

WATER QUALITY OF RIVER BRAHMANI - 2008

Panposh U/S

Month	Year	pH	DO, mg/l	BOD, mg/l	Cond., μ S/cm	TC, MPN/100 ml	COD, mg/l
January	2008	8.2	8.2	1.1	133	1700	7.92
February		7.7	8.4	1	152	1500	3.85
March		7.5	7.9	1.6	148.2	1700	10.2
April		8.3	8.4	1.1	249	2200	19
May		7.3	7.8	1.6	123	2200	8.6
June		7.5	7.3	2.5	93.4	1700	
July		8.1	7	0.8	93	3500	18.2
August		7.8	7.5	1.8	97	2400	10.1
September		6.8	7.2	0.6	104	1700	6.5
October		8	7.6	0.5	114	1200	6.5
November		7.9	8	1.3	178	15000	
December		7.95	8.2	0.6	151	1300	10.2
Minimum		6.8	7.0	0.5	93	1200	3.85
Maximum		8.3	8.4	2.5	249	15000	19.00
Average		7.8	7.8	1.2	136	3008	10.11

Panposh D/S

Month	Year	pH	DO, mg/l	BOD, mg/l	Cond., μ S/cm	TC, MPN/100 ml	COD, mg/l
January		7.5	7.1	3.3	364	21000	23.9
February		7.4	7.6	3.1	362	14000	12.64
March		7.1	6.8	4.3	315	12000	30.2

April	2008	8.4	7.3	5.3	441	15000	30.5
May		7.8	6.9	5.4	391	17000	22.16
June		7.1	6.1	5.4	223	13000	
July		7.4	7.1	3.2	199	22000	26.4
August		8	6.2	5.6	225	21000	25.2
September		6.8	7.4	2.5	143	28000	16.2
October		7.8	7	4.2	315	12000	29.5
November		7.6	6.8	5.7	269	17000	
December		8.3	7.3	4.9	299	7000	22.3
Minimum		6.8	6.1	2.5	143	7000	12.64
Maximum		8.4	7.6	5.7	441	28000	30.50
Average		7.6	7.0	4.4	296	16583	23.9

Rourkela D/S

Month	Year	pH	DO, mg/l	BOD, mg/l	Cond., μS/cm	TC, MPN/ 100 ml	COD, mg/l
January	2008	8.3	7.1	3.3	233	11000	21.9
February		6.6	8	2.8	373	9400	10.45
March		7.4	7.4	2.1	267	7900	12.2
April		8.2	5.3	4	336	11000	21.4
May		7.6	6.8	3.4	320	9400	20.6
June		7	5.9	5.2	222	11000	
July		8.5	6	1	189	17000	21.8
August		8	6.3	5	206	14000	20.7

September		7	7.3	1.9	156	14000	13
October		7.8	7.2	2.7	177	7000	19.7
November		7.6	7.2	3.8	231	11000	
December		8.15	7.2	3.6	286	6300	16.2
Minimum		6.6	5.3	1.0	156	6300	10
Maximum		8.5	8.0	5.2	373	17000	22
Average		7.7	6.8	3.2	250	10750	18

Boneigarh

Month	Year	pH	DO, mg/l	BOD, mg/l	Cond., μ S/cm	TC, MPN/100 ml	COD, mg/l
January	2008	8.2	8.9	1.4	197	2100	5.94
April		8	7.1	2.3	206	1500	15.2
July		7.6	8.2	0.6	79	2800	21.8
October		8	8.6	0.6	174	2100	6.2
Minimum		7.6	7.1	0.6	79	1500	6
Maximum		8.2	8.9	2.3	206	2800	22
Average		8.0	8.2	1.2	164	2125	12

Rengali

Month	Year	pH	DO, mg/l	BOD, mg/l	Cond., μ S/cm	TC, MPN/100 ml	COD, mg/l
January	2008	7.8	8.6	1.2	100	1400	9.9
April		8	8.4	2	279	1700	11.4
July		7.4	6.9	0.6	117	2100	14.5
October		7.6	9.2	0.6	101	1500	6.5

Minimum		7.4	6.9	0.6	100	1400	7
Maximum		8.0	9.2	2.0	279	2100	15
Average		7.7	8.3	1.1	149	1675	11

Samal

Month	Year	pH	DO, mg/l	BOD, mg/l	Cond., μ S/cm	TC, MPN/100 ml	COD, mg/l
January	2008	8.2	7.9	1.1	122	1200	3.96
April		8.1	8	1.7	131	1300	7.6
July		7.7	7.3	1.8	285	1500	21.8
October		8.1	9.6	0.5	108	1100	9.7
Minimum		7.7	7.3	0.5	108	1100	4
Maximum		8.2	9.6	1.8	285	1500	22
Average		8.0	8.2	1.3	162	1275	11

