

**River Ganga Canal at Harki Pouri Haridwar (Upper Ganga Canal)**

Month	pH	BOD mg/L	COD mg/L	Total Coli form	Temp	DO	Alkalinity/visul titration CaCO3	Chlo rides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.34	<1	4	50	10	10	78	5	46	40	86	98
Feb-17	7.69	<1	4	60	15	9.8	74	6	46	32	78	105
Mar-17	7.6	1	6	140	18	9.4	72	5	44	38	82	97
Apr-17	7.51	<1	4	90	22	9.6	70	6	42	38	80	92
May-17	6.98	<1	6	80		9.8	80	8	82	42	124	104
Jun-17	7.12	<1	6	170		9.6	88	6	98	46	144	112
Jul-17	7.42	<1	4	90	19	9.4	75	6	46	40	86	98
Aug-17	8.13	<1	4	70	24	8.6	76	5	48	40	88	94
Sept-17	7.59	<1	4	80	24	8.6	72	5	44	40	84	92
Oct-17												
Nov-17	7.49	<1	6	80	16	8.8	74	6	48	38	86	102
Dec-17	7.43	<1	4	70	15	9.8	70	5	44	38	82	105
Average	7.398		4.88	92.22	16.43	9.57	75.66	5.88	55.11	39.11	94.22	101.4

**Upper Ganga Canal D/s Harki Pauri, (Harki Pauri Haridwar at Rishikul Bridge), Haridwar**

Month	pH	BOD mg/L	COD mg/L	Total Coli form	Temp	DO	Alkalinity/visul titration CaCO3	Chlo rides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.46	<1	4	60	9	10	74	5	40	36	76	94
Feb-17	7.69	<1	4	40	15	9.6	70	6	48	32	80	92
Mar-17	7.9	<1	4		18	9.2	74	6	42	40	82	105
Apr-17	7.81	<1	4	60	20	9.6	68	6	42	36	78	91
May-17	7.81	<1	6	80		10.2	78	7	78	32	110	122
Jun-17	7.26	<1	6	150		9.6	108	6	96	48	144	128
Jul-17	7.48	<1	4	80		9.4	90	6	70	40	110	116
Aug-17	7.84	<1	4	70	25	9	86	5	54	36	90	90
Sept-17	7.62	<1	4	80	23	8.8	76	5	52	34	86	92
Oct-17												
Nov-17	7.32	<1	5	80	16	9.2	78	4	50	34	84	92
Dec-17	7.35	<1	4	90	15	9.6	72	5	40	36	76	110
Average	7.56		4.556	80	15.5	9.6	79.11	5.66	56.22	37.11	93.333	105.6

**Upper Ganga Canal D/S Roorkee, Haridwar, Uttarakhand**

Month	pH	BOD mg/L	COD mg/L	Total Coli form	Temp	DO	Alkalinity/visul titration CaCO3	Chlo rides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.56	1	4	110	9	10.2	86	6	52	38	90	105
Feb-17	7.81	1	6	80	14	9.4	76	7	48	38	86	128
Mar-17	7.8	1	6	140	18	9.2	74	6	44	40	84	135
Apr-17	7.58	1	8	110	19	9.6	70	6	42	40	82	105
May-17	7.48	1	10	120		8.9	72	8	46	38	84	116
Jun-17	7.42	1		120		9.4	142	6	82	42	124	114
Jul-17	7.71	1		110	20	9.2	86	6	60	46	106	110
Aug-17	8.21	1	6	90	25	8.8	84	6	56	42	98	91
Sept-17	7.75	1	6	110	24	8.4	78	5	54	34	88	95
Oct-17												
Nov-17	7.65	1	5	120	16	8.4	80	6	52	34	86	104
Dec-17	7.54	1	6	140	14	9.4	76	6	44	40	84	113
Average	7.617	1	6.42	116.66	15.71	9.3	84.66	6.33	52.22	39.55	91.77	114.44

**Ganga Canal at Dam Kothi, Haridwar (Upper River Ganga Canal at Harki Pauri)**

Month	pH	BOD mg/L	COD mg/L	Total Coli form	Temp	DO	Alkalinity/visul titration CaCO3	Chlo rides	Calciu m as CaCO3	Magnesi um as CaCO3	Hardne ss as CaCO3	TDS
Jan-17	7.47	<1	4	70	10	8.6	66	5	40	32	72	103
Feb-17	7.75	<1	4	60	16	9.2	70	6	40	34	74	102
Mar-17	7.4	<1	4	80	17	9.2	72	6	42	34	76	124
Apr-17	7.42	<1	4	60	21	9.4	66	6	42	32	74	88
May-17	7.44	<1	6	70		9.8	84	8	78	44	122	116
Jun-17	7.24	<1	6	110		10.2	112	6	96	46	142	109
Jul-17	7.58	<1	4	80	19	9.4	88	6	54	42	96	102
Aug-17	8.22	<1	4	60	24	9.4	82	5	52	40	92	84
Sept-17	7.64	<1	4	70	24	8.6	72	5	44	38	82	86
Oct-17												
Nov-17	7.62	<1	6	70	16	8.8	74	6	52	34	86	99
Dec-17	7.56	<1	4	80	15	9.6	68	5	42	36	78	120
Average	7.498		4.667	75.55	16.29	9.36	77.77	6	54	37.11	91.11	107

**Ganga at Haridwar U/S Bindhughat, Dudhiyavan, Haridwar, Uttarakhand**

Month	pH	BOD mg/L	COD mg/L	Total Coli form	Temp	DO	Alkalinity / visul titration CaCO3	Chlo rides	Calciu m as CaCO3	Magnes ium as CaCO3	Hardnes s as CaCO3	TDS
Jan-17	7.72	1	4	60	9	9.6	68	5	40	34	74	130
Feb-17	7.79	<1	4	50	16	9.6	72	6	42	34	76	138
Mar-17	7.6	1	4	60	18	9.2	76	6	44	40	84	122
Apr-17	7.64	1	4	80	19	8.8	68	6	42	32	74	107
May-17	7.52	>1	6	120		9.2	78	8	48	44	92	106
Jun-17	7.41	>1	6	210		9.3	86	8	100	48	148	113
Jul-17	7.62	1	4	130	20	9	82	7	56	40	96	110
Aug-17	7.87	1	6	110	24	8.6	78	6	54	38	92	89
Sept-17	7.74	1	6	90	24	8.2	74	6.5	54	30	84	94
Oct-17	7.68	1	6	50	18	9.2	62	5	38	36	74	132
Nov-17	7.52	1	6	60	16	9.4	64	6	46	38	84	134
Dec-17	7.42	1	6	90	15	9.4	68	6	42	40	82	108
Average	7.59	1	5	91	16.38	9.27	72.4	6.3	49.8	38.6	88.4	120

