

WATER QUALITY OF RIVER BUDHABALANGA - 2010

Baripada D/s

Month	Year	Temp., °C	pH	DO, mg/l	BOD, mg/l	COD, mg/l	Cond., µS/cm	Nitrate- N, mg/l
January	2010	23	7.96	8.2	1.8	10.6	223.7	0.115
Apr		24	8.2	7.6	2.2	16	312	0.437
July		28	7.4	6.8	1.4	10	211	0.57
Oct		23	7.9	7.4	1.6	9.8	200	0.672
Minimum		23.0	7.4	6.8	1.4	9.8	200.0	0.1
Maximum		28.0	8.2	8.2	2.2	16.0	312.0	0.7
Average		24.5	7.9	7.5	1.8	11.6	236.7	0.4

Balasure U/s

Month	Year	Temp., °C	pH	DO, mg/l	BOD, mg/l	COD, mg/l	Cond., µS/cm	Nitrate- N, mg/l
January	2010	22	7.72	7.8	2.8	16.7	257.5	0.221
Apr		24	8.2	7.2	1.8	12	399	0.001
July		28	7.9	6.2	1.3	12	153	0.018
Oct		22	7.9	7.6	1.9	9.8	173	0.589
Minimum		22.0	7.7	6.2	1.3	9.8	153.0	0.0
Maximum		28.0	8.2	7.8	2.8	16.7	399.0	0.6
Average		24.0	7.9	7.2	2.0	12.6	245.6	0.2

Balasure D/s

Month	Year	Temp., °C	pH	DO, mg/l	BOD, mg/l	COD, mg/l	Cond., µS/cm	Nitrate- N, mg/l
January	2010	21	7.96	8	2	12.1	235.8	0.058
Apr		26	8.3	7.8	2.2	18	2856	0.555
July		29	7.5	6.2	1.8	14	161	0.032
Oct		23	7.2	7.4	1.4	13.1	208	0.571
Minimum		21.0	7.2	6.2	1.4	12.1	161.0	0.0
Maximum		29.0	8.3	8.0	2.2	18.0	2856.0	0.6
Average		24.8	7.7	7.4	1.9	14.3	865.2	0.3

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
0.44	1200	700				0.022	86	0
0.112	2200	1100	5.33	0.59	C	0.002	140	20
0.336	3500	1700				0.009	92	8
1.008	2800	1400	5.8	0.52	C	0.001	72	0
0.1	1200.0	700	5.3	0.5	0.0	0.0	72.0	0.0
1.0	3500.0	1700	5.8	0.6	0.0	0.0	140.0	20.0
0.5	2425.0	1225	5.6	0.6	#DIV/0!	0.0	97.5	7.0

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
0.66	1100	700				0.021	100	0
0.336	940	330	5.8	0.6	C	0.002	144	20
4.48	1200	580				0.016	56	8
0.952	1700	790	5	0.31	C	0.012	60	0
0.3	940.0	330	5.0	0.3	0.0	0.0	56.0	0.0
4.5	1700.0	790	5.8	0.6	0.0	0.0	144.0	20.0
1.6	1235.0	600	5.4	0.5	#DIV/0!	0.0	90.0	7.0

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
0.55	3300	1100				0.018	96	0
0.056	2400	1300	5.8	0.77	C	0.001	128	20
0.28	2800	1700				0.019	56	8
1.232	2200	1100	5.2	0.41	C	0.003	68	0
0.1	2200.0	1100	5.2	0.4	0.0	0.0	56.0	0.0
1.2	3300.0	1700	5.8	0.8	0.0	0.0	128.0	20.0
0.5	2675.0	1300	5.5	0.6	#DIV/0!	0.0	87.0	7.0

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
86	48	38	27.9	4.028	0.091	0.115	5.04	35
120	68	52	30	16.565	0.058	0.212	19.6	3
80	48	32	14	4.02	0.085	0.043	7.84	39
76	44	32	12.5	6.4	0.072	0.192	2.8	18
76.0	44.0	32.0	12.5	4.0	0.1	0.0	2.8	3.0
120.0	68.0	52.0	30.0	16.6	0.1	0.2	19.6	39.0
90.5	52.0	40.7	21.1	7.8	0.1	0.1	8.8	23.8

