

River Kosi, Bazpur Road, Udham Singh Nagar

Month	Temp °C	ph	DO (mg/L)	BOD (mg/l)	COD (mg/l)
Jan-13	12	7.2	8.2	2.6	16
Feb-13	12	7.5	8.2	2.4	14
Mar-13	15	7.4	7.8	2.4	14
Apr-13	20	7.3	7.8	2.4	16
May-13	22	7.3	7.0	2.4	16
Jun-13	23	7.2	7.6	2.8	14
Jul-13	20	7.3	7.4	2.6	18
Aug-13	19	7.1	7.8	2.2	15
Sep-13	—	-	-	-	-
Oct-13	18	7.2	6.8	2.6	22
Nov-13	17	7.7	6.5	4.8	32
Dec-13	11	7.3	7.2	5.2	38
Average	16.27	7.32	7.48	2.95	19.54
Quality Criteria For Class B		6.0-8.5	5 mg/l or more	3 mg/l or less	-

River Dhella U/s Moradabad Road. Udham Singh Nagar

Month	Temp °C	ph	DO (mg/L)	BOD (mg/l)	COD (mg/l)
Jan-13	12	7.3	0.4	18	210
Feb-13	12	7.1	0.8	30	238
Mar-13	15	7.3	0.8	25	175
Apr-13	20	7.6	0.4	56	235
May-13	22	7.5	0.4	76	235
Jun-13	23	7.4	1.2	53	216
Jul-13	20	7.5	0.8	64	234
Aug-13	20	7.4	0.6	60	218
Sep-13	-	-	-	-	-
Oct-13	18	6.9	0.4	36	226
Nov-13	17	7.3	0.0	42	348
Dec-13	11	7.5	2.2	54	418
Average	17.28	7.35	0.72	46.72	250.27
Quality Criteria For Class E		6.0-8.5			

River Dhella D/S Thakurdwara, Aliganj Road, Udham Singh Nagar

Month	Temp °C	ph	DO (mg/L)	BOD (mg/l)	COD (mg/l)
Jan-13	12	7.1	0.6	13	160
Feb-13	12	6.7	0.6	24	170
Mar-13	15	6.8	0.8	18	148
Apr-13	20	7.2	0.6	44	214
May-13					
Jun-13	23	7.2	1.8	18	145
Jul-13	21	7.1	1.4	16	162
Aug-13	20	7.2	1.0	18	186
Sep-13					
Oct-13	18	6.6	0.8	24	120
Nov-13	17	7.8	0.4	38	182
Dec-13	12	7.4	2.6	34	178
Average	17.0	7.16	1.08	24.7	166.5
Quality Criteria For Class E		6.0-8.5			

River Bhella U/S Kashipur, Udham Singh Nagar

Month	Temp °C	ph	DO (mg/L)	BOD (mg/l)	COD (mg/l)
Jan-13	12	7.1	1.8	6.5	34
Feb-13	12	6.9	1.0	14	95
Mar-13	15	7.0	1.2	15	90
Apr-13	20	7.1	0.8	26	120
May-13	22	6.9	0.4	45	165
Jun-13	23	7.2	0.8	14	86
Jul-13	20	7.1	1.0	16	92
Aug-13	20	7.2	1.2	20	110
Sep-13					
Oct-13	18	7.1	2.0	14	84
Nov-13	17	6.7	2.2	22	134
Dec-13	12	7.1	2.2	22	134
Average	17.36	7.03	1.32	19.5	104
Quality Criteria For Class E		6.0-8.5			

River Bhella D/S Kashipur, Udham Singh Nagar

Month	Temp °C	ph	DO (mg/L)	BOD (mg/l)	COD (mg/l)
Jan-13	12	7.1	1.4	7.5	40
Feb-13	12	6.6	0.6	16	125
Mar-13	15	6.9	0.8	18	132
Apr-13	20	6.7	0.4	32	145
May-13					
Jun-13	23	7.0	0.6	18	120
Jul-13	22	7.2	0.8	16	126
Aug-13	20	7.1	0.6	24	138
Sep-13					
Oct-13	18	6.5	1.6	20	140
Nov-13	17	6.9	0.0	32	186
Dec-13	12	6.9	0.6	26	142
Average	17.1	6.89	0.74	20.95	129.4
Quality Criteria For Class E		6.0-8.5			

River Bhagirathi at Gangotri

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Apr-13	7	8.4	8.8	-	-
Average	7	8.4	8.8	-	-
Quality Criteria For Class A		6.5-8.5	6 mg/l or more	2mg/l or less	50 or less

River Alaknanda B/C Mandakini Rudraprayag

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Jan-13	11.3	7.62	10.6	1	-
Apr-13	17	7.8	8.8	0.8	-
Jul-13	19	8.3	7.8	1	-
Oct-13		8.4		0.8	-
Average	15.76	8.03	9.06	0.9	-
Quality Criteria For Class A		6.5-8.5	6 mg/l or more	2mg/l or less	50 or less

