

## WATER QUALITY CHARACTERISTICS OF RIVER GANGA AT RISHIKESH & HARDIWAR

### RIVER GANGA AT RISHIKESH U/S LAXMANJHULA, SWARGAASHRAM, U/S RISHIKESH

Month	pH	BOD mg/L	COD mg/L	Total Coliform (MPN/ 100 mL)	Temp °C	DO mg/L	Alkalinity CaCO <sub>3</sub> mg/L	Chlorides mg/L	Calcium as Cl mg/L	Magnesium as Mg mg/L	Hardness as CaCO <sub>3</sub> mg/L	TDS mg/L
<b>2025</b>												
Jan	8.15	BDL	BDL	33	18	10.8	62	6.0	61	18	79	69
Feb	8.10	BDL	BDL	38	18	10.7	59	5.0	58	16	74	62
Mar	8.16	BDL	BDL	39	18	10.8	54	5.0	52	18	70	67
Apr	8.09	BDL	BDL	38	19	10.7	50	5.0	48	16	64	62
May	8.16	BDL	BDL	40	18	10.6	54	5.0	50	18	68	66
June	8.09	BDL	BDL	39	21	10.5	56	5.0	52	18	70	69
July	8.15	BDL	BDL	40	22	10.4	58	6.0	54	19	73	71
Aug	8.11	BDL	BDL	49	21	10.4	54	6.0	52	18	70	68
Sept	8.02	BDL	BDL	38	19	10.4	51	6.0	49	18	67	64
Oct	8.11	BDL	BDL	40	20	10.3	49	6.0	47	17	64	62
Nov	8.04	BDL	BDL	39	19	10.3	54	6.0	49	17	66	64
Dec	8.14	BDL	BDL	40	17	10.3	53	6.0	48	16	64	62
<b>2024</b>												
Jan	7.80	1.0	4.0	26	11	10.8	70	2.0	50	22	72	69
Feb	7.50	1.0	4.0	32	16	10.6	80	4.0	59	26	85	77
Mar	7.60	1.0	4.0	38	20	10.4	71	5.0	52	22	74	69
Apr	7.97	1.0	4.0	39	20	10.2	76	5.0	58	20	78	75
May	7.80	1.0	4.0	40	23	10.0	70	6.0	50	23	73	68
June	7.82	1.0	4.0	47	20	10.4	71	5.0	53	21	74	72
July	7.89	BDL (<1)	BDL (<5)	39	20	10.3	73	5.0	58	21	79	79
Aug	7.85	BDL (<1)	BDL (<5)	38	18	9.8	115	6	85	40	125	80
Sept	7.91	BDL (<1)	BDL (<5)	33	18	9.8	68	5.0	61	17	78	82
Oct	7.92	BDL (<1)	BDL (<5)	38	20	10.2	78	7	76	11	87	72
<b>2023</b>												
Jan	7.08	1.0	4.0	48	13	10.8	83	4.0	60	21	81	75
Feb	7.22	1.0	4.0	41	19	10.6	55	4.0	78	13	91	79
Mar	8.25	1.0	4.0	39	16	10.8	72	6.0	90	25	115	101

Apr	7.90	1.0	4.0	33	20	10.6	55	8.0	68	08	76	89
May	7.79	1.0	4.0	48	19	10.2	80	7.0	81	16	97	86
June	7.60	1.0	4.0	41	17	9.8	54	4.0	48	21	69	65
July	7.90	1.0	4.0	46	21	9.6	57	3.0	43	08	51	45
Aug	7.80	1.0	4.0	38	16	9.8	73	5.0	57	12	69	55
Sept	8.10	1.0	4.0	39	23	10.0	73	4.0	60	15	75	70
Oct	7.68	1.0	4.0	34	19	10.2	62	4.0	53	13	66	59
Nov	7.74	1.0	4.0	26	16	10.4	65	3.0	56	15	71	66
2022												
Jan	7.60	1.0	4.0	25	16	10	126	8	150	20	170	75
Feb	7.57	1.0	4.0	22	18	9.8	74	7	60	52	112	85
Mar	7.50	1.0	4.0	24	14	11	56	6.0	50	12	62	89
Apr	7.40	1.0	4.0	27	16	10.4	67	5.0	59	21	80	77
May	7.30	1.0	4.0	31	18	10.4	62	4	54	36	90	75
June	7.37	1.0	4.0	39	24	10.2	54	4.5	64	16	80	84
July	7.50	1.0	4.0	40	23	9.8	45	3.5	50	13	63	69
Aug	7.40	1.0	4.0	43	22	9.6	60	3.0	48	37	85	55
Sept	7.64	1.0	4.0	46	20	9.8	146	4.0	247	18	265	78
Oct	8.06	1.0	4.0	49	18	10	88	5.0	81	10	91	74
Nov	7.40	1.0	4.0	41	16	10.4	140	6.0	110	45	155	71
Dec	7.95	1.0	4.0	38	17°C	10.6	90	5.0	70	13	83	69
2021												
Jan	7.61	1	4	27	15	11	88	10	55	19	74	112
Feb	7.28	1	4	32	10	9.8	96	8	45	40	85	76
Mar	7.81	1	4	38	19	10.4	82	7	46	34	80	70
Apr	7.26	1	4	40	20	10	97	7	53	27	80	70
May	7.6	1	4	34	20	10	100	6.5	55	10	65	97.3
June	7.80	1	4	40		10.2	60	9	58	12	70	153
July	7.80	1	4	43	21	9.2	80	9	68	28	96	278
Aug	8.25	1.2	4	40		9.8	80	7	60	18	78	66
Sept	8.15	1	4	38		10.4	170	9	67	49	116	82
Oct	7.8	1	4	33		9.8	58	7	40	21	61	73.2
Nov	7.87	1.2	4	32		10.4	63	8	60	10	70	157
Dec	7.6	1	4	34	15	10	70	9	45	19	64	120
2020												
Jan	7.72	<1	4	40	16	11	70	9	48	30	78	79
Feb	7.72	<1	4	40	17	10.8	62	13	60	28	88	62
Mar	7.7	<1	4	30	19	11.6	71	6.5	53	30	83	84
Apr	7.8	0.6	4	30	19	10.6	60	7.5	45	25	70	55
May	7.1	0.6	4	30	18	11	54	8	40	20	60	51
June	7.55	0.4	4	40	19	10.6	60	6	32	26	58	64
July	7.92	1	4	40	20	9.8	60	10	42	20	62	60
Aug	7.4	1.0	4	40	21	10	80	6.5	70	10	80	64
Sept	7.81	1	4	40	25	10.8	65	9	31	22	53	101
Oct	8.0	1	4	40	26	10.2	66	6	50	26	76	76

Nov	7.5	1	5	32	16	11.6	56	8	57	21	78	80
Dec	7.2	1	4	22	17	10.8	65	7	54	36	90	114
<b>2019</b>												
Jan	8.02	<1	4	40	17	10.4	64	5	38	32	70	114
Feb	7.42	<1	4	50	16	10	70	5	46	32	78	96
Mar	7.48	<1	4	40	19	9.8	62	4	42	30	72	66
Apr	7.62	<1	4	40	17	9.8	60	5	36	32	68	88
May	7.54	<1	4	50	18	10.2	68	5	38	34	72	80
June	7.62	<1	4	40	19	9.8	66	5	42	32	74	82
July	7.7	<1	4	50	18	10.2	62	4	44	26	70	78
Aug	7.48	<1	4	401	18	10.4	64	5	46	26	72	80
Sept	8.23	<1	4	50	20	9.8	58	7	40	28	68	73
Oct	8.12	<1	4	60	20	10	60	6	42	24	66	62
Nov	7.95	<1	4	58	19	11.8	50	5	40	20	60	69
Dec	7.94	<1	4	73	18	10.4	40	8	44	22	66	79
<b>2018</b>												
Jan	7.38	<1	4	40	16	9.8	74	5	42	38	80	92
Feb	7.82	<1	4	60	16	10.2	70	5	42	34	76	105
Mar	7.32	<1	4	30	18	10.4	76	5	40	30	70	96
Apr	7.48	<1	4	40	19	9.8	70	5	42	32	74	87
May	7.5	<1	4	60	20	10.2	68	5	38	34	72	82
June	7.42	<1	4	70	20	9.8	64	5	40	34	74	84
July	7.45	<1	4	40	20	10	74	5	46	34	80	86
Aug	7.56	<1	4	30	22	9.8	76	5	44	38	82	80
Sept	7.68	<1	4	30	18	9.8	68	5	44	34	78	74
Oct	8.4	<1	4	60	18	9	74	5	42	40	82	126
Nov	7.62	<1	4	26	17	9.6	70	5	40	36	76	80
Dec	7.71	<1	4	30	17	10	68	5	40	34	74	84

