

Data Under National Water Quality Monitoring Program for 2014-2015

RIVER CHAPORA NEAR ALORNA FORT, PERNEM 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	6.88	7.03	6.39	6.53	6.95	6.56	6.83	7.5	7.87	6.62	6.28	7.68
2	Temperature °C	32	31.5	31.9	31.9	27	26.4	28	28.5	26.8	25.5	27	27.4
3	Conductivity µs/cm	8395	2148	653.44	551	57	52.54	1386	63	65.44	61.2	1106	46300
4	Dissolved Oxygen mg/l	5.2	6.3	6.7	6.6	7.8	7.6	6.99	7.3	7.1	7.9	7.4	7.3
5	Turbidity (NTU)	3.38	4.25	3.57	3.35	11.6	6.07	21.7	2.43	2.82	2.76	2.55	4.03
6	Nitrite Nitrogen mg/l	0.007	0.004	0.003	0.009	0.005	0.005	0.001	0.002	0.002	0.002	0.009	0.003
7	Nitrogen(Nitrate) mg/l	0.05	0.08	0.02	0.08	0.15	0.13	0.28	0.17	0.175	0.06	0.062	0.04
8	Phosphate mg/l	0.05	0.013	BDL	0.004	0.03	0.022	0.039	0.036	0.004	0.124	0.002	BDL
9	BOD mg/l	1.8	1.9		0.5	0.9	0.5	0.71	0.4	2.4	1.5	1	1.3
10	COD mg/l	17	5	2	4	10	16	65	11	12	7	2	3.0
11	Chloride mg/l	16391	1.96	162.9	121.41	3	4.89	124.9	4	1249.6	2.91	337.48	7.3
12	Fecal Coliform MPN/100 ml	3300	4900	3300	2300	4900	4900	4900	3300	1300	1300	2300	1300
13	Total Coliform MPN/100 ml	7000	11000	7000	3300	7900	7000	7900	4600	1700	1700	4600	2300
14	Ammonia mg/l	0.04	0.03	0.06	0.36	0.07	0.016	0.027	0.014	0.013	BDL	0.06	0.05
15	Total Dissolved Solids(mg/l)	13661	-	-	-	51	126	110	10	74	41	665	194
16	Total Fixed Solids (mg/l)	9191	-	-	-	92	28	32	100	24	20	531	31
17	Total Suspended Solid (mg/l)	52	-	-	-	12	4	12	28	12	2	15	78
18	Hardness(mg/l)	1800	-	-	-	20	8	20	20	46	24	120	18
19	Fluoride(mg/l)	0.72	-	-	-	0.01	0.01	0.14	0.43	0.33	0.27	0.01	0.07
20	Boron(mg/l)	2.21	-	-	-	1.7	0.05	17	6.7	6.9	2.11	0.19	5.5
21	Sulphate (mg/l)	101.43	-	-	-	4.45	20.4	2.1	2.2	1.4	2.25	32.66	3.7
22	Total Alkalinity(mg/l)	20	-	-	-	180	14	48	48	24	26	30	36
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	2487	-	-	-	6.7	4.9	8	6.4	6.4	5.3	156.7	169.9
25	Potassium(mg/l)	55.7	-	-	-	3	2.3	3.3	3.8	3.8	0.1	5	6.8
26	Calcium as CaCO ₃ (mg/l)	320.6	-	-	-	12	4	18	18	44	14	28	10
27	Magnesium(mg/l)	243	-	-	-	1.9	0.97	0.5	0.49	0.5	2.43	22.36	1.9

RIVER KALNA AT CHANDEL, PERNEM 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	6.98	6.8	6.27	6.57	6.8	6.63	7.5	7.5	7.95	6.67	7.01	7.03
2	Temperature °C	30	29.5	29.6	29.7	26.2	26.1	27.5	27.5	25.8	25	27	27
3	Conductivity µs/cm	77.65	64.4	66.72	74.3	47.81	56.33	1394	74.8	78.79	72.8	77.3	78.01
4	Dissolved Oxygen mg/l	6.1	6.3	6.1	7.2	7.6	9	7.17	7.9	7.5	7.4	7.5	6.5
5	Turbidity (NTU)	3.25	3.63	2.78	2.36	17.7	9.64	18.9	2.07	2.86	3.39	2.51	14
6	Nitrite Nitrogen mg/l	0.002	0.003	0.001	0.005	0.007	0.005	0.003	0.002	0.002	0.009	0.003	0.008
7	Nitrogen(Nitrate) mg/l	0.52	0.03	0.04	0.05	0.05	0.09	0.19	0.07	0.092	0.046	0.058	0.04
8	Phosphate mg/l	0.03	0.007	0.002	0.01	0.01	0.021	0.034	0.038	0.011	0.005	BDL	0.001
9	BOD mg/l	1.5	2		1	1	2.8	0.91	1.1	1.2	2	2.4	1.2
10	COD mg/l	1	2	1	2	9	19	17	11	10	7	5	20
11	Chloride mg/l	5.5	3.42	4.0	3.4	4.5	5.87	4	5	7.5	4.37	10.12	5.4
12	Fecal Coliform MPN/100 ml	4900	7900	4900	7900	4900	4900	7900	4900	2300	1300	3300	7900
13	Total Coliform MPN/100 ml	7900	13000	7900	13000	13000	7900	13000	7900	3300	2300	7900	14000
14	Ammonia mg/l	0.072	0.01	0.01	0.167	0.04	0.064	0.018	0.014	0.028	BDL	0.08	0.07
16	Total Dissolved Solids(mg/l)	159	-	-	-	29	62	75	9	49	45	65	99
17	Total Fixed Solids (mg/l)	782	-	-	-	81	28	30	54	18	26	51	22
18	Total Suspended Solid (mg/l)	8	-	-	-	37	2	8	27	7	2	16	49
19	Hardness(mg/l)	24	-	-	-	6	8	20	20	60	56	28	34
20	Fluoride(mg/l)	0.17	-	-	-	BDL	0.01	0.1	0.45	0.64	0.16	0.01	0.1
21	Boron(mg/l)	0.14	-	-	-	2.02	0.04	17	8.3	8.4	0.9	BDL	5.1
22	Sulphate (mg/l)	2.09	-	-	-	6.66	18.7	2.6	1.9	1.4	2.13	2.53	5.3
23	Total Alkalinity(mg/l)	12	-	-	-	200	20	54	54	34	30	26	30
24	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
25	Sodium(mg/l)	22.1	-	-	-	6.2	5	11.1	10.9	6.3	5.8	6.1	6.7
26	Potassium(mg/l)	47.6	-	-	-	2.2	2.5	3.2	4.2	3.7	0	0.1	0.3
27	Calcium as CaCO3(mg/l)	7.2	-	-	-	2	4	16	16	26	12	16	18
28	Magnesium(mg/l)	1.5	-	-	-	1	0.97	0.9	0.97	8.3	10.7	2.92	3.9

RIVER MAPUSA ON CULVERT ON HIGHWAY MAPUSA-PANAJI 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	6.9	7.3	6.89	6.61	6.3	6.49	6.79	6.58	7.29	6.35	6.55	6.99
2	Temperature °C	31	33.6	32	31.7	28.3	27.9	28.8	29.5	26.3	25.7	28	28
3	Conductivity ms/cm	16.91	18.45	13.49	0.945	0.115	87.07	2052	549	3.076	5.51	10830	7500
4	Dissolved Oxygen mg/l	4.34	8.3	6.2	4.5	3.7	4.6	3.81	5.8	5.2	5	5.6	3.3
5	Turbidity (NTU)	1.81	2.78	3.11	10.2	12.4	5.92	2.74	3.99	2	1.26	1.39	3.75
6	Nitrite Nitrogen mg/l	0.01	0.004	0.003	0.006	0.011	0.006	BDL	0.013	0.008	0.003	0.004	0.02
7	Nitrogen(Nitrate) mg/l	1.39	0.26	0.045	0.37	0.16	0.13	0.45	0.25	0.199	0.029	0.042	0.06
8	Phosphate mg/l	0.02	0.035	0.08	0.04	0.02	0.027	0.072	0.06	0.026	0.013	0.009	0.03
9	BOD mg/l	1.67	2.9	1.3	2	1	1.7	1.2	1.6	2.6	2.8	1.3	0.7
10	COD mg/l	5	22	19	20	9	11	11	13	30	22	35	-
11	Chloride mg/l	18244	5136.7	25367	170	14.5	11.25	124.9	1399.6	1499.5	1554.1	3133.78	9297
12	Fecal Coliform MPN/100 ml	4900	13000	7900	4900	4900	3300	4900	4600	7900	3300	3300	7900
13	Total Coliform MPN/100 ml	13000	22000	13000	7000	11000	4900	11000	7000	17000	4900	4900	13000
14	Ammonia mg/l	0.08	0.01	0.09	0.72	0.07	0.033	0.011	0.013	0.11	0.014	0.14	0.009
15	Total Dissolved Solids(mg/l)	5349	-	-	-	80	160	126	26	139	2755	6388	4750
16	Total Fixed Solids (mg/l)	4327	-	-	-	105	26	28	132	39	1855	5051	3591
17	Total Suspended Solid (mg/l)	31	-	-	-	5	6	18	34	23	139	31	97
18	Hardness(mg/l)	3000	-	-	-	10	14	84	84	3600	556	1360	3200
19	Fluoride(mg/l)	0.83	-	-	-	0.01	0.01	0.1	0.41	0.5	0.32	0.09	0.13
20	Boron(mg/l)	0.14	-	-	-	0.79	0.04	16	6.6	6.7	4.37	0.49	3.3
21	Sulphate (mg/l)	235.22	-	-	-	7.6	8.93	14	12.8	86.9	127.4	329.59	184.3
22	Total Alkalinity(mg/l)	25	-	-	-	140	14	94	94	46	52	48	68
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	4621	-	-	-	14.2	8.3	129.4	85.9	4334	984.1	1639	1878.0
25	Potassium(mg/l)	112.4	-	-	-	3.2	3	9	6.1	16.5	28.9	61.4	79.4
26	Calcium as CaCO3(mg/l)	160.3	-	-	-	8	8	78	78	1600	126	6	1200
27	Magnesium(mg/l)	631.8	-	-	-	0.5	1.46	1.5	1.46	486	104.5	329.02	486

