

WATER QUALITY OF RIVER RUSHIKULYA- 2011

Madhopur

Month	Year	Temp., °C	pH	DO, mg/l	BOD, mg/l	COD, mg/l	Cond., µS/cm	Nitrate- N, mg/l
January	2011	24	8.1	10.0	2.3	8.1	342	0.126
February		27	8.2	8.1	2.8	15.7	304	0.094
March		20	8.2	8.3	2.5	25.8	394	0.107
April		32	7.97	8.1	2.8	29.4	289	2.184
May		32	7.5	7.9	3	18.3	332	0.314
June		30	7.7	7.9	2.2	29.9	231	0.260
July		27	8.2	5.5	1.0	15.5	297	1.264
August		29	8.4	7.5	2.3	25.0	383	0.126
Sep		29	7.6	6.5	2.3	24	242	0.014
Oct		33	7.8	8.3	2.3	12.9	221	0.498
November		25	8.3	8.5	1.2	13.6	244	0.051
December		23	8.0	10.8	2.7	17.8	315	0.255
Minimum			7.5	5.5	1	8.1	221	0.014
Maximum			8.4	10.8	3	29.9	394	2.184
Average			8.0	8.1	2.3	20	299	0.441

Pottagarh

Month	Year	Temp., °C	pH	DO, mg/l	BOD, mg/l	COD, mg/l	Cond., µS/cm	Nitrate- N, mg/l
January	2011	23	7.6	8.1	3.3	12.0	10190	0.124
February		26	8.2	8.4	2.5	15.7	18040	0.376
March		29	8.3	8.9	1.8	18.3	16110	0.293
April		31	7.38	8.1	2.3	19.2	4908	0.937
May		31	7.8	7.0	2.3	16.6	25280	1.095
June		29	8.1	8.2	1.5	29.9	19160	0.628
July		26	8.2	6.3	1.0	25.7	10240	0.403
August		31	7.9	7.4	1.0	20.0	4617	0.736
Sep		31	8.2	6.7	3.3	33.6	280	1.013
Oct		33	8.1	8.1	2.7	13.7	19997	0.571
November		25	7.9	8.7	1.0	34.0	13310	0.371
December		24	8.3	8.2	2.5	21.4	15100	0.378
Minimum			7.4	6.3	1	12	280	0.124

Maximum		8.3	8.9	3.3	34	25280	1.095
Average		8.0	7.8	2.1	22	13103	0.577

NH ₄ -N, mg/l	TC, MPN/ 100 ml	FC, MPN/ 100 ml	SI	DI	Class	Nitrite-N, mg/l	T. Alk., mg/l	P. Alk., mg/l
0.728	1100	790	--	--	--	0.00627	136	ND
0.392	2200	1100				0.008	128	ND
1.23	3500	1100				0.002	152	ND
0.448	130	78				0.003	116	ND
0.224	2400	1300				0.012	124	ND
0.448	3500	2400				0.006	112	ND
0.224	5400	1100				0.001	108	6
0.448	2800	1400				0.004	98	18
0.78	24000	13000				0.016	98	ND
0.112	2800	1300						
0.28	3500	1300				0.001	92	12
0.280	3500	2400				0.004	90	2
0.112	130	78	0.0	0		0.00	78.00	2
1.23	24000	13000	0	0		0.03	152.00	18
0	4569	2272	#DIV/0!	#DIV/0!		0.01	111.00	8

NH ₄ -N, mg/l	TC, MPN/ 100 ml	FC, MPN/ 100 ml	SI	DI	Class	Nitrite-N, mg/l	T. Alk., mg/l	P. Alk., mg/l
0.728	260	80	5.7	0.38	C	0.01023	132	ND
0.336	230	80				0.001	132	ND
0.896	330	80				0.002	156	ND
0.504	940	460	5.6	0.4	C	ND	124	ND
0.728	120	70				0.028	116	ND
0.448	490	230				0.006	116	10
0.224	330	110				0.027	112	8
0.672	490	130				0.019	92	ND
0.78	2200	1100				0.002	88	8
0.112	840	250	6.8	0.6	B	0.010	104	6
0.28	1700	400				0.005	124	ND
0.168	940	330				0.007	134	12
0.112	120	70	5.6	0.4		0.00	88.00	6

