.0	126	85	41	92	2.4	16.0	430	430	110	0.12	0.17	20.09	0.10	0.25	15.1	3.8	0.58	B
	Jul-23	27°C	7.60	114	185	6.2	19.0	115	71	44	120	2.2	16.0	540	350	120	0.17	0.05	20.0	0.14	0.21	5.1	6.9	0.21	C
	Aug-23	27°C	7.20	143	246	6.0	20.0	135	105	30	140	2.8	16.0	430	350	120	0.23	0.53	62.91	0.29	0.45	8.7	6.8	0.32	B
	Sep-23	26°C	7.30	147	242	6.2	18.0	128	95	33	125	2.6	16.0	350	240	110	0.19	0.31	40.53	0.22	0.3	13.4	2.7	0.51	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 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
72	Jan-23	13°C	7.70	260	350	3.0	21.0	266	227	39	200	18.0	128.0	920	540	350	0.08	0.07	19.82	0.25	0.31	21.6	3.7	0.57	E
	Feb-23	18°C	6.80	311	469	1.8	26.0	284	250	34	194	28.0	224.0	1600	920	280	0.09	0.10	27.4	0.17	0.39	55.8	13.0	1.43	E
	Mar-23	23°C	6.70	431	636	1.9	22.0	256	221	35	185	26.0	176.0	>1600	920	350	0.08	0.11	25.0	0.18	0.33	31.1	9.5	0.84	E
	Apr-23	22°C	7.40	368	598	1.7	23.0	240	210	30	165	28.0	184.0	920	540	220	0.11	0.10	27.0	0.17	0.34	35.1	3.5	0.98	E

	May-23	27°C	7.20	288	416	1.8	32.0	224	190	34	172	26.0	176.0	1600	920	240	0.21	0.11	35.0	0.22	0.32	28.8	4.5	0.83	E
	Jun-23	32°C	7.60	382	588	1.8	21.0	220	180	40	118	24.0	144.0	920	920	170	0.08	0.17	22.45	0.13	0.28	27.1	13	0.79	E
	Jul-23	30°C	7.20	245	371	4.2	18.0	163	132	31	135	14.0	80.0	1600	920	220	0.22	0.09	31.0	0.18	0.28	7.9	5.8	0.27	D
	Aug-23	29°C	7.20	131	216	4.4	17.0	140	100	40	184	12.0	76.0	1600	920	130	0.44	0.71	84.62	0.82	0.56	8.4	9.9	0.31	D
	Sep-23	32°C	7.10	166	269	4.2	21.0	148	105	43	190	12.0	80.0	920	540	170	0.34	0.59	62.03	0.51	0.36	11.5	6.3	0.41	D

