

WATER QUALITY OF RIVER SUBERNAREKHA - 2011

Rajghat

Month	Year	Temp., °C	pH	DO, mg/l	BOD, mg/l	COD, mg/l	Cond., µS/cm	Nitrate- N, mg/l
Jan	2011	21	7.7	7.8	1.1	10	408	0.955
Feb		22	8.1	7.6	0.8	3.8	315	0.040
Mar		24	8.2	7.8	1.9	12.4	361	0.088
Apr		32	8.4	7.4	1	7.8	330	0.124
May		24	8.2	7.8	1.8	10.9	263	0.187
June		23	7.4	7.6	2	17.1	126	0.836
July			22	7.6	6.8	1.7	8.0	162
Aug		23	8.4	7.8	1.5	10.2	152	0.075
Sep		16	8.1	8.0	1.9	13.3	144	0.131
Oct		22	8.0	8.2	1.4	8.7	226	0.186
Nov		21	7.7	7.8	1.8	8.2	223	0.110
Dec		19	8.0	7.8	1.0	7.8	251	0.054
Minimum		16.0	7.4	6.8	0.8	3.8	126.0	0.040
Maximum		32.0	8.4	8.2	2.0	17.1	408.0	0.955
Average		22.4	8.0	7.7	1.5	9.9	246.7	0.247

NH ₄ -N, mg/l	TC, MPN/ 100 ml	FC, MPN/ 100 ml				Nitrite-N, mg/l	T. Alk., mg/l	P. Alk., mg/l
0.784	1200	460	5.4	0.69	C	0.00462	96	ND
1.12	1700	790				0.001	80	ND
0.504	1500	840				0.002	112	ND
0.56	7900	3300	5.5	0.7	B	0.002	84	4
0.896	2200	790				0.002	86	ND
0.224	3500	1700				0.023	40	ND
0.448	17000	7000				0.004	68	ND
0.112	2200	1400				0.010	66	ND
0.112	43000	15000				0.003	42	ND
0.112	3200	1700	4.4	0.5	C	0.002	92	ND
0.56	1400	700				0.006	82	2
0.056	2800	1400				0.011	90	ND
0.1	1200.0	460.0	4.4	0.5	0.0	0.0	40.0	2.0
1.1	43000.0	15000.0	5.5	0.7	0.0	0.0	112.0	4.0
0.5	7300.0	2923.3	5.1	0.6	#DIV/0!	0.0	78.2	3.0

s	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
116	76	40	95	34.7	0.008	0.247	7.3	8
100	56	44	34	29.80	0.081	0.225	6.44	38
116	64	52	37	27.6	0.024	0.251	3.64	29
102	60	42	32	32.0	0.008	0.664	29.4	19
60	40	20	32	0.32	0.001	0.859	7.28	32
56	32	24	14.4	8.5	0.005	0.297	7.3	376
52	36	16	9.7	9.9	0.178	0.269	2.2	240
64	42	22	13.72	2.3	0.039	0.213	3.36	224
46	40	6	10.6	6.7	0.017	0.236	2.8	77
88	50	38	21.0	5	0.029	0.268	1.68	37
70	44	26	16	3.76	0.009	0.349	1.96	62
68	44	24	22.3	11.17	0.046	0.463	1.68	37
46.0	32.0	6.0	9.7	0.3	0.0	0.2	1.7	8.0
116.0	76.0	52.0	94.9	34.7	0.2	0.9	29.4	376.0
78.2	48.7	29.5	28.1	14.3	0.0	0.4	6.3	98.3

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
259	246	4.8	54.5	4	0.011	1.6	0.8	6.7
182	206	2.5	24.2	4.63	0.068	0.8	7.9	10.6
215	228	7.7	28.2	5.6	0.072	0.9	8.9	0.5
182	168	2.3	20.02	4.24	0.409	0.5	1.8	7.9
170	170	6.2	21.08	4.67	0.129	2.9	7.3	3.6
80	404	56.9	8.2	3	0.034	2.0	3.2	6.1
92	288	86.7	6.3	2.1	0.030	0.9	7.9	6.4
89	280	38.3	8.9	1.6	ND	1.8	4.5	7.1
81	128	30.9	6.6	2.2	0.053	BDL	7.3	9.7
132	128	6.1	12.3	1.44	0.072	0.3	7.1	0.8
124	160	5.4	8.3	2.6	0.056	3.5	2.0	5.5
139	140	3.2	15.0	2.8	0.116	3.0	4.9	1.5
80.0	128.0	2.3	6.3	1.4	0.0	0.3	0.8	0.5
259.4	404.0	86.7	54.5	5.6	0.4	3.5	8.9	10.6
145.5	212.2	20.9	17.8	3.2	0.1	1.6	5.3	5.5

m Total, micro gm/l	Nickel, micro gm/l	Zinc, micro gm/l	Total, micro gm/l	Hg, micro gm/l
20.0	7.4	5.2	310	
82	11.1	3.0	690	
82.0	6.4	0.1	2650	BDL
22.0	0.9	BDL	570	BDL
23	0.4	9.3	77	BDL
82.0	0.9	1.5	15380	BDL
32	4.7	7.2	6595	BDL
16.0	2.1	3.4	14458	BDL
10	1.4	9.7	10387	BDL
35	2.9	3.1	1290	BDL
30	7.8	7.5	1008	BDL
15	2.1	4.4	326	BDL
10.0	0.4	0.1	77.0	0.0
82.0	11.1	9.7	15380.0	0.0
37.4	4.0	4.9	4478.5	#DIV/0!