

WATER QUALITY OF RIVER MAHANADI - 2006
Sundargarh

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/100 ml)	COD (mg/l)
January	2006	7.6	0.5	133	1100	3.2
February		7.5	0.8	140	2100	6
March		7.6	1.7	150	1400	
April		7.8	0.6	138	1100	3.7
May		7.9	1.0	100	1400	6
June		7.9	0.3	130	1400	8.4
July		7.4	2	161	2200	24
August		7.0	1.1	168	3500	11.4
September		7.5	1.2	92	700	17.6
October		7.0	1.3	109	1300	8.3
November		7.5	1.4	117	1100	20.4
December		7.8	1.2	137	2200	18.6
Minimum		7.0	0.3	91.6	700	3.2
Maximum		7.9	2	168.2	3500	24
Average		7.5	1.1	131	1625	12

Jharsuguda

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/100 ml)	COD (mg/l)
January	2006	7.5	0.5	150	2200	3.2
February		7.8	0.8	164	3500	6
March		7.7	2.2	180	2100	
April		8	1	149	2800	6.6
May		8.1	1.4	132	1700	11
June		8.0	1.5	161.4	1500	16.8
July		7.4	1.2	161	3500	20
August		7.1	1.6	179	4300	11.4
September		7.6	1.2	86	790	16.5
October		7.9	1.6	116	1100	9.1
November		7.9	1.2	294	2400	17.6
December		7.8	1.2	131	3500	10.6
Minimum		7.1	0.5	85.9	790	3.2
Maximum		8.1	2.2	294	4300	20
Average		7.7	1.3	159	2449	12

Brajrajnagar U/S

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/100 ml)	COD (mg/l)
January	2006	7.6	0.8	190	1700	44.8
February		7.8	1.2	146	2800	10
March		7.9	1.1	160	1300	
April		8	1	142	1500	7.4
May		8.0	1.4	153	2800	11
June		8.0	1.3	152.2	1400	12.6
July		7.4	1.4	157	2200	20
August		6.7	0.9	163	2800	7.6
September		7.6	1.8	94	170	16.6
October		7.4	1.2	123	1100	9.1
November		8.3	0.9	150	1700	14.1
December		7.6	1.0	141	2400	14.1
Minimum		6.7	0.8	93.5	170	7.40
Maximum		8.3	1.8	190	2800	44.80
Average		7.7	1.2	148	1823	15.2

Brajrajnagar D/S

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/100 ml)	COD (mg/l)
January	2006	7.2	1.6	192	2200	9.6
February		7.6	2.8	326	2800	26
March		7.9	1.4	280	1700	
April		7.6	2.1	195	2200	11
May		7.7	1.8	157	2800	18
June		7.5	1.6	153	1700	16.8
July		7.2	1.8	163	2800	22
August		7.4	1.9	191	3500	13.3
September		7.6	1.8	99	490	16.5
October		7.5	1.6	126	1300	
November		7.5	2.2	132	3100	19.6
December		7.8	1.0	143	7900	17.6
Minimum		7.2	1	98.6	490	9.6
Maximum		7.9	2.8	326	7900	26
Average		7.5	1.8	180	2708	17.0

Hirakud

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/100 ml)	COD (mg/l)
January	2006	7.0	0.2	113	1700	3.2
April		7.8	0.9	160	1400	7.6
July		7.5	0.8	166	2200	12
October		7.4	1.2	139	1100	7.0
Minimum		7.0	0.2	113	1100	3
Maximum		7.8	1.2	166	2200	12
Average		7.4	0.8	145	1600	7

Sambalpur U/S

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/100 ml)	COD (mg/l)
January	2006	7.3	0.4	153	1700	9.6
February		7.2	1.9	146	2200	18
March		8.2	0.6	150	1700	
April		7.3	1	174	1500	11
May		7.8	0.6	144	2200	8
June		7.9	0.4	186.3	1400	12.6
July		7.3	1	170	3500	12
August		6.6	1.2	108	2800	11.4
September		7.4	1.6	115	3500	17.6
October		7.1	1.8	125	3500	16.6
November		7.6	1.4	159	5400	14.1
December		7.8	1.8	156	2400	20.6
Minimum		6.6	0.4	108	1400	8
Maximum		8.2	1.9	186	5400	21
Average		7.5	1.1	149	2650	14

Sambalpur D/S

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/ 100 ml)	COD (mg/l)
January	2006	7.8	3.2	210	52000	6.4
February		7.4	2.6	184	54000	24
March		7.9	3.8	190	35000	
April		8.2	4.3	206	43000	32
May		7.9	4	160	43000	28
June		8.4	3.1	206	35000	24.7
July		7.1	2.4	184	43000	28
August		6.1	1.6	100	92000	13.3
September		7.4	2.8	124	13000	24.6
October		7.5	2.8	235	6900	23.7
November		7.9	3.6	192	7000	22.1
December		7.9	3.2	164	17000	31.7
Minimum		6.1	1.6	100	6900	6.4
Maximum		8.4	4.3	235	92000	32.0
Average		7.6	3.1	180	36742	23.5

Sonepur U/S

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/ 100 ml)	COD (mg/l)
January	2006	7.4	0.5	132	940	9.6
April		7.6	1.2	204	1100	7.4
July		7.6	1.4	171	1700	16
October		7.7	1.1	127	270	10.6
Minimum		7.4	0.5	127	270	7
Maximum		7.7	1.4	204	1700	16
Average		7.6	1.1	158	1003	11

Sonepur D/S

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/100 ml)	COD (mg/l)
January	2006	7.9	1.6	142	1300	12.8
April		7.4	1.3	207	1700	11
July		7.2	2.2	173	2100	18
October		7.4	1.4	196	1100	22.8
Minimum		7.2	1.3	142	1100	11
Maximum		7.9	2.2	207	2100	23
Average		7.5	1.6	179	1550	16