0.896	2200	1100	6.8	0.6		0.03	156.00	12
0	739	277	6.0	0.5		0.01	119.17	9

s CaCO ₃ , mg/l	Ca as CaCO ₃ , mg/l	Mg as CaCO ₃ , mg/l	Chloride , mg/l	Sulphate , mg/l	PO ₄ ³⁻ -P, mg/l	Flouride, mg/l	Total Kjeldahl N, mg/l	TSS, mg/l
108	88	20	28.6	6.0	0.013	0.649	3.9	12
100	56	44	18.6	3.76	0.024	0.09	5.3	50
132	84	28	24.9	1.2	0.416	0.321	6.4	49
100	38	32	18	3.76355	0.150651	0.551	25.2	68
100	80	20	26	3.3	0.030	0.404	1.68	45
88	56	32	22.18	6.6	0.041	0.837	3.4	114
104	68	36	17.6	4.2	0.038	0.26	3.64	148
106	66	40	17.6	9.8	0.044	0.284	3.92	99
76	46	30	18.5	3.8	0.01	0.275	5.32	188
72	48	24	15.0	4.0	0.257	0.299	3.36	80
84	50	34	42	4.52	0.071	0.294	1.68	147
74	42	32	42.1	4.83	0.033	0.332	2.24	43
72	--	20.0	14.9925	1.18	0.01	0.09	1.68	12
132	--	44	42.1	9.785	0.416	0.84	25.20	188
95	--	31.0	24.3	4.6	0	0.38	5.51	87

s CaCO ₃ , mg/l	Ca as CaCO ₃ , mg/l	Mg as CaCO ₃ , mg/l	Chloride , mg/l	Sulphate , mg/l	PO ₄ ³⁻ -P, mg/l	Flouride, mg/l	Total Kjeldahl N, mg/l	TSS, mg/l
1500	300	1200	2724	1134	0.009	0.217	3.4	66
2500	380	2120	6096	976.80	0.029	1.00	3.4	167
2300	300	2000	4996	739	0.005	0.594	4.8	107
800	200	600	1400	232.36	0.356805	0.579	4.2	71
3200	600	2600	10500	1032.3	0.048	0.781	4.48	115
2600	600	2000	5970.9	400.5	0.033	0.313	3.4	112
2400	1000	1400	4234	126.3	0.034	0.35	5.6	196
1700	700	1000	3178.0	304.0	0.077	0.343	2.80	340
88	52	36	32.7	7.5	0.051	0.3	4.48	142
2100	800	1300	8000.0	118.0	0.035	0.568	2.8	76
2000	900	1100	4400	419.36	0.024	0.517	1.12	33
3800	1400	2400	6246.5	722.60	0.007	0.542	2.80	100
88	--	36.0	32.6825	7.5271	0.005	0.22	1.12	33

3800	--	2600	10500	1134.44	0.35681	1.00	5.60	340
2082	--	1479.7	4814.8	517.8	0	0.51	3.59	127

