

## WATER QUALITY OF RIVER BRAHMANI - 2006

### Panposh U/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. $\mu$ S/cm	NH <sub>4</sub> -N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	SI	DI	Class
January	2006	7.8	8	1.2	132	0.2240	0.38	1100	700	5	0.52	--
February		7.9	7.5	1.2	140	0.56	0.321	1700	940	--	--	--
March		6.9	7.3	1.1	160	0.84	0.34	2200	1100	--	--	--
April		7.9	8.7	2	210	0.560	0.261	4600	1700	5.33	0.45	C
May		8.0	7.56	0.6	98	0.448	0.06	1700	1100	--	--	--
June		7.6	7.4	0.5	118.4	0.728	0.26	1500	940	--	--	--
July		7.8	8.1	1.8	161	0.952	1.456	1700	1300	--	--	--
August		6.7	7	0.9	101	1.4	0.002	2100	1700	--	--	--
September		7.7	7.9	1.8	93	1.12	0.024	330	170	--	--	--
October		7.4	8.1	0.8	187	0.896	0.278	230	130	--	--	--
November		8.2	8.7	0.4	156	0.728	0.046	700	220	6	0.52	B
December		8.4	8.7	2.0	113	0.224	0.073	1400	790			
<b>Minimum</b>		<b>6.7</b>	<b>7.0</b>	<b>0.4</b>	<b>93</b>	<b>0.224</b>	<b>0.002</b>	<b>230</b>	<b>130</b>	<b>5.00</b>	<b>0.45</b>	
<b>Maximum</b>		<b>8.4</b>	<b>8.7</b>	<b>2.0</b>	<b>210</b>	<b>1.400</b>	<b>1.456</b>	<b>4600</b>	<b>1700</b>	<b>6.00</b>	<b>0.52</b>	
<b>Average</b>		<b>7.7</b>	<b>7.9</b>	<b>1.2</b>	<b>139</b>	<b>0.723</b>	<b>0.292</b>	<b>1605</b>	<b>899</b>	<b>5.44</b>	<b>0.50</b>	

### Panposh D/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. $\mu$ S/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	SI	DI	Class
January	2006	6.8	7.3	3.6	278	2.0160	1.68	5400	2400	4	0.7	--
February		7.0	6.3	4.6	312	1.12	1.22	3500	1400	--	--	--
March		6.7	4.6	5.4	380	11.7	1.29	2800	1400	--	--	--
April		6.7	7.5	4.4	685	0.896	3.698	9400	4600			
May		8.3	6.3	3.8	226	0.784	2.31	5400	2400	--	--	--
June		7.7	6.8	4.5	267	0.784	2.19	4700	2700	--	--	--
July		6.3	7.3	6.4	197	1.624	3.558	3500	2200			
August		6.6	6.5	4.1	187	1.96	1.677	5400	2400			
September		6.3	6.8	5.5	158	1.84	0.716	14000	7900			
October		6.6	7.5	5.9	367	0.784	0.598	7900	1700	--	--	--
November		7.4	7.1	3.8	276	0.28	2.748	22000	11000	4.4	0.38	C
December		8.1	7.8	5.0	279	2.41	2.18	24000	13000			
<b>Minimum</b>		<b>6.3</b>	<b>4.6</b>	<b>3.6</b>	<b>158</b>	<b>0.280</b>	<b>0.598</b>	<b>2800</b>	<b>1400</b>	<b>4.00</b>	<b>0.38</b>	<b>0.00</b>
<b>Maximum</b>		<b>8.3</b>	<b>7.8</b>	<b>6.4</b>	<b>685</b>	<b>11.700</b>	<b>3.698</b>	<b>24000</b>	<b>13000</b>	<b>4.40</b>	<b>0.70</b>	<b>0.00</b>
<b>Average</b>		<b>7.0</b>	<b>6.8</b>	<b>4.8</b>	<b>301</b>	<b>2.183</b>	<b>1.989</b>	<b>9000</b>	<b>4425</b>	<b>4.2</b>	<b>0.5</b>	<b>#DIV/0!</b>

