

WATER QUALITY OF RIVER RUSHIKULYA- 2012

Madhopur

Month	Year	Temp., °C	pH	DO, mg/l	BOD, mg/l	COD, mg/l	Cond., µS/cm	Nitrate- N, mg/l
January	2012	26	8.7	7.1	2.2	18.7	270	0.581
February		27	8.2	10.6	1.2	6.9	381	0.045
March		31	8.1	8.7	1.5	14.1	299	0.076
April		34	8.3	8.0	2.0	19.7	284	0.170
May		33	8.5	7.5	0.8	4.7	386	0.359
June		29	8.3	5.1	1.5	15.5	648	0.894
July		20	8.1	6.2	0.9	10.1	227	2.832
August		30	8.4	8.9	2.0	15.7	245	1.087
Sep		31	7.9	8.0	1.6	20.6	209	0.871
Oct		29	8.3	8.8	1.0	16.2	228	0.598
November		24	8.4	8.6	1.4	7.5	283	0.846
December		22	8.4	8.3	1.2	8.9	282	0.198
Minimum			7.9	5.1	0.8	4.7	209	0.045
Maximum			8.7	10.6	2.2	20.6	648	2.832
Average			8.3	8.0	1.4	13.2	312	0.713

Pottagarh

Month	Year	Temp., °C	pH	DO, mg/l	BOD, mg/l	COD, mg/l	Cond., µS/cm	Nitrate- N, mg/l
January	2012	26	6.9	10.8	2.8	21.4	22830	0.515
February		28	8.1	9.1	1.2	17.3	33250	0.519
March		31	7.8	7.0	1.7	20.2	51840	1.429
April		31	7.9	8.0	2.0	25.6	14360	0.490
May		32	7.9	7.6	2.5	20.2	8217	0.817
June		28	7.9	6.3	2.2	22.8	44700	0.513
July		29	7.9	6.7	2.5	20.1	7274	0.812
August		30	8.1	9.3	2.1	29.4	20520	1.059
Sep		29	8.4	8.2	1.5	20.6	335	1.135
Oct		30	8.4	8.7	1.0	16.2	877	0.525
November		24	8.2	8.9	1.2	9.3	1978	2.364
December		27	8.2	8.2	2.7	17.8	28960	0.739
Minimum			6.9	6.3	1.0	9.3	334.6	0.5

Maximum		8.4	10.8	2.8	29.4	51840.0	2.4
Average		8.0	8.2	2.0	20.1	19595.1	0.9

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
0.168	5400	1700	--	--	--	0.006	112	ND
0.448	5400	2200					138	ND
0.112	3500	2200				0.005	100	ND
0.784	1700	790	5.5	0.52	C	0.032	128	8
0.224	330	230				0.026	132	18
0.336	5400	2400				ND	136	4
0.112	9200	2800				0.023	76	BDL
0.268	1300	790				0.014	62	8
0.112	5400	1700				0.017	92	BDL
0.392	2800	1100				0.008	98	8
0.224	2200	1100				0.079	116	4
0.112	9200	2400				0.007	106	2
0.112	330.0	230	5.50	0.52	0.0	0.0	62.0	2.0
0.784	9200.0	2800	5.50	0.52	0.0	0.1	138.0	18.0
0.274	4319.2	1618	5.50	0.52	#DIV/0!	0.0	108.0	7.4

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
0.224	340	170	6.5	0.85	B	0.005	120	ND
0.392	470	130				0.007	116	ND
0.224	330	170				0.008	114	ND
0.336	68	20				0.107	124	ND
1.456	490	170				0.050	112	ND
0.672	230	130				0.005	112	BDL
0.168	3500	2400				0.019	76	BDL
0.112	230	130				0.066	108	BDL
0.280	3500	2400				0.058	96	10
0.280	2200	940	6	0.44	B	0.008	124	12
0.224	1700	700				0.058	124	8
0.168	330	130				0.005	120	BDL
0.112	68.0	20.0	6.00	0.44	0.0	0.0	76.0	8.0

1.456	3500.0	2400.0	6.50	0.85	0.0	0.1	124.0	12.0
0.378	1115.7	624.2	6.25	0.65	#DIV/0!	0.0	112.2	10.0

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
102	70	32	10.3	7.7	0.074	0.382	2.0	63
116	68	48	33.1	3.47	0.093	0.41	3.4	32
90	68	22	21.1	20.4	0.018	0.502	2.52	75
104	60	44	26.3	19.9	0.034	0.441	2.80	113
128	72	56	30.7	12.97	0.122	0.402	2.52	62
140	64	76	118.4	29.01	0.046	0.458	2.24	44
74	46	28	14.1	16.6	0.026	0.296	7.0	356
92	60	32	39.23	18.31	0.003	0.353	4.48	154
76	44	32	12.5	4.25	0.042	0.287	1.68	230
102	78	24	13.6	5.2	0.064	0.321	4.5	98
102	78	24	16.7	11.68	0.033	0.297	5.04	72
114	72	42	26.6	16.8	0.057	0.290	7.3	67
74.0	44.0	22.0	10.3	3.5	0.003	0.3	1.68	32
140.0	78.0	76.0	118.4	29.0	0.122	0.5	7.28	356
103.3	65.0	38.3	30.2	13.9	0.051	0.4	3.78	114