RIVER ASSANORA AT ASSANORA 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	6.58	6.4	6.88	6.6	6.35	5.69	7.2	6.28	6.9	6.65	6.48	6.64
2	Temperature °C	29	28	28	27.9	27	28.3	26	27.6	29.5	27	27.8	28
3	Conductivity µs/cm	63.4	63.41	73.6	56.6	44.97	51.7	2.64	65.7	64.3	58.11	62.16	61.0
4	Dissolved Oxygen mg/l	6.6	6.5	6.43	6.8	7.8	6.6	7.2	6	6.4	6.36	5.7	6.1
5	Turbidity (NTU)	3.25	11	17.6	6.56	5.38	5.07	6.5	5.11	6.16	3.92	2.95	3.02
6	Nitrite Nitrogen mg/l	0.004	0.003	0.0039	0.004	0.003	0.002	0.001	0.002	0.003	0.003	0.002	0.002
7	Nitrogen(Nitrate) mg/l	0.07	0.077	0.4733	0.191	0.134	0.12	0.11	0.104	0.06	0.3	0.044	0.11
8	Phosphate mg/l	0.026	0.018	0.033	0.006	0.007	0.005	BDL	0.007	0.004	0.01	0.01	0.016
9	BOD mg/l	1	2.2	1.33	0.4	1.7	0.6	1.6	1.3	0.8	0.9	0.9	0.5
10	COD mg/l	7	5	1	4	4	3	6	4	3	1	3	8.0
11	Chloride mg/l	3.5	6.27	7.49	3.4	4.87	5.87	2	3.37	4	6.5	7.28	13.0
12	Fecal Coliform MPN/100 ml	2300	2300	2400	2400	3300	2300	2300	3300	1300	3300	1300	2300
13	Total Coliform MPN/100 ml	3300	4900	3500	3500	4900	3300	3300	4900	2200	4900	2300	3300
14	Ammonia mg/l	BDL	0.08	0.075	0.006	0.002	0.022	0.01	0.02	0.02	0.04	0.043	0.07
15	Total Dissolved Solids(mg/l)	32	-	-	-	30	32		39	259	150	45	38
16	Total Fixed Solids (mg/l)	181	-	-	-	8	9		15	225	48	10	21
17	Total Suspended Solid (mg/l)	3	-	-	-	29	15		2	4	6	1	5
18	Hardness(mg/l)	16	-	-	-	0	4	14	20	22	14	30	24
19	Fluoride(mg/l)	0.3	-	-	-	0.206	0.02	0.008	BDL	0.2	0.1	0.04	0.01
20	Boron(mg/l)	2.1	-	-	-	0.295	1.23	1.03	1.48	0.81	0.3	0.29	0.48
21	Sulphate (mg/l)	3.72	-	-	-	2.3	1.97	1.31	2.92	0.11	0.9	3.2	2.30
22	Total Alkalinity(mg/l)	140	-	-	-	12	20	26	40	200	70	24	24
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	19.6	-	-	-	6.1	5.3	5.7	3.6	3.7	10.2	4.8	4.1
25	Potassium(mg/l)	15	-	-	-	2.4	2.6	3	0.5	1.3	4.2	0.2	1.5
26	Calcium as CaCO3(mg/l)	12	-	-	-	0	0	12	12	4	10	16	12
27	Magnesium(mg/l)	1	-	-	-	0	0.97	0.486	1.94	4.4	0.9	3.4	2.92

RIVER VALVANTI AT SANQUELIM 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	6.81	6.29	6.68	6.4	6.6	5.53	7	5.65	6.88	6.6	6.78	6.96
2	Temperature °C	34	31	27	28.4	28	27.8	27	28.3	29.4	27.6	28	28
3	Conductivity µs/cm	62.5	70.19	84.6	45.9	49.39	52.83	2.652	66.1	64.8	67.18	68.65	70.25
4	Dissolved Oxygen mg/l	6.1	6.3	7.18	7.3	7.3	7.3	7.8	6.9	7.3	6.3	7.9	6.5
5	Turbidity (NTU)	2.38	4.66	11.3	9.87	4.9	3.82	4.46	2.97	2.22	2.38	2.25	2.91
6	Nitrite Nitrogen mg/l	0.003	0.002	0.0038	0.003	0.002	0.001	0.001	0.002	0.039	0.002	0.002	0.003
7	Nitrogen(Nitrate) mg/l	0.09	0.06	0.3422	0.154	0.135	0.17	0.06	0.087	0.08	0.1	0.07	0.10
8	Phosphate mg/l	0.004	0.084	0.009	0.009	0.004	0.004	BDL	0.004	0.002	0.01	0.033	0.017
9	BOD mg/l	1.1	2.9	1.41	0.3	0.6	0.3	2	1.6	0.8	1	1.2	2.1
10	COD mg/l	6	11	1	2	1	2	8	5	12	3	3	9.0
11	Chloride mg/l	2.5	6.75	8.49	3.89	3.89	1.46	4.86	2.89	4	4.5	7.28	12
12	Fecal Coliform MPN/100 ml	13000	7900	7900	7900	7000	7900	7000	7900	7900	7900	4900	7900
13	Total Coliform MPN/100 ml	24000	13000	11000	13000	11000	11000	14000	17000	13000	14000	7900	11000
14	Ammonia mg/l	0.02	0.083	0.023	0.04	0.017	0.016	0.006	0.02	0.02	0.04	0.01	0.06
15	Total Dissolved Solids(mg/l)	31	-	-	-	33	58		55	170	91	51	47
16	Total Fixed Solids (mg/l)	69	-	-	-	14	39		30	167	61	16	32
17	Total Suspended Solid (mg/l)	1	-	-	-	4	16		3	3	3	2	5
18	Hardness(mg/l)	16	-	-	-	0	8	20	18	14	24	28	28
19	Fluoride(mg/l)	0.38	-	-	-	0.137	0.12	0.03	BDL	0.19	0.1	0.03	0.02
20	Boron(mg/l)	19.1	-	-	-	0.153	1.48	1.2	1.4	0.97	0.2	0.17	0.50
21	Sulphate (mg/l)	3.3	-	-	-	2.6	2.07	1.79	2.24	0.27	3.3	2.31	2.72
22	Total Alkalinity(mg/l)	140	-	-	-	16	22	28	34	260	36	28	24
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	15.3	-	-	-	5.3	5.6	6.1	5.2	4.2	9.7	5.2	1.3
25	Potassium(mg/l)	15.2	-	-	-	2.5	2.6	3.7	0.5	1.2	4.2	0.4	1.5
26	Calcium as CaCO3(mg/l)	10	-	-	-	0	2	10	14	10	18	18	110
27	Magnesium(mg/l)	1.5	-	-	-	0	1.46	2.43	0.97	1	1.5	2.4	4.37

RIVER MADEI AT DABOSE, VALPOI 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.25	6.93	7.2	6.5	7.16	6.06	7.47	6.2	6.84	6.8	7.14	6.82
2	Temperature °C	34	31	27	25.5	27	25.8	30	26.8	28.3	28	28.5	29
3	Conductivity µs/cm	137.1	128.09	72	47.6	43.04	61.04	3.22	74.5	102.5	95.1	94.65	158.34
4	Dissolved Oxygen mg/l	6.4	6.5	7.62	7.6	8	7.7	7.8	7.3	7.8	7.2	7.4	6.5
5	Turbidity (NTU)	2.6	3.97	32.2	21	4.23	5.23	10.3	2.44	2.31	1.84	1.21	2.94
6	Nitrite Nitrogen mg/l	0.002	0.002	0.0104	0.005	0.002	0.002	0.001	0.001	0.004	0.001	0.001	0.002
7	Nitrogen(Nitrate) mg/l	0.09	BDL	0.2749	0.093	0.063	0.07	0.03	0.027	BDL	0.01	0.02	0.07
8	Phosphate mg/l	0.003	0.012	0.009	0.012	0.006	0.001	0.07	BDL	0.001	0.008	0.01	0.002
9	BOD mg/l	1.5	2.1	2.72	0.7	1.1	0.3	1.4	0.5	1.8	1.3	1.2	1.8
10	COD mg/l	8	6	14	13	4	1	9	4	11	43	4	6
11	Chloride mg/l	5.5	6.75	7.99	6.75	3.89	4.89	4.86	2.89	5.5	8	6.31	15.0
12	Fecal Coliform MPN/100 ml	780	780	4900	4900	4900	1300	2300	1300	230	230	230	330
13	Total Coliform MPN/100 ml	1400	1300	7900	7900	7000	2300	3300	1700	330	330	330	490
14	Ammonia mg/l	0.05	0.045	0.139	0.089	0.015	0.001	0.004	0.01	0.01	0.17	0.01	0.04
15	Total Dissolved Solids(mg/l)	72	-	-	-	29	23		76	9176	65	70	96
16	Total Fixed Solids (mg/l)	90	-	-	-	12	18		10	6716	10	21	79
17	Total Suspended Solid (mg/l)	5	-	-	-	3	16		3	13	3	15	11
18	Hardness(mg/l)	48	-	-	-	0	8	22	22	32	36	40	22
19	Fluoride(mg/l)	0.49	-	-	-	BDL	0.05	0.02	BDL	0.18	0.1	0.01	0.02
20	Boron(mg/l)	1.3	-	-	-	0.189	3.59	0.57	2.43	1.1	0.08	0.27	2.46
21	Sulphate (mg/l)	3.34	-	-	-	6	1.16	2.15	4.92	0.21	1	1.25	8.73
22	Total Alkalinity(mg/l)	300	-	-	-	16	26	28	46	340	58	38	40
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	14.1	-	-	-	5.2	5.6	5.8	4.6	5.8	7.6	5.5	5.4
25	Potassium(mg/l)	14.9	-	-	-	2.4	2.7	2.9	0.4	2.3	3.9	0	2.1
26	Calcium as CaCO3(mg/l)	30	-	-	-	0	2	14	14	14	20	20	8
27	Magnesium(mg/l)	4.4	-	-	-	0	1.46	1.944	1.94	4.4	3.9	4.9	3.42

