														River Alaknanda	at Badrinath										
S.No.	Month	Temp	рН	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 Steptococcss (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
1	May-24	08°C	7.72	24	39	11.4	1.0	40	33	07	32	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.01	9.52	0.08	0.11	1.4	1.0	0.10	A
													River Alakna	anda B/C River Dh	auli Ganga at Vishn	uprayag									
S.No.	Month	Temp	рН	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 Steptococcss (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-24	08°C	7.45	28	43	12.0	2.0	30	22	08	27	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	10.63	0.07	0.10	1.3	1.0	0.10	A
<u> </u>	Feb-24	07°C	7.62	33	51	11.8	3.0	36	26	10	31	1.0	4.0	<1.8	<1.8	<1.8	0.01	0.01	12.20	0.09	0.13	1.6	1.2	0.12	A
<u> </u>	Mar-24 Apr-24	07°C 14°C	7.50 7.58	30 27	47	11.6 11.4	4.0 3.0	34 29	22 19	12 10	32 28	1.0	4.0	<1.8 <1.8	<1.8 <1.8	<1.8 <1.8	0.04	0.01	13.40 12.32	0.08	0.12	1.9 1.6	1.4	0.14	A
⊢	May-24	11°C	7.69	38	59	11.4	4.0	47	37	10	40	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	11.62	0.07	0.10	1.0	1.3	0.13	A A
\vdash	Jun-24	14°C	7.64	35	55	11.2	4.0	43	35	08	42	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.02	10.59	0.06	0.09	1.8	1.2	0.12	A
	Jul-24	15°C	7.88	40	62	11.0	5.0	50	38	12	45	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.03	10.36	0.08	0.09	2.0	1.5	0.12	A
													River Dhaul	i Ganga B/C River /	Alaknanda at Vishn	uprayag									
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
3	Jan-24	08°C	7.88	75	115	11.4	4.0	82	58	24	79	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.01	13.25	0.09	0.09	1.8	1.5	0.09	A
	Feb-24	06°C	8.07	84	128	11.2	5.0	89	61	28	87	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.02	11.42	0.11	0.07	2.2	1.8	0.10	A
	Mar-24	06°C	7.93	93	143	11.0	6.0	99	67	32	95	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.03	12.33	0.09	0.09	2.4	2.1	0.10	A
	Apr-24	13°C	7.80	80	122	11.0	5.0	85	57	28	82	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	11.25	0.06	0.07	2.1	1.9	0.10	A
	May-24	09°C	7.98	98	149	10.8	6.0	106	82	24	96	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.01	11.68	0.08	0.11	2.6	2.1	0.11	A
	Jun-24	15°C	7.95	96	147	11.0	6.0	104	80	24	90	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.02	10.87	0.07	0.10	2.8	2.0	0.12	A
	Jul-24	14°C	8.09	101	153	10.8	7.0	109	83	26	95	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.05	0.02	10.95	0.09	0.11	3.1	2.5	0.13	A
	•	•						•				•	River Alakn	anda A/C River Dha	auli Ganga at Vishn	uprayag	•	•		•		•	•		
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
4	Jan-24	07°C	7.70	58	88	11.8	3.0	67	48	19	60	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	12.82	0.11	0.11	1.4	1.3	0.07	A
	Feb-24	06°C	7.89	63	95	11.6	4.0	70	50	20	65	1.0	4.0	<1.8	<1.8	<1.8	0.02	0.01	11.69	0.07	0.09	1.7	1.5	0.09	A
	Mar-24	07°C	7.77	70	107	11.4	5.0	75	52	23	69	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.02	10.94	0.09	0.11	2.0	1.7	0.10	A
	Apr-24	13°C	7.66	59	91	11.2	5.0	62	44	18	60	1.0	4.0	<1.8	<1.8	<1.8	0.02	0.01	9.79	0.05	0.07	1.8	1.4	0.10	A
	May-24	10°C	7.80	73	110	11.0	5.0	79	59	20	75	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.03	10.41	0.06	0.09	2.1	1.6	0.10	A
	Jun-24	15°C	7.77	92	139	11.0	5.0	72	52	20	78	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.02	11.24	0.06	0.10	2.0	1.8	0.10	A
	Jul-24	15°C	7.92	98	150	10.8	6.0	80	56	24	84	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.04	0.03	11.02	0.07	0.09	2.4	2.2	0.12	A
													River Ala	knanda B/C River N	Nandakini at Nandp	rayag									
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
5	Jan-24	09°C	7.91	72	110	11.4	3.0	73	51	22	68	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.03	10.31	0.12	0.13	1.7	1.4	0.09	A
	Feb-24	08°C	8.02	78	119	11.2	4.0	81	57	24	72	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.02	11.63	0.08	0.16	2.0	1.7	0.10	A
	Mar-24	08°C	7.95	90	138	11.0	5.0	92	65	27	82	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	13.41	0.09	0.14	2.4	2.0	0.11	A
	Apr-24	16°C	7.82	82	124	10.8	6.0	86	62	24	77	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.03	11.46	0.08	0.06	2.2	1.7	0.10	A

	May-24	17°C	7.95	92	140	10.6	6.0	96	71	25	87	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	10.57	0.09	0.12	2.6	1.9	0.12	A
	Jun-24	17°C	7.90	90	137	10.8	6.0	94	69	25	84	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	11.97	0.09	0.10	2.7	1.7	0.12	A
	Jul-24	12°C	7.97	95	145	10.6	7.0	98	71	27	90	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.04	0.02	10.25	0.08	0.12	3.0	2.3	0.13	A
													River Nar	ndakini B/C River A	laknanda at Nandp	rayag	•								
S.No.	Month	Temp	pН	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 Steptococcss (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/I)	SAR	Designated Best use (DBU) Water Quality Criteria
6	Jan-24	10°C	8.03	48	73	11.0	2.0	54	44	10	51	1.0	4.0	26	22	<1.8	0.04	0.02	10.20	0.09	0.09	1.8	1.6	0.11	A
	Feb-24	09°C	7.94	53	81	10.8	3.0	56	42	14	54	1.0	4.0	34	27	<1.8	0.03	0.01	11.30	0.07	0.10	2.1	1.8	0.12	A
	Mar-24	09°C	7.81	48	73	10.6	4.0	52	40	12	50	1.0	4.0	22	17	<1.8	0.05	0.02	12.43	0.14	0.11	2.3	1.9	0.14	A
	Apr-24	17°C	7.69	51	78	10.4	5.0	56	46	10	53	1.0	4.0	32	26	<1.8	0.03	0.03	11.64	0.09	0.08	2.1	1.8	0.12	A
	May-24	14°C	7.52	59	90	10.6	4.0	63	55	08	60	1.0	4.0	21	17	<1.8	0.04	0.01	10.96	0.11	0.11	2.4	2.0	0.13	A
	Jun-24	16°C	7.54	57	87	10.8	4.0	60	50	10	55	1.0	4.0	26	17	<1.8	0.03	0.01	11.87	0.10	0.10	2.8	2.0	0.16	A
	Jul-24	13°C	7.66	61	94	10.4	5.0	65	52	13	59	BDL (<1)	BDL (<5)	38	17	<1.8	0.05	0.02	10.55	0.12	0.11	3.1	2.4	0.17	A
													River Alal	knanda A/C River N	Nandakini at Nandp	rayag									
S.No.	Month	Temp	рН	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 Steptococcss (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/I)	SAR	Designated Best use (DBU) Water Quality Criteria
7	Jan-24	09°C	7.99	63	97	11.2	3.0	70	53	17	66	1.0	4.0	<1.8	<1.8	<1.8	0.02	0.01	11.73	0.10	0.14	1.6	1.3	0.08	A
	Feb-24	08°C	8.10	69	105	11.0	4.0	74	55	19	70	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.02	12.85	0.07	0.09	1.9	1.6	0.10	A
	Mar-24	08°C	7.90	80	123	10.8	4.0	83	62	21	76	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	14.61	0.12	0.08	2.2	1.9	0.10	A
	Apr-24	16°C	7.73	72	110	10.6	5.0	76	57	19	70	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.01	12.96	0.09	0.09	2.1	1.7	0.10	A
	May-24	16°C	7.79	81	124	10.4	6.0	85	64	21	78	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.03	10.99	0.07	0.08	2.7	2.1	0.13	A
	Jun-24	16°C	7.81	78	118	10.6	5.0	83	62	21	76	1.0	4.0	<1.8	<1.8	<1.8	0.07	0.02	11.78	0.07	0.06	2.5	2.0	0.12	A
	Jul-24	13°C	7.71	84	129	10.6	6.0	88	65	23	80	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.04	10.3	0.09	0.08	2.8	2.2	0.13	A
													River Al	aknanda B/C River	Pindar at Karanpra	iyag									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/I)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (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/I)	SAR	Designated Best use (DBU) Water Quality Criteria
8	Jan-24	10°C	8.06	70	106	11.0	3.0	78	62	16	72	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	12.48	0.09	0.10	1.3	1.1	0.06	A
	Feb-24	08°C	8.19	79	120	10.8	3.0	83	66	17	81	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.02	13.41	0.06	0.13	1.7	1.3	0.08	A
	Mar-24	08°C	7.79	98	149	10.6	4.0	99	79	20	90	1.0	4.0	<1.8	<1.8	<1.8	0.02	0.01	15.24	0.13	0.12	2.0	1.7	0.09	A
	Apr-24	12°C	7.60	86	131	10.6	4.0	88	71	17	80	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.02	13.66	0.10	0.10	2.2	1.9	0.10	A
<u> </u>	May-24	19°C	7.68	97	147	10.4	5.0	99	76	23	89	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.02	12.05	0.08	0.13	2.9	2.3	0.13	A
<u> </u>	Jun-24	14°C	7.67	96	146	10.4	6.0	97	74	23	87	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.01	11.68	0.07	0.13	2.8	2.2	0.12	A
	Jul-24	14°C	7.8	99	151	10.4	6.0	101	76	25	92	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.03	11.53	0.09	0.13	3.0	2.5	0.13	A
	, ,												River Pi	ndar B/C River Ala	knanda at Karanpra	ıyag							,		
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/I)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (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/I)	SAR	Designated Best use (DBU) Water Quality Criteria
9	Jan-24	11°C	8.18	79	120	10.4	3.0	95	71	24	86	1.0	4.0	27	22	<1.8	0.06	0.04	11.98	0.07	0.09	2.0	1.8	0.09	A
	Feb-24	09°C	8.04	85	129	10.2	4.0	97	75	22	90	1.0	4.0	22	17	<1.8	0.05	0.02	12.42	0.12	0.12	2.4	2.0	0.11	A
	Mar-24	09°C	7.87	95	145	9.8	6.0	102	77	25	97	1.0	4.0	26	22	<1.8	0.03	0.01	13.68	0.12	0.14	2.8	2.3	0.12	Α

	Apr-24	13°C	7.75	80	122	10.0	5.0	85	65	20	83	1.0	4.0	39	27	<1.8	0.05	0.02	11.69	0.08	0.09	2.5	2.1	0.12	A
	May-24	18°C	7.91	94	142	9.8	6.0	98	73	25	96	1.0	4.0	32	26	<1.8	0.09	0.04	11.20	0.12	0.12	3.0	2.5	0.13	A
	Jun-24	15°C	7.94	92	140	9.6	6.0	96	77	19	99	1.0	4.0	26	22	<1.8	0.08	0.03	12.69	0.10	0.10	3.3	2.4	0.15	A
	Jul-24	15°C	7.99	103	157	9.4	7.0	106	83	23	103	BDL (<1)	BDL (<5)	40	22	<1.8	0.08	0.05	11.00	0.13	0.12	3.7	2.8	0.16	A
													River Al	aknanda A/C River	Pindar at Karanpra	yag									
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
10	Jan-24	10°C	8.10	75	115	11.0	2.0	88	69	19	81	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.02	10.82	0.09	0.08	1.7	1.4	0.08	A
	Feb-24	08°C	8.16	81	123	10.8	3.0	92	71	21	88	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.03	11.48	0.09	0.11	2.0	1.6	0.09	A
	Mar-24	08°C	7.85	92	140	10.4	5.0	98	75	23	95	1.0	4.0	<1.8	<1.8	<1.8	0.02	0.01	12.53	0.11	0.13	2.4	1.9	0.11	A
	Apr-24	12°C	7.69	82	125	10.4	4.0	87	68	19	85	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	11.70	0.09	0.10	2.3	1.7	0.11	A
	May-24	18°C	7.83	99	151	10.2	5.0	105	81	24	102	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	10.78	0.11	0.08	2.8	2.1	0.12	A
	Jun-24	16°C	7.80	96	148	10.0	5.0	107	84	23	104	1.0	4.0	<1.8	<1.8	<1.8	0.02	0.01	12.18	0.10	0.07	2.9	2.3	0.12	A
	Jul-24	15°C	7.88	98	148	10.0	6.0	110	82	28	107	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.05	0.02	10.05	0.13	0.08	3.2	2.5	0.13	A
			_			_								River Mandakini	at Kedarnath										
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
11	May-24	14°C	7.83	18	30	11.6	1.0	22	17	05	20	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	6.52	0.07	0.11	1.3	1.0	0.12	A
													River Mar	dakini B/C River A	aknanda at Rudrap	rayag									
S.No.	Month	Temp	рН	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 Steptococcss (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-24	07°C	7.68	51	78	11.2	3.0	61	48	13	57	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.02	18.63	0.14	0.19	2.6	2.2	0.14	A
	Feb-24	08°C	7.75	60	92	11.0	3.0	67	52	15	61	1.0	4.0	<1.8	<1.8	<1.8	0.13	0.04	19.52	0.13	0.12	2.8	2.4	0.15	A
	Mar-24	13°C	7.83	46	71	10.8	5.0	51	38	13	48	1.0	4.0	<1.8	<1.8	<1.8	0.11	0.03	18.39	0.10	0.09	3.0	2.7	0.18	A
	Apr-24	12°C	7.52	50	77	10.6	5.0	54	42	12	52	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.04	17.46	0.13	0.10	2.7	2.5	0.16	A
	May-24	19°C	7.73	59	90	10.4	6.0	61	48	13	57	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.03	10.82	0.11	0.12	2.9	2.6	0.16	A
	Jun-24	18°C	7.79	54	82	10.6	6.0	64	45	19	59	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.04	12.16	0.10	0.12	2.8	2.4	0.15	A
	Jul-24	13°C	7.56	55	80	10.1	5.0	69	47	22	55	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.04	10.55	0.10	0.14	2.4	2.6	0.12	Α
													River Alak	nanda B/C River N	andakini at Rudrap	rayag									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/I)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
13	Jan-24	08°C	8.04	86	129	10.8	3.0	96	75	21	88	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.01	17.28	0.12	0.17	2.0	1.6	0.09	A
	Feb-24	09°C	7.91	98	149	10.8	4.0	104	79	25	99	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.04	20.41	0.11	0.11	2.3	2.0	0.10	A
	Mar-24	12°C	7.73	85	130	10.6	4.0	91	70	21	88	1.0	4.0	<1.8	<1.8	<1.8	0.13	0.05	19.49	0.11	0.10	2.6	2.2	0.12	A
	Apr-24	13°C	7.59	89	135	10.4	5.0	93	75	18	91	1.0	4.0	<1.8	<1.8	<1.8	0.11	0.03	18.42	0.09	0.10	2.8	2.0	0.13	A
	May-24	19°C	7.90	113	172	10.2	6.0	116	89	27	114	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.01	14.18	0.13	0.13	3.2	2.4	0.13	A
	Jun-24	19°C	7.88	110	167	10.0	6.0	119	87	32	108	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.02	13.92	0.13	0.12	3.4	2.7	0.14	A
	Jul-24	14°C	7.62	115	168	9.9	6.0	128	89	39	110	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.02	14.02	0.09	0.12	2.2	2.8	0.11	A
													River Alak	nanda A/C River N	landakini at Rudrap	orayag									