River Mandakini B/C Alaknanda Rudraprayag

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Jan-13	11.5	7.41	9.8	0.8	-
Apr-13	16	8.2	8.6	0.2	-
Jul-13	18	8.4	7.4	0.6	-
Oct-13		8.3		0.6	-
Average	15.16	8.07	8.6	0.55	-
Quality Criteria For Class A		6.5-8.5	6 mg/l or more	2mg/l or less	50 or less

River Alaknanda A/C Mandakini Rudraprayag

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Jan-13	11.3	7.57	10	1.2	-
Apr-13	17	8	8	0.8	-
Jul-13	19	8.4	7.6	1.6	-
Oct-13		8.4		1.2	-
Average	15.76	8.09	8.53	1.2	-
Quality Criteria For Class A		6.5-8.5	6 mg/l or more	2mg/l or less	50 or less

River Bhagirathi B/C Alaknanda Devprayag

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Jan-13	14	7.79	11.2	1	-
Apr-13	17	8.6	9.2	0.4	-
Jul-13	20	8.4	7.4	1.8	-
Oct-13		8.2		1.4	-
Average	17	8.24	9.26	1.15	-
Quality Criteria For Class A		6.5-8.5	6 mg/l or more	2mg/l or less	50 or less

River Alaknanda B/C Bhagirathi Devprayag

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Jan-13	12.8	7.48	9.8	1.2	-
Apr-13	18	8.2	8.8	1.6	-
Jul-13	19	8.7	7.6	2	-
Oct-13		8.3		1.6	-
Average	16.6	8.17	8.73	1.6	-
Quality Criteria For Class A		6.5-8.5	6 mg/l or more	2mg/l or less	50 or less

River Alaknanda A/C Bhagirathi Devprayag

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Jan-13	13.2	7.86	10	1.2	-
Apr-13	17	8.4	8.8	1.2	-
Jul-13	20	8.5	7.6	2	-
Oct-13		8.3		1.8	-
Average	16.73	8.26	8.8	1.55	-
Quality Criteria For Class A		6.5-8.5	6 mg/l or more	2mg/l or less	50 or less

River Ganga U/S Lakshmanjhula

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Jan-13	10.6	7.72	8.8	1.4	33
Feb-13	12.4	7.88	8.6	0.8	26
Mar-13	14.0	7.9	9.2	1.0	29
Apr-13	18.0	8.0	9.2	1.2	26
May-13	18.0	7.9	8.8	1.2	33
Jun-13	21.0	7.96	7.4	1.8	110
Jul-13	21.0	7.9	7.6	1.2	27
Aug-13	20.0	8.1	8	1.6	15
Sep-13	19.0	7.9	8.6	1.8	21
Oct-13		8.18		2.4	26
Nov-13	18.0	7.77	8.8	1.6	14
Dec-13	12.0	7.3	9.2	1.4	23
Average	16.73	7.88	8.56	1.45	31.92
Quality Criteria For Class B		6.5-8.5	5 mg/l or more	3 mg/l or less	500 MPN/100 ml or less

Upper Ganga Canal D/S Harki Pauri Haridwar

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Jan-13	-	8.13	8.2	2	110
Feb-13	-	8.05	8.4	2.4	80
Mar-13	-	8.2	8.6	2	60
Apr-13	-	8.5	8.4	2.4	50
May-13	-	7.9	8.4	2.4	90
Jun-13	-	8.29	6.2	2.2	240
Jul-13	-	8.4	7.4	1.6	130
Aug-13	-	8.5	7.8	2.4	70
Sep-13	-	8.2	8.2	2.2	90
Oct-13	-				
Nov-13	-	7.66	8.2	1.6	220
Dec-13	14	8.2	8.8	2.8	130
Average	14	8.18	8.05	2.18	115.45
Quality Criteria For Class B		6.5-8.5	5mg/l or more	3 mg/l or less	500 MPN/100 ml or less

River Ganga D/S Missarpur Haridwar

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Jan-13	-	7.8	6.4	7.8	>1600
Feb-13	-	7.76	6.8	7.6	>1600
Mar-13	-	7.5	6.8	7.2	>1600
Apr-13	-	7.8	6.4	6	>1600
May-13	-	7.6	6	6.4	>1600
Jun-13	-	8.32	5.6	3	900
Jul-13	-	8.2	6.6	2.8	500
Aug-13	-	8.1	6.8	4.4	900
Sep-13	-	7.7	6.2	4.8	900
Oct-13	-				
Nov-13	-	7.88	7.8	2.2	900
Dec-13	19	7.6	5.6	4.4	>1600
Average	19	7.84	6.45	5.14	820
Quality Criteria For Class D		6.5-8.5	4 mg/l or more	-	-