**GANGA AT D/S OF RISHIKESH, NEAR PASHULOK, UTTARAKHAND**

Month	pH	BOD mg/L	COD mg/L	Total Coliform (MPN/ 100 mL)	Temp °C	DO mg/L	Alkalinity CaCO3 mg/L	Chlorides mg/L	Calcium as Cl mg/L	Magnesium as Mg mg/L	Hardness as CaCO3 mg/L	TDS mg/L
<b>2025</b>												
Jan	8.16	BDL	BDL	47	18	10.7	61	5.0	60	18	78	71
Feb	8.07	BDL	BDL	40	18	10.7	58	5.0	62	14	76	74
Mar	8.11	BDL	BDL	47	18	10.7	55	5.0	58	15	73	71
Apr	8.19	BDL	BDL	48	20	10.7	52	5.0	51	18	69	67
May	8.12	BDL	BDL	41	19	10.6	52	5.0	49	17	66	64
June	8.17	BDL	BDL	40	21	10.5	53	5.0	51	17	68	66
July	8.1	BDL	BDL	49	21	10.4	55	5.0	53	18	71	69
Aug	8.06	BDL	BDL	47	23	10.4	52	5.0	50	18	68	65
Sept	7.96	BDL	BDL	48	20	10.3	48	5.0	46	18	64	61
Oct	8.02	BDL	BDL	47	20	10.4	46	5.0	44	17	61	59
Nov	8.14	BDL	BDL	40	19	10.3	49	5.0	46	18	64	63
Dec	8.22	BDL	BDL	47	17	10.3	48	5.0	45	17	62	61
<b>2024</b>												
Jan	7.55	1.0	4.0	40	13°C	10.6	73	3.0	56	19	75	71
Feb	7.46	1.0	4.0	47	18°C	10.4	84	5.0	59	28	87	81
Mar	7.57	1.0	4.0	39	18°C	10.2	90	5.0	66	26	92	88
Apr	7.40	1.1	4.0	39	20°C	10.0	106	6.0	83	25	108	105
May	7.56	1.2	4.0	38	22°C	9.8	95	7.0	69	29	98	94
June	7.72	1.0	4.0	39	20°C	9.8	93	6.0	65	29	94	91
July	7.66	BDL (<1)	BDL (<5)	47	20°C	9.7	95	6.0	71	27	98	96
Aug	7.6	BDL (<1)	BDL (<5)	39	17°C	10	100	7	80	30	110	100
Sept	7.86	BDL (<1)	BDL (<5)	33	19°C	9.8	58	6.0	54	34	88	86
Oct	7.94	BDL (<1)	BDL (<5)	38	22°C	9.8	79	4.0	51	15	66	72
<b>2023</b>												
Jan	7.14	1.0	4.0	39	14	10.6	97	4.0	73	17	90	86
Feb	7.29	1.0	4.0	47	18	10.4	69	6.0	66	10	76	83
Mar	8.20	1.0	4.0	46	17	10.6	90	7.0	68	30	98	93
Apr	8.10	1.0	4.0	39	18	10.4	83	7.0	82	08	90	86
May	7.97	1.0	4.0	43	19	10.0	91	6.0	86	18	104	78
June	7.40	1.1	4.0	39	1.1	9.6	66	5.0	53	22	75	70
July	8.10	1.2	4.0	46	1.2	9.2	31	3.0	40	05	45	43
Aug	8.03	1.1	4.0	40	1.1	9.6	65	5.0	62	10	72	64
Sept	8.35	1.0	4.0	32	1.0	9.8	79	4.0	50	14	64	75
Oct	7.92	1.0	4.0	27	1.0	10.0	70	4.0	56	12	68	66
Nov	7.98	1.0	4.0	26	1.0	10.2	69	4.0	58	15	73	69
<b>2022</b>												
Jan	7.90	1.0	4.0	32	14	9.8	140	7	170	30	200	74
Feb	7.25	1.0	4.0	38	18	9.8	76	8	100	20	120	73

Mar	7.30	1.0	4.0	33	12	10.8	61	6	62	36	98	82
Apr	7.49	1.0	4.0	32	16	10.2	66	5.5	50	23	73	85
May	7.29	1.0	4.0	38	19	10.2	89	5	81	23	104	79
June	7.40	1.8	8	84	25.6	8.1	68	8	32	90	122	149.1
July	7.30	1.0	4.0	47	23	9.6	50	3.0	58	12	70	71
Aug	7.10	1.0	4.0	48	22	9.4	66	3.0	60	12	72	56
Sept	7.97	1.0	4.0	47	20	9.6	55	5.0	57	19	76	63
Oct	8.31	1.0	4.0	41	20	9.8	64	6.0	61	17	78	70
Nov	7.30	1.0	4.0	39	16	10.2	105	7.0	96	34	130	67
Dec	8.11	1.0	4.0	49	16	10.2	93	7.0	87	28	115	105
2021												
Jan	7.54	1.2	4	47	15	10.8	80	7	54	46	100	121
Feb	7.4	1	4	40	10	9.8	130	7	57	36	93	95
Mar	7.7	1	4	38	18	9.8	100	8	56	30	86	90
Apr	7.56	1	4	34	20	9.6	85	6	53	18	71	77
May	7.68	1.2	4	38	20	9.8	90	7	48	24	72	95.5
June	7.94	1	4	46		9.8	62	10	50	15	65	154
July	7.75	1.2	4	40	21	9.0	30	7	62	12	74	80
Aug	8.16	1.4	4	38		9	45	9	50	20	70	67
Sept	8.12	1.2	4	32		9.6	67	7	55	19	74	81
Oct	7.87	1	4	26		9.4	61	7.5	60	14	74	75.2
Nov	8.24	1.2	4	32		9.2	50	8	60	30	90	182
Dec	7.63	1	4	3	17	10.4	70	7	50	13	69	82
2020												
Jan	7.66	<1	4	50	17	10.6	62	8	40	24	64	74
Feb	8.0	<1	4	50	17	10.4	65	9	56	28	84	74
Mar	7.50	<1	4	40	19	10.4	60	10	48	22	70	75
Apr	7.5	0.8	4	40	19	9.8	45	6.5	30	20	50	80
May	8.0	0.4	4	40	18	9	50	12.5	35	20	55	78
June	7.57	1	4	40	20	9.4	65	6	35	25	60	63
July	8.04	1	4	40	20	9.2	74	7.5	40	23	63	60
Aug	7.8	1	4	50	22	9.4	140	7.5	105	45	150	62
Sept	7.52	1	4	50	25	10	68	9	33	20	53	104
Oct	8.05	1	4	40	24	9.8	63	7	55	17	72	86
Nov	7.4	1	5	38	16	10	67	10	55	19	74	110
Dec	7.0	1	4	32	18	9.8	90	8	50	20	70	114
2019												
Jan	7.92	<1	4	60	17	10	68	5	40	38	78	110
Feb	7.62	<1	5	60	16	9.8	72	5	44	36	80	105
Mar	7.56	<1	4	70	20	9	68	4	40	34	74	90
Apr	7.68	<1	4	70	19	9.6	64	5	40	36	76	94
May	7.52	<1	4	80	19	9.8	70	5	36	32	78	90
June	7.68	<1	4	90	20	9.6	74	6	46	34	80	88
July	7.86	<1	4	80	19	9.6	76	5	44	28	72	84
Aug	7.32	<1	4	90	18	10	72	5	42	36	78	85
Sept	8.29	<1	4	80	22	9	64	7	42	30	72	76

Oct	7.78	<1	4	70	20	9.6	62	6	44	26	70	66
Nov	8.04	<1	4	60	19	11.2	68	5	46	24	70	72
Dec	8.04	<1	4	50	18	10	71	8	42	18	60	100
<b>2018</b>												
Jan	7.54	<1	4	60	16	9.6	72	5	42	36	78	102
Feb	7.74	<1	4	70	16	9.8	68	6	40	34	74	108
Mar	7.52	<1	4	40	19	9.6	64	6	38	32	70	94
Apr	7.56	<1	4	60	20	9.6	66	4	38	34	72	90
May	7.52	<1	4	90	21	9.8	70	6	40	36	76	94
June	7.58	<1	4	110	20	9.2	72	6	42	32	74	92
July	7.38	<1	4	70	20	9.6	76	6	46	40	86	96
Aug	7.48	<1	4	60	20	9.6	72	5	44	40	84	88
Sept	7.42	<1	4	70	20	9.4	74	5	46	40	86	92
Oct	7.85	<1	4	60	19	9.6	72	6	44	40	84	88
Nov	7.76	<1	4	40	17	9.4	68	6	42	36	78	92
Dec	7.82	<1	4	50	17	9.8	70	5	42	40	82	94