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
4200	1000	3200	8072.4	1534.7	0.224	0.689	3.6	174
3800	800	3000	11415.0	2026.7	0.056	0.99	5.6	136
4700	1300	3400	18320	1742	0.074	0.913	3.36	195
3230	940	2290	3940.0	1420.0	0.061	0.905	2.24	259
2740	820	1920	2450.0	1268.0	0.142	0.877	3.36	456
6600	1000	5600	19887.5	2435.60	BDL	0.973	3.36	265
2400	400	2000	2313.0	1200.0	0.141	0.384	1.96	104
2600	400	2200	7691.2	1260.0	0.016	0.672	8.12	272
160	100	60	17.3	34.55	0.050	0.579	1.12	248
200	80	120	212.8	40.6	0.076	0.649	7.0	76
800	200	600	441.0	412.87	0.048	0.302	2.24	90
3700	1100	2600	11780.0	1445.5	0.003	0.699	4.5	47
160	80	60	17.3	34.6	0.003	0.302	1.12	47

6600	1300	5600	19887.5	2435.6	0.224	0.988	8.12	456
2928	678	2249	7211.7	1235.0	0.081	0.719	3.87	194

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
145	184	7.7	6.9	3.34	0.098	2.6	3.3	7.8
196	202	3.1	21.9	5.5	0.098	1.7	4.3	7.2
190	316	4	15.8	6.2	0.068	1.1	1.3	5.3
184	278	17	16.3	5.1	0.026	1.1	1.2	3.6
211	258	34.7	18.6	5.8	0.159	1.1	2.2	3.9
418	412	17.1	75.8	10.60	0.447	--	--	--
123	424	191.2	8.2	3.2	0.163	--	--	--
156	282	85.3	19.18	3.84	0.038	--	--	--
134	344	146.0	8.14	3.7	0.060	--	--	--
138	204	22.7	7.56	2.46	0.092	--	--	--
164	214	18.6	10.9	6.9	0.060	--	--	--
174	218	20.4	15.7	3.1	0.087	--	--	--
123.0	184.0	3.1	6.9	2.5	0.026	1.10	1.2	3.6
418.0	424.0	191.2	75.8	10.6	0.447	2.63	4.25	7.75
186.1	278.0	47.3	18.7	5.0	0.116	1.53	2	6

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
16497	14208	12.8	4114.0	202.0	1.229	1.1	6.1	5.6
22446	21316	0.9	6980.0	442.0	1.392	1.6	6.1	9.1
34218	23080	17	10984	488	1.934	1.1	4.3	5.3
9164	8800	20	2225.0	140.0	1.491	1.1	3.8	5.8
6020	6066	65.5	1189.0	162.0	1.543	1.4	3.4	5.8
38831	31300	10.8	10645.0	1195.00	2.831	--	--	--
5756	5628	9.8	1244.0	44.4	0.621	--	--	--
15338	14804	16.1	4465.0	160.0	0.814	--	--	--
188	392	130.1	10.50	4.1	0.125	--	--	--
558	588	14.4	124.2	21.2	0.224	--	--	--
1439	1400	39.9	215.0	23.9	0.357	--	--	--
22099	21802	15.1	6890.0	280.0	0.224	--	--	--
188	392	0.9	10.5	4.1	0.125	1.13	3.4	5.25

38831	31300	130.1	10984.0	1195.0	2.831	1.63	6.125	9.125
14380	12449	29.4	4090.5	263.5	1.065	1.28	5	6

Chromium Total, micro gm/l	Nickel, micro gm/l	Zinc, micro gm/l	Total, micro gm/l	Mercury, micro gm/l	
12	11.5	31.8	1809	BDL	BDL
13	4.5	2.1	706		
42	4.0	8.9	542	BDL	ND
15	4.6	9.2	1512	BDL	BDL
24	3.9	5.6	1290	BDL	
45	--	--	1258	--	--
43	--	--	1464	--	BDL
53	--	--	3990	--	BDL
40	--	--	12370	--	--
36	--	--	9270	--	--
25	--	--	510	BDL	
26	--	--	1360	--	BDL
--	3.9	2.0625	510		
--	11.5	31.8125	12370		
--	5.7	11.5	3006.8		

Chromium Total, micro gm/l	Nickel, micro gm/l	Zinc, micro gm/l	Total, micro gm/l	Mercury, micro gm/l	
17	10.0	7.9	442	BDL	BDL
22	2.4	8.3	653		
32	8.9	9.4	1939	BDL	ND
26	8.5	9.6	2160	BDL	BDL
46	4.2	5.8	970	BDL	
58	--	--	758	--	--
23	--	--	1320	--	BDL
89	--	--	835	--	BDL
35	--	--	10840	--	--
38	--	--	9880	--	--
46	--	--	3440	--	BDL
30	--	--	930	--	BDL
17.000	2.4	5.8	442		

89.000	10	9.6	10840	
38.464	6.8	8.2	2847.3	