S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
14	Jan-24	07°C	7.93	72	110	11.0	3.0	87	69	18	79	1.0	4.0	<1.8	<1.8	<1.8	0.11	0.02	20.43	0.13	0.20	2.2	2.0	0.10	A
	Feb-24	08°C	7.80	85	130	10.8	4.0	95	72	23	89	1.0	4.0	<1.8	<1.8	<1.8	0.12	0.03	21.96	0.12	0.13	2.6	2.3	0.12	A
	Mar-24	12°C	7.61	80	123	10.6	5.0	86	66	20	77	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.03	19.85	0.08	0.11	2.9	2.5	0.14	A
	Apr-24	13°C	7.56	76	116	10.6	4.0	80	64	16	74	1.0	4.0	<1.8	<1.8	<1.8	0.12	0.02	18.77	0.10	0.09	3.0	2.3	0.15	A
	May-24	18°C	7.82	95	145	10.4	5.0	98	76	22	92	1.0	4.0	<1.8	<1.8	<1.8	0.12	0.04	13.55	0.09	0.11	3.3	2.5	0.14	A
	Jun-24	18°C	7.81	97	148	10.2	5.0	100	80	20	96	1.0	4.0	<1.8	<1.8	<1.8	0.13	0.05	14.97	0.10	0.11	3.8	2.9	0.16	A
	Jul-24	13°C	7.59	101	158	10.0	5.0	104	82	22	98	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.10	0.02	12.96	0.10	0.09	2.7	2.9	0.12	A
													River M	andakini D/S at A	gustmuni, Rudrapra	yag									
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
15	Jan-24	07°C	7.54	40	61	11.6	2.0	55	40	15	48	1.0	4.0	<1.8	<1.8	<1.8	0.12	0.04	18.93	0.16	0.15	2.1	1.9	0.12	A
	Feb-24	07°C	7.66	47	72	11.4	3.0	59	42	17	52	1.0	4.0	<1.8	<1.8	<1.8	0.10	0.06	22.43	0.09	0.10	2.4	2.1	0.14	A
$ldsymbol{le}}}}}}$	Mar-24	14°C	7.70	35	54	11.0	4.0	44	30	14	40	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.03	20.39	0.06	0.08	2.7	2.3	0.18	A
	Apr-24	14°C	7.44	40	61	10.8	5.0	46	33	13	43	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.01	19.74	0.09	0.11	2.2	1.9	0.14	A
	May-24	19°C	7.63	48	73	10.6	5.0	52	41	11	50	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.03	16.70	0.11	0.12	2.6	2.2	0.16	A
	Jun-24	19°C	7.70	32	50	10.6	5.0	56	47	09	54	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.03	18.97	0.11	0.10	2.4	1.3	0.14	A
	Jul-24	13°C	7.68	57	88	10.3	5.0	59	45	14	52	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.04	15.52	0.12	0.10	1.9	2.4	0.14	A
														River Bhagirathi L	I/C at Canaatsi										
	_													Kiver Bilagiratili t	7/3 at Gangotri										
S.No.	Month	Temp	рН	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 Steptococcss (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
S.No. 16	Month May-24	Temp 10°C	р н 8.11	TDS (mg/l)	EC (μS/cm)	DO (mg/I)		Hardness (mg/l)				BOD (mg/l)	COD (mg/l) 4.0				Nitrate-N (mg/I)	Nitrite-N (mg/l)		Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	sar 0.13	Designated Best use (DBU) Water Quality
-							(mg/l) 2.0		(mg/I) 38	(mg/l) 09	(mg/l) 39			TC (MPN/100 ml)	FC (MPN/100 ml) <1.8	(MPN/100 ml) <1.8			(mg/l) 7.25						(DBU) Water Quality
-				44 TDS (mg/l)			(mg/l)		(mg/l) 38 Calcium (mg/l)	(mg/l)	(mg/l) 39 Alkalinity (mg/l)			TC (MPN/100 ml) <1.8	FC (MPN/100 ml) <1.8	(MPN/100 ml)			(mg/l)						(DBU) Water Quality
16	May-24	10°C	8.11	44	67	11.2	(mg/l) 2.0	47	(mg/l) 38	(mg/l) ()9 Magnesium	(mg/l) 39	1.0	4.0	TC (MPN/100 ml) <1.8 River Yamuna U/	FC (MPN/100 ml) <1.8 S at Yamunotri	(MPN/100 ml) <1.8 Fecal Steptococcss	0.04	0.01	(mg/l) 7.25 Sulphate	0.08	0.09	2.0	1.7	0.13	(DBU) Water Quality A Designated Best use
16 S.No.	May-24	10°C	8.11	44 TDS (mg/l)	67 EC (μS/cm)	11.2 DO (mg/l)	(mg/l) 2.0 Chloride (mg/l)	47 Hardness (mg/l)	(mg/l) 38 Calcium (mg/l)	(mg/l) ()9 Magnesium (mg/l)	(mg/l) 39 Alkalinity (mg/l)	1.0 BOD (mg/l)	4.0 COD (mg/l) 4.0	TC (MPN/100 ml) <1.8 River Yamuna U/ TC (MPN/100 ml) <1.8	FC (MPN/100 ml) <1.8 S at Yamunotri FC (MPN/100 ml)	(MPN/100 ml) <1.8 Fecal Steptococcss (MPN/100 ml) <1.8	0.04 Nitrate-N (mg/l)	0.01 Nitrite-N (mg/I)	(mg/l) 7.25 Sulphate (mg/l)	0.08 Phosphate (mg/I)	0.09 Fluoride (mg/l)	2.0 Sodium (mg/l)	1.7 Potassium (mg/l)	0.13	A Designated Best use (DBU) Water Quality A
16 S.No.	May-24	10°C	8.11	44 TDS (mg/l)	67 EC (μs/cm) 33	11.2 DO (mg/l)	(mg/l) 2.0 Chloride (mg/l)	47 Hardness (mg/l)	(mg/l) 38 Calcium (mg/l)	(mg/l) ()9 Magnesium (mg/l)	(mg/l) 39 Alkalinity (mg/l)	1.0 BOD (mg/l)	4.0 COD (mg/l) 4.0	TC (MPN/100 ml) <1.8 River Yamuna U/ TC (MPN/100 ml) <1.8	FC (MPN/100 ml) <1.8 S at Yamunotri FC (MPN/100 ml) <1.8	(MPN/100 ml) <1.8 Fecal Steptococcss (MPN/100 ml) <1.8	0.04 Nitrate-N (mg/l)	0.01 Nitrite-N (mg/I)	(mg/l) 7.25 Sulphate (mg/l)	0.08 Phosphate (mg/I)	0.09 Fluoride (mg/l)	2.0 Sodium (mg/l)	1.7 Potassium (mg/l)	0.13	(DBU) Water Quality A Designated Best use (DBU) Water Quality
16 S.No. 17	May-24	10°C Temp 14°C	8.11 рн 7.69	TDS (mg/l) 20	67 EC (μs/cm) 33	DO (mg/l) 11.4	(mg/l) 2.0 Chloride (mg/l) 2.0 Chloride	47 Hardness (mg/l) 26	(mg/l) 38 Calcium (mg/l) 21	(mg/l) 09 Magnesium (mg/l) 05	(mg/l) 39 Alkalinity (mg/l) 22	1.0 BOD (mg/l) 1.0	4.0 COD (mg/l) 4.0 River Yami	TC (MPN/100 ml) <1.8 River Yamuna U/ TC (MPN/100 ml) <1.8 una D/S at Sayana	FC (MPN/100 ml) <1.8 S at Yamunotri FC (MPN/100 ml) <1.8 -Chatti ,Uttarkashi l	(MPN/100 ml) <1.8 Fecal Steptococcss (MPN/100 ml) <1.8 District Fecal Steptococcss	0.04 Nitrate-N (mg/l) 0.05	0.01 Nitrite-N (mg/l) 0.01	(mg/l) 7.25 Sulphate (mg/l) 9.11 Sulphate	0.08 Phosphate (mg/l) 0.09	0.09 Fluoride (mg/l) 0.06	2.0 Sodium (mg/l)	1.7 Potassium (mg/l) 1.2	0.13 SAR 0.14	A Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality
16 S.No. 17	Month May-24 Month Month	10°C Temp 14°C	8.11 рн 7.69	TDS (mg/l) 20 TDS (mg/l)	67 EC (μs/cm) 33 EC (μs/cm)	DO (mg/l) 11.4 DO (mg/l)	Chloride (mg/l) 2.0 Chloride (mg/l)	47 Hardness (mg/l) 26 Hardness (mg/l)	Calcium (mg/l) 21 Calcium (mg/l)	(mg/l) 09 Magnesium (mg/l) 05	Alkalinity (mg/l) 22 Alkalinity (mg/l)	1.0 BOD (mg/l) 1.0 BOD (mg/l)	4.0 COD (mg/l) 4.0 River Yamn COD (mg/l) 4.0	TC (MPN/100 ml) <1.8 River Yamuna U/ TC (MPN/100 ml) <1.8 LINA D/S at Sayana TC (MPN/100 ml) <1.8	FC (MPN/100 ml) <1.8 S at Yamunotri FC (MPN/100 ml) <1.8 Chatti ,Uttarkashi l FC (MPN/100 ml)	(MPN/100 ml) <1.8 Fecal Steptococcss (MPN/100 ml) <1.8 District Fecal Steptococcss (MPN/100 ml) <1.8	0.04 Nitrate-N (mg/l) 0.05 Nitrate-N (mg/l)	0.01 Nitrite-N (mg/l) 0.01 Nitrite-N (mg/l)	Sulphate (mg/l) 9.11 Sulphate (mg/l)	0.08 Phosphate (mg/l) 0.09 Phosphate (mg/l)	0.09 Fluoride (mg/l) 0.06 Fluoride (mg/l)	2.0 Sodium (mg/l) 1.6 Sodium (mg/l)	1.7 Potassium (mg/l) 1.2 Potassium (mg/l)	0.13 SAR 0.14	A Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality Criteria
16 S.No. 17	Month May-24 Month Month	10°C Temp 14°C	8.11 рн 7.69	TDS (mg/l) 20 TDS (mg/l)	EC (μ5/cm) 33 EC (μ5/cm) 61	DO (mg/l) 11.4 DO (mg/l)	Chloride (mg/l) 2.0 Chloride (mg/l)	47 Hardness (mg/l) 26 Hardness (mg/l)	Calcium (mg/l) 21 Calcium (mg/l)	(mg/l) 09 Magnesium (mg/l) 05	Alkalinity (mg/l) 22 Alkalinity (mg/l)	1.0 BOD (mg/l) 1.0 BOD (mg/l)	4.0 COD (mg/l) 4.0 River Yamn COD (mg/l) 4.0	TC (MPN/100 ml) <1.8 River Yamuna U/ TC (MPN/100 ml) <1.8 LINA D/S at Sayana TC (MPN/100 ml) <1.8	FC (MPN/100 ml) <1.8 S at Yamunotri FC (MPN/100 ml) <1.8 -Chatti ,Uttarkashi I FC (MPN/100 ml) <1.8	(MPN/100 ml) <1.8 Fecal Steptococcss (MPN/100 ml) <1.8 District Fecal Steptococcss (MPN/100 ml) <1.8	0.04 Nitrate-N (mg/l) 0.05 Nitrate-N (mg/l)	0.01 Nitrite-N (mg/l) 0.01 Nitrite-N (mg/l)	Sulphate (mg/l) 9.11 Sulphate (mg/l)	0.08 Phosphate (mg/l) 0.09 Phosphate (mg/l)	0.09 Fluoride (mg/l) 0.06 Fluoride (mg/l)	2.0 Sodium (mg/l) 1.6 Sodium (mg/l)	1.7 Potassium (mg/l) 1.2 Potassium (mg/l)	0.13 SAR 0.14	Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality Criteria
16 S.No. 17 S.No.	Month May-24 Month May-24	10°C Temp 14°C Temp 15°C	8.11 7.69 рн 7.55	TDS (mg/l) 20 TDS (mg/l) 39	EC (μ5/cm) 33 EC (μ5/cm) 61	DO (mg/l) 11.4 DO (mg/l) 11.0	(mg/l) 2.0 Chloride (mg/l) 2.0 Chloride (mg/l) 3.0	47 Hardness (mg/l) 26 Hardness (mg/l) 41	(mg/l) 38 Calcium (mg/l) 21 Calcium (mg/l) 33	(mg/l) 09 Magnesium (mg/l) 05 Magnesium (mg/l) 08	(mg/l) 39 Alkalinity (mg/l) 22 Alkalinity (mg/l) 35	1.0 BOD (mg/l) 1.0 BOD (mg/l) 1.0	4.0 COD (mg/l) 4.0 River Yamn COD (mg/l) 4.0 River Bhag	TC (MPN/100 ml) <1.8 River Yamuna U/ TC (MPN/100 ml) <1.8 una D/S at Sayana TC (MPN/100 ml) <1.8 girathi D/S at Utta	FC (MPN/100 ml) <1.8 5 at Yamunotri FC (MPN/100 ml) <1.8 -Chatti ,Uttarkashi I FC (MPN/100 ml) <1.8 rkashi, Uttarkasi E	(MPN/100 ml)	0.04 Nitrate-N (mg/l) 0.05 Nitrate-N (mg/l) 0.06	0.01 Nitrite-N (mg/l) 0.01 Nitrite-N (mg/l) 0.01	Sulphate (mg/l) 9.11 Sulphate (mg/l) 8.11	0.08 Phosphate (mg/l) 0.09 Phosphate (mg/l) 0.07	0.09 Fluoride (mg/l) 0.06 Fluoride (mg/l) 0.09	2.0 Sodium (mg/l) 1.6 Sodium (mg/l) 2.1	Potassium (mg/l) 1.2 Potassium (mg/l) 1.6	0.13 SAR 0.14 SAR 0.14	Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality Criteria A Designated Best use (DBU) Water Quality
16 S.No. 17 S.No.	Month May-24 Month May-24 Month May-24	10°C Temp 14°C Temp 15°C	8.11 рн 7.69 рн 7.55	TDS (mg/l) 20 TDS (mg/l) 39 TDS (mg/l)	67 EC (μ\$/cm) 33 EC (μ\$/cm) 61 EC (μ\$/cm)	DO (mg/l) 11.0 DO (mg/l) DO (mg/l)	Chloride (mg/l) 2.0 Chloride (mg/l) 2.0 Chloride (mg/l) 3.0	Hardness (mg/l) 26 Hardness (mg/l) 41 Hardness (mg/l)	(mg/l) 38 Caldum (mg/l) 21 Caldum (mg/l) 33	(mg/l) 09 Magnesium (mg/l) 05 Magnesium (mg/l) 08	(mg/l) 39 Alkalinity (mg/l) 22 Alkalinity (mg/l) 35	1.0 BOD (mg/l) 1.0 BOD (mg/l) 1.0	4.0 COD (mg/l) 4.0 River Yami COD (mg/l) 4.0 River Bhag COD (mg/l)	TC (MPN/100 ml) <1.8 River Yamuna U/ TC (MPN/100 ml) <1.8 una D/S at Sayana TC (MPN/100 ml) <1.8 girathi D/S at Utta TC (MPN/100 ml)	FC (MPN/100 ml) <1.8 S at Yamunotri FC (MPN/100 ml) <1.8 -Chatti ,Uttarkashi I FC (MPN/100 ml) <1.8 rkashi, Uttarkasi E FC (MPN/100 ml)	(MPN/100 ml)	0.04 Nitrate-N (mg/l) 0.05 Nitrate-N (mg/l) 0.06	0.01 Nitrite-N (mg/l) 0.01 Nitrite-N (mg/l) 0.01	Sulphate (mg/l) 9.11 Sulphate (mg/l) 8.11	Phosphate (mg/l) O.09 Phosphate (mg/l) O.07 Phosphate (mg/l)	0.09 Fluoride (mg/l) 0.06 Fluoride (mg/l) 0.09	2.0 Sodium (mg/l) 1.6 Sodium (mg/l) 2.1	Potassium (mg/l) 1.2 Potassium (mg/l) 1.6	0.13 SAR 0.14 SAR 0.14	Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality Criteria A Designated Best use (DBU) Water Quality Criteria
16 S.No. 17 S.No.	Month May-24 Month May-24 Month Jan-24	10°C Temp 14°C Temp 15°C	я.11 рн 7.69 рн 7.55	TDS (mg/l) 20 TDS (mg/l) 39 TDS (mg/l) 59	67 EC (μ5/cm) 33 EC (μ5/cm) 61 EC (μ5/cm)	DO (mg/l) 11.0 DO (mg/l) 11.0	Chloride (mg/l) 2.0 Chloride (mg/l) 3.0 Chloride (mg/l) 3.0	Hardness (mg/l) 26 Hardness (mg/l) 41 Hardness (mg/l) 63	Calcium (mg/l) 21 Calcium (mg/l) 33 Calcium (mg/l) 48	(mg/l) 09 Magnesium (mg/l) 05 Magnesium (mg/l) 08	(mg/l) 39 Alkalinity (mg/l) 22 Alkalinity (mg/l) 35 Alkalinity (mg/l) 57	1.0 BOD (mg/l) 1.0 BOD (mg/l) 1.0	4.0 COD (mg/l) 4.0 River Yamn COD (mg/l) 4.0 River Bhag COD (mg/l) 4.0	TC (MPN/100 ml) <1.8 River Yamuna U/ TC (MPN/100 ml) <1.8 Juna D/S at Sayana TC (MPN/100 ml) <1.8 Sirathi D/S at Utta TC (MPN/100 ml) 47	FC (MPN/100 ml) <1.8 5 at Yamunotri FC (MPN/100 ml) <1.8 -Chatti ,Uttarkashi I FC (MPN/100 ml) <1.8 rkashi, Uttarkasi E FC (MPN/100 ml) 39	(MPN/100 ml)	0.04 Nitrate-N (mg/l) 0.05 Nitrate-N (mg/l) 0.06 Nitrate-N (mg/l) 0.08	0.01 Nitrite-N (mg/l) 0.01 Nitrite-N (mg/l) 0.01 Nitrite-N (mg/l) 0.03	Sulphate (mg/l) 9.11 Sulphate (mg/l) 8.11 Sulphate (mg/l) 20.11	Phosphate (mg/l) 0.09 Phosphate (mg/l) 0.07 Phosphate (mg/l) 0.15	0.09 Fluoride (mg/l) 0.06 Fluoride (mg/l) 0.09 Fluoride (mg/l) 0.20	2.0 Sodium (mg/l) 1.6 Sodium (mg/l) 2.1 Sodium (mg/l)	Potassium (mg/l) 1.2 Potassium (mg/l) 1.6 Potassium (mg/l) 2.3	0.13 SAR 0.14 SAR 0.14	Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality Criteria A Designated Best use (DBU) Water Quality Criteria A
16 S.No. 17 S.No.	Month May-24 Month May-24 Month Jan-24 Feb-24	10°C Temp 14°C Temp 15°C Temp 15°C	рн 7.69 рн 7.55	TDS (mg/l) 20 TDS (mg/l) 39 TDS (mg/l) 59 66	EC (μ5/cm) 33 EC (μ5/cm) 61 EC (μ5/cm) 91 99	DO (mg/l) 11.4 DO (mg/l) 11.0 DO (mg/l) 10.8	Chloride (mg/l) 2.0 Chloride (mg/l) 3.0 Chloride (mg/l) 3.0 Chloride (mg/l) 3.0	Hardness (mg/l) 26 Hardness (mg/l) 41 Hardness (mg/l) 63 72	(mg/l) 38 Calcium (mg/l) 21 Calcium (mg/l) 33 Calcium (mg/l) 48	(mg/l) 09 Magnesium (mg/l) 05 Magnesium (mg/l) 08 Magnesium (mg/l) 18	Alkalinity (mg/l) 39 Alkalinity (mg/l) 22 Alkalinity (mg/l) 35	1.0 BOD (mg/l) 1.0 BOD (mg/l) 1.0 1.0	4.0 COD (mg/l) 4.0 River Yami COD (mg/l) 4.0 River Bhag COD (mg/l) 4.0 4.0	TC (MPN/100 ml) <1.8 River Yamuna U/ TC (MPN/100 ml) <1.8 LINA D/S at Sayana TC (MPN/100 ml) <1.8 Girathi D/S at Utta TC (MPN/100 ml) 47 48	FC (MPN/100 ml) <1.8 S at Yamunotri FC (MPN/100 ml) <1.8 -Chatti ,Uttarkashi I FC (MPN/100 ml) <1.8 rkashi, Uttarkasi E FC (MPN/100 ml) 39 40	(MPN/100 ml)	0.04 Nitrate-N (mg/l) 0.05 Nitrate-N (mg/l) 0.06 Nitrate-N (mg/l) 0.08 0.11	0.01 Nitrite-N (mg/l) 0.01 Nitrite-N (mg/l) 0.01 Nitrite-N (mg/l) 0.03 0.02	(mg/l) 7.25 Sulphate (mg/l) 9.11 Sulphate (mg/l) 8.11 Sulphate (mg/l) 20.11 21.52	0.08 Phosphate (mg/l) 0.09 Phosphate (mg/l) 0.07 Phosphate (mg/l) 0.15 0.13	0.09 Fluoride (mg/l) 0.06 Fluoride (mg/l) 0.09 Fluoride (mg/l) 0.20 0.17	2.0 Sodium (mg/l) 1.6 Sodium (mg/l) 2.1 Sodium (mg/l) 2.8 3.3	Potassium (mg/l) 1.2 Potassium (mg/l) 1.6 Potassium (mg/l) 2.3 2.7	0.13 SAR 0.14 SAR 0.14 SAR 0.17	Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality Criteria A Designated Best use (DBU) Water Quality Criteria A A
16 S.No. 17 S.No.	Month May-24 Month May-24 Month Jan-24 Feb-24 Mar-24	10°C Temp 14°C Temp 15°C Temp 16°C 12°C 14°C	рн 7.69 рн 7.55 рн 7.85 7.71	TDS (mg/l) 20 TDS (mg/l) 39 TDS (mg/l) 59 66 75	EC (μS/cm) 33 EC (μS/cm) 61 EC (μS/cm) 91 99 114	DO (mg/l) 11.4 DO (mg/l) 11.0 DO (mg/l) 10.8 10.6 10.4	Chloride (mg/l) 2.0 Chloride (mg/l) 3.0 Chloride (mg/l) 3.0 4.0	Hardness (mg/l) 26 Hardness (mg/l) 41 Hardness (mg/l) 63 72 79	Calclum (mg/l) 21 Calclum (mg/l) 33 Calclum (mg/l) 48 54 63	Magnesium (mg/l) 09 Magnesium (mg/l) 05 Magnesium (mg/l) 15 18	Alkalinity (mg/l) 39 Alkalinity (mg/l) 22 Alkalinity (mg/l) 35 Alkalinity (mg/l) 71	1.0 BOD (mg/l) 1.0 BOD (mg/l) 1.0 1.0 1.0 1.0	4.0 cod (mg/l) 4.0 River Yami cod (mg/l) 4.0 River Bhag cod (mg/l) 4.0 4.0 4.0	TC (MPN/100 ml) <1.8 River Yamuna U/ TC (MPN/100 ml) <1.8 una D/S at Sayana TC (MPN/100 ml) <1.8 girathi D/S at Utta TC (MPN/100 ml) 47 48 41	FC (MPN/100 ml) <1.8 S at Yamunotri FC (MPN/100 ml) <1.8 Chatti ,Uttarkashi I FC (MPN/100 ml) <1.8 rkashi, Uttarkasi E FC (MPN/100 ml) 39 40 34	(MPN/100 ml)	0.04 Nitrate-N (mg/l) 0.05 Nitrate-N (mg/l) 0.06 Nitrate-N (mg/l) 0.08 0.11 0.07	0.01 Nitrite-N (mg/l) 0.01 Nitrite-N (mg/l) 0.01 Nitrite-N (mg/l) 0.03 0.02 0.03	Sulphate (mg/l) 9.11 Sulphate (mg/l) 8.11 Sulphate (mg/l) 20.11 21.52	0.08 Phosphate (mg/l) 0.09 Phosphate (mg/l) 0.07 Phosphate (mg/l) 0.15 0.13 0.10	0.09 Fluoride (mg/l) 0.06 Fluoride (mg/l) 0.09 Fluoride (mg/l) 0.20 0.17 0.09	2.0 Sodium (mg/l) 1.6 Sodium (mg/l) 2.1 Sodium (mg/l) 2.8 3.3 3.1	1.7 Potassium (mg/l) 1.2 Potassium (mg/l) 1.6 Potassium (mg/l) 2.3 2.7 2.4	0.13 SAR 0.14 SAR 0.14 SAR 0.15 0.17	Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality Criteria A Designated Best use (DBU) Water Quality Criteria A A A A
16 S.No. 17 S.No.	Month May-24 Month May-24 Month Jan-24 Feb-24 Mar-24 Apr-24	10°C Temp 14°C Temp 15°C Temp 16°C 12°C 14°C 20°C	я.11 рн 7.69 рн 7.55 7.85 7.71 7.65 7.79	TDS (mg/l) 20 TDS (mg/l) 39 TDS (mg/l) 59 66 75 83	EC (μ5/cm) 33 EC (μ5/cm) 61 EC (μ5/cm) 91 99 114 127	DO (mg/l) 11.0 DO (mg/l) 11.0 DO (mg/l) 10.8 10.6 10.4	Chloride (mg/l) 2.0 Chloride (mg/l) 3.0 Chloride (mg/l) 3.0 4.0 5.0	Hardness (mg/l) 26 Hardness (mg/l) 41 Hardness (mg/l) 63 72 79 88	Calcium (mg/l) 21 Calcium (mg/l) 33 Calcium (mg/l) 48 54 63	(mg/l) 09	(mg/l) 39 Alkalinity (mg/l) 22 Alkalinity (mg/l) 35 Alkalinity (mg/l) 35 71 81	1.0 BOD (mg/l) 1.0 BOD (mg/l) 1.0 1.0 1.0 1.0 1.0	4.0 COD (mg/l) 4.0 River Yamn COD (mg/l) 4.0 River Bhag COD (mg/l) 4.0 4.0 4.0	TC (MPN/100 ml) <1.8 River Yamuna U/ TC (MPN/100 ml) <1.8 Luna D/S at Sayana TC (MPN/100 ml) <1.8 girathi D/S at Utta TC (MPN/100 ml) 47 48 41 48	FC (MPN/100 ml) <1.8 5 at Yamunotri FC (MPN/100 ml) <1.8 -Chatti ,Uttarkashi I FC (MPN/100 ml) <1.8 FC (MPN/100 ml) 39 40 34 41	(MPN/100 ml)	0.04 Nitrate-N (mg/l) 0.05 Nitrate-N (mg/l) 0.06 Nitrate-N (mg/l) 0.08 0.11 0.07 0.09	0.01 Nitrite-N (mg/l) 0.01 Nitrite-N (mg/l) 0.01 Nitrite-N (mg/l) 0.03 0.02 0.03 0.04	Sulphate (mg/l) 9.11 Sulphate (mg/l) 8.11 Sulphate (mg/l) 20.11 21.52 20.11 17.60	0.08 Phosphate (mg/l) 0.09 Phosphate (mg/l) 0.07 Phosphate (mg/l) 0.15 0.13 0.10 0.09	0.09 Fluoride (mg/l) 0.06 Fluoride (mg/l) 0.09 Fluoride (mg/l) 0.20 0.17 0.09 0.11	2.0 Sodium (mg/l) 1.6 Sodium (mg/l) 2.1 Sodium (mg/l) 2.8 3.3 3.1 2.9	1.7 Potassium (mg/l) 1.2 Potassium (mg/l) 1.6 Potassium (mg/l) 2.3 2.7 2.4 2.1	0.13 SAR 0.14 SAR 0.14 SAR 0.15 0.17 0.15 0.13	Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality A Designated Best use (DBU) Water Quality Criteria A Designated Best use (DBU) Water Quality Criteria A A A A A

