

WATER QUALITY OF RIVER SUBERNAREKHA - 2013

Rajghat

Month	Year	Temp., °C	pH	DO, mg/l	BOD, mg/l	COD, mg/l	Cond., µS/cm	Nitrate- N, mg/l
Jan	2013	20	8.5	7.6	1.3	9.7	304	0.450
Feb		22	8.2	8.4	1.6	8.3	268	0.447
Mar		25	8.4	8.2	1.8	11.9	349	3.328
Apr		24	8.0	8.3	0.6	8.8	336	0.177
May		22	8.2	8.2	1.7	11.5	296	0.206
June		23	8.2	7.4	1.1	7.2	213	0.617
July		28	7.5	6.8	0.8	19.7	169	0.249
Aug		29	7.7	6.8	1.1	11.6	127	0.717
Sep		21	7.5	7.5	1.4	12.1	166	0.299
Oct			7.8	6.8	0.9	15.3	153	0.296
Nov			8.2	7.4	1.45	20.9	212	0.296
Dec								
Minimum		20	7.5	6.8	0.6	7.2	127.0	0.2
Maximum		29	8.5	8.4	1.8	20.9	349.0	3.3
Average		24	8.0	7.6	1.2	12.5	235.7	0.6

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
BDL	7900	3300	6.1	0.77	B	0.006	92	8
0.400	6300	3300	--	--	--	0.005	84	BDL
0.112	2200	1300	--	--	--	0.009	88	4.0
0.224	2400	1300	5.9	0.86	C	0.014	88	BDL
0.050	7900	680				0.004	84	BDL
0.555	1300	450	--	--	--	0.018	64	2
0.672	13000	4900	--	--	--	0.014	52	BDL
0.275	7900	3300	--	--	--	0.005	48	BDL
0.336	4400	490	--	--	--	0.006	64	BDL
0.112	790	230	5.5	0.5	C	0.004	64	0
0.112	11000	220				0.006	76	2
0.050	790	220	5.50	0.50	0.0	0.0	48.0	0.0
0.672	13000	4900	6.10	0.86	0.0	0.0	92.0	8.0
0.285	5917	1770	5.83	0.71	#DIV/0!	0.0	73.1	3.2

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	Fluoride, mg/l	Total Kjeldahl N, mg/l	TSS, mg/l
100	56	44	24.5	22.97	0.011	0.196	3.90	26
96	60	36	32.4	26.0	0.094	0.386	2.0	74
106	64	42	37.2	20.30	0.069	0.363	1.96	124
100	64	36	30.9	25.4	0.005	0.391	1.7	44
76	48	28	30.7	12.9	0.036	0.709	2.8	108
72	44	28	15.0	8.8	0.015	0.330	5.0	94
60	36	24	13.5	16.9	0.072	0.205	2.8	308
40	32	8	8.6	3.0	0.006	0.196	2.2	292
58	40	18	7.7	5.8	0.080	0.220	2.24	54
56	36	20	7.54	5.223	0.040	0.194	2.24	88
78	52	26	15.3	6.467	0.2448	0.186	2.24	8
40.0	32.0	8.0	7.5	3.0	0.005	0.186	1.68	8
106.0	64.0	44.0	37.2	26.0	0.245	0.709	4.95	308
76.5	48.4	28.2	20.3	14.0	0.061	0.307	2.63	111

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
164	168	7.6	16.1	5.6	0.057	--	--	--
168	198	21.0	19.6	5.9	0.045	0.4	4.6	4.6
207	294	7.0	22.6	8.5	0.053	--	--	--
199.0	202	9.0	18.0	5.0	0.087	--	--	--
188	228	25.1	18.3	5.5	0.015	--	--	--
129	186	32	9.6	3.7	0.003	--	--	--
102	360	85	7.0	2.0	0.347	--	--	--
72	302	100	5.3	2.1	0.056	--	--	--
94	108	50	4.1	2.1	0.049	--	--	--
94	162	37	5.65	1.92	0.03			
127	102	18	9.34	2.65	0.022			
72	102	7.0	4.1	1.9	0.003	0.4	4.6	4.6
207	360	100.0	22.6	8.5	0.347	0.4	4.6	4.6
140	210	35.6	12.3	4.1	0.069	0.4	4.6	4.6

m Total, micro gm/l	Nickel, micro gm/l	Zinc, micro gm/l	Iron Total, micro gm/l	Mercury, micro gm/l	Cr(VI)
43	--	--	298	BDL	BDL
27	2.6	5.9	2560	BDL	BDL
27	--	--	376	BDL	BDL
15	--	--	230	BDL	BDL
9	--	--	212	BDL	2
47	--	--	2397	BDL	BDL
21	--	--	5486	BDL	BDL
20	--	--	5941	BDL	BDL
15	--	--	4102	BDL	BDL
26			5057		ND
22			571		
9.0	2.6	5.9	212.0	0.0	
47.0	2.6	5.9	5941.0	0.0	
24.7	2.6	5.9	2475.5	#DIV/0!	