RIVER KHANDEPAR, OPA, PONDA 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.43	7.4	7.3	7.08	6.45	6.77	6.97	7.05	7.15	6.07	6.89	7.52
2	Temperature °C	34.5	32.9	32.4	28	19	27.5	28.9	29.2	27.8	28	28.4	30.6
3	Conductivity µs/cm	108.5	115.14	101.8	61.12	42.8	48.44	1398	66.1	80.35	83.4	78.75	93.11
4	Dissolved Oxygen mg/l	7.5	6.3	6.2	7	7.7	8	7.8	7.8	7	7.29	7.4	7.6
5	Turbidity (NTU)	2.41	2.85	3.08	9.55	44.2	5.85	4.21	2.01	2.33	2.79	2.15	2.81
6	Nitrite Nitrogen mg/l	0.002	0.002	0.003	0.004	0.01	0.003	0.006	0.002	0.004	0.003	0.001	0.003
7	Nitrogen(Nitrate) mg/l	0.02	0.016	0.01	0.12	0.89	0.1	0.11	0.041	0.44	0.097	0.06	0.04
8	Phosphate mg/l	0.002	0.019	0.008	0.02	0.63	0.005	ND	0.002	0.005	0.002	0.004	0.013
9	BOD mg/l	1.5	0.7	0.8	0.46	1.4	5.4	4.7	4.7	0.7	0.5	0.7	2.7
10	COD mg/l	9	80	11	2	17	7	7	6	14	5	9	6
11	Chloride mg/l	8	8.497	6.9	5.3	1.5	2.5	3.5	7	4.4	9.29	9.29	10
12	Fecal Coliform MPN/100 ml	230	2400	1300	2400	2400	790	490	490	230	230	230	230
13	Total Coliform MPN/100 ml	460	5400	2200	5400	5400	2400	790	790	490	490	330	330
14	Ammonia mg/l	0.04	0.046	0.03	0.09	0.05	0.01	0.163	6.088	0.077	0.01	0.02	0.026
15	Total Dissolved Solids(mg/l)	64	-	-	-	20	20	81	259	190	55	51	94
16	Total Fixed Solids (mg/l)	92	-	-	-	18	72	16	225	192	27	41	18
17	Total Suspended Solid (mg/l)	3	-	-	-	10	5	15	4	15	49	11	3
18	Hardness(mg/l)	36	-	-	-	8	18	18	72	42	26	28	22
19	Fluoride(mg/l)	0.42	-	-	-	0.15	0.1	BDL	0.28	0.009	0.11	0.29	0.46
20	Boron(mg/l)	145.5	-	-	-	1.4	2.46	5.51	2.99	0.176	0.54	0.2	8.62
21	Sulphate (mg/l)	3.13	-	-	-	6.9	1.64	1.19	0.66	3.33	2.77	1.87	3.6
22	Total Alkalinity(mg/l)	540	-	-	-	18	100	380	260	30	36	30	260
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	17.1	-	-	-	6.8	5	5.2	4.2	3.6	6.5	5.5	6.1
25	Potassium(mg/l)	15.1	-	-	-	2.7	2	2.6	0.3	1.4	3.7	0.1	1.7
26	Calcium as CaCO3(mg/l)	26	-	-	-	4	8	6	14	20	18	20	13
27	Magnesium(mg/l)	2.4	-	-	-	0.97	2.4	2.9	14.1	5.346	1.94	1.94	2.2

RIVER KHANDEPAR AT CODLI 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.31	7.3	6.9	6.83	6.59	6.59	6.85	6.95	7.2	6.48	7.16	7.4
2	Temperature °C	34	32	32.4	29	21	26.7	28.5	29	26.3	27	29	30.8
3	Conductivity µs/cm	88.3	83.35	89.2	53.48	41.7	156.6	1403	61.7	65.93	71.12	65.43	100.1
4	Dissolved Oxygen mg/l	7	6.1	7.4	7.36	7.2	8	7.6	7.1	7.6	7.98	7.8	7.7
5	Turbidity (NTU)	2.08	2.66	1.8	5.72	21.5	19.4	2.17	1.69	1.58	1.54	1.48	2.57
6	Nitrite Nitrogen mg/l	0.002	0.002	0.003	0.002	0.006	0.005	0.006	0.002	0.001	0.001	0.001	0.003
7	Nitrogen(Nitrate) mg/l	0.01	0.13	0.12	0.13	0.08	0.341	0.162	0.025	0.42	0.082	0.07	0.05
8	Phosphate mg/l	0.002	BDL	0.006	0.003	0.003	0.028	0.002	BDL	0.001	0.001	0.002	0.006
9	BOD mg/l	0.8	1.3	1	0.58	1.1	1.1	1.7	0.7	0.8	0.8	1	1.7
10	COD mg/l	9	80	9	2	4	33	29	13	17	5	11	5
11	Chloride mg/l	25	4.998	5.4	5	1.5	26.5	4	4.5	3.91	8.81	8.81	8.5
12	Fecal Coliform MPN/100 ml	130	1300	790	3500	3500	1300	2400	330	230	330	330	490
13	Total Coliform MPN/100 ml	230	1700	1700	9200	9200	5400	5400	460	460	790	490	1300
14	Ammonia mg/l	0.05	0.028	0.03	0.003	0.02	0.05	0.046	0.015	0.305	0.01	0.01	0.046
15	Total Dissolved Solids(mg/l)	48	-	-	-	25	13	279	170	37	43	43	134
16	Total Fixed Solids (mg/l)	81	-	-	-	22	96	92	167	29	36	37	52
17	Total Suspended Solid (mg/l)	1	-	-	-	20	41	14	3	10	30	11	2
18	Hardness(mg/l)	38	-	-	-	16	30	20	28	32	16	22	30
19	Fluoride(mg/l)	0.51	-	-	-	0.5	0.11	BDL	0.15	BDL	0.04	0.54	0.53
20	Boron(mg/l)	224	-	-	-	0.5	2.53	5.37	4.62	0.79	0.54	0.61	8.59
21	Sulphate (mg/l)	6.21	-	-	-	3.98	7.86	1.21	0.05	3.89	2.46	2.21	2.84
22	Total Alkalinity(mg/l)	400	-	-	-	20	120	280	340	24	40	24	320
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	21	-	-	-	5.6	17.8	5.4	2.4	3.3	6.9	5.1	6
25	Potassium(mg/l)	15.2	-	-	-	2.5	3.6	2.5	0.2	1.1	3.7	0.3	1.9
26	Calcium as CaCO3(mg/l)	22	-	-	-	6	20	10	10	18	16	16	16
27	Magnesium(mg/l)	3.9	-	-	-	2.4	2.4	2.4	4.4	3.4	0	1.46	3.4

RIVER KUSHAWATI NEAR BUND AT KEVONA, RIVONA, SANGUEM 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.84	7.25	7.08	6.3	6.11	6.51	7.63	6.9	6.72	6.81	6.91	6.59
2	Temperature °C	32	31	29.8	26.8	26.9	27.6	29	27	27	25	26	27
3	Conductivity µs/cm	160.2	181.2	114.9	120.24	84.78	56.08	1405	74.64	92.1	119	135.2	148.9
4	Dissolved Oxygen mg/l	6.4	6.5	6.6	6.3	6	7.6	7.3	7.9	7.4	7	7.5	5.9
5	Turbidity (NTU)	1.32	2.82	5.82	5.58	27.3	11.7	4.03	3.3	3.43	2.39	0.96	1.45
6	Nitrite Nitrogen mg/l	0.001	0.003	0.004	0.002	0.004	0.001	0.001	0.001	0.002	0.002	0.003	0.003
7	Nitrogen(Nitrate) mg/l	0.01	0.07	0.08	2.11	0.73	0.18	0.12	0.15	0.219	0.2	0.1	0.16
8	Phosphate mg/l	0.01	0.004	0.01	0.02	0.02	0.008	0.03	0.017	0.001	0.07	0.005	BDL
9	BOD mg/l	1.8	1.1	0.6	0.6	1.3	1.1	0.7	1.8	0.5	1.5	1.8	1.8
10	COD mg/l	1	6	6	3	12	15	14	6	19	10	6	2
11	Chloride mg/l	6.3	8.997	4.89	7.83	11.4	9.9	10	9	3.37	5.5	5	9.23
12	Fecal Coliform MPN/100 ml	4900	4900	4900	7900	7000	3300	3300	790	4900	3500	1300	1300
13	Total Coliform MPN/100 ml	7900	7900	7900	13000	11000	4600	7000	1300	13000	9200	2200	1700
14	Ammonia mg/l	0.28	0.028	0.02	0.04	0.02	0.01	0.002	0.033	0.06	0.006	0.03	0.19
15	Total Dissolved Solids(mg/l)	12	-	-	-	118	105	100	24	55	93	99	100
16	Total Fixed Solids (mg/l)	57.1	-	-	-	99	82	12	18	36	85	80	
17	Total Suspended Solid (mg/l)	4	-	-	-	6	7	75	3	32	15	20	7
18	Hardness(mg/l)	62	-	-	-	18	20	26	42	40	44	30	70
19	Fluoride(mg/l)	0.47	-	-	-	0.51	0.44	0.15	0.32	0.284	0.2	0.2	0.05
20	Boron(mg/l)	0.15	-	-	-	6.63	17.6	18	20.1	0.62	0.09	2.4	0.95
21	Sulphate (mg/l)	1.38	-	-	-	1.9	2.6	0.67	1.3	1.771	1.8	2.4	2.9
22	Total Alkalinity(mg/l)	12	-	-	-	22	82	30	156	34	72	58	62
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	17.2	-	-	-	21.1	7.4	13.4	43.5	6.1	6.5	7.38	8.5
25	Potassium(mg/l)	14.9	-	-	-	4	2.7	3	4.8	3.3	4	0.4	2.1
26	Calcium as CaCO3(mg/l)	16	-	-	-	8	18	20	40	1.1	24	18	14
27	Magnesium(mg/l)	5.3	-	-	-	2.4	0.5	1.5	0.49	5.35	4.9	2.9	9