														River Yamun	a at Barkot										
20	Jan-24	11°C	8.01	70	106	10.8	2.0	67	55	12	62	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.01	17.96	0.08	0.18	1.9	1.6	0.10	A
	Feb-24	11°C	7.88	64	97	10.6	3.0	62	47	15	59	1.0	4.0	<1.8	<1.8	<1.8	0.11	0.05	20.41	0.13	0.20	2.2	1.8	0.12	A
	Mar-24	13°C	7.59	50	76	10.6	4.0	55	44	11	48	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.03	17.20	0.10	0.17	2.5	2.0	0.15	A
	Apr-24	16°C	7.68	55	84	10.4	4.0	58	49	09	52	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.03	16.10	0.11	0.09	2.1	1.8	0.12	A
	May-24	16°C	7.82	61	93	10.2	5.0	63	52	11	57	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.02	18.41	0.13	0.15	2.5	2.0	0.14	A
	Jun-24	16°C	7.60	64	97	10.0	6.0	66	57	09	61	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.01	16.96	0.12	0.13	2.9	2.1	0.15	A
	Jul-24	14°C	7.62	65	94	10.2	5.0	60	42	18	34	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.03	20.25	0.11	0.12	5.4	4.2	0.30	A
													River Ala	knanda B/C River	Bhagirathi at Devpi	rayag									
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
21	Jan-24	13°C	7.78	60	91	10.8	4.0	73	51	22	65	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.04	11.96	0.16	0.10	2.4	2.3	0.12	A
	Feb-24	13°C	7.68	71	108	10.6	5.0	82	57	25	78	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.03	12.63	0.20	0.15	2.9	2.6	0.14	A
	Mar-24	13°C	8.02	60	92	10.4	5.0	70	48	22	64	1.0	4.0	<1.8	<1.8	<1.8	0.07	0.02	13.41	0.13	0.13	3.2	2.8	0.17	A
	Apr-24	17°C	7.80	67	102	10.2	5.0	73	53	20	69	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.03	12.42	0.11	0.10	3.4	2.6	0.17	A
_	May-24	20°C	7.96	84	127	10.0	6.0	89	64	25	86	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.02	13.11	0.13	0.15	3.7	2.8	0.17	A
	Jun-24	16°C	7.92	82	125	10.2	6.0	92	67	25	89	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.03	14.89	0.14	0.12	4.6	2.7	0.21	A
	Jul-24	14°C	7.68	70	121	10.6	6.0	110	60	50	92	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.03	12.35	0.15	0.13	4.6	2.7	0.19	A
													River Bn	agıratnı B/C Kiver i	Alaknanda at Devpi	rayag									
			T T	1		I	Chlorida	I	Calalina	Manusalum	Allerliele	ı	1	I		5	<u> </u>	ı	Culubata	<u> </u>			ı		Designated Best use
S.No.	Month	Temp	рН	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 Steptococcss (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
S.No.	Month Jan-24	14°C	8.26	48	EC (μS/cm)	DO (mg/l)		Hardness (mg/l)	(mg/I) 40			BOD (mg/l)	COD (mg/l) 4.0	TC (MPN/100 ml)	FC (MPN/100 ml) <1.8	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)		Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	2.4	0.15	(DBU) Water Quality
_	Jan-24 Feb-24	14°C 14°C	8.26 7.83	48 53	74 82	10.6	(mg/l) 2.0 3.0	53	(mg/l) 40 42	(mg/l) 13 14	(mg/l) 51 50	1.0	4.0	<1.8 <1.8	<1.8	(MPN/100 ml) <1.8 <1.8	0.04	0.02	(mg/l) 12.65 13.42	0.11	0.12 0.13	2.6	2.4	0.15 0.17	(DBU) Water Quality Criteria A A
_	Jan-24 Feb-24 Mar-24	14°C 14°C 14°C	8.26 7.83 7.45	48 53 47	74 82 72	10.6 10.4 10.2	(mg/l) 2.0 3.0 4.0	53 56 52	40 42 40	(mg/l) 13 14 12	(mg/l) 51 50 45	1.0 1.0 1.0	4.0 4.0 4.0	<1.8 <1.8 <1.8	<1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8	0.04 0.05 0.04	0.02 0.03 0.03	(mg/l) 12.65 13.42 12.82	0.11 0.15 0.10	0.12 0.13 0.12	2.6 3.0 2.8	2.4 2.7 2.4	0.15 0.17 0.17	(DBU) Water Quality Criteria A A A
	Jan-24 Feb-24 Mar-24 Apr-24	14°C 14°C 14°C 18°C	8.26 7.83 7.45 7.59	48 53 47 51	74 82 72 78	10.6 10.4 10.2 10.0	(mg/l) 2.0 3.0 4.0 5.0	53 56 52 54	40 42 40 44	(mg/l) 13 14 12 10	(mg/l) 51 50 45 48	1.0 1.0 1.0 1.0	4.0 4.0 4.0 4.0	<1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.04 0.03	0.02 0.03 0.03 0.01	(mg/l) 12.65 13.42 12.82 12.11	0.11 0.15 0.10 0.09	0.12 0.13 0.12 0.09	2.6 3.0 2.8 2.5	2.4 2.7 2.4 2.2	0.15 0.17 0.17 0.15	(DBU) Water Quality Criteria A A A A
_	Jan-24 Feb-24 Mar-24 Apr-24 May-24	14°C 14°C 14°C 18°C	8.26 7.83 7.45 7.59 7.46	48 53 47 51 45	74 82 72 78 70	10.6 10.4 10.2 10.0 10.2	(mg/l) 2.0 3.0 4.0 5.0 4.0	53 56 52 54 49	(mg/l) 40 42 40 44 37	(mg/l) 13 14 12 10 12	(mg/l) 51 50 45 48 43	1.0 1.0 1.0 1.0	4.0 4.0 4.0 4.0 4.0	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.04 0.03 0.04	0.02 0.03 0.03 0.01 0.03	(mg/l) 12.65 13.42 12.82 12.11 13.85	0.11 0.15 0.10 0.09 0.12	0.12 0.13 0.12 0.09 0.11	2.6 3.0 2.8 2.5 2.2	2.4 2.7 2.4 2.2 2.0	0.15 0.17 0.17 0.15 0.14	(DBU) Water Quality Criteria A A A A A
_	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	14°C 14°C 14°C 18°C 19°C	8.26 7.83 7.45 7.59 7.46 7.12	48 53 47 51 45 42	74 82 72 78 70 64	10.6 10.4 10.2 10.0 10.2 10.4	(mg/l) 2.0 3.0 4.0 5.0 4.0 4.0	53 56 52 54 49 52	(mg/l) 40 42 40 44 37 39	(mg/l) 13 14 12 10 12 13	(mg/l) 51 50 45 48 43	1.0 1.0 1.0 1.0 1.0	4.0 4.0 4.0 4.0 4.0 4.0	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.04 0.03 0.04 0.05	0.02 0.03 0.03 0.01 0.03 0.04	(mg/l) 12.65 13.42 12.82 12.11 13.85 15.08	0.11 0.15 0.10 0.09 0.12 0.10	0.12 0.13 0.12 0.09 0.11 0.11	2.6 3.0 2.8 2.5 2.2 2.7	2.4 2.7 2.4 2.2 2.0 2.0	0.15 0.17 0.17 0.15 0.14 0.16	(DBU) Water Quality Criteria A A A A A A A
_	Jan-24 Feb-24 Mar-24 Apr-24 May-24	14°C 14°C 14°C 18°C	8.26 7.83 7.45 7.59 7.46	48 53 47 51 45	74 82 72 78 70	10.6 10.4 10.2 10.0 10.2	(mg/l) 2.0 3.0 4.0 5.0 4.0	53 56 52 54 49	(mg/l) 40 42 40 44 37	(mg/l) 13 14 12 10 12	(mg/l) 51 50 45 48 43	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.04 0.03 0.04	0.02 0.03 0.03 0.01 0.03	(mg/l) 12.65 13.42 12.82 12.11 13.85	0.11 0.15 0.10 0.09 0.12	0.12 0.13 0.12 0.09 0.11	2.6 3.0 2.8 2.5 2.2	2.4 2.7 2.4 2.2 2.0	0.15 0.17 0.17 0.15 0.14	(DBU) Water Quality Criteria A A A A A
_	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	14°C 14°C 14°C 18°C 19°C	8.26 7.83 7.45 7.59 7.46 7.12	48 53 47 51 45 42 40	74 82 72 78 70 64	10.6 10.4 10.2 10.0 10.2 10.4	(mg/l) 2.0 3.0 4.0 5.0 4.0 4.0	53 56 52 54 49 52	(mg/l) 40 42 40 44 37 39	(mg/l) 13 14 12 10 12 13	(mg/l) 51 50 45 48 43	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.04 0.03 0.04 0.05	0.02 0.03 0.03 0.01 0.03 0.04	(mg/l) 12.65 13.42 12.82 12.11 13.85 15.08	0.11 0.15 0.10 0.09 0.12 0.10	0.12 0.13 0.12 0.09 0.11 0.11	2.6 3.0 2.8 2.5 2.2 2.7	2.4 2.7 2.4 2.2 2.0 2.0 3.3	0.15 0.17 0.17 0.15 0.14 0.16	(DBU) Water Quality Criteria A A A A A A A A Designated Best use (DBU) Water Quality
22	Jan-24 Feb-24 Mar-24 Apr-24 Muy-24 Jun-24 Jul-24	14°C 14°C 14°C 18°C 19°C 15°C	8.26 7.83 7.45 7.59 7.46 7.12 7.53	48 53 47 51 45 42 40 TDS (mg/l)	74 82 72 78 70 64 67	10.6 10.4 10.2 10.0 10.2 10.4 10.4	(mg/l) 2.0 3.0 4.0 5.0 4.0 4.0 4.0	53 56 52 54 49 52 68	(mg/h) 40 42 40 44 37 39 42	(mg/l) 13 14 12 10 12 13 26	(mg/l) 51 50 45 48 43 46 53	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 final description of the second of the	0.04 0.05 0.04 0.03 0.04 0.05 0.05	0.02 0.03 0.03 0.01 0.03 0.04 0.04	(mg/l) 12.65 13.42 12.82 12.11 13.85 15.08 13.11	0.11 0.15 0.10 0.09 0.12 0.10 0.10	0.12 0.13 0.12 0.09 0.11 0.11 0.10	2.6 3.0 2.8 2.5 2.2 2.7 2.3	2.4 2.7 2.4 2.2 2.0 2.0 3.3	0.15 0.17 0.17 0.15 0.14 0.16 0.12	(DBU) Water Quality Criteria A A A A A A A A Designated Best use
22 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24	14°C 14°C 14°C 18°C 19°C 15°C 15°C 13°C	8.26 7.83 7.45 7.59 7.46 7.12 7.53	48 53 47 51 45 42 40 TDS (mg/l)	74 82 72 78 70 64 67	10.6 10.4 10.2 10.0 10.2 10.4 10.4	(mg/l) 2.0 3.0 4.0 5.0 4.0 4.0 4.0 Chloride (mg/l)	53 56 52 54 49 52 68	(mg/l) 40 42 40 44 37 39 42 Calclum (mg/l)	(mg/l) 13 14 12 10 12 13 26 Magnesium (mg/l)	(mg/l) 51 50 45 48 43 46 53 Alkalinity (mg/l)	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) iver Alaknanda A	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.04 0.03 0.04 0.05 0.05	0.02 0.03 0.03 0.01 0.03 0.04 0.04	(mg/l) 12.65 13.42 12.82 12.11 13.85 15.08 13.11	0.11 0.15 0.10 0.09 0.12 0.10 0.10	0.12 0.13 0.12 0.09 0.11 0.11 0.10	2.6 3.0 2.8 2.5 2.2 2.7 2.3 Sodium (mg/l)	2.4 2.7 2.4 2.2 2.0 2.0 3.3	0.15 0.17 0.17 0.15 0.14 0.16 0.12	(DBU) Water Quality Criteria A A A A A A A A Designated Best use (DBU) Water Quality Criteria
22 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Month	14°C 14°C 14°C 18°C 19°C 15°C 15°C 13°C	8.26 7.83 7.45 7.59 7.46 7.12 7.53	48 53 47 51 45 42 40 TDS (mg/l) 63	74 82 72 78 70 64 67	10.6 10.4 10.2 10.0 10.2 10.4 10.4	(mg/l) 2.0 3.0 4.0 5.0 4.0 4.0 4.0 4.0 3.0	53 56 52 54 49 52 68	(mg/l) 40 42 40 44 37 39 42 Calcium (mg/l) 48	(mg/l) 13 14 12 10 12 13 26 Magnesium (mg/l) 18	(mg/l) 51 50 45 48 43 46 53 Alkalinity (mg/l) 64	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) iver Alaknanda A	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.04 0.03 0.04 0.05 0.05	0.02 0.03 0.03 0.01 0.03 0.04 0.04 Nitrite-N (mg/l)	(mg/l) 12.65 13.42 12.82 12.11 13.85 15.08 13.11 Sulphate (mg/l) 14.75	0.11 0.15 0.10 0.09 0.12 0.10 0.10	0.12 0.13 0.12 0.09 0.11 0.11 0.10	2.6 3.0 2.8 2.5 2.2 2.7 2.3 Sodium (mg/l) 2.3	2.4 2.7 2.4 2.2 2.0 2.0 3.3	0.15 0.17 0.17 0.15 0.14 0.16 0.12	(DBU) Water Quality Criteria A A A A A A A A Designated Best use (DBU) Water Quality Criteria A
5.No.	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Month Jan-24 Feb-24	14°C 14°C 14°C 18°C 19°C 15°C 13°C 13°C	8.26 7.83 7.45 7.59 7.46 7.12 7.53	48 53 47 51 45 42 40 TDS (mg/l) 63 69	74 82 72 78 70 64 67 Ec (µs/cm) 96	10.6 10.4 10.2 10.0 10.2 10.4 10.4 DO (mg/l) 10.8	(mg/l) 2.0 3.0 4.0 5.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	53 56 52 54 49 52 68 Hardness (mg/l) 66	(mg/l) 40 42 40 44 37 39 42 Calcium (mg/l) 48 53	(mg/l) 13 14 12 10 12 13 26 Magnesium (mg/l) 18 21	(mg/l) 51 50 45 48 43 46 53 Alkalinity (mg/l) 64 71	1.0 1.0 1.0 1.0 1.0 BDL (<1) R BOD (mg/l) 1.0	4.0 4.0 4.0 4.0 4.0 BDL (<5) iver Alaknanda A cod (mg/l) 4.0 4.0	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.04 0.03 0.04 0.05 0.05 Nitrate-N (mg/l) 0.05 0.03	0.02 0.03 0.03 0.01 0.03 0.04 0.04 Nitrite-N (mg/l) 0.02 0.03	(mg/l) 12.65 13.42 12.82 12.11 13.85 15.08 13.11 Sulphate (mg/l) 14.75 11.79	0.11 0.15 0.10 0.09 0.12 0.10 0.10 Phosphate (mg/l) 0.13 0.15	0.12 0.13 0.12 0.09 0.11 0.11 0.10	2.6 3.0 2.8 2.5 2.2 2.7 2.3 Sodium (mg/l) 2.3	2.4 2.7 2.4 2.2 2.0 2.0 3.3 Potassium (mg/l) 2.2	0.15 0.17 0.17 0.15 0.14 0.16 0.12 sar 0.12	(DBU) Water Quality Criteria A A A A A A A A A A A A A
22 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Month Jan-24 Feb-24 Mar-24	14°C 14°C 14°C 18°C 19°C 15°C 13°C 13°C 13°C 13°C	8.26 7.83 7.45 7.59 7.46 7.12 7.53 pH 8.10 7.79 7.71	48 53 47 51 45 42 40 TDS (mg/l) 63 69 55	74 82 72 78 70 64 67 EC (µs/cm) 96 105 85	10.6 10.4 10.2 10.0 10.2 10.4 10.4 10.8 10.6	(mg/l) 2.0 3.0 4.0 5.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	53 56 52 54 49 52 68 Hardness (mg/l) 66 74 63	(mg/l) 40 42 40 44 37 39 42 Calcium (mg/l) 48 53	(mg/l) 13 14 12 10 12 13 26 Magnesium (mg/l) 18 21	(mg/l) 51 50 45 48 43 46 53 Alkalinity (mg/l) 64 71 59	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	4.0 4.0 4.0 4.0 4.0 4.0 6.0 4.0 8DL (<5) iver Alaknanda A cod (mg/l) 4.0 4.0 4.0	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.04 0.03 0.04 0.05 0.05 0.05 0.05 0.05	0.02 0.03 0.03 0.01 0.03 0.04 0.04 Nitrite-N (mg/l) 0.02 0.03 0.01	(mg/l) 12.65 13.42 12.82 12.11 13.85 15.08 13.11 sulphate (mg/l) 14.75 11.79 13.80	0.11 0.15 0.10 0.09 0.12 0.10 0.10 0.10 0.11	0.12 0.13 0.12 0.09 0.11 0.11 0.10 Fluoride (mg/l) 0.15 0.14 0.13	2.6 3.0 2.8 2.5 2.2 2.7 2.3 Sodium (mg/l) 2.3 2.7 2.9	2.4 2.7 2.4 2.2 2.0 2.0 3.3 Potassium (mg/l) 2.2 2.4	0.15 0.17 0.17 0.15 0.14 0.16 0.12 sar 0.12 0.14 0.16	(DBU) Water Quality Criteria A A A A A A A A A A A A A
22 S.No.	Jan-24 Feb-24 Mar-24 May-24 Jun-24 Jul-24 Month Jan-24 Feb-24 Mar-24 Apr-24	14°C 14°C 14°C 18°C 19°C 15°C 13°C 13°C 13°C 13°C 13°C	8.26 7.83 7.45 7.59 7.46 7.12 7.53 рн 8.10 7.79 7.71	48 53 47 51 45 42 40 TDS (mg/l) 63 69 55 62	74 82 72 78 70 64 67 Ec (us/cm) 96 105 85	10.6 10.4 10.2 10.0 10.2 10.4 10.4 10.8 10.6 10.4	(mg/l) 2.0 3.0 4.0 5.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	53 56 52 54 49 52 68 Hardness (mg/l) 66 74 63 67	(mg/l) 40 42 40 44 37 39 42 Calcium (mg/l) 48 53 45	(mg/l) 13 14 12 10 12 13 26 Magnesium (mg/l) 18 21 18 16	(mg/l) 51 50 45 48 43 46 53 Alkalinity (mg/l) 64 71 59 64	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) iver Alaknanda A cod (mg/l) 4.0 4.0 4.0 4.0	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 at Devprayag Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.04 0.03 0.04 0.05 0.05 0.05 0.05 0.05 0.06	0.02 0.03 0.03 0.01 0.03 0.04 0.04 0.02 0.03 0.01 0.01	(mg/l) 12.65 13.42 12.82 12.11 13.85 15.08 13.11 sulphate (mg/l) 14.75 11.79 13.80 12.96	0.11 0.15 0.10 0.09 0.12 0.10 0.10 0.10 0.11 0.13 0.15 0.11 0.13	0.12 0.13 0.12 0.09 0.11 0.11 0.10 Fluoride (mg/l) 0.15 0.14 0.13 0.10	2.6 3.0 2.8 2.5 2.2 2.7 2.3 Sodium (mg/l) 2.3 2.7 2.9 2.7	2.4 2.7 2.4 2.2 2.0 2.0 3.3 Potassium (mg/l) 2.2 2.4 2.7 2.5	0.15 0.17 0.17 0.15 0.14 0.16 0.12 SAR 0.12 0.14 0.16 0.11	(DBU) Water Quality Criteria A A A A A A A A A A A A A

														Tehri lake at Kot	i colony, Tehri										
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
24	Jan-24	18°C	8.05	54	81	10.2	3.0	58	44	14	53	1.0	4.0	48	41	2.0	0.06	0.01	20.44	0.18	0.16	2.1	2.0	0.12	A
	Feb-24	16°C	7.96	52	78	10.0	4.0	50	38	12	44	1.0	4.0	41	34	2.0	0.04	0.01	18.70	0.14	0.12	2.8	2.5	0.17	A
	Mar-24	16°C	7.60	40	61	9.8	5.0	45	35	10	42	1.0	4.0	47	40	2.0	0.06	0.02	11.62	0.12	0.10	2.9	2.7	0.19	A
	Apr-24	20°C	7.68	49	75	9.6	6.0	52	39	13	50	1.0	4.0	48	41	2.0	0.08	0.04	11.96	0.08	0.08	2.6	2.3	0.16	A
	May-24	19°C	7.53	56	85	9.4	6.0	60	44	16	58	1.0	4.0	47	40	2.0	0.06	0.02	12.09	0.10	0.12	2.9	2.5	0.16	A
	Jun-24	24°C	7.67	56	85	9.2	5.0	58	42	16	54	1.0	4.0	49	33	6.1	0.05	0.03	12.01	0.08	0.11	2.7	2.3	0.15	A
	Jul-24	25°C	7.72	61	96	9.1	5.0	59	45	14	56	BDL (<1)	BDL (<5)	48	41	7.8	0.05	0.03	12.01	0.08	0.11	2.7	2.3	0.15	A
					_								River	Ganga U/S at Laksl	nmanjhula, Rishikes	h						_			
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
25	Jan-24	11°C	7.80	69	104	10.8	2.0	72	50	22	70	1.0	4.0	26	22	<1.8	0.08	0.03	42.16	0.19	0.22	2.8	2.6	0.14	A
	Feb-24	16°C	7.50	77	118	10.6	4.0	85	59	26	80	1.0	4.0	32	26	<1.8	0.09	0.05	45.63	0.22	0.25	3.1	2.8	0.15	A
	Mar-24	20°C	7.60	69	105	10.4	5.0	74	52	22	71	1.0	4.0	38	31	<1.8	0.11	0.03	50.41	0.20	0.32	3.3	3.0	0.17	A
	Apr-24	20°C	7.97	75	114	10.2	5.0	78	58	20	76	1.0	4.0	39	33	<1.8	0.14	0.06	45.62	0.21	0.36	3.1	2.7	0.15	A
	May-24	23°C	7.80	68	104	10.0	6.0	73	50	23	70	1.0	4.0	40	34	<1.8	0.18	0.06	50.25	0.25	0.30	3.3	3.0	0.17	A
	Jun-24	20°C	7.82	72	109	10.4	5.0	74	53	21	71	1.0	4.0	47	40	<1.8	0.17	0.05	50.11	0.23	0.29	4.0	3.4	0.20	A
	Jul-24	20°C	7.89	79	116	10.3	5.0	79	58	21	73	BDL (<1)	BDL (<5)	39	33	<1.8	0.15	0.08	55.62	0.28	0.33	3.9	4.7	0.19	A
													Rive	r Ganga D/S Swarg	ashram-1, Rishikesh	1	_								
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
26	Jan-24	13°C	7.89	75	115	10.4	3.0	79	54	25	77	1.0	4.0	33	27	<1.8	0.12	0.02	40.73	0.17	0.25	3.1	2.9	0.15	A
	Feb-24	16°C	7.58	88	135	10.2	5.0	98	68	30	90	1.0	4.0	39	33	<1.8	0.07	0.01	38.44	0.23	0.19	3.3	3.1	0.14	A
	Mar-24	18°C	7.72	78	118	10.0	6.0	82	58	24	79	1.0	4.0	47	39	<1.8	0.05	0.02	42.63	0.19	0.24	3.5	3.2	0.17	A
	Apr-24	22°C	7.92	92	140	9.8	7.0	97	74	23	94	1.0	4.0	48	41	<1.8	0.11	0.04	46.78	0.13	0.28	3.4	3.0	0.15	A
	May-24	23°C	7.71	82	124	9.6	8.0	86	62	27	84	1.0	4.0	46	33	<1.8	0.13	0.04	48.70	0.16	0.22	3.7	3.2	0.17	A
	Jun-24	19°C	7.88	82	124	10.0	7.0	82	61	21	81	1.0	4.0	48	41	<1.8	0.12	0.03	48.52	0.14	0.21	3.6	3.1	0.17	A
	Jul-24	20°C	7.87	88	136	9.9	7.0	87	64	23	83	BDL (<1)	BDL (<5)	47	40	<1.8	0.13	0.06	50.66	0.23	0.28	3.3	4.2	0.15	A
						_							Ri	ver Ganga D/S at B	airaaj, Rishikesh,							•			
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
27	Jan-24	13°C	7.55	71	108	10.6	3.0	75	56	19	73	1.0	4.0	40	34	<1.8	0.09	0.02	48.52	0.19	0.22	2.6	2.2	0.13	A
	Feb-24	18°C	7.46	81	123	10.4	5.0	87	59	28	84	1.0	4.0	47	39	<1.8	0.08	0.03	52.32	0.15	0.18	2.9	2.6	0.13	A
	Mar-24	18°C	7.57	88	134	10.2	5.0	92	66	26	90	1.0	4.0	39	27	<1.8	0.07	0.02	48.14	0.11	0.13	3.1	2.9	0.14	A
	Apr-24	20°C	7.40	105	159	10.0	6.0	108	83	25	106	1.1	4.0	39	33	<1.8	0.08	0.01	52.63	0.14	0.18	3.6	3.2	0.15	A
	May-24	22°C	7.56	94	142	9.8	7.0	98	69	29	95	1.2	4.0	38	26	<1.8	0.09	0.05	60.41	0.16	0.23	3.4	2.9	0.15	A