**Ganga at Haridwar D/S Balakumari Mandir, Ajeetpur, Haridwar**

Month	pH	BOD mg/L	COD mg/L	Total Coli form	Temp	DO	Alkalinity/visul titration CaCO3	Chlo rides	Calcium as CaCO3	Magn esium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.68	1	4	170	8	9.4	74	6	44	38	82	123
Feb-17	7.62	1	6	220	14	9.6	78	6	44	40	84	128
Mar-17	7.9	1	6	280	17	8.8	74	6	44	42	86	130
Apr-17	7.8	1.2	6	220	19	9.2	80	7	64	42	106	113
May-17	6.85	1.6	38	480		6.4	182	18	188	72	260	442
Jun-17	7.21	1.2	8	360		9.4	168	8	102	56	158	202
Jul-17	7.67	1	6	280	20	9.2	110	10	80	52	132	140
Aug-17	7.76	1	6	220	24	8.2	98	8	76	34	110	75
Sep-17	7.46	1	6	170	24	8	88	7	56	42	98	86
Oct-17	7.54	1	6	140	18	8.8	78	8	46	40	86	127
Nov-17	7.42	<1	8	140	16	8.9	80	6	48	40	88	130
Dec-17	7.38	<1	6	170	15	9.2	78	6	46	40	86	102
Average	7.507	1.125	9.4	246	15.88	8.89	100.2	8.1	70.6	46.2	116.8	163.7

**Ganga Canal at Lalita Rao Bridge, Haridwar (Upper Ganga Canal), Haridwar**

Month	pH	BOD mg/L	COD mg/L	Total Coliform	Temp	DO	Alkalinity/visul titration CaCO3	Chlorides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.68	1	4	80	9	7	72	6	42	34	76	96
Feb-17	7.75	<1	4	60	16	9.2	70	6	40	32	72	94
Mar-17	7.4	<1	4	110	17	9.4	72	5	42	36	78	92
Apr-17	7.52	<1	6	70	19	9.2	68	6	44	32	76	94
May-17	7.12	<1	8	80		10.2	82	8	80	40	120	118
Jun-17	7.18	<1	6	180		9.4	92	6	96	50	146	110
Jul-17	7.52	<1	4	90	20	9	84	6	62	46	108	100
Aug-17	8.12	<1	4	80	24	8.6	80	6	54	44	98	91
Sep-17	7.64	<1	4	90	24	8.8	74	6	54	30	84	95
Oct-17												
Nov-17	7.52	<1	4	80	16	8.9	76	5	56	32	88	106
Dec-17	7.48	<1	4	110	15	9.4	72	5	46	40	86	116
<b>Average</b>	<b>7.463</b>	<b>1</b>	<b>4.88</b>	<b>95.55</b>	<b>16</b>	<b>9.08</b>	<b>76.44</b>	<b>5.88</b>	<b>56.44</b>	<b>38</b>	<b>94.44</b>	<b>102.9</b>

**Suswa River at Mothrawala, (Suswa (D/S) Mathurawala), Dehradun, Uttarakhand**

Month	pH	BOD mg/L	COD mg/L	Total Coliform	Temp	DO	Alkalinity/visul titration CaCO3	Chlorides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.81	32	186	>1600	14	3	358	28	200	198	398	480
Feb-17	7.79	36	276	>1600	14	2.6	346	26	198	170	368	432
Mar-17	7.86	32	128	>1600	20	2.4	320	30	250	130	380	428
Apr-17	7.89	34	136	>1600	20	2.6	324	25	238	172	410	467
May-17	6.88	37	188	>1600	22	1.8	278	38	226	182	408	798
Jun-17	6.86	33	202	>1600	26	2.9	228	36	296	158	456	612
Jul-17	7.66	32	128	>1600	20	3.2	290	30	240	156	396	432
Aug-17	7.86	36	162	>1600	25	2.6	260	32	186	78	264	432
Sep-17	7.91	32	158	>1600	25	2.4	264	32	184	100	284	412
Oct-17	7.84	32	128	>1600	20	2.2	328	32.5	212	172	384	392
Nov-17	7.21	34	158	>1600	17	2.4	328	36	214	174	388	402
Dec-17	7.65	32	140	>1600	18	2.6	310	30	200	160	360	390
<b>Average</b>	<b>7.54</b>	<b>33.4</b>	<b>167</b>		<b>19.1</b>	<b>2.57</b>	<b>311</b>	<b>31.15</b>	<b>227.4</b>	<b>167.2</b>	<b>394.8</b>	<b>483.3</b>

**River Ganga after confluence of River Song near Satyanarayan Temple D/S Raiwala, Dehradun**

Month	pH	BOD mg/L	COD mg/L	Total Coliform	Temp	DO	Alkalinity/visul titration CaCO3	Chlorides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.51	1	4	220	13	9.2	88	7	54	44	98	124
Feb-17	7.64	1	6	170	16	9	72	8	44	38	82	123
Mar-17	7.62	1.2	6	220	18	9.4	84	9	52	42	94	135
Apr-17	7.56	1	6	170	20	9.2	92	8	52	46	98	122
May-17	7.21	1	6	180	21	7.1	86	8	56	38	94	128
Jun-17	6.98	1	8	210	24	8.6	118	12	102	76	178	204
Jul-17	7.58	1.2	6	130	20	8.4	92	8	72	48	120	122
Aug-17	7.62	1	6	110	25	8.6	88	6	62	36	98	86
Sep-17	7.58	1	6	90	24	8.8	82	6.5	54	38	92	94
Oct-17	7.56	1	6	220	19	9	86	8	50	44	94	118
Nov-17	7.66	<1	8	220	16	9	88	10	52	44	96	122
Dec-17	7.54	<1	6	280	17	9.2	80	8	48	44	92	110
<b>Average</b>	<b>7.49</b>		<b>6.2</b>	<b>202</b>	<b>18.4</b>	<b>8.81</b>	<b>88.6</b>	<b>8.6</b>	<b>58.2</b>	<b>46.4</b>	<b>104.6</b>	<b>130.8</b>

### **River Ganga at Rishikesh U/S Lakshmanjhula, Swargashram U/S of Rishikesh**

Month	pH	BOD mg/L	COD mg/L	Total Coliform	Temp	DO	Alkalinity/visul titration CaCO3	Chlorides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.42	<1	4	22	12	10.4	70	5	42	36	78	88
Feb-17	7.19	<1	4	34	14	10.6	76	5	56	28	84	78
Mar-17	7.36	<1	4	30	17	10.4	72	6	40	30	70	92
Apr-17	7.61	<1	4	26	19	9.8	66	5	42	36	78	78
May-17	7.02	<1	4	70	19	10.3	74	6	52	36	88	102
Jun-17	7.18	<1	6	80	18	10.3	76	6	88	38	126	99
Jul-17	7.45	<1	4	60	19	9.6	74	5	46	34	80	86
Aug-17	7.56	<1	4	70	24	9.8	76	8	44	40	84	78
Sep-17	7.48	<1	4	50	24	9.6	72	5	44	38	82	82
Oct-17	7.84	<1	4	30	18	9.8	66	5	40	36	76	148
Nov-17	7.64	<1	4	50	16	9.8	68	5	42	36	78	128
Dec-17	7.42	<1	4	60	16	10	70	5	44	38	82	94
<b>Average</b>	<b>7.41</b>		<b>4.2</b>	<b>46.2</b>	<b>16.8</b>	<b>10.1</b>	<b>71.2</b>	<b>5.3</b>	<b>49.2</b>	<b>34.8</b>	<b>84</b>	<b>99.3</b>

