WATER QUALITY OF RIVER RUSHIKULYA- 2013

Madhopur

Month	Year	Temp., ^{0}C	pH	DO, mg/l	BOD, mg/l	COD, mg/l	Cond., µS/cm	Nitrate-N, mg/l
January	2013	25	8.4	8.2	1.0	7.8	295	0.344
February		29	8.3	7.7	1.6	9.1	296	1.460
March		26	8.2	7.9	1.8	20.0	476	1.449
April		25	8.4	6.6	2.8	28.6	396	0.890
May		30	8.0	5.8	3.6	25.6	19960	0.577
June		32	8.0	7.2	2.3	19.1	17320	0.517
July		25	8.3	6.6	1	16.3	128	2.336
August		32	8.2	6.6	1.0	16.0	220	0.430
Sep		27	8.0	6.7	2.1	12.7	287	0.090
Oct			7.6	5.6	2.6	34.9	223	3.047
November								
December								
Minimum			**7.6**	**5.6**	**1.0**	**7.8**	**128**	**0.090**
Maximum			**8.4**	**8.2**	**3.6**	**34.9**	**19960**	**3.047**
Average			**8.1**	**6.9**	**2.0**	**19.0**	**3960**	**1.114**

Pottagarh

Month	Year	Temp., ^{0}C	pH	DO, mg/l	BOD, mg/l	COD, mg/l	Cond., µS/cm	Nitrate-N, mg/l
January	2013	22	7.5	8.0	1.4	31.0	45960	1.883
February		28	7.8	7.8	2.2	23.7	38926	3.898
March		26	7.7	7.6	1.3	18.0	59330	1.230
April		28	7.9	7.5	2.0	22.2	49280	0.967
May		28	8.0	5.2	2.2	28.8	43500	0.968
June		29	8.2	7.2	0.9	30.6	42930	0.821
July		23	8.4	6.6	2.7	27.8	1240	0.298
August		32	8.3	7.0	0.9	24.0	469	0.663
Sep		27	7.9	6.9	2.1	14.5	344	1.058
Oct			7.9	6.2	2.0	46.1	241	3.339
November								
December								
Minimum			**7.5**	**5.2**	**0.9**	**14.5**	**241.0**	**0.3**

Maximum		**8.4**	**8.0**	**2.7**	**46.1**	**59330.0**	**3.9**
Average		**8.0**	**7.0**	**1.8**	**26.7**	**28222.0**	**1.5**

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	9200	5400	--	--	--	0.009	128	8
0.112	5400	2200	--	--	--	0.012	108	2
0.168	3500	1100	--	--	--	BDL	124	6.0
0.280	3500	1300	--	--	--	0.006	120	4.0
0.220	940	490	--	--	--	0.005	96	BDL
0.224	790	490	--	--	--	0.006	96	BDL
0.392	4900	1700	--	--	--	0.007	32	2
0.224	13000	4900	--	--	--	0.003	108	BDL
0.504	24000	13000	--	--	--	0.006	126	BDL
0.224	>160000	>160000	--	--	--	0.032	72	BDL
0.112	**790.0**	**490**	**0.00**	**0.00**	**0.0**	**0.0**	**32.0**	**2.0**
0.504	**24000.0**	**13000**	**0.00**	**0.00**	**0.0**	**0.0**	**128.0**	**8.0**
0.252	**7247.8**	**3398**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**0.0**	**101.0**	**4.4**

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	490	170	5.5	0.52	C	0.008	108	BDL
0.224	270	130	--	--	--	0.009	116	BDL
0.280	130	45	--	--	--	0.019	120	BDL
0.168	130	45	6.75	0.57	B	0.009	124	BDL
0.220	140	68	--	--	--	0.005	112	BDL
0.504	230	78	--	--	--	0.005	120	BDL
0.168	2400	790	--	--	--	0.022	88	4
0.280	3500	2400	--	--	--	0.001	116	BDL
0.280	5400	2400	--	--	--	0.006	114	BDL
0.168	160000	92000	6.4	0.8	B	0.022	80	BDL
0.168	**130.0**	**45.0**	**5.50**	**0.52**	**0.0**	**0.0**	**80.0**	**4.0**

0.504	160000.0	92000.0	6.75	0.80	0.0	0.0	124.0	4.0
0.252	17269.0	9812.6	6.22	0.63	#DIV/0!	0.0	109.8	4.0

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	Fluoride, mg/l	Total Kjeldahl N, mg/l	TSS, mg/l
120	64	56	20.6	8.71	0.015	0.373	3.10	36
118	64	54	21.6	32.6	0.010	0.416	2.8	188
120	64	56	45.1	11.94	0.010	0.423	4.20	34
116	64	52	49.4	16.6	0.082	0.425	2.5	104
1000	360	640	7690.0	521.6	0.021	0.499	3.3	298
2000	400	1600	6700.0	279.8	0.005	0.386	2.5	48
32	16	16	7.7	10.7	0.134	0.128	3.3	313
90	52	38	9.6	1.7	0.091	0.228	3.6	130
94	64	30	13.5	1.1	0.044	0.276	3.30	110
64	44	20	15.1	10.94	0.155	0.178	3.08	596
32.0	**16.0**	**16.0**	**7.7**	**1.1**	**0.005**	**0.1**	**2.52**	**34**
2000.0	**400.0**	**1600.0**	**7690.0**	**521.6**	**0.155**	**0.5**	**4.20**	**596**
375.4	**119.2**	**256.2**	**1457.3**	**89.6**	**0.057**	**0.3**	**3.17**	**186**