	Jun-24	20°C	7.72	91	138	9.8	6.0	94	65	29	93	1.0	4.0	39	33	<1.8	0.07	0.04	60.32	0.14	0.21	3.2	2.7	0.14	A
	Jul-24	20°C	7.66	96	151	9.7	6.0	98	71	27	95	BDL (<1)	BDL (<5)	47	34	<1.8	0.10	0.06	58.63	0.13	0.20	3.8	3.4	0.16	A
												F	River Ganga A/C	River Song (River (Ganga D/S) at Raiwa	ıla, Dehradun	•	•							
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
28	Jan-24	16°C	8.33	150	226	9.2	5.0	131	105	26	121	1.1	5.0	70	49	4.5	0.11	0.03	42.96	0.22	0.23	4.8	3.6	0.18	В
	Feb-24	17°C	8.07	130	196	9.0	7.0	142	112	30	133	1.3	5.0	63	46	4.0	0.09	0.01	45.77	0.16	0.31	5.1	3.3	0.19	В
	Mar-24	22°C	7.91	142	213	8.6	8.0	148	110	38	146	1.5	5.0	70	49	4.0	0.08	0.04	40.68	0.22	0.25	5.5	3.6	0.20	В
	Apr-24	21°C	8.45	125	189	8.4	9.0	134	95	39	131	1.6	5.0	63	46	4.0	0.11	0.03	45.66	0.25	0.30	5.1	3.2	0.19	В
<u> </u>	May-24	22°C	8.09	130	196	8.0	10.0	137	95	42	134	1.8	6.0	70	49	4.0	0.13	0.06	50.41	0.28	0.25	5.9	4.0	0.22	В
<u> </u>	Jun-24	21°C	7.74	128	193	8.4	9.0	132	89	43	128	1.7	6.0	110	70	6.8	0.11	0.04	50.38	0.26	0.23	5.7	3.0	0.22	В
	Jul-24	21°C	7.71	133	198	8.2	9.0	136	92	44	131	1.7	6.0	120	94	6.1	0.15	0.08	53.44	0.25	0.28	6.2	4.1	0.23	В
	•							,				River Gar	nga A/C River Son	ng (River Ganga D/	S) Near Birla guest	house, Dist-Dehradı	ın					_			
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
29	Jan-24	14°C	8.14	131	198	9.4	5.0	122	99	23	114	1.1	5.0	94	70	<1.8	0.06	0.04	55.28	0.23	0.22	5.0	3.9	0.20	В
<u> </u>	Feb-24	16°C	7.93	144	218	9.2	6.0	135	108	27	124	1.2	5.0	79	49	<1.8	0.08	0.05	52.46	0.20	0.26	5.3	3.7	0.20	В
	Mar-24	21°C	7.82	158	239	8.8	7.0	152	118	34	141	1.4	5.0	94	46	<1.8	0.07	0.02	50.30	0.13	0.30	5.9	3.9	0.21	В
<u> </u>	Apr-24	21°C	8.33	135	205	8.6	8.0	142	105	37	137	1.5	5.0	70	49	<1.8	0.09	0.03	53.46	0.16	0.25	6.1	4.4	0.22	В
<u> </u>	May-24	23°C	7.98	143	216	8.2	9.0	148	108	40	145	1.7	6.0	70	46	<1.8	0.13	0.05	56.21	0.20	0.33	6.7	4.7	0.24	В
<u> </u>	Jun-24	20°C	7.81	147	223	8.8	7.0	158	118	40	154	1.5	5.0	84	63	4.0	0.11	0.03	56.07	0.18	0.31	6.4	4.4	0.22	В
	Jul-24	20°C	7.85	153	226	8.7	7.0	167	124	43	158	1.5	5.0	94	70	6.1	0.14	0.06	54.92	0.22	0.30	6.1	3.5	0.20	В
-	1		<u> </u>	1		<u> </u>	Chloride		Calcium	Magnesium	Alkalinity		River	Suswa D/S at Mat	hurawala, Dehradu	n Fecal Steptococcss	ı	 	Sulphate			T	<u> </u>		Designated Best use
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	(mg/l)	Hardness (mg/l)	(mg/l)	(mg/l)	(mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	(MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	(mg/I)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality Criteria
30	Jan-24	15°C	7.31	316	475	2.8	32.0	307	250	57	293	26.0	90.0	22×10 ²	13×10 ²	540	0.25	0.08	127.90	0.21	0.25	31.5	6.2	0.78	Е
-	Feb-24 Mar-24	18°C	7.49 7.32	335 321	505 484	2.4	34.0	347 330	281 258	66	339 326	28.0	100.0	17×10 ²	14×10 ²	920 920	0.32	0.03	136.52 120.10	0.15	0.21	30.0 29.1	6.8	0.70	E E
\vdash	Apr-24	21°C	7.51	340	512	2.4	34.0	348	271	72 77	343	27.0	90.0	28×10^{2} 22×10^{2}	22×10 ² 17×10 ²	920	0.28	0.04	132.41	0.20	0.19	28.3	5.9	0.66	E
-	May-24	28°C	7.63	364	548	2.0	36.0	369	286	83	366	30.0	110.0	28×10 ²	17×10 ²	1600	0.41	0.13	140.41	0.19	0.29	28.9	6.2	0.65	E
_	Jun-24	22°C	7.56	360	542	2.2	36.0	362	284	78	352	29.0	110.0	35×10 ²	28×10 ²	1600	0.40	0.13	141.64	0.19	0.28	26.9	6.0	0.61	E
\vdash	Jul-24	19°C	7.55	270	412	2.2	32.0	270	218	52	266	27.0	100.0	35×10 ²	20×10 ²	1600	0.35	0.11	133.4	0.15	0.24	28.5	15.3	0.75	E
		-, -	,									=			tta, Doiwala, Dehra					****	*				
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
31	Jan-24	17°C	7.65	277	416	5.4	19.0	267	230	37	255	2.8	8.0	350	280	110	0.26	0.07	125.40	0.20	0.24	30.1	5.7	0.80	В
	Feb-24	17°C	7.77	291	438	5.2	20.0	299	256	43	293	3.0	9.0	280	220	140	0.38	0.02	129.73	0.26	0.25	28.9	5.3	0.73	В
	Mar-24	17°C	7.59	269	404	5.6	18.0	274	227	47	271	2.8	8.0	430	280	170	0.33	0.03	119.02	0.21	0.26	28.3	5.0	0.74	В

	Apr-24	20°C	7.74	297	447	5.2	19.0	307	253	54	301	3.0	9.0	350	240	140	0.38	0.12	122.62	0.18	0.30	27.8	4.8	0.69	В
	May-24	29°C	7.91	313	472	5.0	20.0	327	264	63	319	3.0	10.0	430	350	110	0.45	0.16	130.42	0.22	0.25	28.0	5.1	0.67	В
	Jun-24												Ri	iver was found D	ry.										
	Jul-24	20°C	7.28	235	350	5.6	17.0	255	220	35	202	2.8	9.0	350	280	94	0.40	0.13	125.41	0.19	0.21	23.9	6.8	0.65	В
												River S	ong D/S before o	onfluence in to Riv	ver Ganga Near Nep	oali Farm, Rishikesh									
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
32	Jan-24	13°C	7.90	142	214	8.4	6.0	130	105	25	121	1.2	5.0	140	79	6.8	0.11	0.04	52.17	0.23	0.20	13.6	2.9	0.52	В
	Feb-24	18°C	7.82	165	250	8.0	9.0	150	119	31	137	1.4	6.0	120	94	6.1	0.13	0.03	55.79	0.19	0.25	14.0	3.2	0.50	В
	Mar-24	20°C	7.68	178	268	7.6	10.0	183	144	39	168	1.6	6.0	110	79	6.8	0.16	0.01	50.05	0.13	0.20	13.1	3.5	0.42	В
	Apr-24	22°C	8.04	159	240	7.4	10.0	166	124	42	152	1.7	6.0	120	94	4.5	0.20	0.08	55.69	0.16	0.28	13.8	3.8	0.46	В
	May-24	23°C	8.19	171	258	7.0	11.0	175	128	47	167	1.9	7.0	110	79	4.0	0.25	0.11	60.79	0.23	0.20	14.2	4.0	0.47	В
	Jun-24	21°C	7.72	188	284	7.2	9.0	182	131	51	148	1.8	6.0	140	94	6.8	0.12	0.04	56.09	0.18	0.28	6.2	4.6	0.20	В
	Jul-24	23°C	7.72	188	284	7.2	9.0	182	131	51	148	1.4	5.0	120	70	6.1	0.20	0.05	58.1	0.20	0.20	6.7	4.4	0.21	В
													River (Ganga near Vistha	phit Colony, Rishike	esh									
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
33	Jan-24	14°C	8.07	88	133	10.2	4.0	90	68	22	84	1.0	4.0	47	40	<1.8	0.08	0.04	50.63	0.15	0.18	2.8	2.5	0.13	A
	Feb-24	18°C	7.80	103	156	10.0	6.0	98	73	25	96	1.0	4.0	48	41	<1.8	0.11	0.01	49.63	0.20	0.25	3.1	2.8	0.14	A
	Mar-24	23°C	7.92	122	184	9.6	7.0	126	93	33	120	1.2	4.0	41	34	<1.8	0.10	0.03	43.10	0.18	0.19	3.4	3.1	0.13	A
	Apr-24	20°C	7.87	144	217	9.4	7.0	148	118	30	139	1.3	4.0	47	40	<1.8	0.02	0.01	48.19	0.21	0.22	3.3	2.9	0.12	A
	May-24	22°C	7.68	120	182	9.2	8.0	125	89	36	112	1.4	4.0	48	40	<1.8	0.18	0.09	55.12	0.18	0.30	3.6	3.0	0.14	A
	Jun-24	20°C	7.78	118	179	9.4	7.0	118	84	34	108	1.2	4.0	47	34	<1.8	0.16	0.08	55.01	0.16	0.28	3.4	3.1	0.14	A
	Jul-24	20°C	7.75	113	174	9.2	7.0	124	89	35	111	1.2	BDL (<5)	40	41	<1.8	0.15	0.12	60.12	0.2	0.25	3.2	2.8	0.12	A
													River Ya	muna D/S at Vil	kash Nagar, Dehi								<u> </u>		
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/I)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (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-24	19°C	7.88	99	150	10.0	5.0	101	84	17	96	1.0	4.0	94	70	6.1	0.09	0.02	32.10	0.21	0.18	3.4	2.8	0.15	В
	Feb-24	12°C	7.74	107	162	9.8	6.0	110	87	23	108	1.1	4.0	110	79	6.1	0.12	0.05	35.89	0.25	0.27	3.8	3.1	0.16	В
	Mar-24	22°C	7.65	113	171	9.6	6.0	118	91	27	115	1.1	4.0	120	94	9.2	0.15	0.03	46.20	0.20	0.22	4.2	3.4	0.17	В
<u> </u>	Apr-24	23°C	7.79	118	178	9.4	7.0	121	90	31	119	1.2	4.0	110	79	6.1	0.21	0.09	48.72	0.23	0.26	3.9	3.2	0.15	В
<u> </u>	May-24	18°C	7.66	110	168	9.2	8.0	115	85	30	112	1.3	4.0	140	94	4.5	0.28	0.12	53.11	0.20	0.21	4.1	3.5	0.17	В
_	Jun-24	18°C	7.54	114	173	9.0	8.0	118	87	31	116	1.3	4.0	110	70	9.2	0.29	0.14	55.26	0.20	0.22	4.2	3.4	0.17	В
	Jul-24	20°C	7.93	80	123	9.8	5.0	88	72	16	80	1.3	BDL (<5)	130	79	6.8	0.25	0.12	55.18	0.24	0.25	2.1	2.4	0.10	В
														Yamuna Canal a	t Dakpathar										Designate 12
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
35	Jan-24	19°C	7.96	74	112	10.2	3.0	79	65	14	77	1.0	4.0	79	49	4.5	0.07	0.01	40.43	0.13	0.20	3.2	2.5	0.16	В
	Feb-24	13°C	7.89	80	122	10.0	4.0	86	69	17	84	1.0	4.0	94	49	4.0	0.09	0.03	48.52	0.22	0.15	3.5	2.8	0.16	В

	Mar-24	21°C	7.81	87	133	9.8	5.0	94	72	22	92	1.0	4.0	63	46	4.0	0.13	0.03	40.30	0.26	0.21	3.8	2.9	0.17	В
	Apr-24	24°C	7.93	90	136	9.6	6.0	95	70	25	92	1.0	4.0	79	49	4.0	0.11	0.06	42.93	0.21	0.25	3.3	2.7	0.15	В
	May-24	20°C	7.73	88	134	9.4	7.0	91	68	23	90	1.0	4.0	70	46	4.0	0.15	0.04	46.05	0.19	0.26	3.6	2.9	0.16	В
	Jun-24	18°C	7.70	86	130	9.2	7.0	89	71	18	87	1.0	4.0	94	70	6.8	0.14	0.05	48.12	0.21	0.24	3.8	2.6	0.17	В
	Jul-24	20°C	7.82	60	92	10	4.0	78	66	12	65	BDL (<1)	BDL (<5)	84	63	4	0.16	0.04	48.1	0.15	0.23	2.8	2.5	0.14	В
													Riv	ver Yamuna at Dak	pathar, Dehradun										
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
36	Jan-24	18°C	8.05	81	122	10.4	4.0	85	69	16	83	1.0	4.0	94	63	4.5	0.08	0.02	23.41	0.19	0.16	3.5	2.7	0.16	В
	Feb-24	12°C	7.94	86	130	10.2	5.0	92	72	20	90	1.0	4.0	79	49	4.0	0.06	0.04	29.74	0.23	0.23	3.7	3.0	0.17	В
	Mar-24	20°C	7.88	95	145	10.0	6.0	99	74	25	97	1.0	4.0	84	46	6.1	0.09	0.02	30.63	0.20	0.17	4.0	3.2	0.17	В
	Apr-24	22°C	7.98	99	150	9.8	7.0	101	73	28	96	1.0	4.0	70	46	4.5	0.10	0.04	41.73	0.13	0.23	3.6	3.0	0.16	В
	May-24	19°C	7.80	94	142	9.6	7.0	98	72	26	95	1.0	4.0	94	49	4.0	0.11	0.07	44.52	0.16	0.19	3.8	3.1	0.17	В
	Jun-24	19°C	7.82	96	146	9.4	7.0	100	78	22	98	1.0	4.0	70	49	6.1	0.10	0.08	46.70	0.15	0.20	4.2	3.6	0.18	В
	Jul-24	19°C	7.86	65	97	9.8	5.0	70	62	8	66	BDL (<1)	BDL (<5)	94	49	4	0.12	0.07	46.08	0.20	0.22	2.5	2.9	0.13	В
													R	iver Yamuna at La	khwar, Dehradun							_			
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/I)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
37	Jan-24	19°C	8.13	84	127	10.8	3.0	89	75	14	87	1.0	4.0	<1.8	<1.8	<1.8	0.11	0.06	26.12	0.20	0.15	2.5	2.1	0.11	A
	Feb-24	13°C	7.99	77	117	10.6	4.0	83	66	17	80	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.02	33.96	0.25	0.18	2.8	2.3	0.13	Α
	Mar-24	20°C	7.80	69	105	10.4	5.0	78	58	20	73	1.0	4.0	<1.8	<1.8	<1.8	0.11	0.03	28.11	0.18	0.24	3.0	2.6	0.15	A
	Apr-24	19°C	7.91	76	115	10.2	6.0	82	59	23	78	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.05	32.41	0.26	0.27	2.6	2.1	0.12	A
<u> </u>	May-24	19°C	7.75	82	125	10.0	6.0	86	66	20	84	1.0	4.0	<1.8	<1.8	<1.8	0.12	0.06	33.48	0.20	0.21	2.9	2.3	0.14	A
_	Jun-24	19°C	7.73	84	127	10.0	7.0	89	69	20	88	1.0	4.0	<1.8	<1.8	<1.8	0.15	0.06	35.26	0.21	0.20	3.2	2.6	0.15	A
	Jul-24	19°C	7.95	77	110	10.2	4.0	76	55	21	70	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.13	0.06	35.72	0.22	0.25	4.0	2.7	0.2	Α
	<u> </u>					ı	Chloride	1	Calcium	Magnesium	Alkalinity	ı		River Yamuna at I	·	Fecal Steptococcss	1		Sulphate	1		ı	1		Designated Best use
S.No.	Month	Temp	pH	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	(mg/l)	Hardness (mg/l)	(mg/I)	(mg/l)	(mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	(MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	(mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
38	Jan-24	17°C	8.26	97	148	10.6	4.0	99	82	17	95	1.0	4.0	48	40	2.0	0.09	0.05	40.21	0.23	0.13	2.8	2.5	0.12	A .
	Feb-24	12°C	8.10	92	139	10.4	5.0	96	75	21	94	1.0	4.0	41	34	2.0	0.11	0.01	45.39	0.16	0.16	3.2	2.8	0.14	A
_	Mar-24	22°C	7.93	87	132	10.2	6.0	90	66	24	88	1.0	4.0	47	39	2.0	0.13	0.02	39.08	0.23	0.11	3.5	3.0	0.16	A
_	Apr-24	24°C	8.02	96	146	10.0	6.0	99	72	27	97	1.0	4.0	49	33	2.0	0.11	0.04	43.25	0.21	0.18	3.0	2.6	0.13	A
_	May-24	18°C	7.91	91	139	9.8	7.0	97	73	24	93	1.0	4.0	48	40	2.0	0.15	0.08	46.19	0.28	0.23	3.4	2.9	0.15	A
\vdash	Jun-24	19°C	7.84	105	159	9.6	8.0	101	79	22	98	1.0	4.0	47	39	4.0	0.18	0.08	48.16	0.27	0.20	3.8	2.7	0.16	A
	Jul-24	20°C	7.88	80	125	10.4	5.0	85	62	23	75	BDL (<1)	BDL (<5)	48	41	6.1	0.18	0.08	50.08	0.25	0.26	3.8	2.6	0.18	A
	t	T-1			ma / 61	I	Chloride	l., , , ,	Calcium	Magnesium	Alkalinity			1	amuna at Dakpath	Fecal Steptococcss			Sulphate			L			Designated Best use
S.No.	Month	Temp	pH		EC (μS/cm)	DO (mg/l)	(mg/l)	Hardness (mg/l)	(mg/I)	(mg/l)	(mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	(MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	(mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR 0.15	(DBU) Water Quality
39	Jan-24	18°C	7.75	75	114	10.4	3.0	81	65	16	78	1.0	4.0	47	39	<1.8	0.12	0.04	43.83	0.19	0.12	3.1	2.3	0.15	Α

	Feb-24	12°C	7.86	83	125	10.2	4.0	90	71	19	87	1.0	4.0	48	41	<1.8	0.07	0.03	50.11	0.22	0.24	3.3	2.6	0.15	A
Н	Mar-24	22°C	7.98	91	138	9.8	5.0	96	74	22	94	1.1	4.0	47	40	<1.8	0.09	0.04	45.30	0.19	0.20	3.7	2.9	0.16	A
Н	Apr-24	24°C	7.79	84	127	9.6	5.0	88	64	24	86	1.1	4.0	48	41	<1.8	0.09	0.01	47.62	0.26	0.25	3.4	2.5	0.16	A
Н	May-24	18°C	7.60	89	135	9.2	6.0	94	68	26	91	1.2	4.0	47	40	<1.8	0.10	0.03	50.63	0.26	0.28	3.7	2.7	0.17	A
Н	Jun-24	18°C	7.58	92	140	9.0	7.0	98	74	24	96	1.2	4.0	49	33	<1.8	0.11	0.04	52.46	0.25	0.30	4.1	2.8	0.18	A
Н	Jul-24	20°C	7.91	82	128	10.2	4.0	70	61	9	55	1.2	BDL (<5)	47	40	<1.8	0.12	0.03	52.19	0.23	0.23	3.6	2.9	0.19	A
												<u> </u>		River Tons at Sela	qui, Dehradun										
S.No.	Month	Temp	рН	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 Steptococcss (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
40	Jan-24	18°C	7.93	180	271	7.0	10.0	242	220	22	210	2.3	8.0	350	240	70	0.16	0.09	128.67	0.26	0.20	7.5	2.6	0.21	В
	Feb-24	12°C	7.79	191	288	6.8	11.0	260	233	27	235	2.4	8.0	430	350	94	0.23	0.04	136.46	0.13	0.29	7.9	3.0	0.21	В
	Mar-24	22°C	7.90	199	298	6.6	12.0	272	240	32	248	2.7	9.0	430	280	110	0.18	0.06	128.13	0.16	0.24	7.6	3.4	0.20	В
	Apr-24	20°C	7.71	180	271	6.4	13.0	239	203	36	215	2.8	9.0	430	350	140	0.22	0.11	130.42	0.20	0.28	7.9	3.6	0.22	В
	May-24	21°C	7.98	196	295	6.2	14.0	251	210	41	223	2.9	9.0	350	280	110	0.26	0.09	145.62	0.24	0.33	8.3	3.8	0.23	В
	Jun-24	18°C	7.96	194	293	6.4	13.0	257	207	50	218	2.8	9.0	350	220	110	0.30	0.10	147.11	0.25	0.30	9.0	3.6	0.24	В
	Jul-24	20°C	7.82	190	283	6	10.0	260	228	32	228	2.8	9.0	430	350	94	0.24	0.09	134.63	0.20	0.29	15.4	3.5	0.41	В
													River	Rispana U/S at Sh	ikhar Fall, Dehradu	n							<u> </u>		
S.No.	Month	Temp	pН	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/I)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (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
41	Jan-24	16°C	7.78	149	225	8.6	6.0	157	132	25	152	1.0	4.0	70	33	<1.8	0.13	0.02	150.19	0.18	0.26	9.0	2.1	0.31	В
	Feb-24	18°C	7.91	160	242	8.4	7.0	171	142	29	165	1.0	4.0	63	46	<1.8	0.15	0.04	148.79	0.24	0.34	8.7	2.6	0.29	В
	Mar-24	16°C	7.70	147	222	8.6	7.0	156	125	31	151	1.0	4.0	70	49	<1.8	0.10	0.02	140.30	0.20	0.26	8.3	2.8	0.29	В
	Apr-24	18°C	7.55	136	205	8.4	8.0	143	109	34	139	1.1	4.0	84	46	<1.8	0.18	0.08	146.71	0.25	0.32	8.0	3.0	0.29	В
	May-24	19°C	7.72	148	224	8.2	9.0	157	119	38	152	1.2	4.0	94	49	<1.8	0.20	0.07	155.85	0.28	0.28	7.7	3.2	0.27	В
	Jun-24	19°C	7.70	140	211	8.4	9.0	124	105	19	135	1.2	4.0	140	110	12	0.20	0.06	152.97	0.28	0.26	7.2	3.0	0.28	В
	Jul-24	19°C	7.60	165	250	8.2	6.0	168	125	43	153	1.2	BDL (<5)	110	94	6.1	0.25	0.07	142.85	0.23	0.25	6.3	2.5	0.21	В
													Rive	er Rispana D/S Nea	r IT Park, Dehradur	1									
S.No.	Month	Temp	pН	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 Steptococcss (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
42	Jan-24													River was dry.											
	Feb-24													River was dry.											
	Mar-24													River was dry.											
	Apr-24													River was dry.											
	May-24													River was dry.											
Щ	Jun-24													River was dry.											
Ш	Jul-24	19°C	7.82	263	402	6.6	13.0	205	148	57	187	2.6	9	170	110	9.3	0.35	0.12	149.05	0.27	0.33	11.2	4.1	0.34	В
													River Ris	spana B/C to River	Bindal at Mothoro	wala									
S.No.	Month	Temp	рН	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 Steptococcss (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