RIVER TALPONA AT CANACONA 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	6.51	6.45	6.53	6.67	7.3	6.15	6	7.43	7.24	6.19	6.83	6.9
2	Temperature °C	36.5	34	32.2	27.1	26.7	27.4	29.4	29.2	27	28.4	28	28.1
3	Conductivity µs/cm	76.4	75.14	69.01	51.99	45.26	45.71	2.394	52.74	53.7	54.64	58.8	74.77
4	Dissolved Oxygen mg/l	6.9	8.9	7.8	7.3	7.3	6.6	7.5	7.5	7.8	7.4	7.6	6.3
5	Turbidity (NTU)	1.51	3.91	4.93	31.2	29.5	78.1	2.72	2.38	1.29	1.75	1.81	1.93
6	Nitrite Nitrogen mg/l	0.001	0.003	0.002	0.003	0.009	0.001	0.002	0.001	0.002	0.002	BDL	0.002
7	Nitrogen(Nitrate) mg/l	0.03	0.04	0.10	0.22	0.113	0.13	0.08	0.272	0.057	0.01	0.01	0.33
8	Phosphate mg/l	0.005	0.01	BDL	0.02	0.033	0.013	0.33	0.009	0.076	0.004	0.006	0.001
9	BOD mg/l	1.6	3.3	2.4	0.9	0.2	1.3	0.6	1.4	0.9	1.2	1.7	1.8
10	COD mg/l	12	17	8	2	3	14	3	BDL	8	12	12	2.0
11	Chloride mg/l	4.86	8.81	3.86	5.3	3.26	4.4	4.4	3.9	3.4	6	5.8	9.29
12	Fecal Coliform MPN/100 ml	2300	4900	780	4900	7000	4900	1300	1100	170	790	230	240
13	Total Coliform MPN/100 ml	3300	7000	1300	7900	9400	7900	2300	2200	330	1100	330	920
14	Ammonia mg/l	0.02	0.02	0.07	0.02	0.03	0.054	0.01	0.053	0.048	0.02	0.01	0.09
15	Total Dissolved Solids(mg/l)	26	-	-	-	37	35	40	38	35	329	345	56
16	Total Fixed Solids (mg/l)	88.49	-	-	-	10	13	19	16	10	512	681	58
17	Total Suspended Solid (mg/l)	5	-	-	-	66	94	2	2		6	7	4
18	Hardness(mg/l)	18	-	-	-	0	0	10	14	24	18	17	24
19	Fluoride(mg/l)	0.46	-	-	-	0.039	BDL	BDL	BDL	0.35	0.07	0.2	0.15
20	Boron(mg/l)	0.09	-	-	-	0.24	1.94	0.873	1.51	8.51	0.56	2.2	1.58
21	Sulphate (mg/l)	1.86	-	-	-	5	6.42	2.54	1.65	3.33	6.02	1.6	2.33
22	Total Alkalinity(mg/l)	2	-	-	-	10	30	26	22	20	200	34	26
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0		0	0	0	0
24	Sodium(mg/l)	17.9	-	-	-	5.5	4.6	6	3.7	3.7	6.8	5.2	9.1
25	Potassium(mg/l)	15.1	-	-	-	2.3	2.2	2.6	0.4	1.1	3.8	0.3	2.2
26	Calcium as CaCO3(mg/l)	4.8	-	-	-	0	0	6	8	12	8	8	14
27	Magnesium(mg/l)	1.5	-	-	-	0	0	1	1.46	2.92	2.4	2.1	2.43

RIVER SAL AT PAZORCONI, CUNCOLIM 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	6.1	6.22	6.09	7.2	6.1	6.18	6.5	6.82	7.05	6.02	6.55	6.12
2	Temperature °C	32.3	31.5	30.3	27.8	28	28.1	28.5	27.9	28	27.7	27	28
3	Conductivity µs/cm	70.1	180.54	86.15	69.76	65.18	89.77	2.39	80.18	78.97	78.76	78.8	80.83
4	Dissolved Oxygen mg/l		6.6	6	6.1	7.2	7	6.5	7	6.2	5.2	4.8	5.5
5	Turbidity (NTU)	13.7	5.83	17.5	12.4	9.17	86.03	9.47	8.61	6.31	8.5	7.01	6.22
6	Nitrite Nitrogen mg/l	0.02	0.005	0.006	0.009	0.005	0.001	0.007	0.005	0.005	0.27	0.02	0.004
7	Nitrogen(Nitrate) mg/l	0.38	0.09	0.13	0.35	0.289	0.41	0.26	0.284	0.277	0.008	0.2	1.13
8	Phosphate mg/l	0.01	0.02	0.003	0.02	0.029	0.007	0.015	0.013	0.005	0.004	0.01	0.02
9	BOD mg/l		4	1.6	0.5	1.2	2	1.1	1.7	1.6	1.5	2.9	1.4
10	COD mg/l	4	16	10	7	8	2	4	4	10	11	12	8.0
11	Chloride mg/l	4.86	8.32	6.75	8.68	6.8	11.7	10.8	7.3	7.28	8	1500	12.23
12	Fecal Coliform MPN/100 ml	7900	4900	4900	7900	11000	4900	11000	13000	7900	4900	4900	3300
13	Total Coliform MPN/100 ml	11000	13000	7900	13000	17000	7900	22000	22000	17000	7900	7000	4900
14	Ammonia mg/l	0.3	0.05	0.16	0.05	0.083	0.013	0.032	0.05	0.146	0.04	0.1	BDL
15	Total Dissolved Solids(mg/l)	55	-	-	-	44	64	60	57	60	99	111	152
16	Total Fixed Solids (mg/l)	95.9	-	-	-	18	22	25	23	20	92	98	31
17	Total Suspended Solid (mg/l)	14	-	-	-	20	24	14	78		5	7	4
18	Hardness(mg/l)	28	-	-	-	0	0	16	27.2	20	220	16	22
19	Fluoride(mg/l)	6.48	-	-	-	BDL	0.22	0.1	BDL	0.05	0.17	0.05	0.02
20	Boron(mg/l)	0.08	-	-	-	0.646	1.1	0.7	2	0.89	0.45	2.8	0.82
21	Sulphate (mg/l)	2.85	-	-	-	4.76	5.94	5.7	6.51	12.4	10.46	4.7	3.23
22	Total Alkalinity(mg/l)	0	-	-	-	14	30	20	22	16	160	28	26
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	-	0	0	0	0.1
24	Sodium(mg/l)	15.3	-	-	-	7.6	10	9.9	6	6.4	7.3	6.2	12.8
25	Potassium(mg/l)	15.1	-	-	-	2.6	2.8	3.7	0.9	1.7	4.1	0.6	2.0
26	Calcium as CaCO ₃ (mg/l)	4.8	-	-	-	0	0	12	10	10	140	10	10
27	Magnesium(mg/l)	3.9	-	-	-	0	0	1	4	2.43	19.4	1.5	2.92

RIVER SAL AT MOBOR 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.62	7.82	6.5	7.5	6.74	7.86	7.4	7.85	8.15	6.77	8.12	7.75
2	Temperature °C	32.9	30	28.3	25.7	28.5	29.5	31	29	28	27.6	28.9	29
3	Conductivity µs/cm	46000	48500	18250	3020	15.22	44700	48570	51690	52900	54820	52080	51700
4	Dissolved Oxygen mg/l	5.3	4.2	5.3	5.6	6.89	4.9	3.7	5.2	6.2	6.9	6.5	6.2
5	Turbidity (NTU)	19.1	53.6	13	27.9	8.98	3.7	3.14	6.42	4.27	2.62	3.92	3.03
6	Nitrite Nitrogen mg/l	0.009	0.04	0.0102	0.022	0.01	0.055	0.01	0.0014	0.003	0.002	0.01	0.005
7	Nitrogen(Nitrate) mg/l	0.02	0.05	0.15	0.25	0.2	0.08	0.15	0.2	0.098	0.02	0.08	0.09
8	Phosphate mg/l	0.03	0.14	0.06	0.06	0.02	0.039	0.03	0.092	0.028	0.02	0.003	0.03
9	BOD mg/l	1.3	2.4	2.2	0.3	-	1.4	1.2	0.9	1.1	0.2	2.1	1.8
10	COD mg/l	38	51	25	17	23	20		22			-	-
11	Chloride mg/l	17241	17119.7	6748	1000	5298	4124	24851.9	30526.7	22118	22618	13496	27444.7
12	Fecal Coliform MPN/100 ml	780	11000	4900	7900	4900	3300	49	2300	780	490	460	330
13	Total Coliform MPN/100 ml	1300	17000	13000	11000	9400	4900	940	4600	11000	790	700	460
14	Ammonia mg/l	0.06	0.29	0.21	0.11	0.1	0.003	0.04	0.011	0.062	0.06	0.32	0.05
15	Total Dissolved Solids(mg/l)	14164	-	-	-	350	320	76762	37520	48517	20566	21559	15324
16	Total Fixed Solids (mg/l)	28328	-	-	-	110	105		30510	281	16000	16418	6734
17	Total Suspended Solid (mg/l)	62	-	-	-	35	40	200	114	108	69	74	42
18	Hardness(mg/l)	5600	-	-	-	2400	20	6900	7000	14000	12500	3600	9200
19	Fluoride(mg/l)	BDL	-	-	-	0.76	1.45	1.54	1.378	1049	1.57	0.53	1.21
20	Boron(mg/l)	1.7	-	-	-	3.87	3.1	4.69	7.881	5.33	1.8	3.68	2.94
21	Sulphate (mg/l)	1278.7	-	-	-	1926.5	2189	2176.8	2973.6	1766.3	1610.8	659.37	101.9
22	Total Alkalinity(mg/l)	58	-	-	-	44	30	114	106	98	188	840	114
23	Phenolphthalein Alkalinity(mg/l)	2	-	-	-	0	0	0.3	0.7	0	0	0	14
24	Sodium(mg/l)	1700	-	-	-	2433	7482	8782	1495	10591	10232	4837	7184
25	Potassium(mg/l)	319.8	-	-	-	147.6	348.3	360.5	208.1	273.9	272.1	156.9	318.2
26	Calcium as CaCO3(mg/l)	400.8	-	-	-	1200	18	1000	1300	1200	3000	800	4400
27	Magnesium(mg/l)	1117.8	-	-	-	291.6	0.5	1433.7	1385	3110.4	2308.5	680.4	1166.4