### Rourkela D/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. $\mu$ S/cm	NH <sub>4</sub> -N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	SI	DI	Class
January	2006	7.4	7.5	2.3	248	1.9600	2.24	2100	1200	--	--	--
February		7.6	7.8	3.2	268	0.56	0.692	2100	1200	--	--	--
March		6.9	4.9	3.2	300	6.2	1.03	2800	1700	--	--	--
April		6.8	7.6	2.4	403	0.784	2.061	3500	2200	5.37	0.75	C
May		8.1	8.07	2.8	190	0.672	1.64	3500	1700	--	--	--
June		7.9	7.5	3.9	246	0.784	1.92	3300	2100	--	--	--
July		6.8	7.2	3.2	148	1.848	0.836	2800	1700			
August		6.5	6.7	1.5	107	1.68	0.138	2800	2200			
September		7.0	6.5	2	82	1.12	0.576	6300	2300			
October		6.2	7.3	4.2	227	1.008	0.576	5600	1100	--	--	--
November		7.4	7.0	2.8	200	0.448	1.35	7000	3300			
December		8.0	7.9	2.4	206	1.288	1.26	17000	7900			
<b>Minimum</b>		<b>6.2</b>	<b>4.9</b>	<b>1.5</b>	<b>82</b>	<b>0.448</b>	<b>0.138</b>	<b>2100</b>	<b>1100</b>	--	--	--
<b>Maximum</b>		<b>8.1</b>	<b>8.1</b>	<b>4.2</b>	<b>403</b>	<b>6.200</b>	<b>2.240</b>	<b>17000</b>	<b>7900</b>	--	--	--
<b>Average</b>		<b>7.2</b>	<b>7.2</b>	<b>2.8</b>	<b>219</b>	<b>1.529</b>	<b>1.193</b>	<b>4900</b>	<b>2383</b>	--	--	--

### Boneigarh

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. $\mu$ S/cm	NH <sub>4</sub> -N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	SI	DI	Class
January	2006	7.5	7.8	0.5	194	0.9520	2.54	2200	1300	--	--	--
April		7.5	7.6	1.6	212	0.680	0.34	2100	1200			
July		7.4	7.3	1.1	122	0.84	1.002	2400	1300			
October		7.6	7.8	0.6	162	0.672	0.428	330	110	--	--	--
<b>Minimum</b>		<b>7.4</b>	<b>7.3</b>	<b>0.5</b>	<b>122</b>	<b>0.672</b>	<b>0.340</b>	<b>330</b>	<b>110</b>	--	--	--
<b>Maximum</b>		<b>7.6</b>	<b>7.8</b>	<b>1.6</b>	<b>212</b>	<b>0.952</b>	<b>2.540</b>	<b>2400</b>	<b>1300</b>	--	--	--
<b>Average</b>		<b>7.5</b>	<b>7.6</b>	<b>1.0</b>	<b>173</b>	<b>0.786</b>	<b>1.078</b>	<b>1758</b>	<b>978</b>	--	--	--

### Rengali

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. $\mu$ S/cm	NH <sub>4</sub> -N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	SI	DI	Class
January	2006	7.5	8.2	0.5	181	0.8400	0.913	1400	700	--	--	--
April		7.8	7.5	1.4	232	1.290	0.787	940	700			
July		7.3	8.3	1	124	1.008	1.002	1400	940			
October		7.3	9.6	0.7	108	0.952	0.335	940	460	--	--	--
<b>Minimum</b>		<b>7.3</b>	<b>7.5</b>	<b>0.5</b>	<b>108</b>	<b>0.840</b>	<b>0.335</b>	<b>940</b>	<b>460</b>	--	--	--
<b>Maximum</b>		<b>7.8</b>	<b>9.6</b>	<b>1.4</b>	<b>232</b>	<b>1.290</b>	<b>1.002</b>	<b>1400</b>	<b>940</b>	--	--	--
<b>Average</b>		<b>7.5</b>	<b>8.4</b>	<b>0.9</b>	<b>161</b>	<b>1.023</b>	<b>0.759</b>	<b>1170</b>	<b>700</b>	--	--	--