43	Jan-24	17°C	7.35	281	422	2.4	32.0	295	233	62	266	28.0	100.0	17×10 ²	14×10 ²	540	0.26	0.09	112.40	0.17	0.28	28.5	8.0	0.72	E
	Feb-24	18°C	7.52	295	445	2.2	34.0	306	239	67	282	29.0	100.0	14×10 ²	11×10 ²	540	0.32	0.02	113.5	0.14	0.23	29.2	8.3	0.72	Е
	Mar-24	18°C	7.43	280	421	2.4	32.0	294	223	71	285	28.0	90.0	17×10 ²	14×10 ²	920	0.27	0.03	110.10	0.11	0.18	29.9	8.5	0.76	Е
	Apr-24	19°C	7.30	296	446	2.2	33.0	305	229	76	299	29.0	90.0	22×10 ²	13×10 ²	920	0.30	0.06	127.41	0.19	0.38	30.7	9.0	0.76	Е
	May-24	28°C	7.47	310	467	2.0	34.0	321	239	82	315	30.0	100.0	21×10 ²	14×10 ²	920	0.36	0.08	129.85	0.23	0.31	30.1	8.6	0.73	E
	Jun-24	22°C	7.42	300	452	2.2	34.0	320	260	60	310	30.0	110.0	22×10 ²	14×10 ²	920	0.36	0.07	128.75	0.23	0.31	29.8	7.9	0.72	Е
	Jul-24	22°C	7.28	255	396	2.4	28.0	270	206	64	240	30.0	110.0	28×10 ²	17×10²	1600	0.32	0.08	122.08	0.26	0.28	21.8	6.5	0.58	Е
													River	Bindal U/S at Bind	al Bridge, Dehradu	1									
S.No.	Month	Temp	pН	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 Steptococcss (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
44	Jan-24	18°C	7.24	289	435	1.2	43.0	304	245	59	294	50.0	150.0	1600	920	430	0.25	0.09	132.10	0.16	0.26	44.6	14.7	1.11	E
	Feb-24	19°C	7.38	306	460	1.0	45.0	325	255	70	314	52.0	160.0	1600	920	540	0.28	0.04	140.65	0.19	0.20	50.0	14.9	1.20	Е
	Mar-24	18°C	7.19	292	439	1.2	44.0	306	230	76	298	51.0	160.0	1600	920	430	0.24	0.06	129.42	0.13	0.17	50.6	14.6	1.25	E
	Apr-24	22°C	7.38	312	468	1.0	45.0	323	243	80	318	52.0	170.0	1600	920	350	0.28	0.15	133.41	0.18	0.33	49.9	14.1	1.20	Е
<u> </u>	May-24	26°C	7.52	331	497	0.8	46.0	344	256	88	337	53.0	180.0	1600	920	540	0.33	0.12	135.96	0.26	0.28	50.4	13.9	1.18	Е
<u> </u>	Jun-24	24°C	7.56	326	490	1.0	45.0	380	300	80	368	51.0	170.0	22×10 ²	14×10 ²	920	0.33	0.10	136.90	0.29	0.28	51.2	14.2	1.14	Е
	Jul-24	24°C	7.73	253	391	1.4	40.0	276	216	60	268	51.0	170.0	22×10 ²	14×10²	920	0.38	0.12	125.63	0.28	0.33	42.7	14.8	1.11	E
													River I	Bindal D/S Near Ka	rgi Chowk, Dehradı					•					Designated Best use
S.No.	Month	Temp	pН	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 Steptococcss (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	(DBU) Water Quality
45	Jan-24	15°C	7.11	317	477	1.6	32.0	331	265	66	323	46.0	140.0	22×10 ²	13×10 ²	920	0.30	0.12	132.72	0.18	0.25	42.9	17.1	1.02	Е
<u> </u>	Feb-24	18°C	7.23	337	506	1.4	34.0	357	278	79	346	48.0	150.0	21×10 ²	17×10 ²	920	0.35	0.09	129.44	0.14	0.21	43.7	17.6	1.00	Е
<u> </u>	Mar-24	17°C	7.36	320	482	1.6	33.0	335	254	81	326	47.0	150.0	14×10 ²	11×10 ²	540	0.33	0.03	135.60	0.18	0.14	44.5	17.1	1.05	Е
<u> </u>	Apr-24	22°C	7.51	346	520	1.4	34.0	357	271	86	350	48.0	160.0	17×10 ²	11×10 ²	540	0.29	0.13	140.63	0.23	0.42	43.7	16.6	1.00	Е
<u> </u>							36.0		279	93					020				142 12	0.20				1 00	E
	May-24	27°C	7.67	362	545	1.0		372			366	50.0	170.0	1600	920	350	0.41	0.11	143.12	0.28	0.32	44.5	15.8	1.00	
<u> </u>	Jun-24	23°C	7.62	365	549	1.2	35.0	370	272	98	362	48.0	160.0	13×10 ²	920	540	0.40	0.10	140.92	0.30	0.28	40.1	14.9	0.90	Е
													160.0 160.0	13×10 ² 22×10 ²	920 17×10 ²	540 920		-	_			_			
	Jun-24	23°C	7.62 7.25	365 280	549 422	1.2	35.0 35.0	370 310	272	98 67	362 290	48.0	160.0 160.0 River Bindal B	13×10 ² 22×10 ² /C to River Rispana	920 17×10 ² a at Mothorowala,	540 920 Dehradun	0.40	0.10	140.92 130.85	0.30	0.28	40.1	14.9	0.90	E E
S.No.	Jun-24 Jul-24 Month	23°C 23°C	7.62 7.25	365 280 TDS (mg/l)	549 422 EC (μS/cm)	1.2 1.2 DO (mg/l)	35.0 35.0 Chloride (mg/l)	370 310 Hardness (mg/l)	272 243	98 67 Magnesium (mg/l)	362 290 Alkalinity (mg/l)	48.0 48.0 BOD (mg/l)	160.0 160.0 River Bindal B	13×10 ² 22×10 ² 5/C to River Rispana TC (MPN/100 ml)	920 17×10 ² a at Mothorowala, I	540 920 Dehradun Fecal Steptococcss (MPN/100 ml)	0.40 0.37 Nitrate-N (mg/l)	0.10 0.11 Nitrite-N (mg/l)	140.92 130.85 Sulphate (mg/l)	0.30 0.28 Phosphate (mg/l)	0.28 0.25	40.1 39.3 Sodium (mg/l)	14.9 22.5	0.90 0.97	E E Designated Best use (DBU) Water Quality
s.No.	Jul-24 Month Jan-24	23°C 23°C Temp	7.62 7.25 pH 7.40	365 280 TDS (mg/l) 338	549 422 EC (μs/cm) 507	1.2 1.2 Do (mg/l)	35.0 35.0 Chloride (mg/l) 30.0	370 310 Hardness (mg/l) 349	272 243 Calcium (mg/l) 288	98 67 Magnesium (mg/l) 61	362 290 Alkalinity (mg/l) 308	48.0 48.0 BOD (mg/l) 28.0	160.0 160.0 River Bindal B COD (mg/l) 110.0	13×10 ² 22×10 ² //C to River Rispana TC (MPN/100 ml) 22×10 ²	920 17×10 ² a at Mothorowala, FC (MPN/100 ml) 17×10 ²	540 920 Dehradun Fecal Steptococcss (MPN/100 ml) 920	0.40 0.37 Nitrate-N (mg/l) 0.33	0.10 0.11 Nitrite-N (mg/l) 0.13	140.92 130.85 Sulphate (mg/l) 120.11	0.30 0.28 Phosphate (mg/l) 0.21	0.28 0.25 Fluoride (mg/l) 0.29	40.1 39.3 Sodium (mg/l) 20.2	14.9 22.5 Potassium (mg/l) 6.6	0.90 0.97 SAR 0.47	E Designated Best use (DBU) Water Quality E
<u> </u>	Jun-24 Jul-24 Month Jan-24 Feb-24	23°C 23°C Temp 16°C	7.62 7.25 pH 7.40 7.61	365 280 TDS (mg/l) 338 361	549 422 EC (μS/cm) 507 543	1.2 1.2 Do (mg/l) 2.0	35.0 35.0 Chloride (mg/l) 30.0	370 310 Hardness (mg/l) 349 380	272 243 Calcium (mg/l) 288 308	98 67 Magnesium (mg/l) 61	362 290 Alkalinity (mg/l) 308 365	48.0 48.0 BOD (mg/l) 28.0 30.0	160.0 160.0 River Bindal B coo (mg/l) 110.0 120.0	13×10 ² 22×10 ² I/C to River Rispana TC (MPN/100 ml) 22×10 ² 21×10 ²	920 17×10^{2} a at Mothorowala, I $FC \text{ (MPN/100 ml)}$ 17×10^{2} 11×10^{2}	540 920 Dehradun Fecal Steptococcss (MPR/100 ml) 920 920	0.40 0.37 Nitrate-N (mg/l) 0.33 0.29	0.10 0.11 Nitrite-N (mg/l) 0.13 0.08	140.92 130.85 Sulphate (mg/l) 120.11	0.30 0.28 Phosphate (mg/l) 0.21 0.16	0.28 0.25 Fluoride (mg/l) 0.29 0.24	40.1 39.3 Sodium (mg/l) 20.2 20.9	14.9 22.5 Potassium (mg/l) 6.6 7.0	0.90 0.97 SAR 0.47	E Designated Best use (DBU) Water Quality E
<u> </u>	Jun-24 Jul-24 Month Jan-24 Feb-24 Mar-24	23°C 23°C Temp 16°C 18°C	7.62 7.25 pH 7.40 7.61 7.50	365 280 TDS (mg/l) 338 361 341	549 422 EC (µs/cm) 507 543 513	1.2 1.2 DO (mg/l) 2.0 1.6 1.8	35.0 35.0 Chloride (mg/l) 30.0 33.0	370 310 Hardness (mg/l) 349 380 355	272 243 Calcium (mg/l) 288 308 277	98 67 Magnesium (mg/l) 61 72	362 290 Alkalinity (mg/l) 308 365 346	48.0 48.0 800 (mg/l) 28.0 30.0 29.0	160.0 160.0 River Bindal B COD (mg/l) 110.0 120.0 110.0	13×10 ² 22×10 ² //C to River Rispana TC (MPN/100 ml) 22×10 ² 21×10 ² 21×10 ²	920 17×10 ² a at Mothorowala, FC (MPN/100 ml) 17×10 ² 11×10 ² 14×10 ²	540 920 Dehradun Fecal Steptococcss (MPN/100 ml) 920 920 920	0.40 0.37 Nitrate-N (mg/l) 0.33 0.29 0.35	0.10 0.11 Nitrite-N (mg/l) 0.13 0.08 0.03	140.92 130.85 Sulphate (mg/l) 120.11 132.28 140.78	0.30 0.28 Phosphate (mg/l) 0.21 0.16 0.19	0.28 0.25 Fluoride (mg/l) 0.29 0.24 0.16	40.1 39.3 Sodium (mg/l) 20.2 20.9 22.1	14.9 22.5 Potassium (mg/l) 6.6 7.0 7.6	0.90 0.97 SAR 0.47 0.47	E E Designated Best use (DBU) Water Quality E E E
<u> </u>	Jun-24 Jul-24 Month Jan-24 Feb-24 Mar-24 Apr-24	23°C 23°C Temp 16°C 18°C 17°C 21°C	7.62 7.25 pH 7.40 7.61 7.50	365 280 TDS (mg/l) 338 361 341 370	549 422 EC (µs/cm) 507 543 513	1.2 1.2 DO (mg/l) 2.0 1.6 1.8	35.0 35.0 Chloride (mg/l) 30.0 33.0 32.0 33.0	370 310 Hardness (mg/l) 349 380 355 378	272 243 Calcium (mg/l) 288 308 277 296	98 67 Magnesium (mg/l) 61 72 78 82	362 290 Alkalinity (mg/l) 308 365 346 372	48.0 48.0 800 (mg/l) 28.0 30.0 29.0 30.0	160.0 160.0 River Bindal B coo (mg/l) 110.0 120.0 110.0	13×10^{2} 22×10^{2} //C to River Rispana $TC (MPN/100 ml)$ 22×10^{2} 21×10^{2} 21×10^{2} 21×10^{2}	920 17×10^2 a at Mothorowala, FC (MPN/100 ml) 17×10^2 11×10^2 14×10^2 17×10^2	540 920 Dehradun Fecal Steptococcss (MPR/100 ml) 920 920 920 920 920	0.40 0.37 Nitrate-N (mg/l) 0.33 0.29 0.35	0.10 0.11 Nitrite-N (mg/l) 0.13 0.08 0.03	140.92 130.85 Sulphate (mg/l) 120.11 132.28 140.78	0.30 0.28 Phosphate (mg/l) 0.21 0.16 0.19 0.23	0.28 0.25 Fluoride (mg/l) 0.29 0.24 0.16 0.28	40.1 39.3 Sodium (mg/l) 20.2 20.9 22.1 21.5	14.9 22.5 Potassium (mg/l) 6.6 7.0 7.6 7.1	0.90 0.97 SAR 0.47 0.47 0.51	E E Designated Best use (DBU) Water Quality E E E E
<u> </u>	Jun-24 Jul-24 Month Jan-24 Feb-24 Mar-24 Apr-24 May-24	23°C 23°C Temp 16°C 18°C 17°C 21°C 29°C	7.62 7.25 pH 7.40 7.61 7.50 7.65 7.85	365 280 TDS (mg/l) 338 361 341 370 389	549 422 EC (µS/cm) 507 543 513 556 585	1.2 1.2 DO (mg/l) 2.0 1.6 1.8 1.6	35.0 35.0 35.0 Chloride (mg/l) 30.0 33.0 32.0 33.0	370 310 Hardness (mg/l) 349 380 355 378 395	272 243 Calcium (mg/l) 288 308 277 296 308	98 67 Magnesium (mg/) 61 72 78 82 87	362 290 Alkalinity (mg/l) 308 365 346 372 391	48.0 48.0 800 (mg/l) 28.0 30.0 29.0 30.0 32.0	160.0 160.0 River Bindal B COD (mg/l) 110.0 120.0 110.0 120.0 130.0	$\begin{array}{c} 13\times10^{2} \\ 22\times10^{2} \\ \text{J/C to River Rispana} \\ \text{TC (MPN/100 mI)} \\ 22\times10^{2} \\ 21\times10^{2} \\ 21\times10^{2} \\ 21\times10^{2} \\ 17\times10^{2} \\ \end{array}$	920 17×10 ² 10 at Mothorowala, 10 FC (MPN/100 ml) 17×10 ² 11×10 ² 14×10 ² 11×10 ²	540 920 Dehradun Fecal Steptococcss (MPN/100 ml) 920 920 920 920 920 920	0.40 0.37 Nitrate-N (mg/l) 0.33 0.29 0.35 0.38	0.10 0.11 Nitrite-N (mg/l) 0.13 0.08 0.03 0.16 0.12	140.92 130.85 Sulphate (mg/l) 120.11 132.28 140.78 145.79	0.30 0.28 Phosphate (mg/l) 0.21 0.16 0.19 0.23 0.31	0.28 0.25 Fluoride (mg/l) 0.29 0.24 0.16 0.28 0.31	40.1 39.3 Sodium (mg/l) 20.2 20.9 22.1 21.5 22.7	14.9 22.5 Potassium (mg/I) 6.6 7.0 7.6 7.1 7.6	0.90 0.97 SAR 0.47 0.47 0.51 0.48	E E Designated Best use (DBU) Water Quality E E E E
<u> </u>	Jun-24 Jul-24 Month Jan-24 Feb-24 Mar-24 Apr-24 Jun-24	23°C 23°C Temp 16°C 18°C 17°C 21°C 29°C 22°C	7.62 7.25 PH 7.40 7.61 7.50 7.65 7.85	365 280 TDS (mg/l) 338 361 341 370 389 386	549 422 EC (µs/cm) 507 543 513 556 585	1.2 1.2 DO (mg/1) 2.0 1.6 1.8 1.6 1.2	35.0 35.0 35.0 Chloride (mg/l) 30.0 33.0 32.0 33.0 35.0 40.0	370 310 Hardness (mg/l) 349 380 355 378 395	272 243 Calcium (mg/l) 288 308 277 296 308 300	98 67 Magnesium (mg/l) 61 72 78 82 87 90	362 290 Alkalinity (mg/l) 308 365 346 372 391	48.0 48.0 800 (mg/l) 28.0 30.0 29.0 30.0 32.0 30.0	160.0 160.0 River Bindal B cod (mg/l) 110.0 120.0 110.0 120.0 130.0 120.0	$\begin{array}{c} 13\times10^2 \\ 22\times10^2 \\ \text{/C to River Rispans} \\ \text{TC (MPN/100 ml)} \\ 22\times10^2 \\ 21\times10^2 \\ 21\times10^2 \\ 21\times10^2 \\ 17\times10^2 \\ 17\times10^2 \\ \end{array}$	920 17×10^{2} a at Mothorowala, $FC (MPN/100 ml)$ 17×10^{2} 11×10^{2} 14×10^{2} 17×10^{2} 11×10^{2} 11×10^{2}	540 920 Dehradun Fecal Steptococcss (MPN/100 ml) 920 920 920 920 920 920 920	0.40 0.37 Nitrate-N (mg/l) 0.33 0.29 0.35 0.38 0.48	0.10 0.11 Nitrite-N (mg/l) 0.13 0.08 0.03 0.16 0.12 0.09	140.92 130.85 Sulphate (mg/l) 120.11 132.28 140.78 145.79 147.83 65.53	0.30 0.28 Phosphate (mg/l) 0.21 0.16 0.19 0.23 0.31 0.27	0.28 0.25 Fluoride (mg/l) 0.29 0.24 0.16 0.28 0.31 0.26	40.1 39.3 sodium (mg/l) 20.2 20.9 22.1 21.5 22.7 20.6	14.9 22.5 Potassium (mg/l) 6.6 7.0 7.6 7.1 7.6 7.2	0.90 0.97 SAR 0.47 0.47 0.51 0.48 0.50	E E Designated Best use (DBU) Water Quality E E E E E E
<u> </u>	Jun-24 Jul-24 Month Jan-24 Feb-24 Mar-24 Apr-24 May-24	23°C 23°C Temp 16°C 18°C 17°C 21°C 29°C	7.62 7.25 pH 7.40 7.61 7.50 7.65 7.85	365 280 TDS (mg/l) 338 361 341 370 389	549 422 EC (µS/cm) 507 543 513 556 585	1.2 1.2 DO (mg/l) 2.0 1.6 1.8 1.6	35.0 35.0 35.0 Chloride (mg/l) 30.0 33.0 32.0 33.0	370 310 Hardness (mg/l) 349 380 355 378 395	272 243 Calcium (mg/l) 288 308 277 296 308	98 67 Magnesium (mg/) 61 72 78 82 87	362 290 Alkalinity (mg/l) 308 365 346 372 391	48.0 48.0 800 (mg/l) 28.0 30.0 29.0 30.0 32.0	160.0 160.0 River Bindal B coD(mg/l) 110.0 120.0 110.0 120.0 130.0 120.0 110.0	$\begin{array}{c} 13\times10^2 \\ 22\times10^2 \\ \text{/C to River Rispana} \\ \text{TC (MPN/100 ml)} \\ 22\times10^2 \\ 21\times10^2 \\ 21\times10^2 \\ 21\times10^2 \\ 17\times10^2 \\ 17\times10^2 \\ 21\times10^2 \\ 21\times10^2 \\ 17\times10^2 \\ 21\times10^2 \\ \end{array}$	920 17×10^{2} at Mothorowala, $\mathbf{FC} (\mathbf{MPN}/100\ \mathbf{m})$ 17×10^{2} 11×10^{2} 14×10^{2} 17×10^{2} 11×10^{2} 11×10^{2} 11×10^{2} 11×10^{2} 17×10^{2}	540 920 Dehradun Fecal Steptococcss (MPN/100 ml) 920 920 920 920 920 920	0.40 0.37 Nitrate-N (mg/l) 0.33 0.29 0.35 0.38	0.10 0.11 Nitrite-N (mg/l) 0.13 0.08 0.03 0.16 0.12	140.92 130.85 Sulphate (mg/l) 120.11 132.28 140.78 145.79	0.30 0.28 Phosphate (mg/l) 0.21 0.16 0.19 0.23 0.31	0.28 0.25 Fluoride (mg/l) 0.29 0.24 0.16 0.28 0.31	40.1 39.3 Sodium (mg/l) 20.2 20.9 22.1 21.5 22.7	14.9 22.5 Potassium (mg/I) 6.6 7.0 7.6 7.1 7.6	0.90 0.97 SAR 0.47 0.47 0.51 0.48	E E Designated Best use (DBU) Water Quality E E E E
<u> </u>	Jun-24 Jul-24 Month Jan-24 Feb-24 Mar-24 Apr-24 Jun-24	23°C 23°C Temp 16°C 18°C 17°C 21°C 29°C 22°C	7.62 7.25 PH 7.40 7.61 7.50 7.65 7.85	365 280 TDS (mg/l) 338 361 341 370 389 386 295	549 422 EC (µs/cm) 507 543 513 556 585	1.2 1.2 DO (mg/1) 2.0 1.6 1.8 1.6 1.2	35.0 35.0 35.0 Chloride (mg/l) 30.0 33.0 32.0 33.0 35.0 40.0	370 310 Hardness (mg/l) 349 380 355 378 395	272 243 Calcium (mg/l) 288 308 277 296 308 300	98 67 Magnesium (mg/l) 61 72 78 82 87 90	362 290 Alkalinity (mg/l) 308 365 346 372 391	48.0 48.0 800 (mg/l) 28.0 30.0 29.0 30.0 32.0 30.0	160.0 160.0 River Bindal B coD(mg/l) 110.0 120.0 110.0 120.0 130.0 120.0 110.0	$\begin{array}{c} 13\times10^2 \\ 22\times10^2 \\ \text{/C to River Rispans} \\ \text{TC (MPN/100 ml)} \\ 22\times10^2 \\ 21\times10^2 \\ 21\times10^2 \\ 21\times10^2 \\ 17\times10^2 \\ 17\times10^2 \\ \end{array}$	920 17×10^{2} at Mothorowala, $\mathbf{FC} (\mathbf{MPN}/100\ \mathbf{m})$ 17×10^{2} 11×10^{2} 14×10^{2} 17×10^{2} 11×10^{2} 11×10^{2} 11×10^{2} 11×10^{2} 17×10^{2}	540 920 Dehradun Fecal Steptococcss (MPN/100 ml) 920 920 920 920 920 920 920	0.40 0.37 Nitrate-N (mg/l) 0.33 0.29 0.35 0.38 0.48	0.10 0.11 Nitrite-N (mg/l) 0.13 0.08 0.03 0.16 0.12 0.09	140.92 130.85 Sulphate (mg/l) 120.11 132.28 140.78 145.79 147.83 65.53	0.30 0.28 Phosphate (mg/l) 0.21 0.16 0.19 0.23 0.31 0.27	0.28 0.25 Fluoride (mg/l) 0.29 0.24 0.16 0.28 0.31 0.26	40.1 39.3 sodium (mg/l) 20.2 20.9 22.1 21.5 22.7 20.6	14.9 22.5 Potassium (mg/l) 6.6 7.0 7.6 7.1 7.6 7.2	0.90 0.97 SAR 0.47 0.47 0.51 0.48 0.50	E E Designated Best use (DBU) Water Quality E E E E E E