### **Ganga at D/S of Rishikesh, Near Pashulok, Uttarakhand**

Month	pH	BOD mg/L	COD mg/L	Total Coliform	Temp	DO	Alkalinity/visul titration CaCO3	Chlorides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Mar-17	7.42	<1	4	50	18	10.2	76	5	42	32	74	98
Apr-17	7.52	<1	4	40	20	9.6	68	5	44	32	76	86
May-17												
Jun-17	7.11	<1	8	120	20	9.2	78	8	78	58	136	106
Jul-17	7.38	<1	6	80	20	9.4	76	6	46	40	86	94
Aug-17	7.42	<1	4	80	24	9.0	72	5	44	40	84	88
Sep-17	7.51	<1	4	60	24	9.2	70	5	46	32	78	90
Oct-17	7.69	<1	4	30	18	9.4	68	5	42	34	76	155
Nov-17	7.45	<1	5	70	15	8.6	70	6	44	34	78	120
Dec-17	7.51	<1	4	50	16	9.8	68	5	40	36	76	105
<b>Average</b>	<b>7.43</b>		<b>5</b>	<b>62.85</b>	<b>18.14</b>	<b>9.46</b>	<b>72</b>	<b>5.71</b>	<b>48</b>	<b>38</b>	<b>86</b>	<b>109.1</b>

### **River Yamuna at U/S of Lakhwar Dam, Dehradun, (River Yamuna U/s Lakhwar Dam), Uttarakhand**

Month	pH	BOD mg/L	COD mg/L	Total Coliform	Temp	DO	Alkalinity/visul titration CaCO3	Chlorides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.65	<1	4	0	12	9.4	76	5	46	38	84	92
Apr-17	7.98	<1	4	0	18	9	74	5	52	42	94	105
July-17	7.68	<1	4	0	19	9	72	8	42	38	80	86
Oct-17	7.82	<1	4	0	17	9.2	70	5	46	38	84	96
<b>Average</b>	<b>7.78</b>		<b>4</b>	<b>0</b>	<b>16.5</b>	<b>9.15</b>	<b>73</b>	<b>5.75</b>	<b>46.5</b>	<b>39</b>	<b>85.5</b>	<b>94.75</b>

### **River Yamuna at U/S Dakpathar, (Yamuna U/S Dakpathar) Dehradun**

Month	pH	BOD mg/L	COD mg/L	Total Coliform	Temp	DO	Alkalinity/visul titration CaCO3	Chlorides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.82	1.2	6	60	14	8.6	64	6	44	30	74	76
Apr-17	7.78	1	4	60	19	8.8	58	5	36	32	68	72
July-17	7.62	1	4	90	20	8.6	72	7	46	36	82	105
Oct-17	7.72	1	6	50	18	9	62	5	38	32	70	82
<b>Average</b>	<b>7.73</b>	<b>1.05</b>	<b>5</b>	<b>65</b>	<b>17.75</b>	<b>8.75</b>	<b>64</b>	<b>5.75</b>	<b>41</b>	<b>32.5</b>	<b>73.5</b>	<b>83.75</b>

**River Alaknanda A/C Mandakini at Rudrapryag, Uttarakhand**

Month	pH	BOD mg/L	COD mg/L	Total Coliform	Temp	DO	Alkalinity/visul titration CaCO3	Chlorides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.67	<1	4	0	14	9.2	66	5	40	34	74	64
Apr-17	7.82	<1	4	0	17	9.2	62	6	42	32	74	65
July-17	7.64	<1	4	0	18	8.8	54	6	42	22	64	54
Oct-17	7.72	<1	4	0	17	9.4	60	5	40	32	72	70
Average	7.71		4	0	16.5	9.15	60.5	5.5	41	30	71	63.25

**River Mandakini B/C Alaknanda at Rudrapryag, Uttarakhand**

Month	pH	BOD mg/L	COD mg/L	Total Coliform	Temp	DO	Alkalinity/vi sul titration CaCO3	Chlorides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.54	<1	4	0	15	9.6	64	5	40	32	72	62
Apr-17	7.64	<1	4	0	16	9	66	5	42	34	76	60
July-17	7.74	<1	4	0	18	9.2	62	5	40	30	70	57
Oct-17	7.68	<1	4	0	17	9.2	68	5	38	36	74	68
Average	7.65		4	0	16.5	9.25	65	5	40	33	73	61.75

**River Alaknanda B/C Mandakini at Rudrapryag, Uttarakhand**

Month	pH	BOD mg/L	COD mg/L	Total Coliform	Temp	DO	Alkalinity/visultitration CaCO3	Chlorides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.52	<1	4	0	12	9.4	70	5	44	36	80	64
Apr-17	7.74	<1	4	0	17	9.2	66	5	44	32	76	66
July-17	7.71	<1	4	0	18	8.6	60	6	42	28	70	56
Oct-17	7.72	<1	4	0	16	9.4	72	5	46	38	84	72
Average	7.67		4	0	15.75	9.15	67	5.25	44	33.5	77.5	64.5

**River Alaknanda A/C Bhagirathi at Devpryag, Uttarakhand**

Month	pH	BOD mg/L	COD mg/L	Total Coliform	Temp	DO	Alkalinity/visultitration CaCO3	Chlorides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.62	<1	4	0	14	9.4	64	5	40	34	74	66
Apr-17	7.64	<1	4	0	18	9.2	62	6	40	32	72	64
July-17	7.88	<1	4	0	18	9.4	56	6	50	26	76	67
Oct-17	7.62	<1	4	0	17	9.2	60	5	38	34	72	66
Average	7.69		4	0	16.75	9.3	60.5	5.5	42	31.5	73.5	65.75

**River Alaknanda B/C to Bhagirathi at Devpryag, Uttarakhand**

Month	pH	BOD mg/L	COD mg/L	Total Coliform	Temp	DO	Alkalinity/visultitration CaCO3	Chlorides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.52	<1	4	0	12	9.4	70	5	44	36	80	64
Apr-17	7.82	<1	4	0	18	9.4	72	6	46	34	84	65
July-17	7.83	<1	4	0	19	9	54	6	42	20	62	60
Oct-17	7.75	<1	4	0	17	9.4	68	6	44	34	78	70
Average	7.73		4	0	16.5	9.3	66	5.75	44	31	76	64.75