## Samal

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. μS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	SI	DI	Class
January	2006	7.5	8.5	0.7	104	0.8960	0.509	1400	940	--	--	--
April		7.8	7.8	1.0	186	0.340	0.513	1700	1100	--	--	--
July		7.2	8.6	1.7	122	0.84	0.703	2200	1100			
October		7.3	9.0	0.8	150	0.952	0.274	1400	790	--	--	--
<b>Minimum</b>		<b>7.2</b>	<b>7.8</b>	<b>0.7</b>	<b>104</b>	<b>0.340</b>	<b>0.274</b>	<b>1400</b>	<b>790</b>	--	--	--
<b>Maximum</b>		<b>7.8</b>	<b>9.0</b>	<b>1.7</b>	<b>186</b>	<b>0.952</b>	<b>0.703</b>	<b>2200</b>	<b>1100</b>	--	--	--
<b>Average</b>		<b>7.4</b>	<b>8.5</b>	<b>1.1</b>	<b>141</b>	<b>0.757</b>	<b>0.500</b>	<b>1675</b>	<b>983</b>	--	--	--

### Talcher U/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. $\mu$ S/cm	NH <sub>4</sub> -N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	SI	DI	Class
January	2006	7.8	8.9	0.8	189	0.8400	0.5	940	630	--	--	--
April		7	6.5	1	106	0.448	0.599	3500	2200			
July		8.2	8.5	0.9	145	0.672	0.174	2200	1300			
October		7.8	7.6	1.0	154	0.784	0.209	1700	1100	--	--	--
<b>Minimum</b>		<b>7.0</b>	<b>6.5</b>	<b>0.8</b>	<b>106</b>	<b>0.448</b>	<b>0.174</b>	<b>940</b>	<b>630</b>	--	--	--
<b>Maximum</b>		<b>8.2</b>	<b>8.9</b>	<b>1.0</b>	<b>189</b>	<b>0.840</b>	<b>0.599</b>	<b>3500</b>	<b>2200</b>	--	--	--
<b>Average</b>		<b>7.7</b>	<b>7.9</b>	<b>0.9</b>	<b>149</b>	<b>0.686</b>	<b>0.378</b>	<b>2085</b>	<b>1308</b>	--	--	--

### Kamalanga D/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. $\mu$ S/cm	NH <sub>4</sub> -N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	SI	DI	Class
January	2006	7.2	7.8	1.7	115	1.0080	1.6	1700	1100	3	0.4	--
April		7.8	6.9	2.4	210	0.560	0.354	2100	1100	5.8	0.59	C
July		8.3	7.4	1.7	165	0.784	0.453	2200	1700			
October		7.9	8.0	2.0	164	0.672	0.292	7000	4900	6.0	0.32	C
<b>Minimum</b>		<b>7.2</b>	<b>6.9</b>	<b>1.7</b>	<b>115</b>	<b>0.560</b>	<b>0.292</b>	<b>1700</b>	<b>1100</b>	<b>3.00</b>	<b>0.32</b>	<b>0.00</b>
<b>Maximum</b>		<b>8.3</b>	<b>8.0</b>	<b>2.4</b>	<b>210</b>	<b>1.008</b>	<b>1.550</b>	<b>7000</b>	<b>4900</b>	<b>6.00</b>	<b>0.59</b>	<b>0.00</b>
<b>Average</b>		<b>7.8</b>	<b>7.5</b>	<b>2.0</b>	<b>164</b>	<b>0.756</b>	<b>0.662</b>	<b>3250</b>	<b>2200</b>	<b>4.93</b>	<b>0.44</b>	<b>#DIV/0!</b>