	. 24	100C	7.62	60	104	0.6	2.0	(2)	50	10	(5	1.0	4.0	-1.0	-1.0	.1.0	0.15	0.05	45.16	0.12	0.17	2.6	2.2	0.14	
47	Jan-24	19°C	7.63	69	104	9.6	3.0	62	52	10	65	1.0	4.0	<1.8	<1.8	<1.8	0.15	0.05	45.16	0.13	0.17	2.6	2.3	0.14	A .
	Feb-24	13°C	7.79	76	115	9.4	4.0	67	59	08	70	1.0	4.0	<1.8	<1.8	<1.8	0.19	0.02	52.19	0.17	0.28	2.9	2.5	0.15	A
\vdash	Mar-24	20°C	7.88	83	125	9.2	5.0	78	67	11	79	1.0	4.0	<1.8	<1.8	<1.8	0.20	0.05	60.44	0.13	0.23	3.2	2.7	0.16	A
\vdash	Apr-24	22°C	7.69	90	136	9.0	6.0	82	69	13	80	1.0	4.0	<1.8	<1.8	<1.8	0.27	0.11	68.74	0.22	0.34	3.0	2.3	0.14	A
\vdash	May-24	19°C	7.55	79	120	8.8	7.0	73	58	15	71	1.0	4.0	<1.8	<1.8	<1.8	0.18	0.09	67.53	0.27	0.28	3.4	2.5	0.17	Α
\vdash	Jun-24	18°C	7.66	76	115	8.6	7.0	78	62	16	77	1.0	4.0	<1.8	<1.8	<1.8	0.17	0.10	65.92	0.28	0.29	3.7	2.8	0.18	A
	Jul-24	19°C	7.37	86	126	8.8	5.0	60	43	17	52	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.15	0.09	70.58	0.23	0.32	3.3	2.5	0.18	A
	•												River Ganga ca	nal D/S at Har ki P	auri, Rishikul Bridge	e, Haridwar	•								
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/I)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
48	Jan-24	15°C	8.30	149	234	9.1	10.0	129	60	69	118	1.4	8.0	110	79	14	0.35	0.12	26.29	0.19	0.35	3.5	1.6	0.13	В
	Feb-24	17.1°C	8.00	120	188	9.6	7.0	134	55	79	110	1.2	7.0	170	94	11	0.60	0.14	25.28	0.20	0.30	3.7	5.4	0.14	В
	Mar-24	18.5°C	7.60	193	302	8.6	7.0	114	55	59	118	1.2	6.0	150	70	9.3	0.51	0.13	35.68	0.49	0.48	7.7	5.9	0.31	В
	Apr-24	20.9°C	7.50	180	281	9.0	9.0	120	50	70	149	2.0	10.0	130	79	6.8	0.45	0.11	29.37	0.16	0.38	16.5	5.9	0.65	В
	May-24	21.9°C	7.40	162	254	8.4	8.0	111	52	59	132	1.6	12.0	120	94	4.5	0.46	0.28	33.31	0.66	0.68	11.5	7.9	0.47	В
	Jun-24	21.8°C	7.08	140	219	8.0	8.0	114	26	88	75	2.0	11.0	120	94	9.2	0.60	0.14	25.73	0.57	0.37	10.9	5.6	0.44	В
	Jul-24	21.5°C	7.41	243	380	7.4	4.0	113	51	62	126	2.2	10.0	120	94	9.2	0.56	0.24	34.69	0.77	0.77	12.9	9.2	0.52	В
													Ri	ver Ganga at Har K	i Pouri, Haridwar										
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
49	Jan-24	15.9°C	7.90	182	285	9.6	7.0	110	49	61	107	1.2	6.0	120	70	9.2	0.49	0.15	30.29	0.29	0.48	3.3	1.7	0.14	В
	Feb-24	16.5°C	8.20	150	234	9.8	6.0	112	40	72	105	1.0	7.0	110	79	14	0.45	0.15	21.32	0.17	0.50	3.7	2.2	0.15	В
	Mar-24	19.2°C	7.70	192	301	8.8	5.0	109	45	64	120	1.2	7.0	120	94	11	0.45	0.13	31.39	0.47	0.55	6.7	4.9	0.28	В
	Apr-24	22°C	8.10	110	172	9.1	7.0	118	49	69	132	1.0	6.0	110	70	7.8	0.35	0.13	20.16	0.15	0.55	4.2	2.2	0.17	В
	May-24	21.4°C	7.30	169	264	8.6	6.0	112	49	63	128	1.4	8.0	150	94	7.8	0.38	0.23	32.38	0.55	0.68	8.7	5.2	0.36	В
	Jun-24	23°C	7.05	210	328	7.2	7.0	112	31	81	70	2.2	10.0	140	94	14	0.42	0.15	25.81	0.54	0.52	7.8	3.2	0.32	В
	Jul-24	21.7°C	7.46	243	380	7.6	4.0	108	53	55	110	2.4	10.0	140	94	14	0.49	0.25	39.66	0.74	0.62	13	7.6	0.54	В
													River Gan	ga D/S at Bisanpu	r Kundi Village, Har	idwar									
S.No.	Month	Temp	рН	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 Steptococcss (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/I)	SAR	Designated Best use (DBU) Water Quality Criteria
50	Jan-24	23.2°C	7.60	192	301	8.8	8.0	118	57	61	104	1.6	9.0	130	79	9.2	0.39	0.16	34.59	0.34	0.56	4.7	2.1	0.19	В
	Feb-24	18°C	7.50	170	266	9.0	8.0	130	49	81	100	1.4	10.0	120	94	11	0.45	0.11	32.12	0.45	0.66	4.2	4.1	0.16	В
	Mar-24	19.6°C	7.80	201	315	8.8	7.0	119	52	67	129	1.6	10.0	110	79	14	0.55	0.16	33.72	0.65	0.64	9.2	6.9	0.37	В
	Apr-24	22°C	7.60	200	313	8.6	9.0	116	50	66	127	2.0	12.0	120	94	11	0.55	0.19	30.14	0.44	0.53	47.0	19.0	1.89	В
	May-24	21.6°C	7.40	179	280	8.2	10.0	115	50	65	137	2.2	14.0	110	79	6.8	0.56	0.34	32.22	0.64	0.63	12.9	9.9	0.52	В
	Jun-24	22.6°C	6.96	150	234	7.4	10.0	134	46	88	94	2.2	12.0	110	79	14	0.45	0.18	36.35	0.58	0.65	13.1	4.4	0.49	В
	Jul-24	22.6	7.62	245	384	7.6	5.0	127	59	68	133	2.4	14.0	110	79	14	0.49	0.28	36.45	0.68	0.75	10.9	7.6	0.41	В
													River G	anga Canal at Lal T	a Rao Bridge, Harid	war									

S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
51	Jan-24	15.7°C	8.30	227	355	9.1	9.0	105	45	60	97	1.2	8.0	120	70	9.2	0.40	0.09	25.38	0.34	0.56	3.5	1.6	0.15	В
	Feb-24	17°C	7.90	210	328	9.6	9.0	108	40	68	90	1.4	9.0	130	79	7.8	0.49	0.13	24.56	0.30	0.45	3.6	3.1	0.15	В
	Mar-24	18.8°C	7.40	197	309	8.8	6.0	112	54	58	122	1.4	7.0	170	94	9.2	0.49	0.12	34.56	0.42	0.54	6.9	5.1	0.28	В
	Apr-24	21.6°C	7.20	110	172	8.9	9.0	112	50	62	136	1.8	9.0	140	79	11	0.56	0.15	35.67	0.33	0.42	5.3	3.8	0.22	В
	May-24	21.6°C	7.20	163	255	8.2	8.0	112	51	61	130	1.4	9.0	120	94	12	0.46	0.29	33.97	0.53	0.62	8.9	5.8	0.36	В
	Jun-24	22.5°C	7.02	200	313	7.4	8.0	110	28	82	80	2.2	9.0	130	79	12	0.49	0.10	24.26	0.59	0.45	8.8	3.1	0.36	В
	Jul-24	21.6°C	7.45	243	381	7.6	5.0	112	54	58	122	2.4	11.0	130	79	12	0.51	0.23	35.96	0.69	0.75	13.7	9.1	0.56	В
			_										Rive	er Ganga Canal at I	Damkothi, Haridwai										
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
52	Jan-24	16.1°C	8.10	192	301	8.8	8.0	118	52	66	110	1.2	7.0	94	63	6.1	0.36	0.12	26.87	0.21	0.49	3.3	1.4	0.13	В
	Feb-24	16.9°C	7.80	200	313	9.4	9.0	110	50	60	100	1.2	8.0	94	70	4.0	0.52	0.14	23.37	0.15	0.41	3.3	5.2	0.14	В
	Mar-24	19°C	7.80	195	306	8.4	6.0	110	52	58	98	1.4	8.0	84	63	4.0	0.44	0.14	33.39	0.45	0.51	7.3	5.5	0.30	В
	Apr-24	21.3°C	7.50	120	188	8.8	9.0	116	49	67	134	1.2	9.0	94	70	6.8	0.22	0.14	20.61	0.18	0.41	12.9	4.7	0.52	В
	May-24	21.6°C	7.40	161	253	8.2	7.0	116	52	64	139	1.4	10.0	110	79	6.1	0.45	0.24	31.47	0.58	0.65	9.2	6.7	0.37	В
	Jun-24	22.3°C	7.05	190	297	7.6	9.0	110	20	90	85	2.2	9.6	94	70	9.2	0.55	0.16	22.41	0.64	0.42	9.3	4.2	0.38	В
	Jul-24	20.9°C	7.16	242	379	7.4	5.0	110	49	61	126	2.2	12.0	130	79	12	0.56	0.26	34.91	0.74	0.72	14.1	9	0.58	В
								•					River Gar	ga U/S at Bindugh	at Dudhiyaban, Hai	idwar						_	•		
S.No.	Month	Temp	pН	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 Steptococcss (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.No.	Month Jan-24	Тетр 15.3°С	рH 8.20	TDS (mg/l)	EC (μS/cm)	DO (mg/l)		Hardness (mg/l)				BOD (mg/I)	COD (mg/l) 8.0	TC (MPN/100 ml)	FC (MPN/100 ml)		Nitrate-N (mg/l) 0.35	Nitrite-N (mg/l) 0.12		Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/I)	SAR 0.17	(DBU) Water Quality
			<u> </u>				(mg/l)		(mg/l)	(mg/l)	(mg/l)			, , , , ,	, , , ,	(MPN/100 ml)			(mg/l)						(DBU) Water Quality Criteria
	Jan-24	15.3°C	8.20	124	194	8.7	(mg/l) 7.0	102	(mg/I) 48	(mg/I) 54	(mg/I) 92	1.4	8.0	110	79	(MPN/100 ml) 9.3	0.35	0.12	(mg/l) 24.48	0.34	0.56	3.9	1.9	0.17	(DBU) Water Quality Criteria
	Jan-24 Feb-24	15.3°C 16.2°C	8.20 7.70	124 170	194 266	8.7 9.2	7.0 7.0	102 114	(mg/l) 48 45	(mg/l) 54 69	92 90	1.4	8.0	110 140	79 70	9.3 6.8	0.35 0.40	0.12 0.15	(mg/l) 24.48 22.65	0.34	0.56	3.9	1.9	0.17	(DBU) Water Quality Criteria B
<u> </u>	Jan-24 Feb-24 Mar-24	15.3°C 16.2°C 18.9°C	8.20 7.70 7.90	124 170 198	194 266 310	8.7 9.2 8.6	7.0 7.0 6.0	102 114 110	(mg/l) 48 45 50	(mg/l) 54 69 60	(mg/l) 92 90 102	1.4 1.2 1.4	8.0 8.0 8.0	110 140 110	79 70 79	(MPN/100 ml) 9.3 6.8 6.1	0.35 0.40 0.54	0.12 0.15 0.11	(mg/l) 24.48 22.65 33.65	0.34 0.18 0.49	0.56 0.60 0.66	3.9 3.1 8.4	1.9 1.2 5.6	0.17 0.13 0.35	(DBU) Water Quality Criteria B B
	Jan-24 Feb-24 Mar-24 Apr-24	15.3°C 16.2°C 18.9°C 23.5°C	8.20 7.70 7.90 7.90	124 170 198 150	194 266 310 234	8.7 9.2 8.6 8.8	7.0 7.0 7.0 6.0 8.0	102 114 110 110	(mg/l) 48 45 50 42 50 43	(mg/l) 54 69 60 68	92 90 102 120	1.4 1.2 1.4 1.2	8.0 8.0 8.0 8.0	110 140 110 120	79 70 79 94	9.3 6.8 6.1 9.2	0.35 0.40 0.54 0.20	0.12 0.15 0.11 0.12	(mg/l) 24.48 22.65 33.65 23.89	0.34 0.18 0.49 0.23	0.56 0.60 0.66 0.71	3.9 3.1 8.4 3.8	1.9 1.2 5.6 2.5	0.17 0.13 0.35 0.16	(DBU) Water Quality Criteria B B B
	Jan-24 Feb-24 Mar-24 Apr-24 May-24	15.3°C 16.2°C 18.9°C 23.5°C 22.4°C	8.20 7.70 7.90 7.90 7.40	124 170 198 150 167	194 266 310 234 259	8.7 9.2 8.6 8.8 8.4	(mg/l) 7.0 7.0 6.0 8.0 7.0	102 114 110 110 116	(mg/l) 48 45 50 42 50	(mg/l) 54 69 60 68 66	(mg/l) 92 90 102 120 132	1.4 1.2 1.4 1.2 1.8	8.0 8.0 8.0 10.0 10.4	110 140 110 120 140 140	79 70 79 94 79 94 94	(MPN/100 ml) 9.3 6.8 6.1 9.2 12 9.2 9.2	0.35 0.40 0.54 0.20 0.32	0.12 0.15 0.11 0.12 0.22	(mg/l) 24.48 22.65 33.65 23.89 33.59	0.34 0.18 0.49 0.23 0.53	0.56 0.60 0.66 0.71 0.61	3.9 3.1 8.4 3.8 9.8	1.9 1.2 5.6 2.5 5.5	0.17 0.13 0.35 0.16 0.39	(DBU) Water Quality Criteria B B B B B
	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	15.3°C 16.2°C 18.9°C 23.5°C 22.4°C 23.9°C	8.20 7.70 7.90 7.90 7.40 7.30	124 170 198 150 167 240	194 266 310 234 259 375	8.7 9.2 8.6 8.8 8.4 7.6	(mg/l) 7.0 7.0 6.0 8.0 7.0	102 114 110 110 116 120	(mg/l) 48 45 50 42 50 43	(mg/l) 54 69 60 68 66 77	(mg/l) 92 90 102 120 132 124	1.4 1.2 1.4 1.2 1.8 2.4	8.0 8.0 8.0 10.0 10.4	110 140 110 120 140 140	79 70 79 94 79 94	(MPN/100 ml) 9.3 6.8 6.1 9.2 12 9.2 9.2	0.35 0.40 0.54 0.20 0.32 0.40	0.12 0.15 0.11 0.12 0.22 0.20	(mg/l) 24.48 22.65 33.65 23.89 33.59 31.62	0.34 0.18 0.49 0.23 0.53	0.56 0.60 0.66 0.71 0.61 0.48	3.9 3.1 8.4 3.8 9.8 9.6	1.9 1.2 5.6 2.5 5.5 5.1	0.17 0.13 0.35 0.16 0.39	(DBU) Water Quality Criteria B B B B B B B B B B B
	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	15.3°C 16.2°C 18.9°C 23.5°C 22.4°C 23.9°C	8.20 7.70 7.90 7.90 7.40 7.30	124 170 198 150 167 240	194 266 310 234 259 375	8.7 9.2 8.6 8.8 8.4 7.6	(mg/l) 7.0 7.0 6.0 8.0 7.0	102 114 110 110 116 120	(mg/l) 48 45 50 42 50 43	(mg/l) 54 69 60 68 66 77	(mg/l) 92 90 102 120 132 124	1.4 1.2 1.4 1.2 1.8 2.4	8.0 8.0 8.0 10.0 10.4	110 140 110 120 140 140	79 70 79 94 79 94 94	(MPN/100 ml) 9.3 6.8 6.1 9.2 12 9.2 9.2	0.35 0.40 0.54 0.20 0.32 0.40	0.12 0.15 0.11 0.12 0.22 0.20	(mg/l) 24.48 22.65 33.65 23.89 33.59 31.62	0.34 0.18 0.49 0.23 0.53	0.56 0.60 0.66 0.71 0.61 0.48	3.9 3.1 8.4 3.8 9.8 9.6	1.9 1.2 5.6 2.5 5.5 5.1	0.17 0.13 0.35 0.16 0.39	B B B B B B
53	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24	15.3°C 16.2°C 18.9°C 23.5°C 22.4°C 23.9°C 22.6°C	8.20 7.70 7.90 7.90 7.40 7.30 7.29	124 170 198 150 167 240 248	194 266 310 234 259 375 389	8.7 9.2 8.6 8.8 8.4 7.6 7.4	(mg/l) 7.0 7.0 6.0 8.0 7.0 8.0 5.0	102 114 110 110 116 120 110	(mg/l) 48 45 50 42 50 43 50	(mg/l) 54 69 60 68 66 77 60	(mg/l) 92 90 102 120 132 124 121	1.4 1.2 1.4 1.2 1.8 2.4 2.6	8.0 8.0 8.0 10.0 10.4 12 River Ganga	110 140 110 120 140 140 140 D/S at Balkumari	79 70 79 94 79 94 94 94 Mandir, Ajeetpur, F	(MPN/100 ml) 9.3 6.8 6.1 9.2 12 9.2 9.2 taridwar Fecal Steptococcss	0.35 0.40 0.54 0.20 0.32 0.40 0.56	0.12 0.15 0.11 0.12 0.22 0.20 0.29	(mg/l) 24.48 22.65 33.65 23.89 33.59 31.62 38.12	0.34 0.18 0.49 0.23 0.53 0.44 0.79	0.56 0.60 0.66 0.71 0.61 0.48 0.68	3.9 3.1 8.4 3.8 9.8 9.6 12.9	1.9 1.2 5.6 2.5 5.5 5.1 8.8	0.17 0.13 0.35 0.16 0.39 0.38 0.53	(DBU) Water Quality Criteria B B B B B B B C C C C C C C C C C C C
53 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24	15.3°C 16.2°C 18.9°C 23.5°C 22.4°C 23.9°C 22.6°C	8.20 7.70 7.90 7.90 7.40 7.30 7.29	124 170 198 150 167 240 248	194 266 310 234 259 375 389	8.7 9.2 8.6 8.8 8.4 7.6 7.4	(mg/l) 7.0 7.0 6.0 8.0 7.0 5.0 Chloride (mg/l)	102 114 110 110 116 120 110	(mg/l) 48 45 50 42 50 43 50 Calcium (mg/l)	(mg/l) 54 69 60 68 66 77 60 Magnesium (mg/l)	(mg/l) 92 90 102 120 132 124 121	1.4 1.2 1.4 1.2 1.8 2.4 2.6	8.0 8.0 8.0 10.0 10.4 12 River Ganga	110 140 110 120 140 140 140 140 15 at Balkumari TC (MPN/100 ml)	79 70 79 94 79 94 94 94 FC (MPN/100 ml)	(MPN/100 ml) 9.3 6.8 6.1 9.2 12 9.2 9.2 laridwar Fecal Steptococcss (MPN/100 ml)	0.35 0.40 0.54 0.20 0.32 0.40 0.56	0.12 0.15 0.11 0.12 0.22 0.20 0.29	(mg/l) 24.48 22.65 33.65 23.89 33.59 31.62 38.12	0.34 0.18 0.49 0.23 0.53 0.44 0.79	0.56 0.60 0.66 0.71 0.61 0.48 0.68	3.9 3.1 8.4 3.8 9.8 9.6 12.9	1.9 1.2 5.6 2.5 5.5 5.1 8.8	0.17 0.13 0.35 0.16 0.39 0.38 0.53	(DBU) Water Quality Criteria B B B B B B B C CONTROL OF THE CONTR
53 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Month	15.3°C 16.2°C 18.9°C 23.5°C 22.4°C 23.9°C 22.6°C	8.20 7.70 7.90 7.90 7.40 7.30 7.29	124 170 198 150 167 240 248	194 266 310 234 259 375 389 Ec (µs/cm) 297	8.7 9.2 8.6 8.8 8.4 7.6 7.4	(mg/l) 7.0 7.0 6.0 8.0 7.0 8.0 5.0 Chloride (mg/l) 10.0	102 114 110 110 116 120 110	(mg/l) 48 45 50 42 50 43 50 Calcium (mg/l) 57	(mg/l) 54 69 60 68 66 77 60 Magnesium (mg/l) 65	(mg/l) 92 90 102 120 132 124 121 Alkalinity (mg/l) 109	1.4 1.2 1.4 1.2 1.8 2.4 2.6 BOD (mg/l) 1.2	8.0 8.0 8.0 10.0 10.4 12 River Ganga cod (mg/l) 8.0	110 140 110 120 140 140 140 140 T40 140 120 140 140 140	79 70 79 94 79 94 94 94 FC (MPN/100 ml)	(MPN/100 ml) 9.3 6.8 6.1 9.2 12 9.2 9.2 laridwar Fecal Steptococcss (MPN/100 ml) 9.2	0.35 0.40 0.54 0.20 0.32 0.40 0.56	0.12 0.15 0.11 0.12 0.22 0.20 0.29	(mg/l) 24.48 22.65 33.65 23.89 31.62 38.12 Sulphate (mg/l) 28.79	0.34 0.18 0.49 0.23 0.53 0.44 0.79 Phosphate (mg/l)	0.56 0.60 0.66 0.71 0.61 0.48 0.68	3.9 3.1 8.4 3.8 9.8 9.6 12.9 Sodium (mg/l) 4.7	1.9 1.2 5.6 2.5 5.1 8.8 Potassium (mg/l) 2.2	0.17 0.13 0.35 0.16 0.39 0.38 0.53	B B B B B B B C B B B B B B B B B B B B
53 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Jun-24 Feb-24	15.3°C 16.2°C 18.9°C 23.5°C 22.4°C 23.9°C 22.6°C Temp	8.20 7.70 7.90 7.90 7.40 7.30 7.29 рн 7.50	124 170 198 150 167 240 248 TDS (mg/l) 190	194 266 310 234 259 375 389 EC (µS/cm) 297 281	8.7 9.2 8.6 8.8 8.4 7.6 7.4 DO (mg/l) 9.5 9.6	(mg/l) 7.0 7.0 6.0 8.0 7.0 8.0 5.0 Chloride (mg/l) 10.0	102 114 110 110 116 120 110 Hardness (mg/l) 122 125	(mg/l) 48 45 50 42 50 43 50 Calcium (mg/l) 57 45	(mg/l) 54 69 60 68 66 77 60 Magnesium (mg/l) 65	(mg/l) 92 90 102 120 132 124 121 Alkalinity (mg/l) 109 95	1.4 1.2 1.4 1.2 1.8 2.4 2.6 BOD (mg/l) 1.2 1.4	8.0 8.0 8.0 10.0 10.4 12 River Gange cop (mg/l) 8.0 9.0	110 140 110 120 140 140 140 140 15 at Balkumari TC (MPN/100 ml) 120 110	79 70 79 94 79 94 94 Mandir, Ajeetpur, F FC (MPN/100 ml) 94 70	(MPN/100 ml) 9.3 6.8 6.1 9.2 12 9.2 9.2 taridwar Fecal Steptococcss (MPN/100 ml) 9.2 9.2	0.35 0.40 0.54 0.20 0.32 0.40 0.56 Nitrate-N (mg/l) 0.44 0.20	0.12 0.15 0.11 0.12 0.22 0.20 0.29 Nitrite-N (mg/l) 0.19 0.18	(mg/l) 24.48 22.65 33.65 23.89 33.59 31.62 38.12 Sulphate (mg/l) 28.79 24.67	0.34 0.18 0.49 0.23 0.53 0.44 0.79 Phosphate (mg/l) 0.51 0.50	0.56 0.60 0.66 0.71 0.61 0.48 0.68 Fluoride (mg/l) 0.49 0.45	3.9 3.1 8.4 3.8 9.8 9.6 12.9 Sodium (mg/l) 4.7 5.3	1.9 1.2 5.6 2.5 5.5 5.1 8.8 Potassium (mg/l) 2.2 4.7	0.17 0.13 0.35 0.16 0.39 0.38 0.53 SAR 0.18	B B B B B B B B B B B B B B B B B B B
53 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Month Jan-24 Feb-24 Mar-24	15.3°C 16.2°C 18.9°C 23.5°C 22.4°C 23.9°C 22.6°C Temp 29.9°C 18.1°C 19.8°C	8.20 7.70 7.90 7.90 7.40 7.30 7.29 pH 7.50 7.60 7.90	124 170 198 150 167 240 248 TDS (mg/l) 190 180 204	194 266 310 234 259 375 389 EC (µS/cm) 297 281 320	8.7 9.2 8.6 8.8 8.4 7.6 7.4 DO (mg/l) 9.5 9.6 8.8	(mg/l) 7.0 7.0 6.0 8.0 7.0 8.0 5.0 Chloride (mg/l) 10.0 8.0	102 114 110 110 116 120 110 Hardness (mg/l) 122 125 121	(mg/l) 48 45 50 42 50 43 50 Calcium (mg/l) 57 45	(mg/l) 54 69 60 68 66 77 60 Magnesium (mg/l) 65 80 61	(mg/l) 92 90 102 120 132 124 121 Alkalinity (mg/l) 109 95	1.4 1.2 1.4 1.2 1.8 2.4 2.6 BOD (mg/l) 1.2 1.4 1.6	8.0 8.0 8.0 10.0 10.4 12 River Ganga coo (mg/l) 8.0 9.0	110 140 110 120 140 140 140 140 15 at Balkumari TC (MPN/100 ml) 120 110 120	79 70 79 94 79 94 94 Mandir, Ajeetpur, F FC (MPN/100 ml) 94 70 94	(MPN/100 ml) 9.3 6.8 6.1 9.2 12 9.2 9.2 laridwar Fecal Steptococcss (MPN/100 ml) 9.2 9.2 9.3	0.35 0.40 0.54 0.20 0.32 0.40 0.56 Nitrate-N (mg/l) 0.44 0.20 0.52	0.12 0.15 0.11 0.12 0.22 0.20 0.29 Nitrite-N (mg/l) 0.19 0.18 0.14	(mg/l) 24.48 22.65 33.65 23.89 33.59 31.62 38.12 Sulphate (mg/l) 28.79 24.67 34.66	0.34 0.18 0.49 0.23 0.53 0.44 0.79 Phosphate (mg/l) 0.51 0.50 0.59	0.56 0.60 0.66 0.71 0.61 0.48 0.68 Fluoride (mg/l) 0.49 0.45 0.55	3.9 3.1 8.4 3.8 9.8 9.6 12.9 Sodium (mg/l) 4.7 5.3 9.6	1.9 1.2 5.6 2.5 5.5 5.1 8.8 Potassium (mg/l) 2.2 4.7 6.4	0.17 0.13 0.35 0.16 0.39 0.38 0.53 SAR 0.18 0.21 0.38	(DBU) Water Quality Criteria B B B B B B B B C CONTROL OF THE CON