Talcher U/S

Month	Year	pH	DO, mg/l	BOD, mg/l	Cond., μ S/cm	TC, MPN/100 ml	COD, mg/l
January	2008	8	8.8	1.2	154	1500	5.9
Feb		7.6	8.5	1.6	118	1700	3.92
Mar		7.1	7.4	1.8	119	1700	26.1
April		7.9	7.4	1.9	134	2100	9.2
May		7.8	8.4	1.4	123	2200	10.6
June		7.4	7.1	2.2	151.7	1700	
July		8.2	8.2	1	96	2800	10.9
Aug		7.7	7.4	1.7	102	2100	12.7
Sep		7.8	7.4	0.8	127	2800	11.4
October		8	7.8	1.1	100	1700	6.5

Nov		7.7	7.7	1.2	120	2100	
Dec		7.9	8	1.3	123	2400	10.1
Minimum		7.1	7.1	0.8	96.0	1500.0	3.9
Maximum		8.2	8.8	2.2	154.0	2800.0	26.1
Average		7.8	7.8	1.4	122.3	2066.7	10.7

Kamalanga D/S

Month	Year	pH	DO, mg/l	BOD, mg/l	Cond., μ S/cm	TC, MPN/100 ml	COD, mg/l
January	2008	8.4	7.8	1.6	168	7900	9.8
Feb		7.5	7.5	2	138	9400	10.92
Mar		7.6	7	2.1	146.9	7000	30.9
April		7.8	8.4	2.5	246	8400	18.3
May		7.8	7.8	4.6	235	11000	14.6
June		7.6	6.8	3.6	264.8	14000	
July		8.2	7.5	1.2	125	15000	14.5
Aug		8	7.3	2.3	141	5800	14.6
Sep		7.9	6.3	1	193	4700	9.7
October		8	7.6	1.6	151	7900	8.2
Nov		7.3	7.2	1.6	144	8400	
Dec		7.76	7.3	2.2	131	4300	14.2
Minimum		7.3	6.3	1.0	125.0	4300.0	8.2
Maximum		8.4	8.4	4.6	264.8	15000.0	30.9
Average		7.8	7.4	2.2	173.6	8650.0	14.6

Bhuban

Month	Year	pH	DO, mg/l	BOD, mg/l	Cond., μ S/cm	TC, MPN/100 ml	COD, mg/l
January	2008	7.8	7.8	1.4	132	1500	5.8
April		8	7.8	1.2	135	2100	11.1
July		7.9	6.8	2	92	3500	18.15
October		8.3	7.9	1.4	101	2100	8
Minimum		7.8	6.8	1.2	92	1500	6
Maximum		8.3	7.9	2.0	135	3500	18
Average		8.0	7.6	1.5	115	2300	11

Dharmasala

Month	Year	pH	DO, mg/l	BOD, mg/l	Cond., μ S/cm	TC, MPN/100 ml	COD, mg/l
January	2008	8	8.2	2	130	3500	5.9
April		7.1	7.7	2	184	2200	15.5
July		7.7	6.9	0.8	110	4300	14.5
October		7.7	7.8	1.3	120	2800	10
Minimum		7.1	6.9	0.8	110	2200	6
Maximum		8.0	8.2	2.0	184	4300	16
Average		7.6	7.7	1.5	136	3200	11

Pottamundai

Month	Year	pH	DO, mg/l	BOD, mg/l	Cond., μ S/cm	TC, MPN/100 ml	COD, mg/l
January		7.9	8.2	0.4	179	2400	7.9
February		7.4	8.3	2	195	3500	7.2
March		7.3	8.2	1.6	220	2200	12

April	2008	7.9	7.6	1.4	203	2400	14.8
May		7.5	8.3	2.2	185	2400	14.78
June		7.5	7.9	1.4	149.3	1700	
July		7.8	6.6	0.8	115	2200	10.9
August		8.1	6.7	1.9	114	1700	10.1
September		7	6.9	1.5	94	2400	11.8
October		7.5	9.2	1.6	201	1700	12
November		7.9	8.2	1.3	229	2100	
December		7.8	8.2	1.9	160	2400	10.1
Minimum		7.0	6.6	0.4	94	1700	7
Maximum		8.1	9.2	2.2	229	3500	15
Average		7.6	7.9	1.5	170	2258	11