RIVER BICHOLIM, BARAZAN NAGAR, BICHOLIM 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	6.44	6.3	6.08	6.4	6.3	6.45	7.26	6.45	7.55	7.53	6.9	7.12
2	Temperature °C	33.2	32	31.2	28	28.9	29.3	29.9	29.3	27.6	29.5	27	29
3	Conductivity µs/cm	181.3	147.43	126.85	80.7	176.81	83.6	4.64	84.2	105.18	136.67	132.38	175
4	Dissolved Oxygen mg/l	7	5.3	6	6.6	4.77	7.1	7.2	7.7	8.2	10.3	7.9	6.8
5	Turbidity (NTU)	3.76	9.1	13.6	12	5.04	4.37	8.06	3.85	3.05	6.94	8.5	15.8
6	Nitrite Nitrogen mg/l	0.007	0.009	0.011	0.002	0.096	0.004	0.004	0.003	0.008	0.04	0.007	0.013
7	Nitrogen(Nitrate) mg/l	0.23	0.34	0.73	0.3	0.96	0.45	0.33	0.162	0.226	0.11	0.13	0.15
8	Phosphate mg/l	0.008	0.01	0.012	0.005	0.016	0.028	BDL	0.009	0.018	0.035	0.01	0.02
9	BOD mg/l	2.23	1	2.1	1.2	1.5	1.3	1.1	1.4	1.5	4.2	1.8	4.0
10	COD mg/l	13	7	3	6	10	6	8	24	6	7	12	19.0
11	Chloride mg/l	15.2	12.2	11.74	8.7	17.12	9.29	9.71	8.81	9.29	13.21	15.17	14.7
12	Fecal Coliform MPN/100 ml	17000	17000	13000	11000	7900	7900	11000	7900	7900	13000	13000	17000
13	Total Coliform MPN/100 ml	35000	35000	17000	14000	11000	13000	17000	13000	13000	17000	22000	22000
14	Ammonia mg/l	0.17	0.05	0.07	0.04	0.136	0.004	0.01	0.141	0.029	0.034	0.01	0.002
15	Total Dissolved Solids(mg/l)	100	-	-	-	168	147		46	303	32838	435	400
16	Total Fixed Solids (mg/l)	45	-	-	-	65	54		10	140	20386	217	200
17	Total Suspended Solid (mg/l)	9	-	-	-	8	12		11	10	22	10	10
18	Hardness(mg/l)	64	-	-	-	34	14	28	28	34	44	48	56
19	Fluoride(mg/l)	0.16	-	-	-	0.56	0.03	0.02	0.03	0.03	0.133	0.01	0.58
20	Boron(mg/l)	0.36	-	-	-	0.04	8.42	6.98	18.59	3.69	-	3.2	5.4
21	Sulphate (mg/l)	5.96	-	-	-	5.32	1.45	1.95	2	2.02	6.8	217	5.6
22	Total Alkalinity(mg/l)	32	-	-	-	28	13	34	32	46	16	46	52
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	5.3	-	-	-	3.3	5.7	7.1	5.2	7.8	2408	8.3	13.1
25	Potassium(mg/l)	14.7	-	-	-	1.8	2.2	3.2	0.6	3.9	113	0.5	0.4
26	Calcium as CaCO3(mg/l)	38	-	-	-	32	6	22	14	22	24	26	54
27	Magnesium(mg/l)	54.8	-	-	-	0.49	1.9	1.46	3.4	2.92	4.86	5.3	0.5

MAYEM LAKE AT MAYEM 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	6.42	6.53	6.01	7.3	6.18	6.52	6.1	6.38	6.84	7.51	6.47	7.07
2	Temperature °C	35.3	34.1	31.1	28.5	28	29	31.6	28.5	30.4	27.5	29	28.5
3	Conductivity µs/cm	44.2	43.9	38.57	36.54	36.15	41.46	1.896	41.56	40.34	39.52	40.61	46500
4	Dissolved Oxygen mg/l	6.9	6.7	9.7	8.2	7.81	5.3	7.5	6.1	6.8	7.8	7.8	7.41
5	Turbidity (NTU)	5.34	9.2	8.67	19.3	3.93	1.58	2.08	3.42	1.84	3.31	3.83	3.65
6	Nitrite Nitrogen mg/l	0.004	0.008	0.007	0.038	0.004	0.001	0.002	0.002	0.002	0.003	0.001	0.003
7	Nitrogen(Nitrate) mg/l	0.006	0.1	0.02	0.07	0.23	0.045	0.1	0.03	0.001	0.42	0.04	0.01
8	Phosphate mg/l	0.009	0.03	0.03	0.007	0.011	0.001	0.01	0.01	0.018	0.01	0.004	0.006
9	BOD mg/l	2.34	1.9	2.9	3.8	0.31	0.5	1.5	0.6	0.9	1.3	1.6	1.8
10	COD mg/l	27	29	22	12	11	6	13	17	7	13	7	4.0
11	Chloride mg/l	8.3	6.34	4.89	3.89	5.38	6.36	5.83	6.36	6.85	5.87	9.29	6.2
12	Fecal Coliform MPN/100 ml	13000	13000	11000	4900	7000	3300	4600	4900	1300	1300	4900	3300
13	Total Coliform MPN/100 ml	22000	35000	14000	7900	9400	4900	7000	7000	2300	2300	7900	4900
14	Ammonia mg/l	0.16	0.03	0.02	0.01	0.013	0.064	0.006	0.054	0.007	0.025	0.01	0.007
15	Total Dissolved Solids(mg/l)	26	-	-	-	59	46		72	109	321	89	99
16	Total Fixed Solids (mg/l)	14	-	-	-	30	21		26	62	223	58	64
17	Total Suspended Solid (mg/l)	5	-	-	-	10	13		8	10	16	8	13
18	Hardness(mg/l)	12	-	-	-	6	6	12	20	14	400	10	20
19	Fluoride(mg/l)	0.14	-	-	-	0.51	0.12	0.02	0.03	0.02	0.176	0.08	0.1
20	Boron(mg/l)	0.11	-	-	-	0.03	6.87	0.63	37.31	4.01	4.066	3.48	7.0
21	Sulphate (mg/l)	7.79	-	-	-	1.73	1.26	2.03	0.91	0.9	1.66	58	1.9
22	Total Alkalinity(mg/l)	10	-	-	-	8	8	160	18	28	8	16	24
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	18.9	-	-	-	2.9	5.7	5.1	2.4	6.4	5.2	5.7	7.5
25	Potassium(mg/l)	15.2	-	-	-	1.8	2.2	2.5	0.1	3.8	1.4	0.4	1.1
26	Calcium as CaCO3(mg/l)	8	-	-	-	0	0	8	4	12	200	4	12
27	Magnesium(mg/l)	10.1	-	-	-	1.46	1.5	0.97	3.89	0.49	48.6	1.5	1.9

CUMBHARJUA CANAL, CORLIM 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.26	6.98	7.21	7.13	6.11	5.48	6.66	6.2	7.04	6.46	6.78	6.93
2	Temperature °C	32.2	31.9	30	29.8	29.2	28	29.8	29.1	29.6	28.4	27.7	29
3	Conductivity µs/cm	47900	43600	41600	15000	2318	296.2	10290	10860	22160	38440	34650	81080
4	Dissolved Oxygen mg/l	3.4	4.2	5	6.3	5.4	6.3	5.5	5.8	5.6	5.7	5.3	5.2
5	Turbidity (NTU)	13.4	145	11.6	9.59	4.9	3.6	7.28	16.7	6.24	10.01	8.04	13.7
6	Nitrite Nitrogen mg/l	0.03	0.019	0.013	0.021	0.003	0.003	0.007	0.006	0.006	0.01	0.02	0.004
7	Nitrogen(Nitrate) mg/l	0.6	0.085	0.03	0.07	0.1	0.15	0.1	0.061	0.053	0.45	0.03	0.002
8	Phosphate mg/l	0.02	0.03	0.01	0.03	0.006	0.016	0.016	0.028	0.034	0.02	0.02	0.002
9	BOD mg/l	2	5.7	3.4	2.3	6.6	1.4	1.3	1.2	1.7	1.5	1.4	1.7
10	COD mg/l	68	42	33	60	6	7				57	-	
11	Chloride mg/l	17220	18294	20547	445	124.96	199.9	3913.7	4158.3	9295	16829	42987	17318
12	Fecal Coliform MPN/100 ml	450	17000	7900	7900	7900	2300	4900	4600	3300	2300	790	460
13	Total Coliform MPN/100 ml	450	35000	13000	11000	13000	3300	11000	7000	7900	4900	1400	790
14	Ammonia mg/l	0.2	0.09	0.02	0.09	0.05	0.012	0.04	0.08	0.076	0.04	0.01	0.075
15	Total Dissolved Solids(mg/l)	35979	-	-	-	80	90	6586	7347	10152	24468	27169	33443
16	Total Fixed Solids (mg/l)	27383	-	-	-	50	60	1581	2182	4595	24397	16077	22635
17	Total Suspended Solid (mg/l)	30	-	-	-	10	20	52	46	43	105	95	40
18	Hardness(mg/l)	5900	-	-	-	88	14	958	1068	3800	14	2300	6000
19	Fluoride(mg/l)	1.11	-	-	-	0.79	1.14	0.9	0.13	0.97	1.305	0.3	0.67
20	Boron(mg/l)	16.93	-	-	-	1.83	1.2	9.38	9.12	3.91	-	4.7	8.95
21	Sulphate (mg/l)	1338.1	-	-	-	22.83	4	302.6	462	499.1	1549.7	715	1176.9
22	Total Alkalinity(mg/l)	120	-	-	-	16	200	42	58	82	24	90	108
23	Phenolphthalein Alkalinity(mg/l)	4	-	-	-	0	0	0	0	0	0.2	0	0
24	Sodium(mg/l)	1856	-	-	-	144.4	55.5	1429	572.7	4149	4972	7789	4742
25	Potassium(mg/l)	301.4	-	-	-	8.9	4.2	76.1	62	128.1	195.2	169.2	226.6
26	Calcium as CaCO3(mg/l)	900	-	-	-	20	8	180	190	1400	8	2750	1000
27	Magnesium(mg/l)	1215	-	-	-	16.5	1.5	189.1	213.4	583.2	1.458	4920	1215