	Jul-24	22.9°C	7.78	247	386	7.8	6.0	129	60	69	135	2.6	16.0	170	110	9.2	0.48	0.22	35.66	0.71	0.64	11.6	8.0	0.44	В
		22.7	7170	2.7	300	7.0				0,					oorkee, Haridwar I			*		4,73	****			0	
	ı						Chloride		Calcium	Magnesium	Alkalinity					Fecal Steptococcss	I		Sulphate			l	1		Designated Best use
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	(mg/l)	Hardness (mg/l)	(mg/l)	(mg/l)	(mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	(MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	(mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality Criteria
55	Jan-24	15.3°C	7.60	167	261	8.7	7.0	138	68	70	125	1.4	12.0	120	84	14	0.37	0.20	38.91	0.41	0.56	3.4	1.7	0.13	В
	Feb-24	16°C	7.20	150	230	8.8	9.0	135	55	80	105	1.6	14.0	110	79	11	0.98	0.20	30.76	0.31	0.43	3.5	7.2	0.13	В
	Mar-24	17.1°C	7.90	198	310	8.6	8.0	125	60	65	137	1.8	12.0	120	94	14	0.68	0.19	37.66	0.61	0.63	8.9	7.5	0.34	В
	Apr-24	19.9°C	8.40	120	188	8.4	10.0	125	52	73	142	2.2	12.0	150	84	11	0.53	0.20	32.59	0.38	0.47	36.0	9.9	1.39	В
	May-24	21.4°C	7.40	169	265	8.0	9.0	120	52	68	151	2.4	16.0	170	94	9.2	0.53	0.32	34.99	0.68	0.67	20	11.9	0.79	В
	Jun-24	21.5°C	7.12	180	281	7.6	12.0	140	55	85	143	2.4	14.0	140	110	14	0.88	0.22	31.58	0.54	0.46	22.6	6.8	0.83	В
	Jul-24	22°C	7.21	248	388	7.6	7.0	131	60	71	140	2.6	16.0	140	110	14	0.48	0.29	39.63	0.74	0.76	13.0	8	0.49	В
	•												River Ba	anganga D/S at Lak	sar before entering	U.P						_			
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
56	Jan-24	17.9°C	7.70	474	742	5.1	11.0	196	89	107	170	1.6	16.0	170	120	11	0.55	0.20	36.78	0.49	0.39	23.0	5.9	0.71	В
	Feb-24	18.8°C	7.60	340	531	6.8	12.0	220	95	125	185	1.8	16.0	150	94	9.3	0.94	0.88	35.71	0.23	0.41	27.5	6.7	0.80	В
	Mar-24	18.9°C	7.50	355	556	5.8	10.0	209	116	93	216	1.8	12.0	130	79	11	0.64	0.48	36.21	0.53	0.58	17.8	7.5	0.53	В
	Apr-24	24°C	7.60	150	234	5.6	12.0	138	58	80	168	1.4	8.0	140	94	9.2	0.39	0.22	38.19	0.24	0.43	12.9	5.2	0.48	В
	May-24	24°C	7.40	151	236	6.0	11.0	127	55	72	161	2.0	14.0	120	94	6.1	0.49	0.32	40.19	0.54	0.63	16.9	9.2	0.65	В
	Jun-24	24.2°C	7.28	230	359	5.6	12.0	200	97	103	140	2.8	16.0	170	94	12	0.41	0.29	34.16	0.66	0.42	13.4	6.7	0.41	В
	Jul-24	21.8°C	7.64	249	390	5.2	8.0	180	89	91	191	2.6	18.0	170	94	12	0.55	0.39	37.55	0.66	0.72	18.6	12.5	0.60	В
	•					•							Riv	rer Ganga D/S at Su	ıltanpur, Haridwar										
S.No.	Month	Temp	рН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
57	Jan-24	24.1°C	7.80	320	501	8.1	7.0	132	62	70	112	1.4	10.0	110	79	14	0.39	0.23	30.12	0.44	0.39	4.7	2.2	0.18	В
_	Feb-24	18.5°C	7.70	250	391	8.5	8.0	140	65	75	105	1.6	12.0	170	94	11	0.28	0.12	30.06	0.43	0.36	7.1	3.3	0.26	В
	Mar-24	18.7°C	7.90	205	321	8.6	6.0	122	59	63	135	1.4	7.0	120	94	14	0.48	0.13	36.16	0.53	0.56	8.2	6.7	0.32	В
_	Apr-24	23°C	7.40	170	266	8.8	6.0	119	50	69	167	1.8	10.0	130	79	11	0.25	0.19	33.28	0.45	0.31	29.5	9.1	1.17	В
	May-24	21.4°C	7.20	176	275	8.2	8.0	121	56	65	148	2.0	10.0	120	94	9.2	0.35	0.29	34.22	0.65	0.65	13.8	9.8	0.54	В
	Jun-24	23.6°C	7.22	160	250	7.2	9.0	130	60	70	75	2.4	11.0	130	79	14	0.30	0.25	37.59	0.45	0.37	17.2	5.3	0.65	В
	Jul-24	21.8°C	7.49	243	380	7.6	5.0	122	56	66	129	2.6	14.0	130	79	14	0.50	0.28	38.71	0.65	0.67	14	8.9	0.55	В
	•						1						Rive	er Nayar D/S at Sat	puli , Pauri Garhwa	l				•					Designated Bast use
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/I)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
58	Jan-24	12°C	8.20	68	103	10.6	4.0	71	57	14	69	1.0	4.0	47	40	4.0	0.05	0.02	19.86	0.15	0.19	2.9	2.6	0.15	A
	Feb-24	13°C	7.96	61	94	10.4	5.0	65	50	15	63	1.0	4.0	48	41	4.0	0.06	0.01	22.40	0.21	0.25	3.1	2.8	0.17	A
<u> </u>	Mar-24	16°C	7.78	68	103	10.2	6.0	70	56	14	66	1.0	4.0	47	40	6.1	0.09	0.03	24.66	0.16	0.20	3.3	2.9	0.17	A
	Apr-24	20°C	7.58	73	111	10.0	6.0	75	64	11	71	1.0	4.0	48	41	7.8	0.14	0.01	20.78	0.20	0.28	3.1	2.5	0.16	A

	May-24	24°C	7.69	79	120	9.8	7.0	82	69	13	77	1.0	4.0	47	40	6.8	0.09	0.03	22.42	0.25	0.33	3.5	2.9	0.17	A
\vdash	Jun-24	26°C	7.57	74	114	10.0	7.0	80	72	08	78	1.0	4.0	46	33	6.8	0.12	0.04	31.67	0.20	0.29	3.4	2.6	0.16	A
	Jul-24	23°C	7.82	90	137	9.8	7.0	94	82	12	88	BDL (<1)	BDL (<5)	48	41	9.3	0.11	0.05	25.62	0.23	0.29	4	3.5	0.18	A
		20 0				7.10	, , , ,		, -			===(3)					****				****			0.10	
	River Nayar U/S at Satpuli , Pauri Garhwal No. Month Temp pH TDS (mg/l) EC (µS/cm) DO (mg/l) Chloride (mg/l) Hardness (mg/l) Magnesium (mg/l) (mg/l) (mg/l) (mg/l) BOD (mg/l) CDD (mg/l) TC (MPN/100 ml) FC (MPN/100 ml) FC (MPN/100 ml) Nitrate-N (mg/l) Nitrate-N (mg/l) Phosphate (mg/l) Fluoride (mg/l) Fluoride (mg/l) Potassium (mg/l) SAR Designated Best us (DBU) Water Quality (DBU) Water QBU) Water QBU Wa															_									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)		Hardness (mg/l)				BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)		Nitrate-N (mg/l)	Nitrite-N (mg/l)		Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
59	Jan-24	11°C	8.11	61	93	10.8	3.0	65	53	12	63	1.0	4.0	41	34	2.0	0.06	0.03	20.60	0.13	0.18	2.6	2.2	0.14	A
	Feb-24	13°C	7.89	55	84	10.6	4.0	61	47	14	59	1.0	4.0	46	33	2.0	0.09	0.02	25.96	0.18	0.16	2.9	2.4	0.16	A
	Mar-24	15°C	7.67	60	91	10.4	5.0	64	52	12	62	1.0	4.0	41	34	2.0	0.06	0.01	22.96	0.13	0.19	3.1	2.6	0.17	A
	Apr-24	19°C	7.49	67	101	10.2	6.0	70	60	10	69	1.0	4.0	38	32	2.0	0.09	0.03	22.43	0.16	0.22	2.9	2.3	0.15	A
	May-24	24°C	7.61	72	109	10.0	6.0	76	64	12	74	1.0	4.0	40	33	2.0	0.11	0.05	30.15	0.20	0.28	3.2	2.7	0.16	A
	Jun-24	25°C	7.62	83	126	10.2	6.0	86	77	09	82	1.0	4.0	40	34	4.0	0.08	0.03	21.97	0.24	0.33	3.7	3.1	0.17	A
	Jul-24	22°C	7.75	87	132	10	7.0	90	79	11	86	BDL (<1)	BDL (<5)	41	34	6.8	0.13	0.06	33.16	0.18	0.3	3.9	3.3	0.18	A
													N	lainital Lake Water	Intake, Nainital				_						_
S.No.	Month	Temp	рН	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 Steptococcss (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-24	12°C	7.59	256	430	9.0	13.0	256	140	116	202	2.2	6.0	120	94	2.0	0.15	0.05	52.10	0.25	0.20	8.3	2.9	0.22	В
<u> </u>	Feb-24	13°C	7.73	322	480	8.6	15.0	248	134	114	236	2.0	6.0	110	79	2.0	0.18	0.03	56.41	0.20	0.24	7.9	2.7	0.22	В
<u> </u>	Mar-24	15°C	7.89	310	460	8.4	19.0	252	130	122	218	1.4	5.0	150	94	2.0	0.13	0.04	52.63	0.18	0.36	7.4	2.9	0.20	В
<u> </u>	Apr-24	16°C	7.81	302	440	8.0	11.0	256	138	118	224	2.2	6.0	120	70	2.0	0.18	0.06	55.13	0.21	0.31	7.1	3.0	0.19	В
<u> </u>	May-24	17°C	7.63	311	460	7.8	15.0	258	144	114	236	2.0	6.0	110	79	2.0	0.22	0.08	58.42	0.18	0.25	6.8	2.8	0.18	В
_	Jun-24	18°C	7.38	324	480	7.4	17.0	252	140	112	220	2.2	6.0	170	110	6.8	0.22	0.07	56.92	0.18	0.24	6.7	2.6	0.18	В
	Jul-24	16°C	7.27	309	460	7.2	15.0	234	128	106	208	2.0	5.0	170	110	6.8	0.25	0.11	55.63	0.22	0.22	11.3	8.6	0.15	В
													Bł	neemtal Lake Wate	r Intake, Nainital										
S.No.	Month	Temp	рН	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 Steptococcss (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-24	14°C	7.35	143	210	8.6	15.0	206	108	98	176	1.8	6.0	110	79	2.0	0.11	0.06	32.10	0.21	0.18	5.7	2.6	0.17	В
<u> </u>	Feb-24	15°C	7.22	166	240	8.4	11.0	188	102	86	162	1.2	5.0	120	94	2.0	0.13	0.04	36.74	0.18	0.22	5.2	2.2	0.16	В
_	Mar-24	17°C	7.58	149	220	8.2	13.0	172	98	74	148	1.8	5.0	130	79	4.0	0.16	0.05	40.20	0.22	0.28	4.9	2.0	0.16	В
_	Apr-24	18°C	7.40	149	210	7.6	17.0	194	108	86	156	2.0	5.0	150	94	4.5	0.20	0.09	43.63	0.25	0.22	4.5	1.8	0.14	В
<u> </u>	May-24	19°C	7.59	153	220	7.6	11.0	206	112	94	180	1.6	5.0	140	79	4.0	0.26	0.11	45.63	0.21	0.28	4.2	2.0	0.13	В
<u> </u>	Jun-24	19°C	7.47	157	230	7.4	14.0	202	114	88	138	1.8	5.0	140	94	4.0	0.22	0.08	50.94	0.18	0.23	4.0	2.1	0.12	В
	Jul-24	17°C	7.33	149	210	7.4	13.0	172	94	78	144	1.4	4	130	79	6.1	0.23	0.09	48.16	0.2	0.23	10.2	4.1	0.34	В
	1						Chloride		Calcium	Magnesium	Alkalinity			Gola River at Halo		Fecal Steptococcss	1		Sulphate						Designated Best use
S.No.	Month	Temp	pH	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	(mg/l)	Hardness (mg/l)	(mg/l)	(mg/l)	(mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	(MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	(mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
62	+	17°C	7.92	189	280	8.2	25.0	220	118	102	186	2.4	6.0	110	70	4.0	0.15	0.08	28.60	0.20	0.15	4.0	3.1	0.12	В
\vdash	Feb-24	19°C	7.48	180	260	8.0	24.0	224	116	108	178	2.2	6.0	120	84	4.0	0.19	0.05	30.63	0.15	0.19	4.3	2.9	0.12	В
_	Mar-24	20°C 21°C	7.71	191 185	280 270	7.8 7.6	21.0	236 226	126 120	110 106	208 192	2.0	6.0	140 110	94 79	2.0	0.15	0.06	35.41 43.16	0.18	0.26	3.6	2.5	0.11	B B
_	Apr-24	23°C		191	280			230		106	192	1.8	5.0	170	84	4.0	0.23		<u> </u>	0.15	0.20	3.6	2.2	0.10	В
	May-24	25°C	7.70	191	280	7.4	21.0	230	126	104	198	1.8	5.0	1/0	84	4.0	0.20	0.14	45.16	0.18	0.23	3.9	2.6	0.11	В

	Jun-24	23°C	7.64	177	260	7.2	19.0	232	122	110	176	2.0	6.0	170	130	4.0	0.20	0.15	44.89	0.17	0.23	3.8	2.4	0.11	В
	Jul-24	21°C	7.47	183	270	7.0	17.0	224	120	104	172	2.0	5.0	140	110	6.8	0.23	0.11	50.13	0.2	0.2	6.3	2.5	0.18	В
														Sattal lake,	Nainital										
S.No.	Month	Temp	pН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
63	Jan-24	11°C	7.22	115	170	9.0	13.0	162	92	70	160	1.4	5.0	150	94	6.1	0.13	0.06	45.79	0.26	0.22	3.1	2.0	0.11	В
	Feb-24	12°C	7.80	95	140	8.8	11.0	150	88	62	124	1.2	5.0	130	79	4.0	0.09	0.03	50.41	0.20	0.26	3.4	2.3	0.12	В
	Mar-24	14°C	7.42	101	150	8.6	9.0	134	78	56	128	1.0	4.0	110	70	4.0	0.18	0.05	55.41	0.23	0.21	3.8	2.5	0.14	В
	Apr-24	16°C	7.35	97	140	8.2	17.0	142	82	60	134	1.2	4.0	120	84	4.0	0.28	0.08	51.96	0.20	0.26	4.1	2.8	0.15	В
	May-24	17°C	7.44	108	160	8.0	11.0	170	96	74	140	1.4	4.0	150	79	2.0	0.22	0.07	48.16	0.19	0.24	4.5	3.0	0.15	В
	Jun-24	18°C	7.50	101	150	7.8	14.0	160	92	68	122	1.6	5.0	110	70	4.0	0.20	0.06	47.65	0.19	0.26	4.9	3.1	0.17	В
	Jul-24	17°C	7.61	105	150	7.6	9.0	140	78	62	118	1.2	4.0	120	94	4	0.26	0.09	50.66	0.15	0.21	6.7	4.2	0.24	В
														Naukichyatal la	ake, Nainital										
S.No.	Month	Temp	pН	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
64	Jan-24	13°C	7.60	145	210	8.6	18.0	186	102	84	174	1.2	5.0	140	79	4.0	0.14	0.07	55.66	0.23	0.23	2.9	2.2	0.09	В
	Feb-24	14°C	7.26	130	190	8.6	13.0	170	92	78	148	1.8	5.0	150	94	4.0	0.11	0.04	60.43	0.18	0.28	3.1	2.0	0.10	В
	Mar-24	16°C	7.60	117	170	8.2	15.0	160	88	72	154	1.4	4.0	120	70	4.5	0.15	0.06	55.96	0.22	0.25	3.6	2.3	0.12	В
	Apr-24	17°C	7.88	144	210	7.8	17.0	178	94	84	168	1.8	5.0	170	79	6.1	0.19	0.12	59.14	0.16	0.21	3.9	2.5	0.13	В
	May-24	18°C	7.71	150	220	7.4	15.0	192	104	88	162	1.6	5.0	120	94	6.1	0.23	0.09	55.46	0.20	0.23	4.1	2.8	0.13	В
	Jun-24	19°C	7.69	148	220	7.4	17.0	182	102	80	154	1.8	5.0	140	79	6.8	0.20	0.09	54.51	0.19	0.20	4.3	2.6	0.14	В
	Jul-24	18°C	7.40	145	210	7.2	14.0	166	92	78	148	1.4	4.0	170	94	7.8	0.28	0.06	58.92	0.22	0.22	2.9	2.6	0.10	В
													River Shipra	D/S near Neem K	aroli Dam, Bhawali,			_							
S.No.	Month	Temp	pН	—	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 Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
65	Jan-24	13°C	7.14	150	210	8.4	24.0	228	120	108	188	2.0	6.0	130	79	4.5	0.13	0.05	35.41	0.19	0.23	3.7	1.4	0.11	В
_	Feb-24	14°C	7.59	118	170	8.4	19.0	200	104	96	154	1.6	5.0	120	94	4.5	0.09	0.03	40.77	0.22	0.28	4.0	1.7	0.12	В
_	Mar-24	16°C	7.47	129	220	8.2	23.0	214	110	104	168	1.8	6.0	110	79	4.5	0.13	0.05	46.71	0.25	0.22	3.8	1.4	0.11	В
_	Apr-24	17°C	7.19	131	190	7.8	21.0	198	106	92	174	2.0	6.0	120	94	4.0	0.18	0.09	50.77	0.20	0.26	4.0	1.8	0.12	В
\vdash	May-24	18°C	7.34	155	220	7.6	19.0	208	112	96	178	1.8	5.0	110	79	4.0	0.23	0.12	53.46	0.23	0.22	3.7	2.0	0.11	В
\vdash	Jun-24 Jul-24	19°C 17°C	7.41	144 129	210 190	7.4 7.4	20.0 17.0	190 186	110	80 84	168 154	2.0	5.0	110 120	79 94	6.8	0.20	0.10	54.45 55.41	0.23	0.21	3.9 4.9	2.4 4.2	0.12	В
	Jul-24	17 C	7.04	129	190	7.4	17.0	160	102	04	134	1.4			ad Bridge, Kashipur		0.20	0.13	33.41	0.2	0.2	4.9	4.2	0.10	Б
			<u> </u>			ı					Alkalinity		Kosi Kiver at K	asnipur bajpur ko	ad Bridge, Kasnipur	•	<u> </u>					ı			Designated Best use
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	(mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (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	(DBU) Water Quality
66	Jan-24	16°C	7.20	178	267	7.9	10.0	285	172	113	275	2.2	14.0	280	170	20	0.11	0.27	36.4	0.12	0.26	8.4	5.9	0.22	В
	Feb-24	18°C	7.62	246	370	7.7	12.0	292	178	114	260	2.4	16.0	350	220	13	0.15	0.28	41.2	0.22	0.29	6.8	5.1	0.17	В
	Mar-24	21°C	7.84	286	434	8.0	10.0	305	210	95	275	2.2	14.0	430	280	14	0.12	0.22	29.5	0.18	0.24	18.3	2.7	0.45	В
\vdash				356	594	7.6	15.0	297		145	240	2.6	16.0	540	240	17	0.15	0.49		0.37		14.5	5.7		C
<u> </u>	Apr-24	26°C	7.92						152		∠4U	2.0	10.0		-	·		0.49	66.38		0.21	 	3.7	0.36	
	May-24	33°C	7.32	364	544	7.8	13.0	265	135	130	210	2.5	14.0	430	350	20	0.13	0.41	58.23	0.29	0.28	12.1	1.6	0.32	В
	Jun-24	33°C	7.88	296	494	7.5	15.0	256	135	121	205	2.8	16.0	350	280	32	0.15	0.48	55.28	0.31	0.25	15.2	3.4	0.41	В

	Jul-24	31°C	7.55	176	285	7.8	14.0	146	98	48	140	1.8	12	430	350	70	0.12	0.38	36.55	0.25	0.21	7.4	3.7	0.26	В
													Dhella River U	/S at Kashipur Mor	adabad Road Bridge	e, US Nagar									
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/I)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (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
67	Jan-24	13°C	7.60	136	205	7.2	12.0	198	142	56	210	2.4	16.0	350	210	40	0.21	0.22	48.1	0.08	0.31	14.3	4.5	0.44	B
	Feb-24	20°C	7.84	166	254	7.0	14.0	228	161	67	195	2.5	18.0	280	220	32	0.24	0.26	52.5	0.11	0.26	12.5	3.5	0.36	В
	Mar-24	21°C	7.76	238	358	6.6	16.0	195	161	34	170	2.8	20.0	540	240	38	0.31	0.29	64.6	0.15	0.28	13.3	5.2	0.41	С
	Apr-24	32°C	7.88	226	379	6.4	15.0	159	90	69	155	3.0	20.0	430	350	40	0.49	0.35	19.32	0.05	0.40	20.1	4.7	0.69	В
	May-24											River was dry.													
	Jun-24											River was dry.													
	Jul-24	29°C	7.58	185	312	6.1	15.0	104	70	34	120	2.4	16	350	280	40	0.42	0.31	24.58	0.09	0.35	7.8	5.3	0.33	В
													Dhella Rive	r D/S at Thakurdwa	ara, Aliganj Road, U	S Nagar									
S.No.	Month	Temp	pН	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 Steptococcss (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
68	Jan-24	14°C	7.30	298	470	2.4	48.0	296	218	78	295	25.0	160.0	430	280	94	0.43	0.65	61.9	0.15	0.35	74.9	14.4	1.89	Е
	Feb-24	20°C	7.39	342	512	2.6	46.0	316	230	86	275	23.0	144.0	350	240	79	0.38	0.51	65.5	0.18	0.32	78.5	13.1	1.91	Е
	Mar-24	22°C	7.11	378	567	2.2	49.0	255	188	67	245	26.0	160.0	920	430	110	0.49	0.54	96.8	0.28	0.38	36.4	8.8	0.99	Е
_	Apr-24	33°C	7.13	375	633	1.2	88.0	235	185	50	220	30.0	176.0	1600	540	140	0.31	0.83	110.34	0.30	0.48	84.2	24.1	2.38	Е
	May-24	36°C	7.63	572	855	0.8	80.0	275	214	61	245	34.0	192.0	920	540	170	0.55	0.41	141.46	0.62	0.72	149.0	7.6	3.9	Е
	Jun-24	36°C	7.51	756	1260	0.7	129.0	345	265	80	385	38.0	240.0	920	350	94	0.75	0.65	201.52	0.98	0.83	168.2	11.6	3.92	Е
	Jul-24	31°C	7.19	456	764	1.8	78.0	252	184	68	185	32	176	1600	540	110	0.62	0.56	94.32	0.72	0.64	15.3	6.2	0.42	Е
								_					Bhella River	U/S Kashipur, (U/S	Ramnagar Road),	JS Nagar									
S.No.	Month	Temp	pН	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 Steptococcss (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
69	Jan-24	16°C	7.50	117	175	7.0	11.0	156	120	36	145	2.0	12.0	220	170	48	0.29	0.18	23.13	0.03	0.24	12.5	3.4	0.43	В
	Feb-24	14°C	7.41	165	252	6.8	13.0	168	128	40	150	2.4	15.0	280	220	39	0.26	0.21	28.4	0.08	0.25	10.2	3.8	0.34	В
	Mar-24	18°C	7.65	172	259	6.2	15.0	155	119	36	160	2.8	18.0	350	280	33	0.29	0.22	36.8	0.11	0.25	7.7	2.4	0.27	В
_	Apr-24	27°C	7.73	148	244	6.4	15.0	107	70	37	130	2.5	16.0	540	240	40	0.23	0.35	26.91	0.08	0.51	6.5	2.8	0.27	С
_	May-24													River was dry.								<u> </u>			
_	Jun-24	2700	7.01	1/2	264	6.1	12.0	120	70	<i>5</i> 1	11.5	2.1	10	River was dry.	220	22	0.42	0.20	22.42	0.11	0.35	6.0	4.1	0.22	P
	Jul-24	27°C	7.01	162	264	6.4	12.0	130	79	51	115	2.1	12	350	220	32	0.42	0.28	32.42	0.11	0.35	8.8	4.1	0.33	В
												Bh	ella River at Loh	ia Bridge D/S Kash	ipur (D/S Lohiya Bri	dge), US Nagar									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/I)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (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
70	Jan-24	16°C	7.20	164	270	2.8	28.0	254	162	92	265	16.0	120.0	540	430	94	0.30	0.26	38.06	0.13	0.45	27.3	8.6	0.74	E