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 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
73	Jan-23	12°C	7.60	535	690	3.2	27.0	460	270	190	334	10.2	64.0	920	540	150	0.13	0.03	56.76	0.23	0.41	33.0	6.6	0.66	E
	Feb-23	18°C	7.40	545	820	2.6	37.0	486	335	151	348	12.0	96.0	540	430	170	0.17	0.06	78.5	0.39	0.45	47.0	24.0	0.92	E
	Mar-23	23°C	7.30	595	918	2.9	32.0	394	289	105	364	10.0	88.0	430	350	150	0.15	0.04	69.0	0.36	0.38	28.5	22.3	0.62	E
	Apr-23	22°C	7.40	574	855	2.4	49.0	424	374	50	376	10.0	92.0	350	280	130	0.14	0.08	74.0	0.38	0.34	45.3	17.9	0.95	E
	May-23	31°C	7.50	518	765	2.8	35.0	386	344	42	350	8.0	84.0	540	430	170	0.18	0.10	82.0	0.42	0.36	40.5	12.6	0.89	E
	Jun-23	31°C	7.80	542	836	3.3	45.0	376	335	41	204	7.0	72.0	920	540	120	0.12	0.16	84.92	0.41	0.31	53.7	14.9	1.20	E
	Jul-23	28°C	7.50	296	456	5.4	27.0	228	195	33	155	4.6	40.0	1600	920	130	0.16	0.08	72.0	0.38	0.29	11.7	6.3	0.34	D
	Aug-23	29°C	7.60	183	370	6.0	18.0	206	164	42	370	3.0	20.0	920	540	94	0.21	0.67	115.81	0.64	0.31	10.8	6.8	0.33	C
	Sep-23	28°C	7.30	162	263	6.2	17.0	195	150	45	290	2.8	20.0	540	350	140	0.12	0.18	68.53	0.37	0.24	9.4	6.5	0.29	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 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
74	Jan-23	12°C	7.70	115	205	9.2	9.0	270	156	114	222	1.8	8.0	540	430	170	0.08	0.06	11.28	0.19	0.19	23.0	1.8	0.60	C
	Feb-23	River was Dry																							
	Mar-23	River was Dry																							
	Apr-23	River was Dry																							
	May-23	River was Dry																							
	Jun-23	31°C	7.70	152	220	8.0	11.0	230	154	76	140	2.2	12.0	540	430	63	0.1	0.09	09.96	0.12	0.17	13.8	2.7	0.39	C
	Jul-23	28°C	7.80	107	165	8.2	16.0	145	85	60	125	1.6	8.0	430	350	79	0.07	0.05	13.0	0.11	0.18	1.8	3.7	0.06	B
	Aug-23	29°C	7.50	112	194	7.8	19.0	160	105	55	155	1.8	8.0	350	210	70	0.12	0.19	48.92	0.52	0.20	2.4	3.8	0.08	B
	Sep-23	30°C	7.50	115	193	7.4	21.0	135	90	45	140	2.0	8.0	540	240	79	0.10	0.15	33.38	0.34	0.17	4.5	1.6	0.17	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 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
75	Jan-23	12°C	7.90	170	280	8.6	12.0	234	160	74	180	2.6	16.0	920	540	220	0.10	0.09	13.03	0.19	0.31	9.8	1.9	0.27	C
	Feb-23	19°C	7.60	205	309	8.4	15.0	224	186	38	206	2.8	24.0	1600	920	280	0.08	0.07	16.57	0.17	0.33	7.4	2.6	0.21	C