RIVER ZUARI AT PANCHAWADI 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.16	7.1	6.65	7.6	6.43	6.81	6.9	6.55	6.6	6.65	7.07	6.63
2	Temperature °C	32.5	33	31.4	28	21	28.6	29.4	30.7	28	27	28.8	28.6
3	Conductivity µs/cm	6370	21350	21790	214.1	72.6	74.32	1626	72.8	9.35	11990	14670	13310
4	Dissolved Oxygen mg/l	5.8	4	5.5	6.3	7.6	7.8	8.1	6	5.7	5.59	5.7	5.7
5	Turbidity (NTU)	8.96	6.8	14.2	10.6	13	45.7	3.96	5.37	6.6	4.85	3.59	9.09
6	Nitrite Nitrogen mg/l	0.006	0.05	0.007	0.005	0.09	0.003	0.003	0.003	0.001	0.061	0.02	0.034
7	Nitrogen(Nitrate) mg/l	0.03	0.077	0.02	0.14	0.17	0.08	0.119	BDL	0.45	0.064	0.03	0.33
8	Phosphate mg/l	0.009	0.008	0.45	0.01	0.02	0.109	0.045	0.004	0.012	0.003	0.01	0.135
9	BOD mg/l	2.2	0.7	3.6	1.4	2.6	1.4	2	0.6	1.8	1.3	1.4	2
10	COD mg/l	9		33	5	7	11	14	8	11		-	18
11	Chloride mg/l	3546.8	7748	8683.5	44	8.5	10	17745	1250	3253.2	5870.5	5870.5	5123
12	Fecal Coliform MPN/100 ml	2300	2300	2300	4900	7000	4900	7000	4900	780	1100	1700	1300
13	Total Coliform MPN/100 ml	4900	4900	3300	7900	11000	7900	11000	7900	1300	1400	3300	2300
14	Ammonia mg/l	0.04	0.042	0.09	0.03	0.03	0.12	0.149	0.112	0.038	0.032	0.12	0.147
15	Total Dissolved Solids(mg/l)	4399	-	-	-	43	62	30930	710	8725	7058	10176	8060
16	Total Fixed Solids (mg/l)	3013	-	-	-	40	184	24197	708	4597	1659	7409	5077
17	Total Suspended Solid (mg/l)	22	-	-	-	17	60	150	BDL	50	35	4	29
18	Hardness(mg/l)	900	-	-	-	16	10	400	74	1004	3600	1000	400
19	Fluoride(mg/l)	0.26	-	-	-	0.87	0.07	0.72	0.04	0.106	0.36	0.87	0.73
20	Boron(mg/l)	0.76	-	-	-	1.07	2.36	4.6	2.48	0.132	6.33	1.57	9.49
21	Sulphate (mg/l)	64.5	-	-	-	5.6	9.9	117.6	BDL	499.1	410.5	419.7	1931
22	Total Alkalinity(mg/l)	42	-	-	-	24	100	1000	340	45	50	38	400
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	435.2	-	-	-	37.6	9.3	6675	94.9	1019	1949	2758	1292
25	Potassium(mg/l)	32.1	-	-	-	4.3	2.8	282.3	5.5	53.4	70	93	62.5
26	Calcium as CaCO3(mg/l)	200	-	-	-	12	6	360	16	170	1200	400	200
27	Magnesium(mg/l)	851.4	-	-	-	0.97	1	9.7	14.1	202.6	583.2	145.8	48.6

RIVER ZUARI AT CORTALIM 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.44	7.81	6.4	6.57	7.1	7.30	6.96	7.42	7.76	7.88	7.63	6.94
2	Temperature °C	32.5	32	29	27.5	27.5	28.0	29	30	27	28	28	28
3	Conductivity µs/cm	45300	49700	40420	1001	768.02	11	25560	38300	46600	48370	44800	43100
4	Dissolved Oxygen mg/l	5.7	5.3	4.8	5.6	7.3	7.2	5	5.9	5.4	5.1	5	4.9
5	Turbidity (NTU)	25.5	25.8	21.1	136	49.8	23.3	9.35	10.7	5.88	6.77	7.39	43.4
6	Nitrite Nitrogen mg/l	0.039	0.043	0.071	0.052	0.028	0.01	0.01	0.018	0.02	0.04	0.03	0.01
7	Nitrogen(Nitrate) mg/l	0.028	0.105	0.24	0.57	0.18	BDL	0.06	0.15	0.02	0.13	0.05	0.05
8	Phosphate mg/l	0.037	0.057	0.04	0.02	0.028	0.06	0.07	0.03	0.03	0.07	0.05	0.02
9	BOD mg/l	2.1	1.8	1.4	0.9	3.2	2.6	2.8	0.4	2.9	1.4	0.7	1.5
10	COD mg/l	37	16	40	9		16.0					-	-
11	Chloride mg/l	16998	3763.9	15120	250	205	#####	10296	14472.8	18843.8	19494	18744	21126
12	Fecal Coliform MPN/100 ml	3300	2300	7900	13000	4900	7900	4900	4900	1300	780	780	1300
13	Total Coliform MPN/100 ml	7900	4900	13000	17000	13000	13000	7900	7900	1700	1300	1300	2300
14	Ammonia mg/l	0.063	0.15	0.13	0.07	0.25	0.01	0.05	0.25	0.27	0.008	0.05	0.07
15	Total Dissolved Solids(mg/l)	42424	-	-	-	490	420	25708	27013	30797	22076	25321	30170
16	Total Fixed Solids (mg/l)	52654	-	-	-	106	110	22685	21768	28358	15121	19788	26157
17	Total Suspended Solid (mg/l)	20	-	-	-	17	20	36	38	94	46	64	81
18	Hardness(mg/l)	3300	-	-	-	46	64	3100	64000	2400	11500	10500	6500
19	Fluoride(mg/l)	1.4	-	-	-	ND	0.67	1.05	1.64	1.96	1.4	0.5	0.75
20	Boron(mg/l)	4.1	-	-	-	1.02	2.5	22.36	61.92		2.1	3.5	3.81
21	Sulphate (mg/l)	1278.7	-	-	-	93.42	173.3	420.5	659.24	2848.7	1585.6	1395.7	2589
22	Total Alkalinity(mg/l)	54	-	-	-	140	66	76	96	98	174	106	70
23	Phenolphthalein Alkalinity(mg/l)	4	-	-	-	0	0	0	0	0	0	0	4.0
24	Sodium(mg/l)	1671	-	-	-	138.4	1579	4262	1280	4841	9596	9302	5906
25	Potassium(mg/l)	314.7	-	-	-	9.1	100.2	206.2	176.8	246	246	276.1	247.0
26	Calcium as CaCO3(mg/l)	400.8	-	-	-	20	30	600	900	1000	3500	4000	2000
27	Magnesium(mg/l)	558.9	-	-	-	6.3	8.2	607.5	15333	340.2	1944	1579.5	1093

CREEK AT DANDO MOLLO, VELSAO, MORMUGAO 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	8.22	8.22	6.7	6.46	7.07	7.8	7.08	6.96	7.54	7.67	7.57	6.72
2	Temperature °C	34.3	30	27.6	28	29.7	29	31	30	28.4	27	29	29
3	Conductivity µs/cm	41.4	11060	19690	7930	580.01	2568	3276	4.62	19720	18090	9140	8300
4	Dissolved Oxygen mg/l	12.6	8.2	5.7	5.3	5.8	6.8	6.1	3.9	7.2	6.4	8.1	9.7
5	Turbidity (NTU)	6.45	2.3	15.1	24.8	6.46	4.87	3.68	5.41	4.43	1.69	1.37	1.63
6	Nitrite Nitrogen mg/l	0.28	0.236	0.115	0.06	0.03	0.011	0.07	0.007	0.08	0.11	0.2	0.58
7	Nitrogen(Nitrate) mg/l	3.56	2.52	4.84	3.68	0.86	0.09	7.68	0.39	3.03	3.7	10.4	13.37
8	Phosphate mg/l	0.51	0.138	1.6	0.45	0.033	0.108	0.58	0.019	0.21	0.8	0.2	0.15
9	BOD mg/l	7.1	4.2	2.6	0.7	0.9	2	1.6	3.5	2.6	1.9	2.1	2.8
10	COD mg/l	39	15	15	21	5	25		18		25	-	-
11	Chloride mg/l	14916	3278.24	6873	2800	125	999.6	1165.6	1408.43	6945.01	7497.7	4373.6	3521
12	Fecal Coliform MPN/100 ml	4900	7900	7900	13000	13000	13000	7900	11000	3300	7900	4600	3300
13	Total Coliform MPN/100 ml	7900	13000	11000	22000	17000	22000	14000	14000	7900	11000	7000	4900
14	Ammonia mg/l	0.31	0.523	2.49	0.33	0.23	0.2	0.63	0.97	4.2	0.003	14.3	1.98
15	Total Dissolved Solids(mg/l)	60078	-	-	-	455	450	1802	2504	12243	13592	15696	5644
16	Total Fixed Solids (mg/l)	49740	-	-	-	181	150	825	1942	13512	8582	10019	4736
17	Total Suspended Solid (mg/l)	41	-	-	-	4	5	9	14	26	18	17	20
18	Hardness(mg/l)	4700	-	-	-	74	22	400	8000	5900	7000	5000	3500
19	Fluoride(mg/l)	1.43	-	-	-	0.03	0.94	0.17	0.44	1.36	1	0.3	0.36
20	Boron(mg/l)	9.94	-	-	-	1.72	4.6	2.95	9.8	2.12	2.6	2.7	1.39
21	Sulphate (mg/l)	92.76	-	-	-	15.66	1377	51.3	69.77	288.7	235.66	303.2	79
22	Total Alkalinity(mg/l)	109	-	-	-	500	36	28	84	86	74	32	84
23	Phenolphthalein Alkalinity(mg/l)	16	-	-	-	0	0	0	0	0	0	0	8
24	Sodium(mg/l)	1657	-	-	-	97.7	394.2	327.5	343.4	2028	3256	1326	1102
25	Potassium(mg/l)	312	-	-	-	6.9	28.7	23.2	28.6	112	113	48.2	59.2
26	Calcium as CaCO3(mg/l)	900	-	-	-	48	12	68	150	600	1500	3000	1000
27	Magnesium(mg/l)	923.4	-	-	-	6.3	2.4	80.67	1907.55	1287.9	1336.5	486	607