	Feb-24	19°C	6.85	215	324	2.8	30.0	285	178	107	255	17.0	104.0	430	350	70	0.32	0.25	42.6	0.22	0.48	29.2	8.1	0.75	Е
	Mar-24	21°C	6.93	305	456	3.0	28.0	224	140	84	210	16.0	96.0	540	430	79	0.40	0.32	68.2	0.26	0.45	16.5	8.8	0.48	Е
	Apr-24	30°C	6.37	315	522	2.2	86.0	260	153	107	225	18.0	104.0	920	540	94	0.43	0.52	41.72	0.10	0.80	52.7	9.9	1.42	Е
	May-24	32°C	6.52	634	948	1.4	89.0	285	166	119	240	24.0	160.0	1600	920	110	0.62	0.58	84.62	0.45	0.96	81.5	1.6	2.09	Е
	Jun-24	36°C	6.61	498	828	1.2	107.0	320	205	115	305	28.0	192.0	430	350	94	0.78	0.42	104.68	0.74	0.81	112.0	5.2	2.71	Е
	Jul-24	33°C	6.95	385	642	2.2	52.0	240	178	62	215	22	128	920	540	110	0.52	0.31	75.62	0.63	0.66	20.7	8.8	0.58	Е
													Pilakl	nar River at Bilaspı	ır, Rampur, US Nag	ar									
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/I)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (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
71	Jan-24	14°C	7.50	325	484	7.4	11.0	262	195	67	255	2.0	14.0	540	350	110	0.13	0.17	55.6	0.24	0.29	12.2	4.3	0.33	C
	Feb-24	18°C	7.34	312	470	7.1	13.0	228	172	56	240	2.4	18.0	430	280	94	0.21	0.28	64.2	0.28	0.32	10.8	4.6	0.31	В
	Mar-24	20°C	7.42	325	492	6.8	15.0	240	182	58	255	2.6	20.0	350	240	79	0.28	0.26	59.8	0.32	0.38	12.4	4.1	0.35	В
	Apr-24	22°C	7.56	298	492	6.4	17.0	215	156	59	245	2.9	22.0	430	350	70	0.22	0.29	44.52	0.32	0.32	14.8	3.8	0.44	В
	May-24	29°C	7.71	368	551	6.8	15.0	225	162	63	235	2.6	20.0	350	280	110	0.24	0.26	40.12	0.38	0.36	20.8	1.1	0.60	В
	Jun-24	30°C	7.55	356	579	6.2	22.0	240	162	78	220	2.8	20.0	540	240	130	0.29	0.42	65.42	0.52	0.44	25.6	2.1	0.71	С
	Jul-24	28°C	7.23	261	436	6.8	24.0	194	145	49	210	2.4	16	430	350	94	0.24	0.46	46.52	0.4	0.37	17.2	2.1	0.54	В
												Nandu	ar River U/S Sita	irganj Industrial Ai	ea, (Nandour U/S S	itarganj), US Nagar									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	Nandu BOD (mg/l)	cod (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (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
S.No.	Month Jan-24	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)		Hardness (mg/l)					<u> </u>	ı		Fecal Steptococcss	Nitrate-N (mg/l)	Nitrite-N (mg/l)		Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	
\vdash		Temp	рн 7.49	TDS (mg/I)	EC (μS/cm) 222	DO (mg/l)		Hardness (mg/l)				BOD (mg/l) River was	<u> </u>	ı		Fecal Steptococcss	Nitrate-N (mg/l) 0.24	Nitrite-N (mg/l) 0.18		Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR 0.26	
\vdash	Jan-24		·				(mg/l)		(mg/l)	(mg/I)	(mg/I)	BOD (mg/l) River was dry.	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)			(mg/l)						(DBU) Water Quality
\vdash	Jan-24 Feb-24	17°C	7.49	146	222	8.2	(mg/l) 9.0	155	(mg/l)	(mg/l)	(mg/I)	BOD (mg/l) River was dry. 1.6	COD (mg/l)	TC (MPN/100 ml) 920 920	FC (MPN/100 ml) 430 540	Fecal Steptococcss (MPN/100 ml) 94 110	0.24	0.18	(mg/l)	0.03	0.21	7.4	1.4	0.26	(DBU) Water Quality Calculate C
\vdash	Jan-24 Feb-24 Mar-24	17°C	7.49	146	222	8.2	(mg/l) 9.0	155	(mg/l)	(mg/l)	(mg/I)	BOD (mg/l) River was dry. 1.6	COD (mg/l)	TC (MPN/100 ml) 920 920	FC (MPN/100 ml) 430	Fecal Steptococcss (MPN/100 ml) 94 110	0.24	0.18	(mg/l)	0.03	0.21	7.4	1.4	0.26	(DBU) Water Quality Calculate C
\vdash	Jan-24 Feb-24 Mar-24 Apr-24	17°C	7.49	146	222	8.2	(mg/l) 9.0	155	(mg/l)	(mg/l)	(mg/I)	BOD (mg/l) River was dry. 1.6	COD (mg/l)	920 920 Riv	FC (MPN/100 ml) 430 540	Fecal Steptococcss (MPN/100 ml) 94 110	0.24	0.18	(mg/l)	0.03	0.21	7.4	1.4	0.26	(DBU) Water Quality Calculate C
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24	17°C	7.49	146	222	8.2	(mg/l) 9.0	155	(mg/l)	(mg/l)	(mg/I)	BOD (mg/l) River was dry. 1.6	COD (mg/l)	920 920 Riv	FC (MPN/100 ml) 430 540 zer was found Dry	Fecal Steptococcss (MPN/100 ml) 94 110	0.24	0.18	(mg/l)	0.03	0.21	7.4	1.4	0.26	(DBU) Water Quality Calculate C
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	17°C 20°C	7.49	146	222	8.2 7.6	9.0 11.0	155	102 114	53 66	(mg/l) 145 160	BOD (mg/l) River was dry. 1.6 2.0	COD (mg/l) 8.0 10.0	7c (MPN/100 ml) 920 920 Riv	FC (MPN/100 ml) 430 540 See was found Dry tiver was found D 350	Fecal Steptococcss (MPN/100 ml) 94 110	0.24	0.18	(mg/l) 18.4 24.6	0.03	0.21	7.4	1.4	0.26	(DBU) Water Quality Coltanta C C C
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	17°C 20°C	7.49	146 236	222	8.2 7.6	9.0 11.0	155	102 114	53 66	(mg/l) 145 160	BOD (mg/l) River was dry. 1.6 2.0	COD (mg/l) 8.0 10.0	7c (MPN/100 ml) 920 920 Riv	FC (MPN/100 ml) 430 540 See was found Dry tiver was found D 350	Fecal Steptococcss (MPN/100 ml) 94 110 Ty 70	0.24	0.18	(mg/l) 18.4 24.6	0.03	0.21	7.4	1.4	0.26	(DBU) Water Quality Caleania C C
72	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24	17°C 20°C 29°C	7.49 7.86	146 236	222 353	8.2 7.6	(mg/l) 9.0 11.0 14.0	155 180	(mg/l) 102 114 74	53 66 Magnesium	(mg/l) 145 160 115	BOD (mg/l) River was dry. 1.6 2.0	8.0 10.0	TC (MPN/100 ml) 920 920 Riv F 920 grganj Industrial Al	FC (MPN/100 ml) 430 540 ser was found Dry tiver was found D 350 sea, (Nandour D/S S	Fecal Steptococcss (MPN/100 ml) 94 110 Ty 70 itarganj), US Nagar	0.24	0.18 0.24 0.22	(mg/l) 18.4 24.6 18.53	0.03	0.21 0.19 0.13	7.4 8.6	2.6	0.26 0.28 0.19	C C C Designated Best use
72 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24	17°C 20°C 29°C	7.49 7.86 7.84	146 236	222 353 184	8.2 7.6 8.1	(mg/l) 9.0 11.0 Chloride (mg/l)	155 180 108 Hardness (mg/l)	(mg/l) 102 114 74 Calcium (mg/l)	53 66 Magnesium (mg/l)	(mg/l) 145 160 115 Alkalinity (mg/l)	BOD (mg/l) River was dry. 1.6 2.0 1.6 Nandu	8.0 10.0 8 ar River D/S Sita	TC (MPN/100 ml) 920 920 Riv F 920 rganj Industrial Au TC (MPN/100 ml)	FC (MPN/100 ml) 430 540 Fer was found Dry River was found D 350 FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml) 94 110 Ty 70 itarganj), US Nagar Fecal Steptococcss (MPN/100 ml)	0.24 0.32 0.34	0.18 0.24 0.22	(mg/l) 18.4 24.6 18.53 Sulphate (mg/l)	0.03 0.08	0.21 0.19 0.13	7.4 8.6 4.5	1.4 2.2 2.6	0.26 0.28 0.19	C C C C Designated Best use (DBU) Water Quality
72 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Month Jan-24	17°C 20°C 29°C Temp 14°C	7.49 7.86 7.84 7.40	146 236 105 TDS (mg/l) 165	222 353 184 EC (µ5/cm) 248	8.2 7.6 8.1	(mg/l) 9.0 11.0 14.0 Chloride (mg/l) 13.0	155 180 108 Hardness (mg/l)	(mg/l) 102 114 74 Caldum (mg/l) 148	(mg/l) 53 66 34 Magnesium (mg/l) 88	(mg/l) 145 160 115 Alkalinity (mg/l) 275	BOD (mg/l) River was dry. 1.6 2.0 1.6 Nandu BOD (mg/l) 2.2	8.0 10.0 8 ar River D/S Sita	TC (MPN/100 ml) 920 920 Riv 920 rganj Industrial Au TC (MPN/100 ml) 920	FC (MPN/100 ml) 430 540 Ter was found Dry Stiver was found D 350 EC (MPN/100 ml) 540	Fecal Steptococcss (MPN/100 ml) 94 110 70 itarganj), US Nagar Fecal Steptococcss (MPN/100 ml) 220	0.24 0.32 0.34	0.18 0.24 0.22 Nitrite-N (mg/l) 0.30	(mg/l) 18.4 24.6 18.53 Sulphate (mg/l) 17.12	0.03 0.08 0.05	0.21 0.19 0.13	7.4 8.6 4.5	2.6 Potassium (mg/l) 3.5	0.26 0.28 0.19	C C C C C C C C C C C C C C C C
72 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Jul-24 Feb-24	17°C 20°C 29°C Temp 14°C 17°C	7.49 7.86 7.84 рн 7.40 7.81	146 236 105 TDS (mg/l) 165 233	222 353 184 EC (us/cm) 248 352	8.2 7.6 8.1 DO (mg/l) 8.0 7.8	(mg/l) 9.0 11.0 14.0 Chloride (mg/l) 13.0 15.0	155 180 108 Hardness (mg/l) 236 286	(mg/l) 102 114 74 Calcium (mg/l) 148 177	(mg/l) 53 66 34 Magnesium (mg/l) 88 109	(mg/l) 145 160 115 Alkalinity (mg/l) 275 260	BOD (mg/l) River was dry. 1.6 2.0 1.6 Nandu BOD (mg/l) 2.2 2.4	8.0 10.0 8 ar River D/S Sita cod (mg/l) 12.0	TC (MPN/100 ml) 920 920 Riv F 920 TC (MPN/100 ml) 920 1600	FC (MPN/100 ml) 430 540 Fer was found Dry River was found D 350 FC (MPN/100 ml) 540 920	Fecal Steptococcss (MPN/100 ml) 94 110 Ty 70 itarganj), US Nagar Fecal Steptococcss (MPN/100 ml) 220 280	0.24 0.32 0.34 Nitrate-N (mg/l) 0.38 0.31	0.18 0.24 0.22 Nitrite-N (mg/l) 0.30 0.24	18.4 24.6 18.53 Sulphate (mg/l) 17.12 21.5	0.03 0.08 0.05 Phosphate (mg/l) 0.11	0.21 0.19 0.13 Fluoride (mg/l) 0.31 0.25	7.4 8.6 4.5 Sodium (mg/l) 10.1 11.2	2.2 2.6 Potassium (mg/l) 3.5 4.4	0.26 0.28 0.19 sar 0.28 0.29	C C Designated Best use (DBU) Water Quality C C C C C C C C C C C C C

	Jun-24	35°C	7.88	247	412	6.6	25.0	188	112	76	150	3.0	20.0	28×10 ²	22×10 ²	350	0.61	0.38	56.28	0.48	0.39	22.4	2.1	0.70	С
	Jul-24	35°C	7.62	134	228	7.2	20.0	129	92	37	135	2.8	16	1600	920	220	0.52	0.35	40.54	0.42	0.28	5.4	3.4	0.21	С
												Kichl	ha River at Kichh	a, (River Kichha (D	/S Nagarbhalla, Ka	shipur), US Nagar									
S.No.	Month	Temp	рН	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 Steptococcss (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
74	Jan-24	15°C	7.60	254	385	5.8	29.0	288	176	112	255	3.2	28.0	430	220	47	0.25	0.48	60.56	0.18	0.29	35.1	7.5	0.90	D
	Feb-24	20°C	7.82	356	535	5.6	30.0	272	175	97	265	3.3	28.0	540	350	70	0.21	0.41	55.2	0.20	25	31.4	9.2	0.83	D
	Mar-24	22°C	7.79	411	626	4.6	32.0	284	185	99	255	3.5	36.0	1600	920	130	0.24	0.39	66.4	0.28	0.26	37.4	5.2	0.96	D
	Apr-24	27°C	7.86	418	706	4.4	55.0	294	168	126	240	3.8	40.0	17×10 ²	11×10 ²	140	0.24	0.33	65.94	0.21	0.41	53.5	7.2	1.35	D
	May-24	34°C	6.80	432	648	4.0	57.0	285	160	125	250	4.9	48.0	21×10 ²	14×10 ²	140	0.41	0.36	95.46	0.46	0.72	108.0	2.5	2.77	D
	Jun-24	34°C	7.98	582	964	3.6	79.0	348	210	138	325	6.2	64.0	1600	920	130	0.64	0.52	134.52	0.74	0.64	132.0	4.2	3.11	Е
	Jul-24	34°C	7.51	295	488	5.5	35.0	219	162	57	195	4.8	52	>1600	1600	210	0.55	0.46	78.94	0.71	0.58	18.7	6.8	0.55	D
													Kalyani Riv	er at U/S Pantnaga	r Industrial Area, U	•									Designated Best use
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/I)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (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	(DBU) Water Quality
75	Jan-24	15°C	7.40	203	312	6.9	7.0	218	172	46	280	2.1	10.0	540	430	140	0.24	0.16	14.57	0.06	0.27	8.9	3.0	0.26	С
	Feb-24	17°C	7.96	294	442	6.5	10.0	254	198	56	245	2.4	16.0	920	350	110	0.28	0.21	25.4	0.11	0.22	5.8	2.2	0.16	С
	Mar-24	19°C	7.84	353	551	7.1	9.0	266	208	58	260	2.2	14.0	540	430	140	0.22	0.18	28.2	0.12	0.15	8.1	2.3	0.22	С
	Apr-24	23°C	7.67	335	573	6.2	13.0	283	155	128	270	2.6	20.0	430	350	110	0.52	0.40	48.72	0.41	0.35	14.6	5.1	0.38	В
	May-24	26°C	6.78	384	575	5.6	17.0	294	163	131	255	2.9	20.0	540	240	140	0.56	0.38	54.18	0.48	0.44	9.4	0.1	0.24	С
	Jun-24	20%	7.41	202	47.6		- 22	242	154	00	220	2.0		iver was found D	<u>-</u>	0.4	0.20	0.20	20.22	0.22	0.54	0.5	4.1	0.24	
	Jul-24	29°C	7.41	292	476	5.4	22	243	154	89	220	2.8	20	430	220	94	0.38	0.29	28.22	0.23	0.54	8.5	4.1	0.24	В
						ı		<u> </u>				R	iver Kailash Dow	nstream behind Si	targanj Industrial A	_		ı							Designated Best use
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 Steptococcss (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	(DBU) Water Quality
76	Jan-24	17°C	7.30	146	228	8.2	11.0	132	86	46	190	1.8	10.0	210	170	70	0.27	0.24	15.57	0.02	0.23	9.8	2.1	0.37	В
	Feb-24	17°C	7.88	189	295	8.0	12.0	158	98	60	180	2.0	12.0	280	220	94	0.28	0.19	21.4	0.08	0.24	7.8	2.4	0.27	В
	Mar-24	20°C	7.86	244	365	7.2	14.0	172	108	64	165	2.4	16.0	350	280	110	0.35	0.21	28.6	0.11	0.28	9.8	2.8	0.32	В
_	Apr-24	29°C	7.62	172	294	7.0	17.0	220	138	82	180	2.6	16	430	220	94	0.29	0.37	15.27	0.04	0.46	8.8	2.8	0.26	В
\vdash	May-24	31°C	7.89	246	370	7.2	15.0	242	154	88	195	2.4	14.0	350	220	94	0.25	0.29	18.24	0.06	0.34	11.7	0.4	0.33	В
	Jun-24	34°C	7.72	258	430	6.8	21.0	212	115 95	97	205	2.6	14.0	540 430	350	110 94	0.29	0.25	25.4	0.15	0.34	15.2	1.2	0.45	В
	Jul-24	32°C	7.68	156	268	7.8	12.0	133	95	38	145	1.8	12 Kalyani Riye		350 r Industrial Area, U		0.23	0.18	20.86	0.12	0.28	6.1	3	0.23	В
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride	Hardness (mg/l)	Calcium	Magnesium	Alkalinity	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use
				,	., ., .,	., 5, 7	(mg/l)		(mg/l)	(mg/l)	(mg/l)			, ,,	., ,,	(MPN/100 ml)		8/-/	(mg/l)	., 67-7				-	(DBU) Water Quality

77	Jan-24	17°C	7.20	294	456	2.2	45.0	332	204	128	320	26.0	176.0	1600	540	140	0.31	0.68	66.19	0.18	0.78	45.4	11.5	1.08	Е
	Feb-24	19°C	6.93	418	628	1.8	49.0	356	217	139	335	28.0	192.0	920	540	170	0.38	0.54	88.3	0.32	0.54	52.6	13.2	1.21	Е
	Mar-24	22°C	7.13	462	702	1.6	51.0	363	222	141	325	30.0	208.0	1600	920	220	0.44	0.51	106.5	0.68	0.59	25.3	5.2	0.58	Е
	Apr-24	24°C	6.34	432	729	0.8	42.0	333	191	142	295	32.0	240.0	1600	540	170	0.48	0.57	106.5	1.35	0.68	49.1	9.2	1.16	Е
	May-24	27°C	7.53	505	754	Nil	58.0	384	218	166	320	36.0	272.0	1600	540	170	0.78	0.64	144.6	1.65	0.96	55.0	1.2	1.22	Е
	Jun-24	33°C	6.75	554	916	Nil	120.0	364	179	185	305	42.0	304.0	540	350	170	1.12	0.89	218.0	1.78	1.12	78.6	5.4	1.78	Е
	Jul-24	30°C	6.81	424	714	3.1	66.0	310	195	115	265	30	160	920	240	110	0.93	0.74	102.53	0.86	0.73	30.9	7.2	0.76	Е
													River Kos	D/S near Khairna	Ranikhet Bridge, A	lmora						•			•
S.No.	Month	Temp	pН	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 Steptococcss (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
78	Jan-24	14°C	7.55	159	230	8.2	21.0	234	120	114	182	2.2	6.0	120	94	2.0	0.15	0.09	55.63	0.22	0.28	5.4	1.9	0.15	В
	Feb-24	15°C	7.71	129	190	8.2	25.0	212	110	102	168	1.4	5.0	110	79	2.0	0.18	0.04	53.42	0.18	0.22	5.1	1.7	0.15	В
	Mar-24	17°C	7.29	163	240	8.0	17.0	226	118	108	190	2.0	6.0	120	94	2.0	0.15	0.06	50.41	0.20	0.18	5.4	2.0	0.16	В
	Apr-24	18°C	7.71	149	220	7.6	21.0	238	124	114	198	1.8	6.0	110	79	2.0	0.17	0.08	52.15	0.18	0.16	5.0	2.3	0.14	В
	May-24	20°C	7.63	161	240	7.2	24.0	230	120	110	192	2.0	6.0	170	94	4.5	0.18	0.08	58.42	0.22	0.26	4.7	2.1	0.13	В
	Jun-24	21°C	7.57	157	230	7.4	21.0	214	112	102	180	1.4	5.0	110	79	4.0	0.19	0.17	59.72	0.20	0.26	4.5	2.0	0.13	В
	Jul-24	30°C	6.81	424	714	3.1	66.0	310	195	115	265	30	160	920	240	110	0.93	0.74	102.53	0.86	0.73	30.9	7.2	0.76	Е
													River	aryu D/S Near Bild	ona Bridge, Bageshv	var									
S.No.	Month	Temp	рН	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 Steptococcss (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
79	Jan-24	15°C	7.87	165	240	8.4	24.0	214	112	102	174	1.6	5.0	140	79	4.0	0.11	0.09	42.13	0.19	0.31	3.0	1.6	0.09	B
	Feb-24	17°C	7.50	143	210	8.0	21.0	200	108	92	160	2.0	6.0	120	70	4.0	0.16	0.11	45.63	0.13	0.20	3.3	1.8	0.10	В
\vdash	Mar-24	18°C	7.14	177	260	7.8	19.0	230	124	106	202	2.2	6.0	110	79	4.0	0.11	0.09	48.71	0.16	0.15	3.1	1.5	0.09	В
\vdash	Apr-24	19°C	7.57	168	240	7.6	23.0	220	118	102	186	1.4	5.0	150	70	2.0	0.11	0.10	49.90	0.15	0.13	3.3	1.8	0.10	В
\vdash																						-			
\vdash	May-24	21°C	7.49	159	230	7.4	21.0	232	124	108	180	1.8	5.0	120	94	2.0	0.11	0.11	48.71	0.16	0.15	3.7	2.0	0.11	В
	Jun-24	20°C	7.66	180	260	7.2	24.0	226	120	106	194	2.0	6.0	140	94	12	0.10	0.10	47.67	0.16	0.14	3.9	2.1	0.11	В
	Jul-24	20°C	7.71	175	250	7.2	21.0	214	112	102	178	2.0	5.0	170	79	9.3	0.15	0.10	50.66	0.2	0.19	5.8	3.7	0.17	В