**GANGA AT HARIDWAR U/S BHINDHUGHAT, DUDHIYABAN, HARIDWAR**

Month	pH	BOD mg/ L	COD mg/L	Total Coliform (MPN/ 100 mL)	Temp °C	DO mg/L	Alkalinity CaCO3 mg/L	Chlorid es mg/L	Calcium as Cl mg/L	Magnesium as Mg mg/L	Hardness as CaCO3 mg/L	TDS mg/L
<b>2025</b>												
Jan	7.9	1.6	6	140	17.9	9.7	98	8	50	59	109	115
Feb	7.80	1	6	120	19.0	10.5	58	11	36	27	63	147.2
Mar	7.8	2.0	9	170	19.5	9.2	129	12	65	67	132	190
Apr	8.2	1.6	9	110	27.3	9.80	126	9	44	50	94	151.0
May	8.2	1.2	7	170	27.1	8.30	122	9	57	60	117	165
June	8.5	1.8	8	170	24.0	9.48	118	10	54	58	112	170.2
July	7.86	2.8	10	170	25.9	9.21	166	5	72	88	160	251.52
Aug	8.0	2.4	11	140	24.0	8.91	166	7	68	84	152	226.5
Sept	8.2	2.8	9	170	25.6	9.0	171	7	65	98	163	230
Oct	7.3	2.6	8	140	27.0	9.2	140	6	59	83	142	216
Nov	7.9	2.4	7	170	18.6	9.8	156	5	56	84	140	195
Dec	8.3	2.2	7	220	15.5	9.8	132	5	48	88	136	186
<b>2024</b>												
Jan	8.20	1.4	8.0	110	15.3	8.7	92	7.0	48	54	102	124
Feb	7.70	1.2	8.0	140	16.2	9.2	90	7.0	45	69	114	170
Mar	7.90	1.4	8.0	110	18.9	8.6	102	6.0	50	60	110	198
Apr	7.90	1.2	8.0	120	23.5	8.8	120	8.0	42	68	110	150
May	7.40	1.8	10.0	140	22.4	8.4	132	7.0	50	66	116	167
June	7.3	2.4	10.4	140	23.9	7.6	124	8.0	43	77	120	240
July	7.29	2.6	12	140	22.6	7.4	121	5.0	50	60	110	248
Aug	7.28	2.2	9	140	23	7.8	128	8	48	74	122	208.6
Sept	7.21	2.6	10	140	21.6	7.8	185	10	45	51	96	235
Oct	7.9	1	7	170	23	8	120	8	55	60	115	121
<b>2023</b>												
Jan	8.16	2.0	8.0	84	16.8	9.8	64	13.0	31	56	87	276
Feb	8.29	1.6	7.4	84	18.2	9.8	78	11.0	30	44	74	242
Mar	7.56	1.2	6.0	84	21.7	8.76	224	8.0	18	15	33	140
Apr	7.80	1.4	6.8	110	22.0	9.4	220	9.6	20	24	44	160
May	7.88	1.8	7.0	79	23.7	8.8	82	8.0	52	70	122	192
June	7.40	1.4	6.2	94	22.4	8.4	60	10.0	26	32	58	143
July	8.14	2.2	12.0	140	25.3	7.9	57	5.0	38	30	68	201

Aug	7.80	2.6	12.0	140	22	7.6	154	10.0	109	32	141	170
Sept	7.31	1.8	10.0	170	25	8.6	94	8.0	42	36	78	204
Oct	7.32	1.6	9.0	110	24.7	8.2	98	8.0	72	18	90	190
Nov	7.46	1.4	8.0	140	23.1	8.1	94	7.0	59	25	84	177
2022												
Jan	8.30	1	4	84	16	9.8	80	5	56	11	67	138
Feb	7.8	2	10	70	15.5	9.2	88	7	22	14	36	148
Mar	7.10	1.2	12	84	19.3	8.6	97	10	57	28	85	425
Apr	7.40	2.0	5.0	70	19.5	8.1	85	20	13	11	24	106.6
May	7.30	1.4	4	70	24.1	8	86	5	8	8	16	84.4
June	7.30	1.8	8	110	22.7	7.8	72	7	28	106	134	128.6
July	8.20	2.0	5.0	94	30.6	8.20	82	15	15	12	27	93.4
Aug	7.90	1.2	6.0	110	23	8.3	80	12	53	33	86	188
Sept	7.60	2.6	10	110	28	7.8	185	10	51	45	96	235
Oct	8.10	1.4	7.0	79	23.7	8.4	82	9.4	32	14	46	180
Nov	7.80	2.0	7.0	84	24.4	8.2	176	12.0	30	36	66	171
Dec	8.37	1.2	6.0	79	16.4	10.0	70	10.0	12	46	58	183
2021												
Jan	7.59	1.2	6	110	16	8.2	92	8	92	48	140	155
Feb	7.72	1.2	4	120	18	10.8	129	8	63	45	108	92
Mar	8.3	1.0	4	94	20	9.6	102	8	74	25	99	141
Apr	7.73	1.2	4	84	22.2	8.4	98	14	76	22	98	121.9
May	7.87	1.2	6	70	27	10	95	10	65	35	100	125.6
June	8.0	1	6	84		8.95	75	07	64	18	82	186
July	7.91	1.2	6	70	24.5	9.4	70	9	58	12	70	108
Aug	8.32	1.4	6	84		9.8	82	12	80	50	130	101
Sept	7.52	1.4	4	79		8.8	85	12	69	24	93	168.32
Oct	7.6	1	4	70		8.6	60	10	50	38	88	150.7
Nov	8.3	2.5	7	70		9.6	85	10	64	28	92	137.6
Dec	8.30	1	4	79	20	9.9	65	9	42	16	58	179
2020												
Jan	7.7	1	6	90	17	10.8	100	9	50	42	92	126
Feb	7.5	<1	4	110	18	10	84	9	56	34	90	113
Mar	7.65	1	6	90	20	9.6	80	10	64	26	90	102
Apr	7.8	1	6	90	20	9.8	70	10	70	24	94	78
May	7.90	1	6	80	19	9.6	63	12.5	65	18	83	75
June	7.7	1	4	60	23	8.8	75	7	65	25	90	104
July	7.47	1.2	6	70	21	8.2	90	10	48	42	90	85
Aug	8.03	1	4	110	24	10.4	95	13	46	24	70	156
Sept	8.04	1	4	90	27	10	65	8	60	15	75	161
Oct	8.12	1	4	70	25	9.6	120	8	87	10	97	179
Nov												
Dec	7.7	1	6	84	20	8.8	138	6	73	22	95	161
2019												
Jan	8.12	<1	4	130	17	9.8	72	5	44	40	84	102
Feb	8.12	<1	4	140	16	9.6	70	6	42	36	78	136

Mar	7.62	1	4	110	19	9.2	72	5	42	38	80	108
Apr	7.64	1	4	130	19	9	74	5	42	40	82	98
May	7.82	1	4	140	20	9.2	70	5	40	36	76	90
June	7.92	1	6	170	20	9	72	6	44	34	78	94
July	7.7	1.2	6	130	19	8.2	75	5	54	30	84	95
Aug	7.92	1	6	140	19	8.8	61	5	42	38	80	90
Sept	8.44	1	6	170	20	9.8	74	7	44	34	78	92
Oct	8.3	1	6	140	20	10.8	110	11	44	24	68	140
Nov	8.4	1	6	140	19	10.6	90	10	44	28	72	113
Dec	8.02	1	6	110	19	10.4	91	5	44	29	73	80
<b>2018</b>												
Jan	7.92	<1	4	110	16	9.8	70	5	40	38	78	97
Feb	8.2	1	6	140	16	9.6	68	6	40	36	76	127
Mar	7.91	1	4	90	18	9.4	70	6	40	34	74	88
Apr	7.82	1	4	110	19	9.2	72	5	42	36	78	98
May	7.82	1	4	140	22	9.4	70	6	40	36	76	90
June	7.92	1	6	170	20	9.2	72	6	44	34	78	98
July	7.62	1	6	130	20	9	80	6	52	38	90	110
Aug	8.13	1	6	220	20	8.8	76	6	52	40	92	101
Sept	8.22	1	6	170	20	9.4	78	6	48	42	90	111
Oct	8.18	<1	6	140	18	9.6	72	6	44	38	82	121
Nov	8.41	<1	4	110	18	9	74	5	44	40	84	126
Dec	8.2	<1	4	140	17	10.2	70	5	42	40	82	100

**RIVER GANGA AT HAR-KI -PAURI, HARIDWAR (UPPER GANGA CANAL)**

Month	pH	BOD mg/L	COD mg/L	Total Coliform (MPN/100 mL)	Temp °C	DO mg/L	Alkalinity CaCO3 mg/L	Chlorides mg/L	Calcium as Cl mg/L	Magnesium as Mg mg/L	Hardness as CaCO3 mg/L	TDS mg/L
<b>2025</b>												
Jan	7.9	1.4	7	140	17.6	9.6	92	9	48	58	106	118
Feb	8.2	1	8	120	18.7	11.1	54	15	40	28	68	126.72
Mar	7.9	2.0	9	130	19.8	9.6	122	9	62	68	130	182
Apr	8.3	1.4	7	220	27.5	9.74	98	8	40	45	85	116.5
May	7.16	1.0	6	240	24.1	8.40	126	8	54	66	120	134
June	8.4	1.6	7	210	24.2	9.28	112	7	46	52	98	125
July	7.21	2.4	9	220	24.1	9.16	170	7	76	92	168	243.2
Aug	8.3	2.6	10	170	23.7	8.98	162	8	86	92	178	203.5
Sept	7.8	2.4	9	220	24.6	9.0	162	5	79	80	159	225
Oct	Canal was closed											
Nov	7.9	2.2	7	220	20	9.8	170	5	65	79	144	200
Dec	8.2	2	6	170	15.2	9.6	164	5	58	72	130	200
<b>2024</b>												
Jan	7.9	1.2	6.0	120	15.9	9.6	107	7.0	49	61	110	182
Feb	8.20	1.0	7.0	110	16.5	9.8	105	6.0	40	72	112	150
Mar	7.70	1.2	7.0	120	19.2	8.8	120	5.0	45	64	109	192
Apr	8.10	1	6.0	110	22	9.1	132	7.0	49	69	118	110
May	7.30	1.4	8.0	150	21.4	8.6	128	6.0	49	63	112	169
June	7.05	2.2	10.0	140	23	7.2	70	7.0	31	81	112	210
July	7.46	2.4	10.0	140	21.7	7.6	110	4.0	53	55	108	243
Aug	7.23	2	9	120	21	7.7	104	8	40	76	116	193.2
Sept	7.31	1.6	8	130	21	8.1	70	10	43	46	89	150
Oct	8.1	1	6	150	23.8	8.3	121	5	50	60	110	103
<b>2023</b>												
Jan	8.21	1.6	7.0	63	14.8	10.3	52	13.0	31	45	76	164
Feb	8.27	1.8	6.8	94	18.1	10.0	62	10.0	28	37	65	152
Mar	7.76	1	10.0	120	21.0	9.18	80	6.0	24	13	37	106.6
Apr	7.70	1.2	5.5	84	21.3	9.6	82	7.0	22	10	32	120
May	8.12	1.6	6.0	70	23.8	9.0	150	6.0	64	55	119	180
June	7.60	2.0	10.0	94	22.8	8.2	92	8.0	28	16	44	134
July	8.16	1.8	10.0	120	22.6	8.5	60	6.0	36	32	68	215