	Mar-23	21°C	7.40	242	336	8.2	17.0	235	169	66	186	2.7	24.0	>1600	1600	350	0.09	0.06	15.0	0.16	0.34	9.6	2.8	0.27	C
	Apr-23	22°C	7.70	208	304	7.4	17.0	185	159	26	158	2.8	24.0	>1600	1600	430	0.08	0.07	17.0	0.15	0.29	8.7	2.0	0.28	C
	May-23	28°C	7.40	225	328	7.0	15.0	145	120	25	132	3.0	28.0	>1600	>1600	540	0.11	0.08	24.0	0.18	0.26	10.2	3.6	0.36	C
	Jun-23	32°C	7.90	186	263	7.2	13.0	126	104	22	84	2.8	24.0	>1600	>1600	920	0.12	0.14	32.11	0.20	0.28	9.5	5.8	0.37	C
	Jul-23	29°C	7.50	118	183	7.3	12.0	102	78	24	130	2.5	16.0	1600	920	430	0.10	0.06	17.0	0.15	0.22	2.9	7.1	0.12	C
	Aug-23	31°C	7.70	146	218	7.2	14.0	153	129	24	185	2.7	16.0	920	540	120	0.18	0.54	73.96	0.97	0.19	5.5	4.1	0.19	C
	Sep-23	32°C	7.60	119	196	7.0	19.0	145	108	37	160	2.8	20.0	920	350	94	0.14	0.38	48.73	0.53	0.21	10.2	2.7	0.37	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 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
76	Jan-23	12°C	7.60	376	505	7.0	20.0	380	232	148	228	3.8	28.0	350	280	48	0.14	0.12	75.24	0.28	0.40	83.3	5.7	1.85	D
	Feb-23	18°C	7.50	394	593	6.8	45.0	330	274	56	224	5.8	48.0	430	240	49	0.15	0.19	93.71	0.21	0.45	31.8	9.7	0.75	D
	Mar-23	22°C	7.40	464	672	5.8	49.0	318	258	60	206	7.8	56.0	540	430	84	0.14	0.17	86.0	0.18	0.42	28.9	8.5	0.70	D
	Apr-23	21°C	7.60	384	588	5.6	27.0	290	240	50	184	5.8	48.0	920	430	110	0.12	0.13	74.0	0.17	0.36	33.3	5.4	0.85	D
	May-23	28°C	7.40	225	328	7.0	15.0	145	120	25	132	3.0	28.0	>1600	>1600	540	0.11	0.08	24.0	0.18	0.26	10.2	3.6	0.36	C
	Jun-23	32°C	7.90	358	522	6.3	25.0	235	205	30	138	5.0	44.0	920	540	150	0.11	0.12	70.04	0.22	0.31	31.9	6.3	0.90	D
	Jul-23	32°C	7.70	227	334	7.0	20.0	184	152	32	165	3.0	28.0	540	430	120	0.08	0.06	50.0	0.12	0.27	12.9	9.8	0.41	C
	Aug-23	30°C	7.40	213	345	6.2	23.0	212	146	66	225	3.2	28.0	350	220	110	0.28	0.58	120.24	0.58	0.25	20.2	11.2	0.60	D
	Sep-23	30°C	7.60	183	265	6.5	20.0	190	135	55	205	3.0	24.0	430	350	110	0.16	0.32	71.87	0.37	0.29	12.2	5.4	0.38	B

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 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
77	Jan-23	13°C	7.40	281	386	7.2	15.0	360	220	140	246	3.0	16.0	350	280	130	0.15	0.06	27.18	0.23	0.30	9.5	2.5	0.21	B
	Feb-23	15°C	7.60	311	467	6.8	16.0	340	246	94	232	3.0	20.0	430	280	150	0.14	0.07	29.31	0.18	0.31	6.3	2.2	0.14	B
	Mar-23	20°C	7.50	321	482	6.9	13.0	324	228	96	214	2.8	16.0	1600	920	540	0.12	0.05	27.2	0.17	0.32	5.2	1.8	0.12	C
	Apr-23	20°C	7.50	315	469	6.2	21.0	278	245	33	208	2.9	16.0	920	540	280	0.14	0.06	31.0	0.24	0.29	11.5	3.1	0.30	C
	May-23	29°C	7.30	296	428	6.4	18.0	228	190	38	175	2.6	16.0	540	430	220	0.11	0.04	28.0	0.21	0.25	8.4	3.3	0.24	C
	Jun-23	29°C	7.70	306	451	5.2	22.0	254	210	44	130	3.0	20.0	430	430	150	0.14	0.23	34.55	0.14	0.24	10.5	5.4	0.28	B
	Jul-23	30°C	7.40	211	322	5.4	17.0	168	135	33	160	2.8	16.0	540	350	120	0.13	0.05	20.0	0.21	0.18	2.4	4.5	0.08	C
	Aug-23	28°C	7.10	215	412	5.0	13.0	192	154	38	230	3.0	20.0	430	350	94	0.19	0.25	54.54	0.41	0.38	5.4	6.1	0.16	B
	Sep-23	28°C	7.40	213	339	5.2	12.0	163	128	35	220	2.8	20.0	540	350	110	0.15	0.14	43.87	0.35	0.3	7.7	2.5	0.26	C