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	Fluoride, mg/l	Total Kjeldahl N, mg/l	TSS, mg/l
5800	2200	3600	18288.0	1597.03	0.028	0.272	3.40	458
3500	1000	2500	15230.0	1014.9	0.037	0.865	2.5	280
6800	1000	5800	23384.0	3016.09	0.022	0.901	3.08	66
6600	1000	5600	19680.0	2605.7	0.038	0.922	2.0	84
3900	1200	2700	17250.0	1411.6	0.021	0.845	2.7	478
6800	1200	5600	21057.3	1579.6	0.016	0.836	3.4	60
204	130	74	478.0	28.1	0.033	0.222	3.0	276
96	58	38	75.2	17.3	0.102	0.230	2.8	148
110	68	42	42.4	16.5	0.092	0.292	2.75	50
68	48	20	24.5	11.81	0.129	0.172	2.24	1044
68	**48**	**20**	**24.5**	**11.8**	**0.016**	**0.172**	**1.96**	**50**

6800	2200	5800	23384.0	3016.1	0.129	0.922	3.40	1044
3388	790	2597	11550.9	1129.9	0.052	0.556	2.78	294

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
170	164	15.4	13.5	4.2	0.064	--	--	--
179	328	8.0	12.9	3.6	0.072	0.6	3.9	6.9
257	236	9.0	28.4	9.4	0.129	--	--	--
244	302	15.0	27.7	8.6	0.068	--	--	--
13874	11864	8.9	4965.0	232.5	0.449	--	--	--
11944	10994	1.9	3330.0	179.5	1.809	--	--	--
76	319	170	5.0	1.3	0.041	--	--	--
132	222	100	5.2	2.0	0.052	--	--	--
172	152	80	9.3	3.1	0.094	--	--	--
129	706	160	10.8	3.3	0.310	--	--	--
76.0	**152.0**	**1.9**	**5.0**	**1.3**	**0.041**	**0.60**	**3.9**	**6.9**
13874.0	**11864.0**	**170.0**	**4965.0**	**232.5**	**1.809**	**0.60**	**3.9**	**6.9**
2717.7	**2528.7**	**56.8**	**840.8**	**44.8**	**0.309**	**0.60**	**4**	**7**

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
33194	32916	14.3	10585.0	133.6	2.051	--	--	--
28913	25428	2.1	9610.0	422.0	1.241	0.9	3.8	8.9
44815	39776	4.0	14670.0	712.5	1.574	--	--	--
36782	36025	6.0	11768.0	520.0	1.540	--	--	--
30275	29396	79.2	9897.5	485.0	3.436	--	--	--
37818	30354	1.3	11385.0	1010.5	3.513	--	--	--
930	1120	85	265.0	15.0	2.693	--	--	--
292	370	80	53.1	17.0	2.595	--	--	--
240	220	45	30.1	4.0	0.071	--	--	--
151	1098	150	17.1	3.4	0.086	--	--	--
151	**220**	**1.3**	**17.1**	**3.4**	**0.071**	**0.90**	**3.8**	**8.9**

44815	**39776**	**150.0**	**14670.0**	**1010.5**	**3.513**	**0.90**	**3.8**	**8.9**
21341	**19670**	**46.7**	**6828.1**	**332.3**	**1.880**	**0.90**	**4**	**9**

Chromium Total, micro gm/l	Nickel, micro gm/l	Zinc, micro gm/l	Total, micro gm/l	Mercury, micro gm/l	Cr(VI)
28	--	--	1260	BDL	BDL
5	2.1	6.2	610	BDL	BDL
35	--	--	670	BDL	BDL
5	--	--	1210	BDL	BDL
35	--	--	1584	BDL	BDL
20	--	--	387	BDL	BDL
32	--	--	12625	BDL	BDL
15	--	--	7606	BDL	BDL
30	--	--	4314	BDL	BDL
48	--	--	3671	BDL	BDL
	2.1	**6.2**	**387**		
	2.1	**6.2**	**12625**		
	2.1	**6.2**	**3393.7**		

Chromium Total, micro gm/l	Nickel, micro gm/l	Zinc, micro gm/l	Total, micro gm/l	Mercury, micro gm/l	Cr(VI)
32	--	--	490	BDL	7
47	4.3	7.2	216	BDL	BDL
27	--	--	245	BDL	BDL
5	--	--	700	BDL	BDL
31	--	--	1457	BDL	BDL
25	--	--	2369	10	BDL
15	--	--	5867	BDL	BDL
22	--	--	6339	BDL	BDL
10	--	--	1919	BDL	BDL
70	--	--	3766	BDL	BDL
5.000	**4.3**	**7.2**	**216**		

70.000	**4.3**	**7.2**	**6339**	
28.375	**4.3**	**7.2**	**2336.8**	