

WATER QUALITY CHARACTERISTICS OF RIVER SUSWA D/S MOTHRAWALA, DEHRADUN

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
2018												
Jan-18	7.84	32	156	>1600	16	2.8	344	32	220	180	400	472
Feb-18	7.91	36	172	>1600	16	2.2	328	30	220	160	380	438
Mar-18	7.88	34	134	>1600	19	2.4	320	35	250	120	370	452
Apr-18	7.82	36	142	>1600	19	2.2	322	35	260	130	390	460
May-18	7.79	32	128	>1600	20	2	298	30	256	120	376	428
Jun-18	7.82	34	132	>1600	20	2.4	312	35	258	110	368	448
Jul-18	7.66	32	128	>1600	20	3	290	30	244	136	380	432
Aug-18	7.86	34	118	>1600	20	2.6	260	34	186	92	278	398
Sep-18	7.82	32	110	>1600	20	2.4	254	32	168	100	268	405
Oct-18	7.81	34	128	>1600	19	2.6	270	30	200	148	348	417
Nov-18	8.15	32	136	>1600	18	2	264	35	184	134	318	380
Dec-18	8.21	30	124	>1600	18	2.4	260	30	180	130	310	344
Average	7.88	33.17	134.00		18.75	2.42	293.50	32.33	218.83	130.00	348.83	422.83
Min-Max	7.66-8.21	30-36	110-172		16-20	2-3	254-344	30-35	168-260	92-180	268-400	344-472
2019												
Jan-19	8.15	26	86	>1600	18	2.8	240	25	164	126	290	328
Feb-19	7.85	28	110	>1600	18	3	280	27	200	140	340	390
March-19	7.52	1	4	170	20	9.4	86	7	48	44	92	136
April-19	7.84	28	112	>1600	19	3	260	24	196	124	320	372
May-19	7.79	30	120	>1600	20	2.6	278	25	200	148	348	410
June-19	7.84	26	126	>1600	20	2.8	290	30	230	128	358	430
July-19	7.86	25	118	>1600	19	3	270	22	220	100	320	390
Aug-19	6.89	27	120	>1600	20	2.6	274	26	222	102	324	392
Sep-19	6.94	26	120	>1600	22	2.8	260	25	220	80	300	400
Oct-19	8.05	28	124	>1600	20	2.8	280	28	234	78	312	415
Nov-19	8.1	26	116	>1600	20	3.0	284	33	236	74	310	344
Dec-19	8.23	28	124	>1600	18	2.2	268	30	230	56	286	328
2020												
Jan-20	8.1	26	104	>1600	8.1	26	240	25	180	120	300	380
Feb-20	8.34	28	112	>1600	18	4.0	260	30	210	150	360	368
Mar-20	8.11	26	94	> 1600	20	3.6	270	32	220	120	340	376
Apr-20	7.6	1	4	40	19	8.6	85	9	60	45	105	238
May-20	8.13	29	116	> 1600	19	3.6	395	30	255	135	390	387

June-20	6.67	26	110	> 1600	20	3.8	360	27.5	200	150	350	255
July-20	7.59	30	124	> 1600	21	2.8	365	25	145	130	275	448
Aug-20	7.65	32	128	> 1600	23	2.6	230	25	162	100	262	288
Sept-20	8.3	26	106	> 1600	26	4.0	306	22	125	93	218	428
Oct-20	7.9	28	112	> 1600	25	3	360	40	302	85	387	712
Nov-20	7.64	26	104	> 1600	24	3.6	552	37	278	113	391	749
Dec-20	7.0	27	108	> 1600	22	3.0	344	65	258	57	315	650

WATER QUALITY CHARACTERISTICS OF RIVER GANGA AFTER CONFLUENCE OF RIVER SONG NEAR SATYANARAYAN TEMPLE D/S RAIWALA, DEHRADUN

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
2018												
Jan-18	7.52	<1	6	350	16	9	88	6	62	48	110	168
Feb-18	7.84	1	6	300	16	8.8	82	8	56	40	96	123
Mar-18	7.54	1	4	240	18	9.4	84	8	52	40	92	186
Apr-18	7.55	1.2	6	220	20	9.2	88	7	52	44	96	154
May-18	7.48	1	6	280	22	8.8	84	8	54	40	94	170
Jun-18	7.58	1	4	110	20	9.2	72	6	42	32	74	92
Jul-18	7.68	1.2	6	130	20	8.6	90	8	70	40	110	112
Aug-18	7.62	1	6	130	20	8.4	88	6	60	38	98	98
Sep-18	7.84	1	6	170	20	8.8	84	6	52	40	92	100
Oct-18	7.75	1.2	6	220	19	8.4	80	8	50	44	94	104
Nov-18	7.82	1	6	170	18	8.6	76	7	46	40	86	116
Dec-18	7.89	1	6	220	17	9.2	74	8	44	40	84	110
Average	7.68	1.05	5.67	211.67	18.83	8.87	82.50	7.17	53.33	40.50	93.83	127.75
Min-Max	7.48-7.89	<1-1.2	4-6	110-350	16-22	8.4-9.4	72-90	6-8	42-70	32-48	84-110	92-186
2019												
Jan-19	7.96	1	6	170	18	9.4	76	7	44	42	86	115
Feb-19	7.48	1	6	220	16	9.6	82	8	54	36	90	160
March-19	7.52	1	4	170	20	9.4	86	7	48	44	92	136
April-19	7.54	1	4	220	18	9.2	80	6	46	42	88	118
May-19	7.48	1	6	280	20	8.8	84	6	54	40	94	144
June-19	7.84	1	6	220	20	9	78	6	50	34	84	118
July-19	7.91	1.2	6	170	19	8.6	76	7	48	26	74	122

Aug-19	7.81	1.2	6	220	18	8.8	78	6	46	30	76	110
Sep-19	8.45	1	6	280	25	8.6	76	13	44	38	82	246
Oct-19	8.3	1	6	220	22	8.8	78	11	48	36	84	190
Nov-19	8.22	1	6	140	20	9.2	80	11	66	44	110	195
Dec-19	8.26	1	6	110	19	10.4	88	10	45	33	78	255
2020												
Jan-20	7.8	1	4	90	17	10.2	84	8	44	32	76	120
Feb-20	8.44	1	6	90	17	10	85	12	68	46	114	236
Mar-20	7.94	1.2	6	80	20	10.8	100	9	85	51	136	279
Apr-20	8.2	1.2	6	80	20	10.6	110	10	60	22	82	236
May-20	7.5	1	6	70	19	8.4	120	10	80	75	155	213
June-20	7.75	1.2	6	60	20	8.6	256	9.5	148	110	258	254
July-20	8	1.2	6	70	22	8.8	169	17	118	83	201	262
Aug-20	7.6	1.4	6	110	23	8.6	184	16	190	50	184	222
Sept-20	8.15	2.0	6	130	29	10.6	165	13	90	62	152	328
Oct-20	8.18	1.2	6	140	29	8.6	235	10	140	60	200	317
Nov-20	7.15	1	6	120	18	8.4	55	10	40	30	70	154
Dec-20	8.0	1.4	6	110	20	9.2	100	9	70	40	110	240