

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	2012	19	8.2	7.2	2.4	10.7	167	0.277
Feb		27	8.2	7.1	1.8	10.4	68	1.052
Mar		28	7.1	6.9	1.3	11.7	94	0.269
Apr		29	7.3	6.8	1.7	23.6	115	4.988
May		31	7.5	7.1	1.2	14.5	128	1.569
June		26	7.4	6.6	1.8	13.1	75	2.430
July		22	7.6	6.4	1.0	6.0	81	1.740
Aug		21	7.8	6.7	1.6	5.8	104	1.575
Sep		22	6.7	6.6	2.0	12.4	101	0.987
Oct		20	7.6	7.1	1.8	13.9	122	0.272
Nov		19	7.9	7.0	1.6	12.1	142	0.885
Dec		18	8.1	7.1	1.4	8.9	95	0.435
Min		18.0	6.7	6.4	1.0	5.8	68	0.3
Max		31.0	8.2	7.2	2.4	23.6	167	5.0
Average		23.5	7.6	6.9	1.6	11.9	108	1.4

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
0.112	1400	790	--	--	--	0.006	76	ND
0.168	940	460				0.006	24	6
0.84	1700	1300				0.002	42	ND
0.112	4900	3300	5.8	0.4	C	0.012	44	ND
0.224	9200	5400				0.077	32	ND
0.336	13000	7900				0.005	28	BDL
	17000	11000				0.035	24	BDL
0.336	1100	460				0.025	24	BDL
0.112	9200	3500				0.029	28	BDL
0.112	3500	1400	5.5	0.75	C	0.006	36	BDL
0.112	1700	790				0.027	60	BDL
0.112	1100	490	--	--	--	0.027	36	BDL
0.112	940.0	460.0	5.50	0.40	0	0.002	24	6
0.840	17000.0	11000.0	5.80	0.75	0	0.077	76	6
0.234	5395.0	3066	5.65	0.58	#DIV/0!	0.0	38	6.0

Hardness as CaCO ₃ , mg/l	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
76	50	26	8.6	3.4	0.026	0.140	1.7	47
28	16	12	9.6	3.76	0.123	0.16	1.1	110
36	16	20	4.6	9.11	0.043	0.190	1.96	191
42	12	30	12.5	2.67	0.392	0.150	4.48	20
52	22	30	8.6	24.26	0.162	0.152	0.56	344
32	12	20	8.0	2.10	0.029	0.165	1.96	118
36	16	20	7.4	6.4	0.040	0.289	2.24	140
40	20	20	12.60	7.82	0.050	0.107	2.24	82
32	20	12	12.6	1.58	0.113	0.105	0.12	258
44	30	14	8.4	8.3	0.046	0.126	2.2	32
66	46	20	7.8	10.59	0.012	0.092	3.36	56
30	20	10	8.8	0.9	0.016	0.113	1.7	52
28	12	10	4.6	0.9	0.012	0.092	0.1	20
76	50	30	12.6	24.3	0.392	0.289	4.5	344
43	23.3	19.5	9.1	6.7	0.088	0.149	2.0	120.8

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
93	126	4.3	5.5	1.49	0.026	3.0	5.4	5.4
44	142	62.3	6.7	1.0	0.007	1.8	2.1	3.6
62	220	65	3.2	0.9	0.034	0.8	2.9	7.8
75	80	14	8.1	3.8	0.011	1.1	2.6	7.3
81	388	84.1	4.8	1.2	0.004	1.2	6.7	6.7
48	156	87.2	4.8	2.92	0.125	--	--	--
50	174	94.1	4.3	0.5	0.034	--	--	--
69	130	103.2	7.65	1.89	0.102	--	--	--
62	290	52.4	6.80	3.5	0.030	--	--	--
74	86	24.1	5.9	1.4	0.084	--	--	--
89	128	22.4	5.0	0.6	0.009	--	--	--
56	90	26.9	4.2	2.6	0.012	--	--	--
44	80	4.3	3.17	0.47	0.004	0.75	2.125	3.625
93	388	103.2	8.07	3.8	0.125	3	6.7	7.8125
67	167.5	53.3	5.6	1.8	0.040	1.6	3.9	6.2

Chromium Total, micro gm/l	Nickel, micro gm/l	Zinc, micro gm/l	Mercury, micro gm/l	Iron Total, micro gm/l	Cr(VI)
23	2.4	4.7	BDL	3744	BDL
48	4.9	7.9	BDL	13766	
7	7.4	2.1	BDL	7315	ND
10	7.2	2.0	BDL	24422	BDL
12	2.5	2.2	BDL	4637	
BDL	--	--	BDL	7050	BDL
43	--	--	BDL	5736	BDL
40	--	--	BDL	5800	BDL
20	--	--	BDL	3220	--
34	--	--	BDL	4200	--
15	--	--	BDL	1460	BDL
31	--	--	BDL	1200	BDL
7	2.375	2	0	1200	
48	7.4375	7.9375	0	24422	
25.7	4.9	3.8	#DIV/0!	6879.2	

spc board, the month
orissa of July'09