TDS, mg/l	TFS, mg/l	Turbidity, NTU	Na, mg/l	K, mg/l	B, mg/l	Cadmium, micro gm/l	Copper, micro gm/l	Lead, micro gm/l
184	182	6.4	18.3	3.9	0.231	0.1	1.4	2.2
167	182	7.8	12.3	3.8	0.144	0.1	0.8	2.0
209	232	10.4	16.1	4.4	0.049	1.0	3.0	5.0
166	220	14.5	11.13	2.75	0.159	0.4	BDL	6.6
171	180	9	16.9	4.2	0.034	0.7	4.3	0.7
156	212	36.6	14.5	5.1	0.034	1.8	3.5	9.3
161	269	21.1	11.78	3.63	0.042	1.6	5.8	6.9
247	212	35.7	11.2	4.0	0.367	2.1	5.4	7.8
143	288	55.7	12.5	3.1	0.026	1.5	9.0	5.8
136	176	8.2	11.02	3.34	0.057	3.7	4.3	3.4
146	268	3.7	24.2	3.7	0.120	4.4	6.8	7.8
169	188	2.7	26.6	3.6	0.173	1.3	4.1	2.6
136	176.00	2.7	11.02	2.75	0.03	0.06	0.75	0.6875
247	288.00	55.7	26.63	5.06	0.37	4.44	9	9.3125
171	217.417	17.7	15.5	4	0.12	1.54	4	5

TDS, mg/l	TFS, mg/l	Turbidity, NTU	Na, mg/l	K, mg/l	B, mg/l	Cadmium, micro gm/l	Copper, micro gm/l	Lead, micro gm/l
6270	6176	5.5	1760	52	0.386	2.0	0.7	5.9
12119	10760	16.1	3870	195.0	0.545	1.6	1.9	10.0
9880	9508	5.5	2793	145	0.999	2.0	4.0	5.0
3037	2828	5.8	811.5	48	0.704	2.3	2.8	8.4
19204	17692	1.4	5990	256	1.824	3.7	9.9	9.1
11975	10776	8	3530	118.0	0.791	1.6	3.2	7.3
7605	6809	10.5	2296	58	0.58	0.6	7.8	7.2
2978	1968	44.6	1567.4	43.4	0.064	2.6	6.8	6.5
161	272	45.3	21.5	3.6	0.428	1.3	6.7	2.7
14480	14000	10.6	4982	176	0.893	7.4	8.1	8.9
8451	7872	8.2	2332.0	71.0	0.346	4.3	7.1	6.6
11588	9084	6.3	3094.0	64.0	1.281	4.6	13.1	7.9
161	272.00	1.4	21.49	3.57	0.06	0.63	0.6875	2.6875

19204	17692.00	45.3	5990	256	1.82	7.38	13.0625	10
8979	8145.417	14.0	2753.9	102	0.74	2.84	6	7

m Total, micro gm/l	Nickel, micro gm/l	Zinc, micro gm/l	Total, micro gm/l	Mercury, micro gm/l
73.0	5.9	6.5	670	
10.0	1.2	0.388	1150	
56.0	4.0	9.0	1360	BDL
84.0	1.4	5.9	1440	BDL
20	2.4	1.5	523	BDL
29	3.4	8.6	5117	BDL
25	7.6	9.1	2822	BDL
7.0	3.3	5.3	6331	BDL
22	2.6	8.2	14266	BDL
51	BDL	12.5	3170	BDL
70	5.4	17.9	182	BDL
35	1.0	1.2	370	BDL
--	1.0	0.3875	182	
--	7.625	17.875	14266	
--	3.5	7.2	3116.8	

m Total, micro gm/l	Nickel, micro gm/l	Zinc, micro gm/l	Total, micro gm/l	Mercury, micro gm/l
18.0	3.8	13.9	630	
95.0	9.6	1.130	2400	
45.0	8.0	5.0	1750	BDL
187.0	6.0	4.2	480	BDL
58	0.9	5.3	677	BDL
46	6.5	5.0	931	BDL
27	2.9	6.9	1459	BDL
5.0	2.9	7.3	15552	BDL
15	1.5	9.1	16608	BDL
86	1.5	11.9	3120	BDL
78	6.1	16.8	758	BDL
40	8.7	9.3	960	BDL
--	0.9	1.13	480	

--	9.5625	16.8125	16608	
--	4.9	8.0	3777.1	