Aug	Canal was Closed											
Sept	7.46	1.6	8.0	120	25	8.4	86	5.0	44	29	73	203
Oct	7.50	1.7	10.0	130	24.9	8.0	88	7.0	68	12	80	140
Nov	Canal was closed due to cleaning purpose before Diwali Festival.											
2022												
Jan	8.20	1	4	94	15	10	75	5	14	10	24	133
Feb	8.1	1	8	63	15	9.5	74	6	15	12	53	125
Mar	7.70	1	8	58	19.5	9.8	73	6	44	22	66	140
Apr	7.90	1.5	5	63	19.3	9	75	10	14	11	25	102
May	7.10	1.6	10	70	25.6	8	74	5	9	6	15	79.3
June	7.60	2.0	10	94	23.1	7.8	59	10	16	124	140	142
July	8.30	1.2	4.0	84	27.3	8.8	72	10	15	14	29	105.6
Aug	7.80	1.6	8.0	120	23	8.1	70	10	43	26	69	150
Sept	7.60	2.4	10	94	27	8.9	171	8	47	44	91	317
Oct	8.0	1.6	8.0	79	22.6	8.2	74	6.6	20	16	36	141
Nov	7.60	2.2	9.0	70	20.5	9.9	161	9.0	24	45	69	140
Dec	7.40	1.0	4.4	63	19.3	10.2	30	4.0	14	96	110	165
2021												
Jan	7.3	1.2	6	70	16	9.6	83	6	75	44	119	126
Feb	7.66	1	4	63	17	9.2	96	6	54	33	87	59
Mar	8.33	1.2	4	70	19	9.4	135	7	38	36	74	95
Apr	7.36	1.2	6	70	21.8	9.6	82	11	54	33	87	79.2
May	8.22	1.2	6	63	26	9.4	122	10	75	42	117	111.2
June	8.0	1.4	6	70		9.02	68	07	70	18	88	170
July	7.82	1.2	4	79	24.2	9.6	63	10	44	36	80	77
Aug	7.92	1.2	4	70		9.4	64	13	70	32	102	96
Sept	7.43	1.2	4	63		9.2	75	8	59	29	88	121.6
Oct	7.8	1	4	63		8.20	60	10	38	84	122	149.12
Nov	7.9	1.5	6	70		9.4	75	10	53	35	88	134.4
Dec	7.20	1	4	63	19	10	68	5	66	14	80	161
2020												
Jan	7.7	<1	4	50	17	10	94	8	72	40	112	122
Feb	8	<1	4	70	18	10.2	70	9	56	36	92	71
Mar	7.54	<1	4	60	19	9.8	80	8.5	40	30	70	105
Apr	7.6	0.6	4	50	19	10.2	60	10	54	18	72	63
May												
June	7.9	0.6	4	40	22	10	70	10	42	22	64	92
July	7.3	1.2	6	80	21	8.8	76	10	37	25	62	88
Aug	7.96	1.2	4	90	23	9.6	80	13	64	6	70	83

Sept	7.85	1	4	80	27	10.6	80	7	52	24	76	162
Oct	8.08	1	4	90	25	8	86	8	82	22	104	195
Nov	7.77	1	4	70	20	10.8	100	11	80	30	110	257
Dec	7.8	1	6	84	20	8.8	56	5	58	27	85	124
<b>2019</b>												
Jan	7.92	<1	4	90	18	9.6	74	5	44	40	84	98
Feb	7.68	<1	4	80	17	9.8	72	5	46	34	80	126
Mar	7.58	<1	4	70	20	9.6	74	5	44	34	78	100
Apr	7.54	<1	4	90	19	9.4	70	5	42	34	76	96
May	7.62	<1	4	110	20	9.2	72	5	42	36	78	88
June	8.4	<1	4	110	20	9	68	5	42	30	72	85
July	8.1	<1	4	90	19	9.8	60	7	42	16	58	81
Aug	7.7	<1	4	80	18	10	64	7	38	22	60	83
Sept	8.05	<1	4	70	22	10.2	79	8	40	30	70	78
Oct	8	<1	4	68	20	9.2	69	10	44	24	60	76
Nov	8.2	<1	4	72	19	10	55	9	44	28	50	105
Dec	8.13	<1	4	70	19	10.2	86	6	46	24	40	97
<b>2018</b>												
Jan	7.89	<1	4	80	16	9.4	68	5	40	34	74	112
Feb	8.14	<1	4	70	16	9	64	5	38	34	72	121
Mar	7.8	<1	6	160	18	9.8	70	5	42	34	76	109
Apr	7.56	<1	4	140	20	9.6	74	5	44	34	78	100
May	7.62	<1	4	170	21	9.4	72	5	42	38	80	88
June	7.94	<1	4	110	20	8.8	74	6	44	40	84	86
July	7.42	<1	4	80	20	9.4	75	6	46	40	86	98
Aug	8.04	<1	4	80	20	9	76	5	46	42	88	106
Sept	8.24	<1	4	70	20	9	80	5	48	44	92	106
Oct	8.18	<1	4	80	18	9.2	78	5	46	40	86	124
Nov	8.4	<1	4	60	18	9	74	5	42	40	82	126
Dec	8.17	<1	4	80	18	10	72	5	42	38	80	100

**GANGA CANAL AT DAMKOTI, HARIDWAR ( UPPER RIVER GANGA CANAL AT HARKI PAURI)**

Month	pH	BOD mg/L	COD mg/L	Total Coliform (MPN/100 mL)	Temp °C	DO mg/L	Alkalinity CaCO3 mg/L	Chlorides mg/L	Calcium as Cl mg/L	Magnesium as Mg mg/L	Hardness as CaCO3 mg/L	TDS mg/L
<b>2025</b>												
Jan	7.8	1.6	8	120	17.8	8.8	97	8	46	62	108	118
Feb	8.1	1.1	5	110	18.5	11.05	59	13	33	27	60	131.84
Mar	7.8	1.8	6	140	19.5	9.4	130	11	66	70	136	188
Apr	8.0	1.4	8	170	26.0	10.41	105	9	42	50	92	128.6
May	8.3	1.4	9	210	26.6	8.51	120	9	51	65	116	133
June	8.2	1.2	8	220	24.3	9.36	110	8	48	60	108	137
July	7.65	2.6	11	170	24.4	8.96	169	5	74	88	162	253.44
Aug	8.3	2.4	9	210	24.4	8.94	154	7	70	76	146	205.4
Sept	8.0	2.2	8	170	24.4	8.8	154	7	60	85	145	224
Oct	Canal was closed											
Nov	8.1	2.2	9	170	20	9.4	162	7	64	90	154	208
Dec	8	2.2	8	210	15.1	9.6	150	6	60	90	150	205
<b>2024</b>												
Jan	8.10	1.2	7.0	94	16.1°C	8.8	110	8.0	52	66	118	192
Feb	7.80	1.2	8.0	94	16.9°C	9.4	100	9.0	50	60	110	200
Mar	7.80	1.4	8.0	84	19°C	8.4	98	6.0	52	58	110	195
Apr	7.50	1.2	9.0	94	21.3°C	8.8	134	9.0	49	67	116	120
May	7.40	1.4	10.0	110	21.6°C	8.2	139	7.0	52	64	116	161
June	7.05	2.2	9.6	94	22.3°C	7.6	85	9.0	20	90	110	190
July	7.16	2.2	12.0	130	20.9°C	7.4	126	5.0	49	61	110	242
Aug	7.11	2	11	170	22°C	7.8	106	7	38	76	114	180.4
Sept	7.2	1.1	8	120	19.8°C	8.3	56	8	43	45	88	176.64
Oct	7.5	2	11	140	24°C	8.2	125	9	69	76	145	131
<b>2023</b>												
Jan	8.17	1.8	8.0	79	15.6	10.2	60	11.0	41	45	86	245
Feb	8.24	1.5	6.4	70	18.1	10.2	65	10.0	28	52	80	220
Mar	8.1	1	8.0	150	22.5	9	80	6.0	20	30	50	120.25
Apr	8.00	1.2	6.5	70	21.0	9.4	79	8.0	18	28	46	125
May	7.92	1.8	8.0	70	23.2	8.4	98	5.0	60	58	118	186
June	7.30	1.8	7.8	84	23.2	8.0	79	8.0	18	24	42	166
July	8.16	1.8	10.0	150	24.0	7.7	70	9.0	30	28	58	245

