

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	Chlori des mg/L	Calcium as Cl mg/L	Magnesium as Mg mg/L	Hardness as CaCO ₃ mg/L	TDS mg/L
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
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 CaCO3 mg/L	Chlorides mg/L	Calcium as Cl mg/L	Magnesium as Mg mg/L	Hardness as CaCO3 mg/L	TDS mg/L
2022												
Jan	7.90	1.0	4	32	14	9.8	140	7	170	30	200	74
Feb	7.25	1.0	4	38	18	9.8	76	8	100	20	120	73
Mar	7.30	1.0	4	33	12	10.8	61	6	62	36	98	82
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
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
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
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
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

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
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
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 y CaCO3 mg/L	Chlorides mg/L	Calcium as Cl mg/L	Magnesium as Mg mg/L	Hardness as CaCO3 mg/L	TDS mg/L
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
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
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
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