**River Bhagirathi B/C with Alaknanda at Devpryag, Uttarakhand**

Month	pH	BOD mg/L	COD mg/L	Total Coliform	Temp	DO	Alkalinity/visultitration CaCO3	Chlorides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.61	<1	4	0	10	9.8	58	5	34	32	66	60
Apr-17	7.72	<1	4	0	18	9.4	60	6	44	24	68	62
July-17	7.78	<1	4	0	19	9.2	56	5	40	34	64	57
Oct-17	7.74	<1	4	0	17	9.4	62	6	38	32	70	64
Average	7.71		4	0	16	9.45	59	5.5	39	30.5	67	60.75

**Naini Lake at Nainital (Water Intake Point), Nainital**

Month	pH	BOD mg/L	COD mg/L	Condu ctivity	Temp	DO	Alkalinit y /visul titration	Chloride /Argent ometric	Calcium as CaCO3	Magne sium as CaCO3	Hard ness as CaCO3	TDS	Phenolph thaalene Alkalinity
Jan-17	7.5	1.4	5	450	9	7.2	230	18	122	88	210	360	0
Feb-17	8.1	1.2	4	490	10	8.2	218	19	148	124	272	334	0
Mar-17	8.1	1	5	480	13	7.6	204	23	134	112	246	322	0
Apr-17	8.17	1.2	6	510	15	6.8	212	28	152	116	268	346	0
May-17	7.4	1.6	6	460	19	7.2	196	17	116	94	210	312	0
June-17	7.7	1.8	6	480	17	7	188	23	128	102	230	318	0
July-17	7.49	1.6	5	490	14	6.8	168	22	118	104	222	298	0
Aug-17	7.8	1.4	4	460	15	7.4	174	26	126	106	232	316	0
Sep-17	7.9	1.2	5	470	12	7.8	186	27	124	98	222	304	0
Oct-17	7.5	1.4	6	490	10	7.6	192	25	132	102	234	312	0
Nov-17	7.8	1.6	5	470	10	7.4	198	24	136	92	228	310	0
Dec-17	7.7	1.8	6	480	8	7.2	220	22	128	96	224	340	0
<b>Average</b>	<b>7.76</b>	<b>1.43</b>	<b>5.25</b>	<b>477.5</b>	<b>12.7</b>	<b>7.4</b>	<b>198.83</b>	<b>22.83</b>	<b>130.33</b>	<b>102.83</b>	<b>233.16</b>	<b>323</b>	<b>0</b>

**Bheemtal Lake, Nainital, Uttarakhand**

Month	pH	BOD mg/L	COD mg/L	Condu ctivity	Temp	DO	Alkalinity/ visul titration	Chloride /Argent ometric	Calcium as CaCO3	Magne sium as CaCO3	Hard ness as CaCO3	TDS	Phenolph thaalene Alkalinity
Jan-17	7.6	1.2	5	220	10	7.4	124	23	66	48	114	138	0
Feb-17	7.84	1.8	6	210	10	7.8	138	27	72	46	118	133	0
Mar-17	7.52	1.8	5	298	12	7.6	200	25	68	42	110	137	0
Apr-17	8.12	1.6	5	220	14	7.2	116	17	60	48	128	156	0
May-17	7.65	1.6	6	260	18	7.2	120	30	62	54	116	159	0
June-17	7.8	1.6	5	230	19	7.4	112	27	72	48	120	153	0
July-17	7.36	1.4	5	180	15	8.1	104	25	86	54	140	157	0
Aug-17	7.62	1.8	6	220	13	7.6	110	23	66	56	122	138	0
Sep-17	7.5	1.2	6	230	12	8	142	21	62	54	116	155	0
Oct-17	7.7	1.4	5	210	11	7.8	122	19	68	52	120	142	0
Nov-17	7.6	1.4	5	216	10	7.4	118	16	72	54	126	138	0
Dec-17	7.8	1.4	5	208	9	7.6	116	18	76	48	124	132	0
<b>Average</b>	<b>7.7</b>	<b>1.52</b>	<b>5.33</b>	<b>225.16</b>	<b>12.75</b>	<b>7.6</b>	<b>126.83</b>	<b>22.58</b>	<b>69.167</b>	<b>50.33</b>	<b>121.16</b>	<b>145</b>	<b>0</b>

**Gola River at Haldwani, (River Gola, Nainital), Uttarakhand**

Month	pH	BOD mg/L	COD mg/L	Condu ctivity	Temp	DO	Alkalinity/ visul titration	Chloride /Argent ometric	Calcium as CaCO3	Magnes ium as CaCO3	Hardne ss as CaCO3	TDS	Phenolph thaalene Alkalinity
Jan-17	7.8	1.4	6	210	12	7.8	126	24	136	108	244	146	0
Feb-17	7.9	1.2	5	230	13	8.2	130	19	104	128	232	152	0
Mar-17	7.63	1.4	5	210	14	7.8	126	21	132	104	236	147	0
Apr-17	7.52	1.2	6	230	17	7.6	124	23	140	110	250	152	0
May-17	8.1	1.4	5	240	23	7.8	136	21	132	116	248	164	0
June-17	7.9	1.6	6	230	21	7.2	122	19	144	108	252	172	0
July-17	7.8	1.4	4	250	17	7.4	118	21	138	106	244	168	0
Aug-17	7.58	1.6	6	220	11	7.2	120	23	126	108	234	148	0
Sep-17	7.4	1.6	6	230	15	7.2	118	19	138	116	254	172	0
Oct-17	7.6	1.2	5	210	12	7.4	126	22	124	112	236	164	0
Nov-17	7.4	1.2	6	234	11	7.6	130	23	120	114	234	156	0
Dec-17	7.3	1.4	6	214	10	7.4	126	19	128	112	240	148	0
<b>Average</b>	<b>7.7</b>	<b>1.38</b>	<b>5.5</b>	<b>225.66</b>	<b>14.7</b>	<b>7.55</b>	<b>125.16</b>	<b>21.16</b>	<b>130.17</b>	<b>111.83</b>	<b>242</b>	<b>157</b>	<b>0</b>

### **Kosi River at Kashipur Bajpur Road Bridge, Kashipur, US Nagar**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	7.2	3.2	12	340	17	6	172
Feb-17	7.3	3.2	26	390	23	6.4	244
Mar-17	7.3	6	20	460	30	6.5	246
Apr-17	Not in flow						
May-17	Not in flow						
June-17	7.25	6	32	320	26	6.2	198
July-17	7.4	2	9.2	350	26	6	186
Aug-17	7.40	4	12	340	27	6.40	224
Sep-17	7.5	2	8.2	160	29	7.2	93
Oct-17	7.3	3.2	8	310	24	7.2	188
Nov-17	7.1	4	14	390	20	7.6	231
Dec-17	7.8	2	6.2	280	17.7	7.8	181
<b>Average</b>	<b>7.35</b>	<b>3.56</b>	<b>14.76</b>	<b>334</b>	<b>23.97</b>	<b>6.73</b>	<b>196.3</b>