<b>Aug</b>	<b>Canal was closed</b>											
<b>Sept</b>	7.79	1.4	7.0	120	24	8.1	102	6.0	49	31	80	193
<b>Oct</b>	7.20	1.5	8.0	110	24.8	7.6	94	9.0	66	19	85	230
<b>Nov</b>	<b>Canal was closed due to cleaning purpose before Diwali Festival.</b>											
<b>2022</b>												
<b>Jan</b>	8.40	1	4	84	16	10.2	85	10	23	13	36	133.7
<b>Feb</b>	7.4	1.1	6	79	15.1	9.4	76	6	19	10	29	131.8
<b>Mar</b>	7.80	1	8	94	19.5	9.2	67	8	43	20	63	117.18
<b>Apr</b>	7.30	1.5	8	79	19	8.8	95	15	19	11	30	115.5
<b>May</b>	7.80	1	5	79	25.2	9.3	88	6	10	9	19	98.5
<b>June</b>	7.30	2.0	8.0	110	21.9	8.2	67	8	34	86	120	147
<b>July</b>	8.30	1.8	7.0	110	24.8	8.5	86	15	18	14	32	99.2
<b>Aug</b>	7.50	1.1	8.0	12	22	83	56	8.0	23	32	55	177
<b>Sept</b>	7.60	2.2	8	110	26	8.2	170	9	46	40	86	311
<b>Oct</b>	8.30	1.2	9.0	70	22.1	8.3	80	9.0	22	12	34	119
<b>Nov</b>	7.70	1.8	7.0	70	19.7	8.5	172	8.0	29	45	74	146.5
<b>Dec</b>	7.60	1.0	5.2	79	15.6	10.0	170	4.0	10	74	84	189
<b>2021</b>												
<b>Jan</b>	7.64	1.2	6	84	16	9.8	93	7.5	100	56	156	169
<b>Feb</b>	7.68	1	4	70	17	9.8	115	8	63	22	85	84
<b>Mar</b>	8.2	1	4	79	20	9.4	138	8	66	27	93	117
<b>Apr</b>	7.25	1	4	70	22.5	8.4	81	11	68	20	88	102.7
<b>May</b>	8.08	1	4	63	26	9.6	90	8	60	20	80	402
<b>June</b>	8.0	1	4	70		8.86	72	8.5	65	15	80	177
<b>July</b>	7.94	1.2	4	84	24.6	9.0	65	10	48	22	70	90
<b>Aug</b>	7.82	1.6	4	79		9.4	67	12	60	30	90	92
<b>Sept</b>	7.12	1.2	4	84		9.4	70	9	68	27	95	128
<b>Oct</b>	7.4	1	4	79		8.2	60	10	52	32	84	140.16
<b>Nov</b>	7.6	1.5	4	79		9	90	10	66	29	95	124.16
<b>Dec</b>	7.80	1	4	70	18	9.8	100	6	72	12	84	184.96
<b>2020</b>												
<b>Jan</b>	7.8	<1	4	40	16	11.4	81	8	54	28	82	94
<b>Feb</b>	8	<1	4	70	18	10.2	70	9	56	36	92	71
<b>Mar</b>	6.82	<1	4	50	19	10.4	72	9	58	38	96	99
<b>Apr</b>	7.7	0.6	4	50	19	9.8	75	6.5	70	20	90	69
<b>May</b>	8.12	0.8	4	60	18	9.2	68	8.5	62	20	82	82
<b>June</b>	7.9	1	4	60	22	9	80	7.5	38	24	62	88

<b>July</b>	<b>7.59</b>	<b>1</b>	<b>4</b>	<b>70</b>	<b>22</b>	<b>8.6</b>	<b>76</b>	<b>9</b>	<b>35</b>	<b>30</b>	<b>65</b>	<b>90</b>
<b>Aug</b>	<b>7.9</b>	<b>1</b>	<b>4</b>	<b>80</b>	<b>24</b>	<b>10.2</b>	<b>79</b>	<b>14</b>	<b>52</b>	<b>42</b>	<b>94</b>	<b>124</b>
<b>Sept</b>	<b>8.31</b>	<b>1</b>	<b>4</b>	<b>90</b>	<b>27</b>	<b>10.4</b>	<b>77</b>	<b>7</b>	<b>53</b>	<b>23</b>	<b>76</b>	<b>161</b>
<b>Oct</b>	<b>8.01</b>	<b>1</b>	<b>4</b>	<b>70</b>	<b>25</b>	<b>9</b>	<b>90</b>	<b>10</b>	<b>80</b>	<b>29</b>	<b>109</b>	<b>202</b>
<b>Nov</b>												
<b>Dec</b>	<b>8.0</b>	<b>1</b>	<b>6</b>	<b>70</b>	<b>19</b>	<b>10</b>	<b>93</b>	<b>7.5</b>	<b>72</b>	<b>30</b>	<b>102</b>	<b>162</b>
<b>2019</b>												
<b>Jan</b>	<b>8.05</b>	<b>&lt;1</b>	<b>4</b>	<b>80</b>	<b>17</b>	<b>9.8</b>	<b>70</b>	<b>5</b>	<b>42</b>	<b>38</b>	<b>80</b>	<b>94</b>
<b>Feb</b>	<b>7.72</b>	<b>&lt;1</b>	<b>4</b>	<b>60</b>	<b>16</b>	<b>10</b>	<b>72</b>	<b>5</b>	<b>40</b>	<b>36</b>	<b>76</b>	<b>115</b>
<b>Mar</b>	<b>7.68</b>	<b>&lt;1</b>	<b>4</b>	<b>70</b>	<b>19</b>	<b>9.6</b>	<b>70</b>	<b>5</b>	<b>42</b>	<b>36</b>	<b>80</b>	<b>94</b>
<b>Apr</b>	<b>7.62</b>	<b>&lt;1</b>	<b>4</b>	<b>90</b>	<b>18</b>	<b>10</b>	<b>72</b>	<b>5</b>	<b>44</b>	<b>38</b>	<b>82</b>	<b>90</b>
<b>May</b>	<b>7.64</b>	<b>&lt;1</b>	<b>4</b>	<b>110</b>	<b>19</b>	<b>9.8</b>	<b>74</b>	<b>5</b>	<b>42</b>	<b>38</b>	<b>80</b>	<b>96</b>
<b>June</b>	<b>8</b>	<b>&lt;1</b>	<b>4</b>	<b>90</b>	<b>20</b>	<b>9.4</b>	<b>78</b>	<b>5</b>	<b>70</b>	<b>28</b>	<b>98</b>	<b>90</b>
<b>July</b>	<b>8.12</b>	<b>&lt;1</b>	<b>4</b>	<b>110</b>	<b>19</b>	<b>8.6</b>	<b>58</b>	<b>5</b>	<b>52</b>	<b>18</b>	<b>70</b>	<b>86</b>
<b>Aug</b>	<b>7.8</b>	<b>&lt;1</b>	<b>4</b>	<b>90</b>	<b>18</b>	<b>9</b>	<b>60</b>	<b>7</b>	<b>46</b>	<b>26</b>	<b>72</b>	<b>85</b>
<b>Sept</b>	<b>8.21</b>	<b>&lt;1</b>	<b>4</b>	<b>80</b>	<b>20</b>	<b>10.4</b>	<b>65</b>	<b>9</b>	<b>44</b>	<b>30</b>	<b>74</b>	<b>80</b>
<b>Oct</b>	<b>8.12</b>	<b>&lt;1</b>	<b>4</b>	<b>70</b>	<b>21</b>	<b>10.6</b>	<b>75</b>	<b>15</b>	<b>44</b>	<b>28</b>	<b>72</b>	<b>83</b>
<b>Nov</b>	<b>8.2</b>	<b>&lt;1</b>	<b>4</b>	<b>60</b>	<b>19</b>	<b>11</b>	<b>68</b>	<b>8</b>	<b>42</b>	<b>32</b>	<b>74</b>	<b>92</b>
<b>Dec</b>	<b>8.04</b>	<b>&lt;1</b>	<b>4</b>	<b>50</b>	<b>19</b>	<b>10.6</b>	<b>74</b>	<b>8</b>	<b>40</b>	<b>32</b>	<b>72</b>	<b>73</b>
<b>2018</b>												
<b>Jan</b>	<b>7.95</b>	<b>&lt;1</b>	<b>4</b>	<b>60</b>	<b>16</b>	<b>9.8</b>	<b>70</b>	<b>5</b>	<b>42</b>	<b>34</b>	<b>76</b>	<b>97</b>
<b>Feb</b>	<b>7.93</b>	<b>&lt;1</b>	<b>4</b>	<b>110</b>	<b>18</b>	<b>10</b>	<b>68</b>	<b>5</b>	<b>42</b>	<b>32</b>	<b>74</b>	<b>81</b>
<b>Mar</b>	<b>7.72</b>	<b>&lt;1</b>	<b>4</b>	<b>90</b>	<b>19</b>	<b>9.6</b>	<b>70</b>	<b>5</b>	<b>44</b>	<b>38</b>	<b>82</b>	<b>94</b>
<b>Apr</b>	<b>7.66</b>	<b>&lt;1</b>	<b>4</b>	<b>110</b>	<b>20</b>	<b>9.8</b>	<b>74</b>	<b>5</b>	<b>44</b>	<b>40</b>	<b>84</b>	<b>98</b>
<b>May</b>	<b>7.94</b>	<b>&lt;1</b>	<b>4</b>	<b>90</b>	<b>20</b>	<b>9</b>	<b>70</b>	<b>5</b>	<b>42</b>	<b>36</b>	<b>78</b>	<b>92</b>
<b>June</b>	<b>7.58</b>	<b>&lt;1</b>	<b>4</b>	<b>80</b>	<b>20</b>	<b>9.4</b>	<b>84</b>	<b>6</b>	<b>54</b>	<b>42</b>	<b>96</b>	<b>102</b>
<b>July</b>	<b>8.13</b>	<b>&lt;1</b>	<b>4</b>	<b>70</b>	<b>22</b>	<b>9</b>	<b>78</b>	<b>5</b>	<b>54</b>	<b>38</b>	<b>92</b>	<b>101</b>
<b>Aug</b>	<b>8.2</b>	<b>&lt;1</b>	<b>4</b>	<b>90</b>	<b>20</b>	<b>9</b>	<b>74</b>	<b>5</b>	<b>48</b>	<b>38</b>	<b>86</b>	<b>107</b>
<b>Sept</b>	<b>8.13</b>	<b>&lt;1</b>	<b>4</b>	<b>80</b>	<b>18</b>	<b>9.2</b>	<b>72</b>	<b>6</b>	<b>44</b>	<b>40</b>	<b>84</b>	<b>122</b>
<b>Oct</b>	<b>8.34</b>	<b>&lt;1</b>	<b>4</b>	<b>70</b>	<b>18</b>	<b>9</b>	<b>68</b>	<b>5</b>	<b>42</b>	<b>36</b>	<b>78</b>	<b>126</b>
<b>Nov</b>	<b>8.24</b>	<b>&lt;1</b>	<b>4</b>	<b>90</b>	<b>17</b>	<b>10</b>	<b>72</b>	<b>5</b>	<b>42</b>	<b>40</b>	<b>82</b>	<b>100</b>