RIVER MANDOVI NEAR MANDOVI BRIDGE, PANAJI 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.76	7.64	6.57	7.9	7.08	6.63	7.88	7.19	7.68	7	7.07	7.68
2	Temperature °C	31	32.6	31.8	31	28	29.1	29.3	31.5	28.7	27.8	29	28.2
3	Conductivity µs/cm	5051	49000	47140	42600	190.32	344	39190	36400	33320	43900	55600	46400
4	Dissolved Oxygen mg/l	4.6	4.9	4.6	6.1	7.7	7.1	4.6	5.5	4.9	5.5	5.3	5.7
5	Turbidity (NTU)	3.67	4.58	5.16	9.23	29.4	17.1	10.4	15.4	5.09	7.95	30.7	5.75
6	Nitrite Nitrogen mg/l	0.104	0.008	0.009	0.002	0.011	0.007	0.053	0.025	0.003	0.044	0.009	0.005
7	Nitrogen(Nitrate) mg/l	0.11	0.064	0.06	0.004	0.15	0.14	0.29	0.07	0.101	0.029	0.09	0.01
8	Phosphate mg/l	0.008	0.188	0.007	0.02	0.026	0.026	0.043	0.03	0.01	0.032	0.014	0.02
9	BOD mg/l	2.79	1.7	1.4	1.8	1.3	0.4	0.8	1.7	109	1.9	1.7	1.5
10	COD mg/l					11	4	45			-	-	-
11	Chloride mg/l	21734	18698.1	18712	15895	611.5	99.9	16120	17245	17994	16998	20441.9	26792
12	Fecal Coliform MPN/100 ml	450	1300	2300	1300	7900	3300	1700	3300	330	4900	3300	1700
13	Total Coliform MPN/100 ml	780	2300	3300	1700	17000	4900	2300	7000	490	7900	4600	3300
14	Ammonia mg/l	0.021	0.054	0.15	0.13	0.086	0.01	0.035	0.015	0.033	0.011	0.14	0.01
15	Total Dissolved Solids(mg/l)	46095	-	-	-	90	80	75	17	108	21950	32248	34537
16	Total Fixed Solids (mg/l)	30025	-	-	-	60	50	35	81	51	17749	20695	26905
17	Total Suspended Solid (mg/l)	154	-	-	-	12	18	15	47	20	2	215	14
18	Hardness(mg/l)	6000	-	-	-	12	20	5600	56	14800	6800	5840	13800
19	Fluoride(mg/l)	1.3	-	-	-	0.49	0.61	1.16	1	1.3	1.32	0.27	0.34
20	Boron(mg/l)	0.18	-	-	-	0.17	1.1	19	9.2	9.6	10	0.4	4.8
21	Sulphate (mg/l)	2835.6	-	-	-	8.93	7.6	337.5	544.5	910.6	1606.1	2332	1304.6
22	Total Alkalinity(mg/l)	18	-	-	-	12	40	204	102	66	88	96	94
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	1843	-	-	-	79.3	61.6	6739	11391	6265	9191	7534	8127.1
25	Potassium(mg/l)	342.4	-	-	-	3.1	5.3	286.8	276.4	180.5	278.2	214.8	265.7
26	Calcium as CaCO3(mg/l)	801.6	-	-	-	10	14	2200	52	3600	940	26	1800
27	Magnesium(mg/l)	972	-	-	-	0.49	1.5	826.2	0.97	2721.6	1424	1412	2916

RIVER MANDOVIAT TONCA MARCELA 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.2	6.25	6.11	7.25	6.2	6.36	6.75	6.45	7.02	6.6	7.15	6.99
2	Temperature °C	33	32.3	29.5	27	27	27	29	28.7	27.5	27	29	27
3	Conductivity µs/cm	39100	35570	1287	91.3	105.47	150.5	1868	6470	16680	23260	27860	30500
4	Dissolved Oxygen mg/l	5.2	4.8	7	7.6	7.2	7	6.8	6.2	5.4	6.4	6.2	5.1
5	Turbidity (NTU)	4.46	5.68	13	12.5	9.61	11.6	7.04	7.85	7.35	7.44	5.12	3.38
6	Nitrite Nitrogen mg/l	0.115	0.06	0.005	0.002	0.004	0.005	0.004	0.005	0.006	0.01	0.003	0.01
7	Nitrogen(Nitrate) mg/l	0.28	1.09	0.25	0.15	0.14	0.261	0.106	0.043	0.061	0.31	1.75	0.03
8	Phosphate mg/l	0.02	0.01	0.013	0.006	0.007	0.077	0.009	0.017	0.008	0.02	0.01	0.006
9	BOD mg/l	1.16	1.2	1.9	0.5	0.9	1.1	0.9	1.2	0.5	1.7	1.1	1.3
10	COD mg/l	25	23	13	7	15	10	12			35	-	-
11	Chloride mg/l	18223	13893.6	733.8	849.91	2568.4	636	244.6	2935.3	8561	8120.9	12230.3	12484
12	Fecal Coliform MPN/100 ml	1300	2300	4900	3300	4600	7900	4900	4900	2300	2300	4600	1300
13	Total Coliform MPN/100 ml	2300	4600	7900	4900	7000	13000	11000	9400	4600	3300	7000	2200
14	Ammonia mg/l	0.09	0.05	0.118	0.048	0.03	0.035	0.021	0.152	0.068	0.06	0.003	0.008
15	Total Dissolved Solids(mg/l)	25377	-	-	-	293	274	251	4195	16657	13129	20486	20017
16	Total Fixed Solids (mg/l)	20579	-	-	-	224	212	42	1191	11520	9119	5384	5000
17	Total Suspended Solid (mg/l)	116	-	-	-	13	15	4	25	25	77	12	10
18	Hardness(mg/l)	4600	-	-	-	4	14	44	628	1800	2800	3000	5600
19	Fluoride(mg/l)	1.46	-	-	-	0.5	0.11	0.77	0.09	0.77	1.01	0.31	0.87
20	Boron(mg/l)	2.43	-	-	-	0.16	5.84	10.02	11.92	5.31	2.5	16.63	6.1
21	Sulphate (mg/l)	3638.9	-	-	-	3.44	4.23	11.38	295.9	303.6	580.8	813.93	780
22	Total Alkalinity(mg/l)	46	-	-	-	12	22	26	48	68	52	58	70
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0.2	0	0
24	Sodium(mg/l)	1497	-	-	-	83.2	4.3	88.5	422.6	3103	2836	5165	2583
25	Potassium(mg/l)	271.9	-	-	-	2.5	2.1	5.9	37	101.7	130.1	152	167.2
26	Calcium as CaCO3(mg/l)	600	-	-	-	0	8	16	106	400	600	600	2000
27	Magnesium(mg/l)	4454.2	-	-	-	0.97	1.5	6.8	126.9	340	534.6	583	878.8

SELAULIM LAKE AT SELAULIM, SANGUEM 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.64	7.5	6.49	6.63	6.51	6.94	7.86	7.12	6.85	7.05	7.27	7.24
2	Temperature °C	31	30	29.4	27.2	27.4	29.5	32	29.5	29	27	27.2	
3	Conductivity µs/cm	48.7	53.8	50.5	49.75	44.18	44.07	1370	42.72	44.9	44.09	42.2	99.03
4	Dissolved Oxygen mg/l	7.8	6.8	6.2	7.6	7.7	8.3	7.8	7.8	7.5	6.4	7.6	7.8
5	Turbidity (NTU)	1.24	1.79	2.24	3.46	1.73	2.68	1.13	1.36	1.24	1.02	1.22	3.28
6	Nitrite Nitrogen mg/l	0.001	0.001	0.002	0.003	0.001	0.004	0.001	BDL	0.001	0.001	0.001	0.001
7	Nitrogen(Nitrate) mg/l	BDL	BDL	0.08	0.26	0.14	0.04	0.08	0.1	0.073	0.04	0.02	0.46
8	Phosphate mg/l	0.01	0.095	0.012	0.01	0.02	0.003	0.032	0.006	0.002	0.01	0.01	0.003
9	BOD mg/l	1.8	1.5	0.3	1.2	0.4	1.4	0.5	1.8	0.9	0.7	1.2	3.8
10	COD mg/l	5	13	9	5	11	7	13	1	18	1		
11	Chloride mg/l	5.3	24.49	5.87	3.91	10.93	4.5	10.5	9	1.93	3	5	14.6
12	Fecal Coliform MPN/100 ml	790	130	130	130	130	78	78	23	2	2	-	4.5
13	Total Coliform MPN/100 ml	2400	210	170	240	240	130	140	79	4	4.5	4.5	7.8
14	Ammonia mg/l	0.13	0.04	0.008	0.08	0.02	0.013	0.005	0.046	0.19	0.07	0.01	0.06
15	Total Dissolved Solids(mg/l)	22	-	-	-	84	54	50	27	26	201	191	48
16	Total Fixed Solids (mg/l)	75	-	-	-	67	40	10	13	9	73	68	-
17	Total Suspended Solid (mg/l)	3	-	-	-	4	9	38	3	2	3	4	2
18	Hardness(mg/l)	12	-	-	-	10	40	8400	78	14	20	62	18
19	Fluoride(mg/l)	0.54	-	-	-	0.57	0.62	0.1	0.47	0.063	0.1	0.05	0.004
20	Boron(mg/l)	0.69	-	-	-	6.5	15.2	25	13.7	1.23	0.1	2.6	0.76
21	Sulphate (mg/l)	2.46	-	-	-	3.11	1.9	0.4	1.1	0.897	0.9	12.5	6.4
22	Total Alkalinity(mg/l)	BDL	-	-	-	18	64	30	242	38	20	28	20
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	17.8	-	-	-	4.3	5786	453	24.3	3.2	6.9	12.1	3.8
25	Potassium(mg/l)	15.8	-	-	-	2.1	4.1	12.8	4.2	1.1	4	0.6	1.5
26	Calcium as CaCO3(mg/l)	3.21	-	-	-	4	32	1800	22	10	8	6	3
27	Magnesium(mg/l)	0.97	-	-	-	1.5	2	1603.8	13.6	0.97	2.9	13.6	2.4