### **Dhella River U/S at Kashipur Moradabad Road Bridge, (U/S Moradabad Road) US Nagar**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	7.3	8	48	260	17	4.8	162
Feb-17	Not in flow						
Mar-17	River dry						
Apr-17	River dry						
May-17	River dry						
June-17	River dry						
July-17	7.2	8	20	130	25	5.2	64
Aug-17	7.50	10	34	350	28	5.80	191
Sep-17	7.4	8	20		29	6.2	150
Oct-17	7.4	10	38	260	25	5.2	172
Nov-17	7.3	8	22	280	22	5.8	195
Dec-17	7.8	12	30	290	17.2	5.8	186
<b>Average</b>	<b>7.41</b>	<b>9.14</b>	<b>30.29</b>	<b>261.67</b>	<b>23.31</b>	<b>5.54</b>	<b>160.00</b>

### **Dhella River D/S at Thakurdwara, Aliganj Road, US Nagar**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	7.5	60	188	580	18	1.8	424
Feb-17	7.6	48	150	1600	26	0.5	880
Mar-17	River dry						
Apr-17	River dry						
May-17	River dry						
June-17	7.35	16	42	450	28	0	280
July-17	7.1	18	58	400	25	3	217
Aug-17	7.40	20	72	430	25.80	1.80	234
Sep-17	7.2	16	56	210	28	4	115
Oct-17	7.15	18	60	450	23	2	289
Nov-17	7.5	20	78	620	20	2.2	442
Dec-17	6.7	12	64	890	18.2	2.6	598
<b>Average</b>	<b>7.26</b>	<b>26</b>	<b>87</b>	<b>650</b>	<b>23.28</b>	<b>2.01</b>	<b>405.63</b>

**Bhella River U/S Kashipur, (U/S Ramnagar Road), US Nagar**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	7.2	4.2	26	340	16	5.2	212
Feb-17	7.1	2	8	300	20	6	192
Mar-17	7.1	4	12	280	30	6	170
Apr-17	River dry						
May-17	River dry						
June-17	River dry						
July-17	6.95	6	26	80	26	6.2	45
Aug-17	7.20	4	18	254	26.70	6.40	176
Sep-17	7.3	4.4	16	164	29	6.6	244
Oct-17	7.3	4	18	170	24	6.8	107
Nov-17	7.2	4.2	14	240	20	7.6	152
Dec-17	7.9	6	16.4	170	17	7.4	109
<b>Average</b>	<b>7.25</b>	<b>4.31</b>	<b>17.16</b>	<b>222</b>	<b>23.19</b>	<b>6.47</b>	<b>156.33</b>

**Bhella River at Lohia Bridge D/S Kashipur (D/S Lohiya Bridge), US Nagar**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	7.7	52	268	710	18	0.2	436
Feb-17	6.9	30	140	930	24	0.4	542
Mar-17	6.9	36	182	740	30	0.2	460
Apr-17	Not in flow						
May-17	Not in flow						
June-17	6.85	52	148	640	27	0	408
July-17	6.8	12	80	330	26	0.8	182
Aug-17	6.80	64	230	830	27	0	518
Sep-17	7.1	34	210	300	30	1.2	163
Oct-17	7.25	16	76	430	26	1.2	286
Nov-17	7.6	30	96	510	23	0.2	330
Dec-17	7.2	24	88	290	17.8	0.8	187
<b>Average</b>	<b>7.14</b>	<b>31.78</b>	<b>143.11</b>	<b>542.22</b>	<b>24.64</b>	<b>0.56</b>	<b>332.67</b>

**Pilakhar River at Bilaspur, Rampur, US Nagar**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	7.82	3.5	36	510	20	7	336
Feb-17	8.26	2.6	22	730	22	7.4	482
Mar-17	8.06	3	26	740	27	7	496
Apr-17	8.1	3.8	24	750	32	5	462
May-17	8.2	3.6	30	764	28	5.2	510
June-17	8.1	3.8	32	750	28	5	498
July-17	7.6	10	48	600	27	6	392
Aug-17	7.70	4	20	594	27	6	380
Sep-17	7.4	4	22	580	29	5.6	352
Oct-17	7.4	4.2	18	576	24	5.4	380
Nov-17	7.50	2	8	390	20	7.20	250
Dec-17	7.20	6.8	34	490	14	7.6	322
<b>Average</b>	<b>7.79</b>	<b>4.30</b>	<b>27.27</b>	<b>625.45</b>	<b>24.64</b>	<b>6.22</b>	<b>407.27</b>



**Nanduar River U/S Sitarganj Industrial Area, (Nandour U/S Sitarganj), US Nagar**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	River Dry						
Feb-17	River Dry						
Mar-17	River Dry						
Apr-17	River Dry						
May-17	River Dry						
Jun-17	River Dry						
July-17	7.7	5.6	42	510	25	7.2	336
Aug-17	7.20	2	22	448	27	7.40	316
Sep-17	7.3	3.2	18	480	27	7.4	302
Oct-17	River Dry						
Nov-17	River Dry						
Dec-17	River Dry						
<b>Average</b>	<b>7.5</b>	<b>4.4</b>	<b>30</b>	<b>495</b>	<b>26</b>	<b>7.3</b>	<b>319</b>

**Nanduar River D/S Sitarganj Industrial Area, (Nandour D/S Sitarganj), US Nagar**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	8	6.6	44	330	15	8.6	218
Feb-17	8.24	4	30	410	24	8.2	272
Mar-17	8.1	4.4	32	420	28	8	280
Apr-17	River Dry						
May-17	River Dry						
Jun-17	River Dry						
July-17	7.7	5.2	48	550	25	5.8	368
Aug-17	7.10	4.80	28	550	29.80	6	242
Sep-17	7.6	5.6	26	510	29	6	318
Oct-17	7.4	4.4	28	370	25	3.8	248
Nov-17	7.6	8	30	280	21	6	177
Dec-17	7.6	3.8	16	330	15.2	7.8	212
<b>Average</b>	<b>7.78</b>	<b>5.25</b>	<b>31.75</b>	<b>400</b>	<b>22.8</b>	<b>6.78</b>	<b>261.63</b>

**Kichha River at Kichha, (River Kichha (U/S Nagarbhalla, Kashipur), US Nagar**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	8.08	6	40	620	15	5.2	412
Feb-17	7.9	6	42	570	23	5.2	372
Mar-17	7.8	6.2	44	580	27	5	386
Apr-17	7.6	10	40	770	30	4.4	532
May-17	7.7	6.6	46	596	28	4.8	398
June-17	7.6	6.6	46	580	29	4.8	382
July-17	7.8	6	44	640	26	4.8	432
Aug-17	7.70	10	38	586	27	5.20	398
Sep-17	7.5	6	34	610	28	5.4	378
Oct-17	7.4	16	56	630	25	4.6	412
Nov-17	7.30	12	30	560	19	4.20	354
Dec-17	7.5	12	50	680	14	4	448
<b>Average</b>	<b>7.65</b>	<b>8.49</b>	<b>42.91</b>	<b>621.45</b>	<b>24.00</b>	<b>4.76</b>	<b>409.64</b>

