

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 ₃ mg/L	Chlorides mg/L	Calcium as Cl mg/L	Magnesium as Mg mg/L	Hardness as CaCO ₃ mg/L	TDS mg/L
2024												
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
2023												
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
2019												
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
2018												
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 CaCO ₃ mg/L	Chlorides mg/L	Calcium as Cl mg/L	Magnesium as Mg mg/L	Hardness as CaCO ₃ mg/L	TDS mg/L
2024												
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
2023												
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
2022												

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
2018												
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
2024												
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
2023												
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
2018												
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
2024												
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
2023												
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
2019												
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
2018												
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 Ca mg/L	Magnesium as Mg mg/L	Hardness as CaCO3 mg/L	TDS mg/L
2024												
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
2023												
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
Aug	Canal was closed											
Sept	7.79	1.4	7.0	120	24	8.1	102	6.0	49	31	80	193
Oct	7.20	1.5	8.0	110	24.8	7.6	94	9.0	66	19	85	230
Nov	Canal was closed due to cleaning purpose before Diwali Festival.											
2022												
Jan	8.40	1	4	84	16	10.2	85	10	23	13	36	133.7
Feb	7.4	1.1	6	79	15.1	9.4	76	6	19	10	29	131.8
Mar	7.80	1	8	94	19.5	9.2	67	8	43	20	63	117.18
Apr	7.30	1.5	8	79	19	8.8	95	15	19	11	30	115.5
May	7.80	1	5	79	25.2	9.3	88	6	10	9	19	98.5
June	7.30	2.0	8.0	110	21.9	8.2	67	8	34	86	120	147
July	8.30	1.8	7.0	110	24.8	8.5	86	15	18	14	32	99.2
Aug	7.50	1.1	8.0	12	22	8.3	56	8.0	23	32	55	177

Sept	7.60	2.2	8	110	26	8.2	170	9	46	40	86	311
Oct	8.30	1.2	9.0	70	22.1	8.3	80	9.0	22	12	34	119
Nov	7.70	1.8	7.0	70	19.7	8.5	172	8.0	29	45	74	146.5
Dec	7.60	1.0	5.2	79	15.6	10.0	170	4.0	10	74	84	189
2021												
Jan	7.64	1.2	6	84	16	9.8	93	7.5	100	56	156	169
Feb	7.68	1	4	70	17	9.8	115	8	63	22	85	84
Mar	8.2	1	4	79	20	9.4	138	8	66	27	93	117
Apr	7.25	1	4	70	22.5	8.4	81	11	68	20	88	102.7
May	8.08	1	4	63	26	9.6	90	8	60	20	80	402
June	8.0	1	4	70		8.86	72	8.5	65	15	80	177
July	7.94	1.2	4	84	24.6	9.0	65	10	48	22	70	90
Aug	7.82	1.6	4	79		9.4	67	12	60	30	90	92
Sept	7.12	1.2	4	84		9.4	70	9	68	27	95	128
Oct	7.4	1	4	79		8.2	60	10	52	32	84	140.16
Nov	7.6	1.5	4	79		9	90	10	66	29	95	124.16
Dec	7.80	1	4	70	18	9.8	100	6	72	12	84	184.96
2020												
Jan	7.8	<1	4	40	16	11.4	81	8	54	28	82	94
Feb	8	<1	4	70	18	10.2	70	9	56	36	92	71
Mar	6.82	<1	4	50	19	10.4	72	9	58	38	96	99
Apr	7.7	0.6	4	50	19	9.8	75	6.5	70	20	90	69
May	8.12	0.8	4	60	18	9.2	68	8.5	62	20	82	82
June	7.9	1	4	60	22	9	80	7.5	38	24	62	88
July	7.59	1	4	70	22	8.6	76	9	35	30	65	90
Aug	7.9	1	4	80	24	10.2	79	14	52	42	94	124
Sept	8.31	1	4	90	27	10.4	77	7	53	23	76	161
Oct	8.01	1	4	70	25	9	90	10	80	29	109	202
Nov												
Dec	8.0	1	6	70	19	10	93	7.5	72	30	102	162
2019												
Jan	8.05	<1	4	80	17	9.8	70	5	42	38	80	94
Feb	7.72	<1	4	60	16	10	72	5	40	36	76	115
Mar	7.68	<1	4	70	19	9.6	70	5	42	36	80	94
Apr	7.62	<1	4	90	18	10	72	5	44	38	82	90
May	7.64	<1	4	110	19	9.8	74	5	42	38	80	96
June	8	<1	4	90	20	9.4	78	5	70	28	98	90

July	8.12	<1	4	110	19	8.6	58	5	52	18	70	86
Aug	7.8	<1	4	90	18	9	60	7	46	26	72	85
Sept	8.21	<1	4	80	20	10.4	65	9	44	30	74	80
Oct	8.12	<1	4	70	21	10.6	75	15	44	28	72	83
Nov	8.2	<1	4	60	19	11	68	8	42	32	74	92
Dec	8.04	<1	4	50	19	10.6	74	8	40	32	72	73
2018												
Jan	7.95	<1	4	60	16	9.8	70	5	42	34	76	97
Feb	7.93	<1	4	110	18	10	68	5	42	32	74	81
Mar	7.72	<1	4	90	19	9.6	70	5	44	38	82	94
Apr	7.66	<1	4	110	20	9.8	74	5	44	40	84	98
May	7.94	<1	4	90	20	9	70	5	42	36	78	92
June	7.58	<1	4	80	20	9.4	84	6	54	42	96	102
July	8.13	<1	4	70	22	9	78	5	54	38	92	101
Aug	8.2	<1	4	90	20	9	74	5	48	38	86	107
Sept	8.13	<1	4	80	18	9.2	72	6	44	40	84	122
Oct	8.34	<1	4	70	18	9	68	5	42	36	78	126
Nov	8.24	<1	4	90	17	10	72	5	42	40	82	100

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
2024												
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
2023												
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.											
2022												
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
2021												
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
2020												
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
2024												
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
2023												
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 CaCO ₃ mg/L	Chloride s mg/L	Calcium as Cl mg/L	Magnesium as Mg mg/L	Hardness as CaCO ₃ mg/L	TDS mg/L
2024												
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
2023												
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
2019												
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
2018												
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