

## WATER QUALITY OF RIVER SUBERNAREKHA - 2012

Rajghat

Month	Year	Temp., °C	pH	DO, mg/l	BOD, mg/l	COD, mg/l	Cond., µS/cm	Nitrate- N, mg/l
Jan	2012	18	7.6	7.6	2.1	12.5	290	1.249
Feb		23	8.0	7.4	1.2	17.3	281	0.183
Mar		25	7.4	7.6	1.3	7.8	275	0.048
Apr		21	8.2	7.8	1.2	9.8	233	0.113
May		25	8.4	7.8	1.3	18.1	272	0.269
June		25	8.0	7.8	1.7	11.5	185	0.395
July		23	7.6	7.4	1.6	18.1	194	0.285
Aug		26	8.4	7.6	1.2	11.5	151	1.436
Sep		22	8.2	7.2	1.6	14.8	169	0.383
Oct		24	8.5	7.6	1.1	10.1	207	0.041
Nov		20	7.6	8.2	1.1	11.7	269	0.674
Dec		20	8.3	8.0	0.4	4.4	285	0.652
<b>Minimum</b>		<b>18</b>	<b>7.4</b>	<b>7.2</b>	<b>0.4</b>	<b>4.4</b>	<b>151.2</b>	<b>0.0</b>
<b>Maximum</b>		<b>26</b>	<b>8.5</b>	<b>8.2</b>	<b>2.1</b>	<b>18.1</b>	<b>290.0</b>	<b>1.4</b>
<b>Average</b>		<b>23</b>	<b>8.0</b>	<b>7.7</b>	<b>1.3</b>	<b>12.3</b>	<b>234.3</b>	<b>0.5</b>

NH <sub>4</sub> -N, mg/l	TC, MPN/ 100 ml	FC, MPN/ 100 ml				Nitrite-N, mg/l	T. Alk., mg/l	P. Alk., mg/l
0.112	1700	1100	5.8	0.48	C	0.004	102	ND
0.112	2200	1100				ND	86	ND
0.112	3500	2400				0.006	84	ND
0.336	35000	17000	6	0.71	C	0.240	88	8
0.192	92000	54000				0.007	80	4
0.112	7900	3300				0.002	44	
0.112	16000	5400				0.014	56	BDL
0.224	7900	3300				0.019	64	8
0.112	3500	1700				0.017	62	BDL
0.112	3500	1700	6.57	0.79	B	0.002	64	8
0.112	11000	4900	--	--	--	0.023	88	BDL
0.224	4900	1300	--	--	--	0.025	92	2
<b>0.112</b>	<b>1700</b>	<b>1100</b>	<b>5.80</b>	<b>0.48</b>	<b>0.0</b>	<b>0.0</b>	<b>44.0</b>	<b>2.0</b>
<b>0.336</b>	<b>92000</b>	<b>54000</b>	<b>6.57</b>	<b>0.79</b>	<b>0.0</b>	<b>0.2</b>	<b>102.0</b>	<b>8.0</b>
<b>0.156</b>	<b>15758</b>	<b>8100</b>	<b>6.12</b>	<b>0.66</b>	<b>#DIV/0!</b>	<b>0.0</b>	<b>75.8</b>	<b>6.0</b>

s	Ca as CaCO <sub>3</sub> , mg/l	Mg as CaCO <sub>3</sub> , mg/l	Chloride , mg/l	Sulphate , mg/l	PO <sub>4</sub> <sup>3-</sup> -P, mg/l	Flouride, mg/l	Total Kjeldahl N, mg/l	TSS, mg/l
94	64	30	24.2	14.4	0.014	0.571	2.5	26
94	58	36	27.1	18.51	0.063	0.86	3.4	9
82	48	34	23.0	20.10	0.048	0.641	2.80	111
84	52	32	31.1	19.29	0.083	0.626	3.36	55
76	48	28	29.9	20.76	0.048	0.367	1.96	54
60	32	28	21.3	20.00	0.050	0.351	1.68	72
76	46	30	14.0	16.8	0.039	0.384	5.04	52
70	40	30	10.49	5.14	0.047	0.303	4.20	190
60	36	24	14.4	9.31	0.158	0.239	2.92	222
72	48	24	26.2	10.4	0.046	0.436	2.4	46
86	56	30	19.7	16.23	0.032	0.352	4.48	22
96	62	34	28.6	13.6	0.004	0.515	2.2	32
<b>60.0</b>	<b>32.0</b>	<b>24.0</b>	<b>10.5</b>	<b>5.1</b>	<b>0.004</b>	<b>0.239</b>	<b>1.68</b>	<b>9</b>
<b>96.0</b>	<b>64.0</b>	<b>36.0</b>	<b>31.1</b>	<b>20.8</b>	<b>0.158</b>	<b>0.860</b>	<b>5.04</b>	<b>222</b>
<b>79.2</b>	<b>49.2</b>	<b>30.0</b>	<b>22.5</b>	<b>15.4</b>	<b>0.053</b>	<b>0.470</b>	<b>3.08</b>	<b>74</b>

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
184	186	6.7	15.8	3.09	0.121	1.4	5.1	73.8
178	156	5.0	17.4	4.3	0.116	2.6	3.0	9.1
178	252	8	17.4	5.4	0.030	0.8	2.1	4.2
151	186	14	18.7	4.2	0.068	2.6	2.9	8.6
173	204	126.4	19.8	5.3	0.148	0.8	4.2	5.6
118	176	70.4	14.4	3.68	0.049	--	--	--
111	144	54.0	7.4	1.8	0.106	--	--	--
98	246	13.4	6.96	2.42	0.102	--	--	--
104	274	56.1	8.40	2.1	0.087	--	--	--
124	144	15.1	14.24	4.26	0.092	--	--	--
151	148	10.0	11.1	5.3	0.038	--	--	--
165.0	168	15.4	14.3	6.0	0.032	--	--	--
<b>98</b>	<b>144</b>	<b>5.0</b>	<b>7.0</b>	<b>1.8</b>	<b>0.030</b>	<b>0.8</b>	<b>2.1</b>	<b>4.2</b>
<b>184</b>	<b>274</b>	<b>126.4</b>	<b>19.8</b>	<b>6.0</b>	<b>0.148</b>	<b>2.6</b>	<b>5.1</b>	<b>73.8</b>
<b>145</b>	<b>190</b>	<b>32.9</b>	<b>13.8</b>	<b>4.0</b>	<b>0.082</b>	<b>1.6</b>	<b>3.5</b>	<b>20.2</b>

m Total, micro gm/l	Nickel, micro gm/l	Zinc, micro gm/l	Iron Total, micro gm/l	Hg, micro gm/l	
23	1.5	3.0	821	BDL	BDL
25	9.3	7.6	940		
17	2.2	2.1	979	BDL	ND
13	8.2	7.8	1416	BDL	BDL
48	4.6	4.8	206	BDL	
50	--	--	4340	--	17
10	--	--	3638	--	BDL
80		--	12720	--	--
17		--	5920	--	--
16		--	2140	--	--
30		--	2700	--	BDL
28	--	--	980	--	BDL
<b>10.0</b>	<b>1.5</b>	<b>2.1</b>	<b>206.0</b>	<b>0.0</b>	
<b>80.0</b>	<b>9.3</b>	<b>7.8</b>	<b>12720.0</b>	<b>0.0</b>	
<b>29.8</b>	<b>5.2</b>	<b>5.1</b>	<b>3066.7</b>	<b>#DIV/0!</b>	