Tikarapada

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/100 ml)	COD (mg/l)
January	2006	7.2	0.5	155	2800	12
April		7.8	1.3	316	2100	15.8
July		8.0	0.7	150	2800	9
October		7.9	1.5	159	1200	10.6
Minimum		7.2	0.5	150	1200	9
Maximum		8.0	1.5	316	2800	16
Average		7.7	1.0	195	2225	12

Narasinghpur

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/100 ml)	COD (mg/l)
January	2006	7.6	1	152	840	16
April		8.2	1.3	338	940	17.1
July		7.8	1	177	1700	9
October		7.1	1.1	157	1700	7.0
Minimum		7.1	1.0	152	840	7
Maximum		8.2	1.3	338	1700	17
Average		7.7	1.1	206	1295	12

Cuttack U/S

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/100 ml)	COD (mg/l)
January	2006	7.4	1.2	172	2800	7
February		7.9	1.2	178	1700	8
March		8.9	0.8	180	2100	
April		7.7	1	307	2400	11
May		7.7	1.0	146	2200	8
June		7.8	1.3	154	1700	14.2
July		7.5	1.3	159	2200	21
August		6.8	1.6	81	3500	17.9
September		8.1	1.6	139	790	17.0
October		8.2	1.1	127	1700	6.1
November		8.0	1.3	172	390	9.0
December		8.3	1.2	151	490	10.6
Minimum		6.8	0.8	81	390	6.1
Maximum		8.9	1.6	307	3500	20.6
Average		7.9	1.2	164	1831	11.8

Cuttack D/S

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/100 ml)	COD (mg/l)
January	2006	7.6	2.2	207	5400	42.2
February		7.6	2.6	187	4300	20
March		8.4	3.2	200	7900	
April		7.5	2.6	318	14000	25.8
May		8.3	4.4	181	43000	28
June		7.9	3.6	159	22000	26.8
July		8.6	2.6	183	35000	34
August		7.6	1.9	116	92000	18.6
September		7.6	1.9	148	160000	22.9
October		8.0	2.5	236	160000	28.9
November		8.1	2.5	261	92000	20.6
December		8.2	2.0	165	54000	20.6
Minimum		7.5	1.9	116	4300	18.6
Maximum		8.6	4.4	318	160000	42.2
Average		8.0	2.7	197	57467	26.2

Kathajodi D/S

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/ 100 ml)	COD (mg/l)
January	2006	7.8	4.6	211	92000	14.1
February		8.0	3.9	190	54000	22
March		8.1	4.2	210	35000	
April		7.5	5	329	92000	36
May		8.3	4.4	181	43000	28
June		7.9	4.6	193.9	92000	28.6
July		7.7	3.3	173	43000	30
August		7.2	2	123	92000	24.3
September		8.1	3.25	168	54000	34.0
October		8.1	3.5	334	160000	26.7
November		7.5	3.6	179	160000	20.6
December		8.5	4.2	172	160000	24.1
Minimum		7.2	2.0	123	35000	14.1
Maximum		8.5	5.0	334	160000	36.0
Average		7.9	3.9	205	89750	26.2

Kuakhai U/S

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/ 100 ml)	COD (mg/l)
January	2006	7.4	0.6	187	1700	37
February		7.9	1	173	1400	6
March		8.1	0.3	190	2200	
April		8	1	333	1700	12.9
May		7.1	0.8	110	1400	8
June		7.4	1.1	159.5	1500	10.8
July		7.8	1.3	138	2100	17
August		7.8	0.7	101	2800	21.5
September		8.0	1.2	143	3500	15.2
October		8.3	2.1	175	330	16.7
November		7.9	1.2	154	1300	18.1
December		8.1	2.0	145	790	13.5
Minimum		7.1	0.3	101	330	6.0
Maximum		8.3	2.1	333	3500	37.0
Average		7.8	1.1	167	1727	16.0

Kuakhai D/S

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/100 ml)	COD (mg/l)
January	2006	7.9	4.5	266	3500	10.5
February		7.7	3.8	240	2800	22
March		7.6	3.9	250	7900	
April		8.2	3.6	338	54000	25.8
May		7.5	3.6	136	24000	26
June		7.8	3.4	292	22000	20.8
July		8.2	2.6	160	3500	26
August		7.0	1.7	188	5400	28.6
September		8.1	2.8	145	35000	25.8
October		7.7	2.8	186	6900	28.2
November		7.5	2.9	194	7000	25.2
December		8.0	3	208	35000	22.6
Minimum		7.0	1.7	136	2800	10.5
Maximum		8.2	4.5	338	54000	28.6
Average		7.8	3.2	217	17250	23.7

Choudwar at Birupa D/S

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/100 ml)	COD (mg/l)
January	2006	8.3	1.1	209	3500	10.6
April		8	1.8	293	1500	25.7
July		7.4	1.6	100	2800	10
October		7.5	1.2	145	1700	13.7
Minimum		7.4	1.1	100.0	1500	9.8
Maximum		8.3	1.8	293.0	3500	25.7
Average		7.8	1.4	186.7	2375	14.9

Paradeep D/S

Month	Year	pH	BOD (mg/l)	Cond. μ S/cm	TC (MPN/100 ml)	COD (mg/l)
January	2006	8.0	1.5	13666	92000	40.5
April		7.6	3.4	74467	35000	25.8
July		7.4	1.1	11227	5400	12
October		7.4	1.4	8910	930	41.0
Minimum		7.4	1.1	8910	930	12
Maximum		8.0	3.4	74467	92000	41
Average		7.6	1.9	27068	33333	30