

**Water C**

**RIVER KERANDI (INTAKE WELL OF NALCO REFINARY, HAL, SUNABEDA)**

Month	Year	Temp., °C	pH	DO, mg/l	BOD, mg/l	COD, mg/l	Cond., µS/cm	Nitrate- N, mg/l	
Jan	2013	15	7.3	7.1	1.9	13.6	103	0.957	
Feb		19	7.7	7.3	1.6	9.5	97	0.362	
Mar		24	7.9	7.1	1.6	10.0	96	0.147	
Apr		28	7.7	7.2	1.8	16.2	87	0.223	
May		32	7.5	7.1	1.2	11.2	70	0.336	
June		27	7.3	7.2	0.9	11.0	70	1.159	
July		21	7.2	7.5	0.9	19.6	58	0.026	
Aug		20	7.4	7.5	0.4	26.0	78	2.205	
Sep		20	7.5	7.3	1.4	10.4	72	0.185	
Oct				7.5	7.6	0.4	8.4	80	0.895
Nov				7.5	7.8	0.95	6.9	95	0.895
Dec									
<b>Min</b>		<b>15.0</b>	<b>7.2</b>	<b>7.1</b>	<b>0.4</b>	<b>6.9</b>	<b>58.0</b>	<b>0.0</b>	
<b>Max</b>		<b>32.0</b>	<b>7.9</b>	<b>7.8</b>	<b>1.9</b>	<b>26.0</b>	<b>103.1</b>	<b>2.2</b>	
<b>Average</b>		<b>22.9</b>	<b>7.5</b>	<b>7.3</b>	<b>1.2</b>	<b>13.0</b>	<b>82.4</b>	<b>0.7</b>	

## Quality of River Kerandi - 2013

NH <sub>4</sub> -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
ND	3500	1400	6.1	0.75	B	0.027	24	BDL
0.112	3500	1100				0.019	24	BDL
0.112	1400	330	--	--	--	BDL	104	BDL
0.224	1700	490	5.3	0.46	C	0.004	32	BDL
0.100	1100	680	--	--	--	0.0023	24	BDL
0.222	930	450	--	--	--	BDL	20	BDL
0.224	160000	>160000	--	--	--	0.060	12	BDL
0.330	11000	4900	--	--	--	0.012	14	BDL
0.056	4900	3300	--	--	--	0.016	16	BDL
0.112	3300	1300	6.75	0.56	B	0.013	24	0
0.112	1300	330				0.006	20	0
<b>0.1</b>	<b>930.0</b>	<b>330.0</b>	<b>5.3</b>	<b>0.5</b>	<b>0.0</b>	<b>0.0</b>	<b>12.0</b>	<b>0.0</b>
<b>0.3</b>	<b>160000.0</b>	<b>4900.0</b>	<b>6.8</b>	<b>0.8</b>	<b>0.0</b>	<b>0.1</b>	<b>104.0</b>	<b>0.0</b>
<b>0.2</b>	<b>17511.8</b>	<b>1428.0</b>	<b>6.1</b>	<b>0.6</b>	<b>#DIV/0!</b>	<b>0.0</b>	<b>28.5</b>	<b>0.0</b>

Hardness as CaCO <sub>3</sub> , mg/l	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	Fluoride, mg/l	Total Kjeldahl N, mg/l	TSS, mg/l
44	20	24	9.8	5.35	ND	0.102	3.10	38
32	20	12	12.8	1.49	0.006	0.162	1.7	54
84	48	36	13.7	5.72	0.086	0.281	1.40	62
32	20	12	8.7	2.9	0.056	0.205	2.2	44
32	16	16	6.6	2.1	0.008	0.162	1.1	80
16	12	4	4.6	8.2	0.067	0.084	1.7	240
16	8	8	7.7	4.0	0.299	0.777	1.4	1596
28	10	18	6.7	11.8	0.092	0.190	1.9	118
22	16	6	6.8	8.3	0.014	0.098	1.12	28
24	16	8	6.6	9.950	0.051	0.098	1.12	32
24	12	12	8.48	4.726	0.068	0.108	1.68	28
<b>16.0</b>	<b>8.0</b>	<b>4.0</b>	<b>4.6</b>	<b>1.5</b>	<b>0.0</b>	<b>0.1</b>	<b>1.1</b>	<b>28.0</b>
<b>84.0</b>	<b>48.0</b>	<b>36.0</b>	<b>13.7</b>	<b>11.8</b>	<b>0.3</b>	<b>0.8</b>	<b>3.1</b>	<b>1596.0</b>
<b>32.2</b>	<b>18.0</b>	<b>14.2</b>	<b>8.4</b>	<b>5.9</b>	<b>0.1</b>	<b>0.2</b>	<b>1.7</b>	<b>210.9</b>

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
57	78	9.0	5.5	0.9	0.053	--	--	--
63	96	8.1	7.0	2.9	0.011	0.7	2.6	6.4
57.0	70	13.0	7.7	2.0	0.007	--	--	--
54.0	78	9.0	5.8	1.5	0.011	--	--	--
45	90	32.0	4.0	1.9	0.154	--	--	--
40	236	90.0	2.2	1.1	0.173	--	--	--
32	1490	150	4.3	1.1	0.071	--	--	--
46	134	95	4.8	1.8	0.068	--	--	--
40	56	33	4.9	2.0	0.230	--	--	--
48	62	50	3.57	1.48	0.003			
55	64	26	5.06	1.69	0.007			
<b>32.0</b>	<b>56.0</b>	<b>8.1</b>	<b>2.2</b>	<b>0.9</b>	<b>0.0</b>	<b>0.7</b>	<b>2.6</b>	<b>6.4</b>
<b>63.0</b>	<b>1490.0</b>	<b>150.0</b>	<b>7.7</b>	<b>2.9</b>	<b>0.2</b>	<b>0.7</b>	<b>2.6</b>	<b>6.4</b>
<b>48.8</b>	<b>223.1</b>	<b>46.8</b>	<b>5.0</b>	<b>1.7</b>	<b>0.1</b>	<b>0.7</b>	<b>2.6</b>	<b>6.4</b>

Chromium Total, micro gm/l	Nickel, micro gm/l	Zinc, micro gm/l	Iron Total, micro gm/l	Mercury, micro gm/l	Cr(VI)
17	--	--	1320	BDL	BDL
20	2.2	4.2	710	BDL	BDL
2	--	--	723	BDL	BDL
30	--	--	760	BDL	BDL
60	--	--	1780	BDL	BDL
5	--	--	11248	BDL	BDL
27	--	--	2837	BDL	BDL
30	--	--	12921	BDL	BDL
30	--	--	4150	BDL	BDL
33			3279		ND
35			1539		
<b>2.0</b>	<b>2.2</b>	<b>4.2</b>	<b>710.0</b>	<b>0.0</b>	<b>0.0</b>
<b>60.0</b>	<b>2.2</b>	<b>4.2</b>	<b>12921.0</b>	<b>0.0</b>	<b>0.0</b>
<b>26.3</b>	<b>2.2</b>	<b>4.2</b>	<b>3751.5</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>



















spc board, the month  
orissa of July'09