### Bhuban

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. $\mu$ S/cm	NH <sub>4</sub> -N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	SI	DI	Class
January	2006	7.8	7.9	0.8	102	0.8400	0.427	1700	1100	--	--	--
April		7.4	6.8	1.2	178	1.120	0.307	1500	940			
July		8	8.6	0.6	182	0.672	0.376	2200	1300			
October		7.7	8.1	1.7	158	1.68	0.226	2200	1100	--	--	--
<b>Minimum</b>		<b>7.4</b>	<b>6.8</b>	<b>0.6</b>	<b>102</b>	<b>0.672</b>	<b>0.226</b>	<b>1500</b>	<b>940</b>	--	--	--
<b>Maximum</b>		<b>8.0</b>	<b>8.6</b>	<b>1.7</b>	<b>182</b>	<b>1.680</b>	<b>0.427</b>	<b>2200</b>	<b>1300</b>	--	--	--
<b>Average</b>		<b>7.7</b>	<b>7.8</b>	<b>1.1</b>	<b>155</b>	<b>1.078</b>	<b>0.334</b>	<b>1900</b>	<b>1110</b>	--	--	--

### Dharmasala

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. $\mu$ S/cm	NH <sub>4</sub> -N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	SI	DI	Class
January	2006	7.3	8	0.8	112	0.3920	1.22	3500	1700	--	--	--
April		7.8	6.6	2.6	140	0.560	0.295	2200	1100			
July		8.4	6.1	1.4	128	0.784	0.518	3500	200			
October		7.8	6.9	1.5	160	1.568	0.281	3500	1300	--	--	--
<b>Minimum</b>		<b>7.3</b>	<b>6.1</b>	<b>0.8</b>	<b>112</b>	<b>0.392</b>	<b>0.281</b>	<b>2200</b>	<b>200</b>	--	--	--
<b>Maximum</b>		<b>8.4</b>	<b>8.0</b>	<b>2.6</b>	<b>160</b>	<b>1.568</b>	<b>1.220</b>	<b>3500</b>	<b>1700</b>	--	--	--
<b>Average</b>		<b>7.8</b>	<b>6.9</b>	<b>1.6</b>	<b>135</b>	<b>0.826</b>	<b>0.579</b>	<b>3175</b>	<b>1075</b>	--	--	--

## Pottamundai

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. $\mu$ S/cm	NH <sub>4</sub> -N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	SI	DI	Class
January	2006	8	8.8	0.9	191	0.4480	3.08	3500	2200	--	--	--
February		8.0	8.5	1.3	189	0.840	0.139	1400	940	--	--	--
March		8.4	8.4	0.9	200	1.4	0.08	2200	1100	--	--	--
April		7.8	7.9	1.6	358	0.784	1.240	3500	1700			
May		7.9	7.2	1	286	0.784	0.10	2200	1300	--	--	--
June		8.1	7.8	1.1	140.2	0.672	0.39	1700	1100	--	--	--
July		8	7.4	0.8	124	2.13	0.596	3500	2200			
August		7.5	7.1	1.2	185	0.84	0.352	2800	1300			
September		7.6	6.5	1.4	123	0.84	0.282	2200	400			
October		7.9	7.7	1.7	270	0.672	0.324	3300	1300	--	--	--
November		7.1	7.8	1.8	171	0.728	0.457	1100	400			
December		8.1	7.8	0.6	162	0.168	0.119	35000	22000			
<b>Minimum</b>		<b>7.1</b>	<b>6.5</b>	<b>0.6</b>	<b>123</b>	<b>0.168</b>	<b>0.080</b>	<b>1100</b>	<b>400</b>	--	--	--
<b>Maximum</b>		<b>8.4</b>	<b>8.8</b>	<b>1.8</b>	<b>358</b>	<b>2.130</b>	<b>3.080</b>	<b>35000</b>	<b>22000</b>	--	--	--
<b>Average</b>		<b>7.9</b>	<b>7.7</b>	<b>1.2</b>	<b>200</b>	<b>0.859</b>	<b>0.596</b>	<b>5200</b>	<b>2995</b>	--	--	--