### GANGA CANAL AT LALITA RAO BRIDGE, HARIDWAR

Month	pH	BOD mg/L	COD mg/L	Total Coliform (MPN/ 100 mL)	Temp °C	DO mg/L	Alkalinity CaCO3 mg/L	Chlorides mg/L	Calcium as Cl mg/L	Magnesium as Mg mg/L	Hardness as CaCO3 mg/L	TDS mg/L
<b>2025</b>												
Jan	7.5	1.6	8	120	17.6	8.8	97	8	46	62	108	121
Feb	8.2	1.1	5	110	18.5	11.05	59	13	33	27	60	127.36
Mar	7.6	1.8	6	140	19.7	9.4	130	11	66	70	136	188
Apr	8.3	1.4	8	170	26.7	10.41	105	9	42	50	92	117.8
May	7.9	1.4	9	210	24.5	8.51	120	9	51	65	116	136
June	8.0	1.2	8	220	24.5	9.36	110	8	48	60	108	129.2
July	7.52	2.6	11	170	25.2	8.96	169	5	74	88	162	248.96
Aug	8.2	2.4	9	210	24.2	8.94	154	7	70	76	146	196
Sept	8.1	2.2	8	170	24.5	8.8	154	7	60	85	145	218
Oct	Canal was Closed											
Nov	8.2	2.2	9	170	19	9.4	162	7	64	90	154	198
Dec	8.3	2.2	8	210	14.9	9.6	150	6	60	90	150	200
<b>2024</b>												
Jan	8.3	1.2	8.0	120	15.7	9.1	97	9.0	45	60	105	227
Feb	7.90	1.4	9.0	130	17	9.6	90	9.0	40	68	108	210
Mar	7.40	1.4	7.0	170	18.8	8.8	122	6.0	54	58	112	197
Apr	7.20	1.8	9.0	140	21.6	8.9	136	9.0	50	62	112	110
May	7.20	1.4	9.0	120	21.6	8.2	130	8.0	51	61	112	163
June	7.02	2.2	9.0	130	22.5	7.4	80	8.0	28	82	110	200
July	7.45	2.4	11.0	130	21.6	7.6	122	5.0	54	58	112	243
Aug	7.19	2	10	110	21	7.9	110	7	49	62	111	188.8
Sept	7.26	1.6	5	130	20.1	8.2	73	5	38	42	80	101.76
Oct	7.6	1.6	9	140	23	8.8	120	10	65	75	140	115
<b>2023</b>												
Jan	8.15	1.6	7.0	70	15.0	10.4	56	15.0	31	48	79	161
Feb	8.32	1.5	7.0	70	17.7	10.2	60	10.0	26	55	81	140
Mar	7.95	2.3	9.0	63	20.4	9.08	90	7.0	15	14	29	115.5
Apr	7.90	2.0	6.4	63	21.8	9.0	86	7.8	12	18	30	110
May	8.02	1.8	8.0	79	22.1	8.6	169	6.0	79	64	143	183
June	7.70	2.0	8.0	110	23.9	8.1	78	8.0	14	20	34	150
July	8.20	1.8	10.0	140	24.7	7.8	63	9.0	40	32	72	214
Aug	Canal was closed											
Sept	7.81	1.6	8.0	110	24°C	8.4	89	6.0	42	34	76	190
Oct	7.60	1.6	9.0	140	25°C	7.8	90	8.0	55	15	70	220

Nov	Canal was closed due to cleaning purpose before Diwali Festival.											
<b>2022</b>												
Jan	8.30	1	4	79	15	9.8	75	5	35	12	47	119
Feb	7.7	1.1	6	70	15	9.1	72	8	19	15	34	124.5
Mar	7.60	1	8	63	19.1	8.9	71	6	47	18	65	122.9
Apr	7.50	1.6	5	79	19.4	8.1	75	10	19	15	34	190.7
May	7.20	1.5	5	70	23.3	8.3	75	7	9	6	15	102.4
June	7.70	1.2	8.0	94	24.9	7.5	70	8	20	86	106	172.2
July	8.20	1.6	5.0	94	25.7	8.2	73	5	20	15	35	101.8
Aug	7.70	1.1	5.0	94	22	7.5	62	8.0	39	23	62	155
Sept	7.50	2.4	8.0	94	27	8.2	172	8.0	42	39	81	315
Oct	8.10	1.4	8.0	63	22.6	8.3	70	7.0	24	14	38	132
Nov	7.60	2.0	8.0	63	20.2	8.8	168	9.0	22	40	62	154
Dec	7.50	1.0	4.8	70	15.4	10.0	64	6.0	12	67	79	160
<b>2021</b>												
Jan	7.61	1.2	6	94	16	9.4	60	8	65	37	102	150
Feb	7.71	1.2	4	84	17	10	105	8	53	39	92	67
Mar	8.3	1.2	4	70	19	9.2	122	8	49	31	80	97
Apr	7.61	1	4	79	20.9	8.8	85	13	59	8	67	111.4
May	7.8	1.2	4	70	26	9.0	102	11	80	13	93	106.8
June	8.0	1	4	79		8.9	80	07	55	14	69	170
July	8.10	1.2	4	70	24.9	9.4	55	7	42	38	80	79
Aug	7.67	1.2	4	63		9.6	120	14	70	10	80	91
Sept	7.9	1.4	4	70		9.2	80	9	63	34	97	130.56
Oct	7.3	1	4	63		8.4	60	15	58	24	82	161.28
Nov	7.5	1.6	5	63		9.5	75	10	58	27	85	128.64
Dec	7.50	1	4	70	18	9.6	65	6	38	18	56	158
<b>2020</b>												
Jan	7.6	<1	4	40	17	10.6	86	8	80	44	124	93
Feb	7.9	<1	4	70	18	10.4	65	9	60	30	90	74
Mar	7.44	<1	4	60	19	9.8	60	6.5	58	24	82	100
Apr	7.9	0.8	4	50	19	9.2	72	6	52	32	84	68
May	8.09	0.6	4	70	19	9.4	72	7.5	55	30	85	80
June	7.6	0.8	4	60	22	9	60	8	35	20	55	77
July	7.51	1	4	50	20	8.8	65	10	35	25	60	60
Aug	8.0	1.2	4	90	23	9.8	14	4	47	40	87	122
Sept	7.96	1	4	110	27	9.6	75	10	56	28	84	162
Oct	8.03	1.2	6	130	25	8.4	75	7	56	33	89	164
Nov												
Dec	7.4	1	6	110	20	9.6	77	6	55	33	88	163