Upper Ganga Canal D/S Roorkee Haridwar

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Jan-13	-	7.34	7.4	30	170
Feb-13	-	7.46	7.6	28	110
Mar-13	-	8	8.2	26	170
Apr-13	-	8.3	8.4	2.4	140
May-13	-	8	8.8	2.8	170
Jun-13	-	-	-	-	-
Jul-13	-	8.3	7.2	1.2	280
Aug-13	-	8.2	7.2	2.6	220
Sep-13	-	7.9	7.8	3	240
Oct-13	-	-	-	-	-
Nov-13	-	7.76	8	2	350
Dec-13	15	8.2	-	2.4	500
Average	15	7.94	7.84	10.04	235
Quality Criteria For Class B		6.5-8.5	5 mg/l or more	3 mg/l or less	500 MPN/100 ml or less

River Ganga D/S Raiwala, Dehradun

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Jan-13	13	7.81	6.8	4.4	>1600
Feb-13	15.2	7.48	6.4	5.4	>1600
Mar-13	18	8.2	6	5.8	>1600
Apr-13	21	8.1	8	5.2	>1600
May-13	23	7.7	6.4	3.6	>1600
Jun-13	22	8.14	6.8	4.4	900
Jul-13	22	8	7.2	2	300
Aug-13	22	8.2	6.8	2.4	500
Sep-13	21	7.8	6.8	2.8	900
Oct-13	-	7.9	-	5.4	>1600
Nov-13	24	7.42	7.4	13	1600
Dec-13	16	7.5	6.6	11	>1600
Average	19.74	7.85	6.83	5.45	840
Quality Criteria For Class D		6.5-8.5	4 mg/l or more	-	-

River Suswa D/S Mathurawala, Dehradun

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Jan-13	15.8	7.34	2.6	30	>1600
Feb-13	16.4	7.46	2.6	28	>1600
Mar-13	23	8	2.8	26	>1600
Apr-13	27	7.9	2.4	32	>1600
May-13	30	7.8	2	44	>1600
Jun-13	26	7.8	3.6	22	>1600
Jul-13	27	7.6	6.4	17	>1600
Aug-13	26	7.8	6.2	14	>1600
Sep-13	25	7.6	4.6	19	>1600
Oct-13		7.7		22	>1600
Nov-13	24	7.63	1.8	30	>1600
Dec-13	21	7.8	3.6	36	>1600
Average	23.74	7.70	3.50	26.66	>1600
Quality Criteria For Class E		6.5-8.5	-	-	-

River Yamuna U/S Yamnotri

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Apr-13	3	7.8	8.4	-	-
Average	3	7.8	8.4	-	-
Quality Criteria For Class A		6.5-8.5	6 mg/l or more	2mg/l or less	50 or less

River Yamuna D/S Syanachati

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Apr-13	8	8.2	8.8	-	-
Average	8	8.2	8.8	-	-
Quality Criteria For Class A		6.5-8.5	6 mg/l or more	2mg/l or less	50 or less

River Yamuna U/S Lakwar Dam Dehradun

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Jan-13	12.2	8.39	8.8	1.4	-
Apr-13	19	8.5	8.4	2	-
Jul-13	23	7.8	5.2	1.6	-
Oct-13		8		2.4	-
Average	18.06	8.17	7.46	1.85	-
Quality Criteria For Class A		6.5-8.5	6 mg/l or more	2mg/l or less	50 or less

River Yamuna U/S Dakpather Dehradun

Month	Temp	ph	DO mg/l	BOD mg/l	Total Coliform MPN/100 ml
Jan-13	12.8	8.22	8.4	2	70
Apr-13	17	8.2	8	1.2	21
Jul-13	23	7.9	6	2	
Oct-13		8.2		2.6	40
Average	17.6	8.13	7.46	1.95	43.66
Quality Criteria For Class B		6.5-8.5	5 mg/l or more	3 mg/l or less	500 MPN/100ml

**PRIMARY WATER QUALITY CRITERIA FOR DESIGNATED -
BEST - USE - CLASSES**

Classification	Category	Tolerance Limit
Drinking Water Source without conventional treatment but after disinfections	A	<ol style="list-style-type: none"> Total Coliform Organism MPN/100 ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical oxygen demand 5 days 20° C 2mg/l or less
Outdoor Bathing (Organized)	B	<ol style="list-style-type: none"> Total Coliforms Organism MPN/100 ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Drinking Water source after conventional treatment and disinfections	C	<ol style="list-style-type: none"> Total Coliforms Organism MPN/100 ml shall be 5000 or less pH between 6.5 and 8.5 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild Life and Fisheries	D	<ol style="list-style-type: none"> pH between 6.5 and 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N)1.2 mg/l or less
Irrigation Industrial Cooling, Controlled waste disposal	E	<ol style="list-style-type: none"> pH between 6.0 and 8.5 Electrical Conductivity at 25°C micro mhos/cm Max. 2250 Sodium absorption ratio Max. 26 Boron Max. 2 mg/l