### **Kalyani River at U/S Pantnagar Industrial Area, US Nagar**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	7.2	2.6	20	416	17	8	264
Feb-17	7.1	2.4	20	408	20	8.2	270
Mar-17	7	2.6	22	410	28	8	282
Apr-17	River Dry						
May-17	River Dry						
June-17	River Dry						
July-17	8	1.6	16	510	26	7.2	326
Aug-17	7.8	2.8	12	480	28.8	7.4	312
Sep-17	7.6	2	8.2	450	28	7.6	272
Oct-17	7.3	2	8	280	25	7.8	196
Nov-17							
Dec-17	7.70	2	18	370	14	8.2	236
<b>Average</b>	<b>7.41</b>	<b>2.25</b>	<b>16.03</b>	<b>406.29</b>	<b>23.35</b>	<b>7.80</b>	<b>263.71</b>

### **Kalyani River at D/S Pantnagar Industrial Area, US Nagar**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	7.94	6	30	780	14	5.6	524
Feb-17	7.24	7.3	46	600	23	5.4	496
Mar-17	7.8	7.4	48	610	28	5	510
Apr-17	7.7	12.6	44	580	30	3.2	378
May-17	7.6	7.2	42	728	28	4.6	502
June-17	7.6	7.6	44	730	27	4.2	54
July-17	7.7	8.2	46	550	27	5.8	368
Aug-17	7.5	8	32	420.4	28	4.8	286
Sep-17	7.5	5.2	24	470	29	6	282
Oct-17	7.4	8	40	560	25	3.4	376
Nov-17	7.4	3.6	14	400	20	7	263
Dec-17	7.8	4	22	450	14	5.8	286
<b>Average</b>	<b>7.6</b>	<b>7.0</b>	<b>36.0</b>	<b>573.2</b>	<b>24.1</b>	<b>5.1</b>	<b>409.6</b>

## Water Quality Data 2017

### Dhella U/S Moradabad Road

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	7.3	8	48	260	17	4.8	162
Feb-17	Not in flow						
Mar-17	River dry						
Apr-17	River dry						
May-17	River dry						
June-17	River dry						
July-17	7.2	8	20	130	25	5.2	64
Aug-17	7.50	10	34	350	28	5.80	191
Sep-17	7.4	8	20		29	6.2	150
Oct-17	7.4	10	38	260	25	5.2	172
Nov-17	7.3	8	22	280	22	5.8	195
Dec-17	7.8	12	30	290	17.2	5.8	186
<b>Average</b>	<b>7.41</b>	<b>9.14</b>	<b>30.29</b>	<b>261.67</b>	<b>23.31</b>	<b>5.54</b>	<b>160.00</b>

### Dhella D/S Thakurdwara

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	7.5	60	188	580	18	1.8	424
Feb-17	7.6	48	150	1600	26	0.5	880
Mar-17	River dry						
Apr-17	River dry						
May-17	River dry						
June-17	7.35	16	42	450	28	0	280
July-17	7.1	18	58	400	25	3	217
Aug-17	7.40	20	72	430	25.80	1.80	234
Sep-17	7.2	16	56	210	28	4	115
Oct-17	7.15	18	60	450	23	2	289
Nov-17	7.5	20	78	620	20	2.2	442
Dec-17	6.7	12	64	890	18.2	2.6	598
<b>Average</b>	<b>7.26</b>	<b>26</b>	<b>87</b>	<b>650</b>	<b>23.28</b>	<b>2.01</b>	<b>405.63</b>

### Bhella U/S Kashipur

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	7.2	4.2	26	340	16	5.2	212
Feb-17	7.1	2	8	300	20	6	192
Mar-17	7.1	4	12	280	30	6	170
Apr-17	River dry						
May-17	River dry						
June-17	River dry						
July-17	6.95	6	26	80	26	6.2	45
Aug-17	7.20	4	18	254	26.70	6.40	176
Sep-17	7.3	4.4	16	164	29	6.6	244
Oct-17	7.3	4	18	170	24	6.8	107
Nov-17	7.2	4.2	14	240	20	7.6	152
Dec-17	7.9	6	16.4	170	17	7.4	109
<b>Average</b>	<b>7.25</b>	<b>4.31</b>	<b>17.16</b>	<b>222</b>	<b>23.19</b>	<b>6.47</b>	<b>156.33</b>

### **Bhella D/S Kashipur**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	7.7	52	268	710	18	0.2	436
Feb-17	6.9	30	140	930	24	0.4	542
Mar-17	6.9	36	182	740	30	0.2	460
Apr-17	Not in flow						
May-17	Not in flow						
June-17	6.85	52	148	640	27	0	408
July-17	6.8	12	80	330	26	0.8	182
Aug-17	6.80	64	230	830	27	0	518
Sep-17	7.1	34	210	300	30	1.2	163
Oct-17	7.25	16	76	430	26	1.2	286
Nov-17	7.6	30	96	510	23	0.2	330
Dec-17	7.2	24	88	290	17.8	0.8	187
Average	7.14	31.78	143.11	542.22	24.64	0.56	332.67

### **Pilakhar after Bilaspur**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	7.82	3.5	36	510	20	7	336
Feb-17	8.26	2.6	22	730	22	7.4	482
Mar-17	8.06	3	26	740	27	7	496
Apr-17	8.1	3.8	24	750	32	5	462
May-17	8.2	3.6	30	764	28	5.2	510
June-17	8.1	3.8	32	750	28	5	498
July-17	7.6	10	48	600	27	6	392
Aug-17	7.70	4	20	594	27	6	380
Sep-17	7.4	4	22	580	29	5.6	352
Oct-17	7.4	4.2	18	576	24	5.4	380
Nov-17	7.50	2	8	390	20	7.20	250
Dec-17	7.20	6.8	34	490	14	7.6	322
Average	7.79	4.30	27.27	625.45	24.64	6.22	407.27

### **Nandour U/S Sitarganj**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	River Dry						
Feb-17	River Dry						
Mar-17	River Dry						
Apr-17	River Dry						
May-17	River Dry						
Jun-17	River Dry						
July-17	7.7	5.6	42	510	25	7.2	336
Aug-17	7.20	2	22	448	27	7.40	316
Sep-17	7.3	3.2	18	480	27	7.4	302
Oct-17	River Dry						
Nov-17	River Dry						
Dec-17	River Dry						
Average	7.5	4.4	30	495	26	7.3	319

### **Nandour D/S Sitarganj**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	8	6.6	44	330	15	8.6	218
Feb-17	8.24	4	30	410	24	8.2	272
Mar-17	8.1	4.4	32	420	28	8	280
Apr-17	River Dry						
May-17	River Dry						
Jun-17	River Dry						
July-17	7.7	5.2	48	550	25	5.8	368
Aug-17	7.10	4.80	28	550	29.80	6	242
Sep-17	7.6	5.6	26	510	29	6	318
Oct-17	7.4	4.4	28	370	25	3.8	248
Nov-17	7.6	8	30	280	21	6	177
Dec-17	7.6	3.8	16	330	15.2	7.8	212
<b>Average</b>	<b>7.78</b>	<b>5.25</b>	<b>31.75</b>	<b>400</b>	<b>22.8</b>	<b>6.78</b>	<b>261.63</b>