2019												
Jan	7.95	<1	4	110	17	9.6	70	5	42	40	82	96
Feb	7.85	<1	4	80	17	9.8	72	6	42	36	78	110
Mar	7.62	<1	4	90	19	9.4	76	5	44	40	84	102
Apr	7.65	<1	4	80	19	9.4	78	5	44	42	86	94
May	7.72	<1	4	90	20	9.4	76	6	42	40	82	98
June	8.36	<1	4	130	20	9.2	74	5	52	30	82	97
July	8.09	<1	4	110	19	9	64	8	48	14	62	84
Aug	8	<1	4	90	18	10	76	6	48	30	78	83
Sept	8.18	<1	4	80	22	10	78	6	42	32	74	79
Oct	8.1	<1	4	90	20	9	76	7	42	28	70	73
Nov	8.1	<1	4	60	18	9.2	70	9	46	32	78	93
Dec	8.4	<1	4	50	19	9.8	80	6	71	20	91	77
20018												
Jan	7.91	<1	4	80	16	9	68	5	42	36	78	112
Feb	7.93	<1	4	70	16	9.2	64	6	40	30	70	126
Mar	7.77	<1	6	90	18	10.2	62	6	40	38	78	108
Apr	7.62	<1	4	130	19	9.4	80	5	44	36	80	102
May	7.74	<1	4	170	21	9.4	76	5	42	40	82	96
June	7.91	<1	4	130	20	8.8	72	5	44	36	80	94
July	7.52	<1	4	90	20	9.4	82	6	54	44	98	105
Aug	8.11	<1	4	110	20	9.2	80	5	56	40	96	104
Sept	8.25	<1	4	90	20	9.8	72	5	44	40	84	106
Oct	8.05	<1	4	70	18	9.4	68	5	40	38	78	122
Nov	8.15	<1	4	80	18	9.2	70	6	42	38	80	125
Dec	8.23	<1	4	90	17	10.2	74	6	44	40	84	100

**GANGA CANAL D/S HAR-KI -PAURI, HARIDWAR AT RISHIKUL BRIDGE**

Month	pH	BOD mg/L	COD mg/L	Total Coliform (MPN/ 100 mL)	Temp °C	DO mg/L	Alkalinity CaCO3 mg/L	Chlorides mg/L	Calcium as Cl mg/L	Magnesium as Mg mg/L	Hardness as CaCO3 mg/L	TDS mg/L
<b>2025</b>												
Jan	7.9	1.8	9	170	17.6	8.8	98	10	46	60	106	125
Feb	8.2	1.2	10	140	18.7	11.1	58	12	34	31	65	124.8
Mar	7.9	2.2	11	170	19.8	9.6	129	11	62	70	132	186
Apr	8.3	1.2	7	140	27.5	9.49	90	10	35	46	81	154.2
May	7.16	1.4	8	170	24.1	7.21	126	10	51	69	120	138
June	8.4	1.8	8	220	24.2	9.41	112	10	54	62	116	148
July	7.21	2.8	12	170	24.1	8.91	168	8	79	92	171	241.92
Aug	8.3	2.2	11	210	23.7	8.99	162	10	78	96	174	244.4
Sept	7.8	2.4	9	170	24.6	8.8	161	5	69	81	150	240
Oct	Canal was closed											
Nov	7.9	2.6	10	280	17.6	9.6	180	8	72	96	168	125
Dec	8.2	2.4	9	220	18.7	9.4	172	7	74	88	162	124.8
<b>2024</b>												
Jan	8.30	1.4	8.0	110	15	9.1	118	10.0	60	69	129	149
Feb	8.00	1.2	7.0	170	17.1	9.6	110	7.0	55	79	134	120
Mar	7.60	1.2	6.0	150	18.5	8.6	118	7.0	55	59	114	193
Apr	7.50	2	10.0	130	20.9	9	149	9.0	50	70	120	180
May	7.40	1.6	12.0	120	21.9	8.4	132	8.0	52	59	111	162
June	7.08	2	11.0	120	21.8	8	75	8.0	26	88	114	140
July	7.41	2.2	10.0	120	21.5	7.4	126	4.0	51	62	113	243
Aug	7.09	2.4	10	150	22	7.9	114	9	40	70	110	154.8
Sept	7.26	1.2	7	170	20.6	8.8	80	15	42	46	88	207.3
Oct	7.5	1.2	7	140	23.5	8.4	140	10	50	75	125	117
<b>2023</b>												
Jan	8.21	1.6	7.0	63	15.6	10.3	52	13.0	31	45	76	164
Feb	8.27	1.8	6.8	94	18.7	10.0	62	10.0	28	37	65	152
Mar	7.76	1	10.0	120	22.0	9.18	80	6.0	24	13	37	106.6
Apr	7.70	1.2	5.5	84	21.5	9.6	82	7.0	22	10	32	120
May	8.12	1.6	6.0	70	25.7	9.0	150	6.0	64	55	129	188
June	7.90	2.2	8.8	94	24.8	7.9	115	10.0	42	30	72	173
July	8.20	1.4	8.0	150	24.1	7.8	64	9.0	35	25	60	218
Aug	Canal was closed.											
Sept	7.56	1.6	9.0	140	25°C	8.6	89	8.0	40	38	78	198

Oct	7.80	1.6	10.0	110	25°C	7.7	90	9.0	55	33	88	215
Nov	Canal was closed due to cleaning purpose before Diwali Festival.											
2022												
Jan	8.20	1	4	94	15	10.2	75	10	27	15	42	133
Feb	7.9	1.2	8	84	15.3	9.5	74	7	41	12	53	124
Mar	7.80	1	8	70	19.2	9.2	78	6	53	18	71	120.3
Apr	7.60	1.2	7	79	18.8	8.8	80	15	28	19	47	207.3
May	7.60	1	4	84	25	9.5	73	3	8	11	19	96
June	7.40	1.8	8	84	25.6	8.1	68	8.0	32	90	122	149.1
July	8.30	1.5	6.0	120	24.2	8.5	78	15	22	18	40	103.7
Aug	7.20	1.6	10	94	22	7.9	59	6.0	31	40	71	161
Sept	7.60	2.6	12	84	26	8.6	164	8	52	48	90	249
Oct	8.0	1.8	8.0	84	22.3	8.6	72	8.0	32	14	46	136
Nov	7.80	2.0	9.0	94	20.1	8.6	169	10.0	24	30	54	152
Dec	7.40	1.0	4.8	70	15.7	10.0	250	9.0	10	78	88	186
2021												
Jan	7.7	1.2	6	70	17	9	85	6	85	53	138	163
Feb	7.42	1.2	4	84	16	8.2	100	6	60	45	105	82
Mar	8.34	1.4	6	94	20	9.2	120	9	53	37	90	123
Apr	7.8	1.2	6	84	21.9	8.2	84	13	71	13	84	104.5
May	7.76	1.4	6	94	25	9.8	92	11	66	20	86	106.2
June	7.94	1	4	46		9.8	62	10	50	15	65	154
July	7.85	1.4	6	94		9.4	55	9	52	36	88	95
Aug	7.46	1.6	6	84		8.8	66	12	76	36	112	105
Sept	7.13	1.2	4	79		8.8	80	11	58	33	91	124.16
Oct	7.4	1	4	79		8.4	55	20	56	44	84	145.92
Nov	8.0	1.6	6	84		9.3	75	10	60	30	90	115.84
Dec	7.52	1	4	70	19	9.8	260	8	108	10	118	187
2020												
Jan	8	<1	4	60	17	10.8	95	9	52	26	78	115
Feb	7.6	<1	4	80	18	10.2	75	9	60	40	100	100
Mar	7.13	<1	4	50	19	9.8	76	6	76	28	104	96
Apr	7.7	0.8	4	60	19	9.8	74	10	64	36	100	64
May	7.85	1	4	70	18	9.6	72	6	50	40	90	82
June	7.58	1	4	60	22	9.2	70	12.5	36	24	60	84
July	7.5	1.2	6	70	23	8.4	90	13	40	28	68	70
Aug	8.0	1	4	90	25	9.2	100	10	60	40	100	96
Sept	8.1	1	4	80	27	10.2	90	8	49	26	75	162
Oct	8.0	1	6	110	25	8	67	9	61	24	85	140
Nov												
Dec	7.2	1	6	63	19	9	88	6	63	21	84	167

2019												
Jan	7.96	<1	4	90	17	9.6	72	5	42	40	82	98
Feb	7.68	<1	4	70	16	9.4	68	5	44	34	78	128
Mar	7.65	<1	4	80	18	9.6	66	5	42	32	74	92
Apr	7.58	<1	4	90	18	9.6	68	5	42	36	78	95
May	7.71	<1	4	110	20	9.2	66	5	40	36	76	92
June	8.4	<1	4	110	20	9	68	5	42	30	72	85
July	8.04	<1	4	110	19	10	69	4	50	20	70	88
Aug	7.87	<1	4	80	18	10	70	5	46	32	78	89
Sept	8.16	<1	4	90	20	10.2	75	6	44	36	80	88
Oct	8.05	<1	4	80	20	10.8	80	6	44	22	66	89
Nov	8.1	<1	4	70	19	10.4	70	8	44	32	76	102
Dec	8.48	<1	4	80	19	10.2	92	9	56	25	81	81
2018												
Jan	7.98	<1	4	70	16	9.8	66	5	40	34	74	104
Feb	7.72	<1	4	90	16	9.2	68	5	40	32	72	110
Mar	7.57	<1	4	140	18	9.6	70	6	42	34	76	111
Apr	7.65	<1	4	80	18	9.4	66	5	40	34	74	92
May	7.71	<1	4	170	21	9	68	5	40	36	76	95
June	7.94	<1	4	130	20	9	70	5	40	38	78	94
July	7.48	<1	4	110	22	9.6	88	5	70	40	110	115
Aug	8.11	<1	4	140	22	9.2	82	4	54	44	98	100
Sept	8.23	<1	4	110	20	8	76	5	46	44	90	107
Oct	8.17	<1	4	90	18	9	70	5	42	40	82	121
Nov	8.41	<1	4	70	18	8.8	72	5	44	42	86	126
Dec	8.16	<1	4	80	17	9.8	70	5	42	38	80	101