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 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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78	Jan-23	13°C	7.60	256	338	9.0	9.0	258	160	98	272	2.2	12.0	84	70	38	0.14	0.03	13.48	0.24	0.32	23.4	1.6	0.63	B
	Feb-23	18°C	7.60	155	235	8.1	28.0	290	220	70	284	2.6	12.0	94	79	33	0.15	0.08	50.69	0.19	0.29	6.3	2.4	0.16	B
	Mar-23	21°C	7.40	215	308	8.0	22.0	256	204	52	264	2.4	12.0	110	94	21	0.12	0.06	39.5	0.15	0.28	4.6	2.6	0.12	B
	Apr-23	21°C	7.70	235	358	7.6	25.0	189	105	84	226	2.8	16.0	130	84	17	0.14	0.05	44.0	0.24	0.30	6.9	1.4	0.22	B
	May-23	29°C	7.40	162	236	7.2	22.0	146	95	51	155	2.8	20.0	170	130	14	0.19	0.07	48.0	0.26	0.28	6.1	1.2	0.21	B
	Jun-23	31°C	7.70	215	308	7.4	18.0	150	105	45	82	2.6	18.0	150	150	21	0.17	0.25	46.74	0.31	0.25	13.8	4.0	0.49	B
	Jul-23	31°C	7.40	160	235	7.2	15.0	113	75	38	125	2.6	20.0	170	120	27	0.15	0.18	35.0	0.20	0.19	2.6	4.3	0.11	B
	Aug-23	30°C	7.50	118	176	6.8	19.0	146	110	36	165	2.8	20.0	210	140	33	0.24	0.38	42.97	0.34	0.29	5.0	4.5	0.18	B
	Sep-23	30°C	7.60	111	183	7.0	17.0	138	104	34	155	2.6	16.0	350	240	33	0.20	0.29	37.05	0.3	0.25	5.4	2.8	0.20	B

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

S.No.	Month	Temp	pH	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal 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
79	Jan-23	12°C	7.20	292	399	3.5	24.0	316	180	136	220	16.0	128.0	1600	920	430	0.13	0.05	47.46	0.25	0.28	25.7	4.6	0.62	E
	Feb-23	19°C	7.30	352	529	2.9	15.0	224	160	64	190	25.0	160.0	>1600	920	540	0.16	0.05	15.89	0.20	0.34	20.3	10.3	0.58	E
	Mar-23	22°C	7.10	408	625	3.0	17.0	212	156	56	170	23.0	144.0	>1600	1600	430	0.13	0.05	13.6	0.17	0.26	15.8	8.2	0.47	E
	Apr-23	20°C	7.40	392	597	2.8	43.0	250	195	55	182	24.0	136.0	>1600	1600	350	0.17	0.09	28.0	0.22	0.24	42.4	8.6	1.16	E
	May-23	29°C	7.50	382	564	2.4	52.0	274	220	54	195	28	140.0	1600	920	430	0.13	0.10	20.0	0.18	0.20	5.4	0.9	0.14	E
	Jun-23	33°C	7.20	315	456	2.4	44.0	170	145	25	150	26.0	132.0	920	540	240	0.15	0.13	17.32	0.25	0.21	40.7	8.8	1.35	E
	Jul-23	29°C	7.40	262	396	4.1	33.0	195	158	37	175	12.0	84.0	1600	920	220	0.22	0.12	45.0	0.26	0.31	16.1	5.8	0.50	D
	Aug-23	28°C	7.00	326	420	4.0	28.0	205	174	31	250	14.0	92.0	1600	920	210	0.45	0.87	96.42	0.88	0.81	18.2	7.4	0.55	D
	Sep-23	29°C	6.80	285	408	4.0	30.0	185	145	40	245	15.0	92.0	920	540	170	0.35	0.52	62.2	0.52	0.63	18.9	3.6	0.60	D

River Kailash Downstream behind Sitarganj Industrial Area, US Nagar

	Aug-23	30°C	7.50	118	176	6.8	19.0	146	110	36	165	2.8	20.0	210	140	33	0.24	0.38	42.97	0.34	0.29	5.0	4.5	0.18	B