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
92	58	34	32.9	12.53	0.062	0.113	3.36	13
124	98	26	55	14.77	0.07	0.257	35.56	7
60	46	14	14	14.02	0.134	0.057	19.04	112
66	36	30	10.5	6.3	0.092	0.157	5.6	22
60.0	36.0	26.0	10.5	6.3	0.1	0.1	3.4	7.0
124.0	98.0	34.0	55.0	14.8	0.1	0.3	35.6	112.0
85.5	59.5	30.0	28.1	11.9	0.1	0.1	15.9	38.5

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
96	58	38	39.9	10.89	0.189	0.118	4.48	15
444	88	356	900	41.33	0.079	0.288	15.68	48
58	48	10	16	21.03	0.198	0.046	17.92	50
78	52	26	21.1	7.2	0.084	0.212	4.76	27
58.0	48.0	10.0	16.0	7.2	0.1	0.0	4.5	15.0
444.0	88.0	356.0	900.0	41.3	0.2	0.3	17.9	50.0
169.0	61.5	107.5	244.3	20.1	0.1	0.2	10.7	35.0

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
134	114	5	17.9	1	0.195	6.5	0.7	10.4
197	162	6	22.8	2	0.065	3.2	10.6	7.8
110	118	20.5	9.4	2.5	0.014	1.7	3.4	3.3
110	100	20.5	8.5	0.9	0.055	2.4	0.9	2.6
110.0	100.0	5.0	8.500	0.900	0.014	1.700	0.7	2.60
197.0	162.0	20.5	22.800	2.500	0.195	6.500	10.6	10.40
137.8	123.5	10.5	14.650	1.600	0.082	3.450	3.90	6.03

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
162	150	17	21.3	0.38	0.161	5.4	2.3	9.8
231	196	9	37.5	2.3	0.123	3.5	8.5	4.7
99	106	37.3	9	1.3	0.031	2.3	2.4	4.9
91	94	42.8	6.8	0.8	0.02	1.2	1.7	1.1
91.0	94.0	9.0	6.800	0.380	0.020	1.200	1.7	1.10
231.0	196.0	42.8	37.500	2.300	0.161	5.400	8.5	9.80
145.8	136.5	22.9	18.650	1.195	0.084	3.100	3.73	5.13

TDS, mg/l	TFS, mg/l	Turbidity, NTU	Na, mg/l	K, mg/l	B, mg/l	Cadmiu m, micro gm/l	Copper, micro gm/l	Lead, micro gm/l
170	142	6	25.2	0.25	0.178	5.5	1.1	11.1
1833	1742	34	577.5	22	0.213	2.8	5.1	7.3
105	96	51.2	10.3	1.5	0.003	1.9	4.2	4
110	116	22	12.4	1.6	0.014	2.3	1.1	3.4
105.0	96.0	6.0	10.300	0.250	0.003	2.300	1.1	3.40
1833.0	1742.0	51.2	577.500	22.000	0.213	5.500	5.1	11.10
554.5	524.0	28.3	156.350	6.338	0.102	3.533	2.88	6.45

m Total, micro gm/l	Nickel, micro gm/l	Zinc, micro gm/l	Mercury, micro gm/l	Total, micro gm/l
77.2	5.3	6.8	0.084	787
89	0.4	16.9	0.45	ND
48	5.2	6.5	0.12	280
41	6.4	16.6	0.06	62
41.00	0	7		
89.00	6	17		
63.80	4	12		

m Total, micro gm/l	Nickel, micro gm/l	Zinc, micro gm/l	Mercury, micro gm/l	Total, micro gm/l
38.6	5.1	16.2	0.028	3101
77	2	11.5	ND	427
64	7	7.2	BDL	867
39	2.3	2.1	BDL	254
38.60	2	2		
77.00	7	16		
54.65	4	9		

m Total, micro gm/l	Nickel, micro gm/l	Zinc, micro gm/l	Mercury, micro gm/l	Total, micro gm/l
51.4	7.1	12.9	0.073	1829
102	0.4	14	ND	2477
72	7.3	8.6	BDL	5560
75	6.9	2.6	BDL	288
51.40	0	3		
102.00	7	14		
75.10	5	10		