**GANGA AT HARIDWAR D/S BALAKUMARI MANDIR, AJEETPUR, HARIDWAR**

Month	pH	BOD mg/L	COD mg/L	Total Coliform (MPN/ 100 mL)	Temp °C	DO mg/L	Alkalinity CaCO3 mg/L	Chloride s mg/L	Calcium as Cl mg/L	Magnesium as Mg mg/L	Hardness as CaCO3 mg/L	TDS mg/L
<b>2025</b>												
Jan	8.0	2.0	14	150	17.3	9.2	96	10	45	65	110	127
Feb	8.10	1.4	10	170	18.8	10.48	61	8	41	29	70	165.12
Mar	8.1	2.2	14	140	20.0	9.8	131	13	60	85	145	194
Apr	8.6	1.4	8	170	28.4	10.91	140	11	55	88	143	190.7
May	7.42	1.8	10	220	26.1	8.16	139	11	50	71	121	172
June	8.0	1.6	9	280	32.9	8.26	144	12	62	76	138	184.3
July	7.4	2.8	12	220	24.6	8.12	174	9	88	91	179	256.64
Aug	8.2	2.6	12	240	23.6	8.46	174	8	84	94	178	252.1
Sept	8.1	2.6	11	220	24.6	9.2	171	7	72	94	166	243
Oct	7.6	2.2	7.5	170	26.9	9.6	154	7	62	88	150	236
Nov	8.2	2	8	210	18.6	9.8	159	8	60	95	155	223
Dec	8.4	2	7	220	19.2	9.8	144	7	56	86	142	218
<b>2024</b>												
Jan	7.50	1.2	8.0	120	29.9	9.51	109	10.0	57	65	122	190
Feb	7.60	1.4	9.0	110	18.1	9.6	95	10.0	45	80	125	180
Mar	7.90	1.6	9.0	120	19.8	8.8	119	8.0	60	61	121	204
Apr	7.80	2.2	12.0	140	22.8	8.8	119	10.0	48	60	108	190
May	7.30	2.2	14.0	130	21.1	8.4	141	9.0	56	63	119	177
June	7.04	2.4	14.0	170	22	7.2	125	11.0	52	78	130	140
July	7.78	2.6	16.0	170	22.9	7.8	135	6.0	60	69	129	247
Aug	7.15	2.2	12	130	23	7.6	136	12	46	74	120	152.3
Sept	7.41	1.1	6	120	19.5	8	68	10	41	49	90	129.28
Oct	7.8	2.2	9	170	25.2	8.3	145	12	52	58	110	218
<b>2023</b>												
Jan	7.76	2.4	16.0	84	17.9	9.3	112	21.0	75	60	135	414
Feb	8.45	2.2	15.0	120	20.9	9.6	102	22.0	70	60	130	298
Mar	7.98	2.4	12.0	79	23.9	8.4	220	12.0	33	50	83	208.64
Apr	8.10	2.3	7.2	110	23.0	9.8	215	11.0	32	48	80	190
May	8.23	1.8	7.0	94	25.3	9.0	198	8.0	80	65	145	210
June	7.30	2.4	10.0	110	24	8.2	170	11.0	40	48	88	202
July	8.24	1.6	12.0	170	26.3	7.1	77	10.0	36	30	66	302
Aug	7.50	2.6	10.0	110	22	7.6	172	12.0	124	34	158	170
Sept	7.62	1.4	10.0	130	26	8.2	122	10.0	52	32	84	212

Oct	7.20	1.7	11.0	110	25.5	7.6	104	12.0	62	36	98	200
Nov	7.51	1.6	10.0	140	24.7	7.9	97	9.0	51	37	88	179
2022												
Jan	8.30	1.4	6	130	16	9.8	85	10	21	17	38	155
Feb	8.6	1.4	10	110	16.1	9.6	86	8	19	15	34	159
Mar	7.50	1.6	6	110	21.1	9.8	87	10	45	14	59	183
Apr	7.60	1.9	8	84	18.2	9.2	65	5	25	13	38	105.8
May	7.50	2.5	7	170	27.1	9.4	70	9	17	11	28	145.9
June	7.70	2.4	12	120	26.8	7.8	60	30	62	100	162	249
July	7.90	1.1	6.0	120	24.5	8.0	681	10	25	15	40	129.3
Aug	8.10	1.4	7.0	94	24	7.6	90	12	45	18	63	151
Sept	7.60	2.8	12	110	29	9.3	158	15	48	44	92	222
Oct	8.20	2.4	12	110	24.5	7.9	90	8.6	28	16	44	160
Nov	7.80	2.4	11.0	84	22.3	8.4	187	14	34	46	80	198
Dec	8.20	1.2	4.8	84	17.5	10.4	80	8.0	14	30	44	138
2021												
Jan	7.75	1.6	8	130	16	8.8	83	8	75	28	103	148
Feb	7.54	1.4	6	140	16	10.4	125	8	60	37	97	92
Mar	8.37	1.6	6	150	19	9.2	145	11	60	26	86	121
Apr	7.52	1.4	6	130	22.2	8.2	82	13	60	16	76	99.4
May	7.62	1.2	6	120	24	8.8	95	10	71	19	90	106.3
June	8.1	1.6	6	130		8.28	89	09	61	14	75	241
July	7.90	1.8	6	110		9.0	63	10	50	16	66	88
Aug	7.84	2.6	8	120		9.6	95	12	86	28	114	120
Sept	7.09	2.2	6	130		9.4	65	12	48	27	97	130.56
Oct	6.5	1	8	130		8.6	70	20	62	36	98	179.84
Nov	7.6	1	4	84		8.6	95	5	53	36	89	140.8
Dec	8.27	1	6	120	20	9.68	90	7	44	16	60	216
2020												
Jan	7.1	1	6	110	17	9.6	162	15	80	48	128	193
Feb	7.26	1	6	140	18	9.4	93	10	60	28	88	106
Mar	7.64	1.2	6	110	19	9.6	94	15	64	46	110	139
Apr	7.7	1	6	90	20	10	90	12	84	26	110	74
May	8.02	1.2	6	80	19	9.2	100	10	70	40	110	120
June	7.68	1.4	6	70	29	9	100	10	45	40	85	178
July	7.2	1.2	6	60	22	8.4	85	15	40	35	758	67
Aug	7.78	1.4	6	140	25	8.4	73	16	57	25	82	153

Sept	8.0	1.6	6	130	25	9.4	72	9	50	12	62	141
Oct	7.99	1	6	140	25	8.4	115	7	99	31	130	233
Nov	7.63	1.2	6	120	20	10.6	120	10	88	29	117	287
Dec	8.0	1.4	8	110	20	9	88	7.5	85	45	130	160
<b>2019</b>												
Jan	7.98	1	6	220	17	9.4	78	6	44	42	86	107
Feb	7.82	1	6	300	16	9.2	76	7	44	40	84	116
Mar	7.72	1	6	280	19	9	78	8	46	42	88	110
Apr	7.76	1	5	220	18	9	80	7	50	40	90	140
May	7.68	1	6	350	20	8.8	76	8	46	42	88	124
June	7.4	1.2	6	300	19	8.6	78	9	98	34	132	207
July	7.18	1.4	6	280	19	8.6	90	9	60	24	84	132
Aug	7.37	2	8	350	18	9	100	9	46	42	88	142
Sept	7.59	1.4	6	300	22	8.6	110	13	50	40	90	143
Oct	8.02	1.2	6	280	20	8.8	148	19	52	22	74	153
Nov	7.5	1	6	220	19	9	128	14	50	28	78	173
Dec	7.72	1	6	130	19	9.4	118	12	45	30	75	112
<b>2018</b>												
Jan	7.76	1	6	220	16	9.2	76	8	44	40	84	182
Feb	7.74	1	6	280	16	9	74	10	46	42	88	242
Mar	7.69	1.2	6	220	18	9.2	76	8	44	40	84	232
Apr	7.72	1	6	280	19	9	78	8	52	44	96	172
May	7.68	1.2	6	350	20	8.8	76	7	50	42	92	124
June	7.87	1	6	300	20	8.6	74	6	44	38	82	95
July	7.67	1	6	220	20	9.2	90	8	62	48	110	125
Aug	8.04	1.2	6	240	21	8.6	92	7	72	34	106	104
Sept	8.29	<1	4	280	20	10.6	78	6	48	42	90	107
Oct	8.21	1	4	240	18	9.6	72	5	42	40	82	108
Nov	7.8	1	6	220	18	9	74	8	46	38	84	128
Dec	8.1	1	6	280	17	9.6	76	7	42	40	82	100