### **Kichha U/S Nagarbhalla**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	8.08	6	40	620	15	5.2	412
Feb-17	7.9	6	42	570	23	5.2	372
Mar-17	7.8	6.2	44	580	27	5	386
Apr-17	7.6	10	40	770	30	4.4	532
May-17	7.7	6.6	46	596	28	4.8	398
June-17	7.6	6.6	46	580	29	4.8	382
July-17	7.8	6	44	640	26	4.8	432
Aug-17	7.70	10	38	586	27	5.20	398
Sep-17	7.5	6	34	610	28	5.4	378
Oct-17	7.4	16	56	630	25	4.6	412
Nov-17	7.30	12	30	560	19	4.20	354
Dec-17	7.5	12	50	680	14	4	448
<b>Average</b>	<b>7.65</b>	<b>8.49</b>	<b>42.91</b>	<b>621.45</b>	<b>24.00</b>	<b>4.76</b>	<b>409.64</b>

### **Kalyani U/S Pantnagar Industrial Area**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
Jan-17	7.2	2.6	20	416	17	8	264
Feb-17	7.1	2.4	20	408	20	8.2	270
Mar-17	7	2.6	22	410	28	8	282
Apr-17	River Dry						
May-17	River Dry						
June-17	River Dry						
July-17	8	1.6	16	510	26	7.2	326
Aug-17	7.8	2.8	12	480	28.8	7.4	312
Sep-17	7.6	2	8.2	450	28	7.6	272
Oct-17	7.3	2	8	280	25	7.8	196
Nov-17							
Dec-17	7.70	2	18	370	14	8.2	236
<b>Average</b>	<b>7.41</b>	<b>2.25</b>	<b>16.03</b>	<b>406.29</b>	<b>23.35</b>	<b>7.80</b>	<b>263.71</b>

### **Kalyani D/S Pantnagar Industrial Area**

Month	pH	BOD mg/L	COD mg/L	Conductivity	Temp	DO	TDS
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Jan-17	7.94	6	30	780	14	5.6	524
Feb-17	7.24	7.3	46	600	23	5.4	496
Mar-17	7.8	7.4	48	610	28	5	510
Apr-17	7.7	12.6	44	580	30	3.2	378
May-17	7.6	7.2	42	728	28	4.6	502
June-17	7.6	7.6	44	730	27	4.2	54
July-17	7.7	8.2	46	550	27	5.8	368
Aug-17	7.5	8	32	420.4	28	4.8	286
Sep-17	7.5	5.2	24	470	29	6	282
Oct-17	7.4	8	40	560	25	3.4	376
Nov-17	7.4	3.6	14	400	20	7	263
Dec-17	7.8	4	22	450	14	5.8	286
<b>Average</b>	<b>7.6</b>	<b>7.0</b>	<b>36.0</b>	<b>573.2</b>	<b>24.1</b>	<b>5.1</b>	<b>409.6</b>

**River Suswa (D/S) Mathurawala, Dehradun**

Month	pH	BOD mg/L	COD mg/L	Total Coliform	Temp	DO	Alkalinity/visul titration CaCO3	Chlo rides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.81	32	186	>1600	14	3	358	28	200	198	398	480
Feb-17	7.79	36	276	>1600	14	2.6	346	26	198	170	368	432
Mar-17	7.86	32	128	>1600	20	2.4	320	30	250	130	380	428
Apr-17	7.89	34	136	>1600	20	2.6	324	25	238	172	410	467
May-17	6.88	37	188	>1600	22	1.8	278	38	226	182	408	798
Jun-17	6.86	33	202	>1600	26	2.9	228	36	296	158	456	612
Jul-17	7.66	32	128	>1600	20	3.2	290	30	240	156	396	432
Aug-17	7.86	36	162	>1600	25	2.6	260	32	186	78	264	432
Sep-17	7.91	32	158	>1600	25	2.4	264	32	184	100	284	412
Oct-17	7.84	32	128	>1600	20	2.2	328	32.5	212	172	384	392
Nov-17	7.21	34	158	>1600	17	2.4	328	36	214	174	388	402
Dec-17	7.65	32	140	>1600	18	2.6	310	30	200	160	360	390
<b>Average</b>	<b>7.54</b>	<b>33.4</b>	<b>167</b>		<b>19.1</b>	<b>2.57</b>	<b>311</b>	<b>31.15</b>	<b>227.4</b>	<b>167.2</b>	<b>394.8</b>	<b>483.3</b>

**Upper Ganga Canal at Harki Pouri Haridwar**

Month	pH	BOD mg/L	COD mg/L	Total Coli form	Temp	DO	Alkalinity/visul titration CaCO3	Chlo rides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.34	<1	4	50	10	10	78	5	46	40	86	98
Feb-17	7.69	<1	4	60	15	9.8	74	6	46	32	78	105
Mar-17	7.6	1	6	140	18	9.4	72	5	44	38	82	97
Apr-17	7.51	<1	4	90	22	9.6	70	6	42	38	80	92
May-17	6.98	<1	6	80		9.8	80	8	82	42	124	104
Jun-17	7.12	<1	6	170		9.6	88	6	98	46	144	112
Jul-17	7.42	<1	4	90	19	9.4	75	6	46	40	86	98
Aug-17	8.13	<1	4	70	24	8.6	76	5	48	40	88	94
Sept-17	7.59	<1	4	80	24	8.6	72	5	44	40	84	92
Oct-17												
Nov-17	7.49	<1	6	80	16	8.8	74	6	48	38	86	102
Dec-17	7.43	<1	4	70	15	9.8	70	5	44	38	82	105
<b>Average</b>	<b>7.398</b>		<b>4.88</b>	<b>92.22</b>	<b>16.43</b>	<b>9.57</b>	<b>75.66</b>	<b>5.88</b>	<b>55.11</b>	<b>39.11</b>	<b>94.22</b>	<b>101.4</b>

**Upper Ganqa Canal D/s Rishikul Bridge, Harki Pauri, Haridwar**

Month	pH	BOD mg/L	COD mg/L	Total Coli form	Temp	DO	Alkalinity/visul titration CaCO3	Chlo rides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.46	<1	4	60	9	10	74	5	40	36	76	94
Feb-17	7.69	<1	4	40	15	9.6	70	6	48	32	80	92
Mar-17	7.9	<1	4		18	9.2	74	6	42	40	82	105
Apr-17	7.81	<1	4	60	20	9.6	68	6	42	36	78	91
May-17	7.81	<1	6	80		10.2	78	7	78	32	110	122
Jun-17	7.26	<1	6	150		9.6	108	6	96	48	144	128
Jul-17	7.48	<1	4	80		9.4	90	6	70	40	110	116
Aug-17	7.84	<1	4	70	25	9	86	5	54	36	90	90
Sept-17	7.62	<1	4	80	23	8.8	76	5	52	34	86	92
Oct-17												
Nov-17	7.32	<1	5	80	16	9.2	78	4	50	34	84	92
Dec-17	7.35	<1	4	90	15	9.6	72	5	40	36	76	110
Average	7.56		4.556	80	15.5	9.6	79.11	5.66	56.22	37.11	93.333	105.6

