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

Month	Year	Temp., ^{0}C	pH	DO, mg/l	BOD, mg/l	COD, mg/l	Cond., µS/cm	Nitrate-N, mg/l	NH_4-N, mg/l
Jan	2011	25	7.8	7.0	0.9	11.8	93.1	0.024	0.616
Mar		25	7.4	6.8	1.4	10.3	80	0.148	0.56
April		26	7.8	6.7	1.0	11.8	102.8	0.421	0.896
May		28	7.2	7.1	1.6	18.6	66.16	0.32753	0.112
June		26	7.2	7.6	1.1	10.3	85	0.172	0.112
July		24	7.9	6.7	2.3	14	143	0.865	0.336
Aug		25	7.8	7.1	1.6	12.3	143	3.844	0.112
Sep		30	8.3	7.8	2.2	20.9	153	0.627	0.112
Oct		22	7.46	6.5	2.5	8.2	116	0.154	0.056
Nov		19	7.3	7.0	1.2	8.2	119	0.334	0.112
Dec		14	7.6	6.9	2.2	20.9	122	0.387	0.168
Min		**14**	**7.19**	**6.5**	**0.9**	**8.2**	**66.16**	**0.024**	**0.056**
Max		**30**	**8.27**	**7.8**	**2.5**	**20.9**	**153**	**3.844**	**0.896**
Average		**24**	**7.61091**	**7.01818**	**1.63636**	**13.3909**	**111.178**	**0.664**	**0.29018**

TC, MPN/ 100 ml	FC, MPN/ 100 ml	SI	DI	Class	Nitrite-N, mg/l	T. Alk., mg/l	P. Alk., mg/l	Hardness $CaCO_3$, mg/l
1400	940	5.8	0.4	C	0.009	28	ND	48
470	170				0.002	32	ND	32
1400	330	6.5	0.7	B	ND	28	ND	20
2200	1300				0.001	24	0	20
1500	580				0.007	28	ND	42
1700	940				0.007	70	ND	48
15000	4300				0.047	34	ND	58
3400	1700				0.003	48	ND	56
1200	580	5.1	0.52	C	0.010	44	ND	54
1500	840				0.002	52	ND	56
400	210				0.001	50	ND	44
400	**170**	**5.1**	**0.4**	**0**	**0.001**	**24**	**0**	**20**
15000	**4300**	**6.5**	**0.7**	**0**	**0.04719**	**70**	**0**	**58**
2742.73	**1080.91**	**5.8**	**0.54**	**#DIV/0!**	**0.00887**	**39.8182**	**0**	**43.4545**

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	TDS, mg/l
28	20	5.8	8.6	BDL	0.211	3.36	5	51
24	8	11	3.76	0.305	0.168	3.92	17	59
12	8	13	5.16	0.064	0.116	3.36	54	60
12	8	11	4.30	0.011	0.22	8.4	140	43
24	18	13.5	3.2259	0.021144	0.247	1.4	126	54
36	12	9.8	0.322	0.051	0.137	2.52	120	85
38	20	6.78	18.4	0.125	0.228	1.12	296	88
36	20	13.5	10.11	0.079	0.14	1.68	90	99
32	22	11.0	2.15	0.079	0.0954	0.84	26	76
32	24	5	2.54	0.026	0.096	2.24	79	65
30	14	9.6	3.12	0.033	0.152	0.84	32	77
12	**8**	**5**	**0.322**	**0.01057**	**0.0954**	**0.84**	**5**	**43**
38	**24**	**13.5**	**18.387**	**0.305**	**0.247**	**8.4**	**296**	**99**
27.6364	**15.8182**	**9.99382**	**5.60616**	**0.07937**	**0.16475**	**2.69818**	**89.5455**	**68.8182**

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	Chromium Total, micro gm/l
48	6.2	3.4	1.7	0.151	0.1	3.4	BDL	110
68	4.7	7.72	3.52	0.019	1.1	6.7	4.6	55
94	18.2	7.09	1.72	0.098	0.4	ND	2.9	43
166	23.7	7.6	1.11	0	0.6	2.1	1.6	6.64
116	11.2	8.16	1.38	0.049	3.5	3.8	3.2	42
160	20.8	6.77	1.76	0.004	2.4	5.0	8.6	30
310	59.4	4.0	1.48	0.004	1.8	3.6	2.5	5.0
116	18.8	8.3	1.25	0.049	0.3	5.9	5.2	20
84	8.5	6.22	1.74	0.015	3.5	4.7	3.4	23
114	7.6	3.6	1.0	0.041	2.9	6.4	2.4	95
86	12.4	6.4	1.0	0.053	1.2	3.4	5.8	22
48	**4.7**	**3.4**	**1.01**	**0**	**0.125**	**2.0625**	**1.5625**	**5**
310	**59.4**	**8.3**	**3.52**	**0.151**	**3.5**	**6.7**	**8.5625**	**110**
123.818	**17.4091**	**6.29909**	**1.60909**	**0.04393**	**1.60795**	**4.48825**	**4.0125**	**41.05818**

Nickel, micro gm/l	Zinc, micro gm/l	Mercury, micro gm/l	Iron Total, micro gm/l
3.8	10.1	580	
2.7	1.3	870	BDL
4.1	0.8	2400	BDL
0.9	4.4	734	BDL
2.9	0.8	1579	BDL
1.6	5.9	4555	BDL
1.2	3.3	4454	BDL
1.1	11.9	13133	BDL
2.9	4.7	800	BDL
2.1	5.8	830	BDL
2.9	7.1	922	BDL
0.875	**0.8**	**580**	**0**
4.1	**11.9375**	**13133**	**0**
2.368182	**5.082727**	**2805.164**	**#DIV/0!**

spc board,
orissa

the month
of July'09