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 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
80	Jan-23	10°C	7.24	145	210	8.6	21.0	230	122	108	178	1.2	5.0	130	79	12	0.12	0.05	7.66	0.26	0.29	9.1	2.0	0.25	B
	Feb-23	12°C	7.88	171	240	8.4	23.0	228	118	110	196	1.8	6.0	110	94	13	0.23	0.08	58.15	0.19	0.30	17.2	3.0	0.49	B
	Mar-23	14°C	7.18	160	230	8.4	21.0	214	110	104	188	1.4	5.0	120	110	14	0.16	0.05	52.35	0.19	0.25	9.8	2.6	0.29	B
	Apr-23	17°C	7.35	160	240	8.2	25.0	232	120	112	182	1.8	6.0	130	110	14	0.07	0.02	60.36	0.22	0.21	12.9	3.6	0.36	B
	May-23	20°C	7.61	151	230	7.6	27.0	234	128	106	178	2.2	6.0	120	94	11	0.13	0.03	47.43	0.19	0.28	11.8	3.1	0.33	B
	Jun-23	22°C	7.97	154	240	7.8	24.0	250	136	114	174	2.0	7.0	94	84	10	0.13	0.002	22.55	0.21	0.43	11.3	10.8	0.31	B
	Jul-23	19°C	7.24	143	210	8.0	19.0	228	118	110	156	2.4	7.0	120	94	6.8	0.05	0.01	37.39	0.22	0.43	10.4	1.8	0.30	B

	Aug-23	18°C	7.47	129	190	8.2	21.0	216	114	102	164	2.0	6.0	110	79	7.8	0.20	0.06	25.19	0.17	0.24	7.9	2.2	0.23	B	
	Sep-23	17°C	7.13	149	210	8.4	24.0	218	112	106	176	1.8	5.0	120	94	6.8	0.18	0.05	22.43	0.15	0.20	7.2	1.9	0.21	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	
81	Jan-23	11°C	7.84	159	220	8.8	23.0	224	118	106	184	1.4	5.0	130	84	11	0.18	0.04	14.84	0.23	0.22	7.5	2.9	0.21	B	
	Feb-23	13°C	7.23	166	230	8.4	21.0	232	128	104	188	1.6	6.0	94	84	9.3	0.16	0.11	60.05	0.16	0.33	9.2	2.0	0.26	B	
	Mar-23	15°C	7.44	148	220	8.2	25.0	218	116	102	192	1.8	6.0	110	94	10	0.10	0.08	68.26	0.26	0.27	6.8	1.5	0.19	B	
	Apr-23	18°C	7.78	151	230	8.0	24.0	242	136	106	174	2.0	6.0	150	120	13	0.05	0.04	70.25	0.14	0.35	6.6	2.6	0.18	B	
	May-23	20°C	7.15	173	260	7.8	23.0	224	122	102	196	1.6	5.0	110	94	11	0.11	0.06	65.20	0.18	0.30	6.0	2.2	0.17	B	
	Jun-23	22°C	7.52	185	280	7.6	21.0	236	126	110	188	2.2	6.0	94	94	10	0.10	0.001	23.73	0.23	0.41	11.0	10.6	0.31	B	
	Jul-23	20°C	7.33	156	240	8.0	23.0	220	116	104	162	2.0	6.0	110	79	9.8	0.11	0.03	30.20	0.21	0.29	6.6	2.1	0.19	B	
	Aug-23	18°C	7.69	135	190	8.4	25.0	208	110	98	172	1.8	5.0	120	94	8.3	0.10	0.03	26.3	0.26	0.26	3.9	2.6	0.12	B	
	Sep-23	18°C	7.42	153	230	8.4	21.0	232	124	108	186	2.0	6.0	140	110	6.1	0.11	0.04	24.52	0.20	0.18	3.5	2.4	0.09	B	