**Upper Ganga Canal D/S Roorkee Haridwar**

Month	pH	BOD mg/L	COD mg/L	Total Coli form	Temp	DO	Alkalinity/visul titration CaCO3	Chlo rides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.56	1	4	110	9	10.2	86	6	52	38	90	105
Feb-17	7.81	1	6	80	14	9.4	76	7	48	38	86	128
Mar-17	7.8	1	6	140	18	9.2	74	6	44	40	84	135
Apr-17	7.58	1	8	110	19	9.6	70	6	42	40	82	105
May-17	7.48	1	10	120		8.9	72	8	46	38	84	116
Jun-17	7.42	1		120		9.4	142	6	82	42	124	114
Jul-17	7.71	1		110	20	9.2	86	6	60	46	106	110
Aug-17	8.21	1	6	90	25	8.8	84	6	56	42	98	91
Sept-17	7.75	1	6	110	24	8.4	78	5	54	34	88	95
Oct-17												
Nov-17	7.65	1	5	120	16	8.4	80	6	52	34	86	104
Dec-17	7.54	1	6	140	14	9.4	76	6	44	40	84	113
Average	7.617	1	6.42	116.66	15.71	9.3	84.66	6.33	52.22	39.55	91.77	114.44

**Upper Ganga Canal, Damkoti, Haridwar**

Month	pH	BOD mg/L	COD mg/L	Total Coli form	Temp	DO	Alkalinity/visul titration CaCO3	Chlo rides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.47	<1	4	70	10	8.6	66	5	40	32	72	103
Feb-17	7.75	<1	4	60	16	9.2	70	6	40	34	74	102
Mar-17	7.4	<1	4	80	17	9.2	72	6	42	34	76	124
Apr-17	7.42	<1	4	60	21	9.4	66	6	42	32	74	88
May-17	7.44	<1	6	70		9.8	84	8	78	44	122	116
Jun-17	7.24	<1	6	110		10.2	112	6	96	46	142	109
Jul-17	7.58	<1	4	80	19	9.4	88	6	54	42	96	102
Aug-17	8.22	<1	4	60	24	9.4	82	5	52	40	92	84
Sept-17	7.64	<1	4	70	24	8.6	72	5	44	38	82	86
Oct-17												
Nov-17	7.62	<1	6	70	16	8.8	74	6	52	34	86	99
Dec-17	7.56	<1	4	80	15	9.6	68	5	42	36	78	120
Average	7.498		4.667	75.55	16.29	9.36	77.77	6	54	37.11	91.11	107

**Ganga U/S Abindhugat, Dudhiyabad, Haridwar**

Month	pH	BOD mg/L	COD mg/L	Total Coli form	Temp	DO	Alkalinity / visul titration CaCO3	Chlo rides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.72	1	4	60	9	9.6	68	5	40	34	74	130
Feb-17	7.79	<1	4	50	16	9.6	72	6	42	34	76	138
Mar-17	7.6	1	4	60	18	9.2	76	6	44	40	84	122
Apr-17	7.64	1	4	80	19	8.8	68	6	42	32	74	107
May-17	7.52	>1	6	120		9.2	78	8	48	44	92	106
Jun-17	7.41	>1	6	210		9.3	86	8	100	48	148	113
Jul-17	7.62	1	4	130	20	9	82	7	56	40	96	110
Aug-17	7.87	1	6	110	24	8.6	78	6	54	38	92	89
Sept-17	7.74	1	6	90	24	8.2	74	6.5	54	30	84	94
Oct-17	7.68	1	6	50	18	9.2	62	5	38	36	74	132
Nov-17	7.52	1	6	60	16	9.4	64	6	46	38	84	134
Dec-17	7.42	1	6	90	15	9.4	68	6	42	40	82	108
Average	7.59	1	5	91	16.38	9.27	72.4	6.3	49.8	38.6	88.4	120

**Upper Ganga Canal D/S Balakumari Mandir, Ajeetpur, Haridwar**

Month	pH	BOD mg/L	COD mg/L	Total Coli form	Temp	DO	Alkalinity/ visul titration CaCO3	Chlo rides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.68	1	4	170	8	9.4	74	6	44	38	82	123
Feb-17	7.62	1	6	220	14	9.6	78	6	44	40	84	128
Mar-17	7.9	1	6	280	17	8.8	74	6	44	42	86	130
Apr-17	7.8	1.2	6	220	19	9.2	80	7	64	42	106	113
May-17	6.85	1.6	38	480		6.4	182	18	188	72	260	442
Jun-17	7.21	1.2	8	360		9.4	168	8	102	56	158	202
Jul-17	7.67	1	6	280	20	9.2	110	10	80	52	132	140
Aug-17	7.76	1	6	220	24	8.2	98	8	76	34	110	75
Sep-17	7.46	1	6	170	24	8	88	7	56	42	98	86
Oct-17	7.54	1	6	140	18	8.8	78	8	46	40	86	127
Nov-17	7.42	<1	8	140	16	8.9	80	6	48	40	88	130
Dec-17	7.38	<1	6	170	15	9.2	78	6	46	40	86	102
Average	7.507	1.125	9.4	246	15.88	8.89	100.2	8.1	70.6	46.2	116.8	163.7

**Upper Ganga Canal, Lal Tao Bridge, Haridwar**

Month	pH	BOD mg/L	COD mg/L	Total Coliform	Temp	DO	Alkalinity/ visul titration CaCO3	Chlorides	Calcium as CaCO3	Magnesium as CaCO3	Hardness as CaCO3	TDS
Jan-17	7.68	1	4	80	9	7	72	6	42	34	76	96
Feb-17	7.75	<1	4	60	16	9.2	70	6	40	32	72	94
Mar-17	7.4	<1	4	110	17	9.4	72	5	42	36	78	92
Apr-17	7.52	<1	6	70	19	9.2	68	6	44	32	76	94
May-17	7.12	<1	8	80		10.2	82	8	80	40	120	118
Jun-17	7.18	<1	6	180		9.4	92	6	96	50	146	110
Jul-17	7.52	<1	4	90	20	9	84	6	62	46	108	100
Aug-17	8.12	<1	4	80	24	8.6	80	6	54	44	98	91
Sep-17	7.64	<1	4	90	24	8.8	74	6	54	30	84	95
Oct-17												
Nov-17	7.52	<1	4	80	16	8.9	76	5	56	32	88	106
Dec-17	7.48	<1	4	110	15	9.4	72	5	46	40	86	116
Average	7.463	1	4.88	95.55	16	9.08	76.44	5.88	56.44	38	94.44	102.9