AGRICULTURAL CANAL UPSTREAM OF CUNCOLIM INDUSTRIAL ESTATE 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	6.93	6.31	Canal was dry	5.56	6	6.49	6.4	Canal was dry	Canal was dry	5.88	6.72	6.84
2	Temperature °C	32.5	32		27	29.4	29.9	28.9			27.4	27	27.5
3	Conductivity µs/cm	51.1	54.36		65.27	65.9	54.55	22.45			45.92	52.9	67.03
4	Dissolved Oxygen mg/l	7.4	7.1		5.2	6.7	9.1	4.4			8.2	9.3	8.1
5	Turbidity (NTU)	1.92	1.99		0.89	3.91	18.8	1.6			2.16	1.29	1.83
6	Nitrite Nitrogen mg/l	0.0004	0.002		0.001	0.003	0.002	0.011			0.002	0.002	0.002
7	Nitrogen(Nitrate) mg/l	0.002	0.08		0.75	1.05	0.02	2.12			0.03	0.02	0.58
8	Phosphate mg/l	0.0003	0.004		0.01	0.165	0.04	0.01			0.001	0.008	0.002
9	BOD mg/l	0.5	2.8		0.3	0.7	4.1	1.6			1.3	1.8	1.2
10	COD mg/l	5	10		5	4	5	13			2	5	9.0
11	Chloride mg/l	3.4	5.87		9.64	8.26	7.3	78.8			4.5	5	10.76
12	Fecal Coliform MPN/100 ml	2300	3300		2400	3500	2400	130			2400	1700	2400
13	Total Coliform MPN/100 ml	3300	4900		3500	5400	5400	330			5400	3500	3500
14	Ammonia mg/l	0.01	0.02		0.002	0.005	0.06	0.049			0.02	0.002	0.04
15	Total Dissolved Solids(mg/l)	14	-		-	44	43	-			60	69	49
16	Total Fixed Solids (mg/l)	81	-		-	16	15	-			32	41	50
17	Total Suspended Solid (mg/l)	4	-		-	25	58	-			3	4	2
18	Hardness(mg/l)	10	-		-	0	0	78			30	12	62
19	Fluoride(mg/l)	0.38	-		-	BDL	BDL	BDL			0.02	0.2	
20	Boron(mg/l)	0.07	-		-	1.63	0.84	0.995			0.51	2.6	1.28
21	Sulphate (mg/l)	0.76	-		-	1.29	5.29	61.6			3.94	1.8	2.45
22	Total Alkalinity(mg/l)		-		-	14	24	28			160	30	30
23	Phenolphthalein Alkalinity(mg/l)	0	-		-	0	0	0			0	0	0
24	Sodium(mg/l)	22.5	-		-	6.6	5.6	-			6.2	6.4	10.7
25	Potassium(mg/l)	15.3	-		-	2.1	3	-			3.7	1.8	1.8
26	Calcium as CaCO3(mg/l)	3.2	-		-	0	0	26			26	5	12.0
27	Magnesium(mg/l)	0.5	-		-	0	0	12.6			1	1.7	12.15

AGRICULTURAL CANAL DOWNSTREAM OF CUNCOLIM INDUSTRIAL ESTATE 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	6.8	6.34	6.05	6.12	5.59	5.76	6.3	6.16	Canal was dry	5.79	7.08	6.41
2	Temperature °C	33	32	32.7	29	29.2	29.9	29	28		27.6	27	27.3
3	Conductivity µs/cm	52.8	66.02	498.19	484.16	422.58	471.1	27.35	633.94		53.71	52.3	71.66
4	Dissolved Oxygen mg/l	7.7	7.6	8.7	4.9	5.8	5.4	5	4.2		8.8	7.9	8.2
5	Turbidity (NTU)	1.7	2.05	1.32	1	12.3	2.04	0.88	0.77		1.73	1.28	1.67
6	Nitrite Nitrogen mg/l	0.0004	0.001	0.019	0.004	0.009	0.001	0.013	0.007		0.15	0.002	0.002
7	Nitrogen(Nitrate) mg/l	BDL	0.07	3.78	3.55	0.691	3.46	1.13	5.7		0.003	0.02	0.28
8	Phosphate mg/l	0.002	0.31	BDL	0.01	0.01	0.002	0.004	0.011		0.001	0.008	0.001
9	BOD mg/l	1.4	3.5	0.1	0.2	0.3	0.9	0.7	1		2.4	1.2	1.1
10	COD mg/l	14	14	6	7	4	2	6	2		4	9	11
11	Chloride mg/l	3.4	7.34	41.46	31.34	27.2	33.8	51.9	47.9		4.5	4	11.25
12	Fecal Coliform MPN/100 ml	3300	4900	3500	1300	2400	230	330	4900		3500	2400	2500
13	Total Coliform MPN/100 ml	4900	7900	9200	2400	3500	330	790	7900		9200	5400	5400
14	Ammonia mg/l	0.01	0.05	0.088	0.33	0.252	0.14	0.086	0.142		0.01	0.004	0.04
15	Total Dissolved Solids(mg/l)	30	-	-	-	283	324	410	440		65	72	21
16	Total Fixed Solids (mg/l)	87.42	-	-	-	17	245	255	265		55	58	32
17	Total Suspended Solid (mg/l)	3	-	-	-	13	2	8	16		5	6	1
18	Hardness(mg/l)	12	-	-	-	58	112	156	168		260	27	24
19	Fluoride(mg/l)	0.48	-	-	-	0.284	0.34	0.257	0.33		BDL	0.06	
20	Boron(mg/l)	0.09	-	-	-	0.214	4.61	1.08	0.47		0.42	3.1	0.92
21	Sulphate (mg/l)	BDL	-	-	-	91.9	136.9	134	12.2		3.82	1.8	2.26
22	Total Alkalinity(mg/l)	2	-	-	-	16	30	42	26		180	28	22
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0			0	0	0
24	Sodium(mg/l)	22.8	-	-	-	61.2	66.9	81.4	42.3		6.3	6.8	11.7
25	Potassium(mg/l)	15.3	-	-	-	7.7	10.6	13.4	9.9		3.7	1.4	1.8
26	Calcium as CaCO3(mg/l)	4	-	-	-	13.6	46	58	80		100	14	14
27	Magnesium(mg/l)	0.5	-	-	-	5.83	16	23.8	21.4		38.9	3.1	2.43

RUMDER LAKE, NUVEM 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	6.5	7.08	5.9	5.9	6.13	6.5	6.94	6.45	6.4	7.71	6.76	7.49
2	Temperature °C	32.1	31	26.6	25.6	28.5	28.3	32.7	28	29	26.1	29	28.7
3	Conductivity µs/cm	150.6	156.5	74.85	62.8	78	80.5	1362	124.96	127.08	126.84	141.79	128.4
4	Dissolved Oxygen mg/l	2.9	4.7	5	5.6	5.51	6.1	5.5	0.4	4	4	3.5	4.0
5	Turbidity (NTU)	9.75	10.2	65.9	27.8	17	27.6	19.5	20.9	13.1	14.3	21	7.71
6	Nitrite Nitrogen mg/l	0.003	0.05	0.028	0.027	0.01	0.062	BDL	0.044	0.006	0.002	0.011	0.003
7	Nitrogen(Nitrate) mg/l	BDL	0.21	0.56	0.31	0.3	0.51	1.93	1.28	0.086	0.09	0.261	0.08
8	Phosphate mg/l	0.008	0.02	0.09	0.07	0.02	0.075	0.01	0.105	0.033	0.04	0.182	0.01
9	BOD mg/l	1.4	4.7	1.7	1.2	NA	2.1	0.8		3	3.2	2.4	3.1
10	COD mg/l	12	24	4	7	9	16	4	14	19	18	-	19
11	Chloride mg/l	22.3	14205	17.99	125	1199.6	99.9	13.7	14.19	18.99	20	10	23.48
12	Fecal Coliform MPN/100 ml	7900	17000	17000	7900	4900	7900	2300	4900	780	790	1700	2300
13	Total Coliform MPN/100 ml	17000	35000	35000	11000	7000	13000	4900	7900	1300	1100	3300	3300
14	Ammonia mg/l	0.03	0.58	0.12	0.85	0.06	0.026	0.06	0.368	0.34	0.001	0.488	0.16
15	Total Dissolved Solids(mg/l)	84	-	-	-	38	35	155	160	28	610	707	56
16	Total Fixed Solids (mg/l)	168	-	-	-	25	20	-	115	16	498	533	13
17	Total Suspended Solid (mg/l)	20	-	-	-	14	12	61	84	20	6	11	11
18	Hardness(mg/l)	2500	-	-	-	24	82	20	32	1200	32	78	40
19	Fluoride(mg/l)	0.66	-	-	-	0.4	0.86	0.02	0.061	0.37	0.16	0.72	0.27
20	Boron(mg/l)	0.05	-	-	-	0.9	3.7	0.64	4.661	4.57	2.1	3.44	3.03
21	Sulphate (mg/l)	6.32	-	-	-	7.1	3.9	1.9	8.21	22.88	2	15.17	1.42
22	Total Alkalinity(mg/l)	24	-	-	-	20	96	26	40	36	56	740	38
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	10.5	-	-	-	11.2	12	9.8	9.1	18.6	17.8	42	9.5
25	Potassium(mg/l)	14.5	-	-	-	3	4.1	3.8	4	5.3	5.2	2.7	2.5
26	Calcium as CaCO3(mg/l)	481	-	-	-	14	42	14	18	800	24	36	24
27	Magnesium(mg/l)	315.9	-	-	-	2.4	9.7	1.46	3.4	97.2	1.9	10.2	3.9

RIVER SAL AT ORLIM BRIDGE 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.37	7.14	6.36	5.71	7.46	7	6.85	7.78	7.1	6.98	7.24	6.74
2	Temperature °C	33.3	31	27.3	25.1	29.5	30.7	32.7	30	29	27.8	28	29
3	Conductivity µs/cm	16860	15320	1244	159.1	356	397	5.448	5093	25440	29250	29430	15060
4	Dissolved Oxygen mg/l	6.8	7.1	3.6	5	3.84	5.2	4.4	3.8	5.1	5.7	4.7	5.5
5	Turbidity (NTU)	8.43	11.1	46.8	22	9.41	10.6	4.61	6.93	8.55	7.53	4.55	4.94
6	Nitrite Nitrogen mg/l	0.033	0.003	0.035	0.035	0.01	0.028	0.02	0.04	0.012	0.01	0.005	0.020
7	Nitrogen(Nitrate) mg/l	0.07	0.07	0.35	0.41	0.35	0.44	0.87	0.69	0.196	0.19	0.006	0.14
8	Phosphate mg/l	0.06	0.04	0.1	0.05	0.01	0.045	0.02	0.036	0.009	0.03	BDL	0.05
9	BOD mg/l	4.7	3.4	2.6	1.3	NA	2.6	2.2	1.6	2.4	2.5	3	3.0
10	COD mg/l	27	12	10	12	13	29	9	18			13	-
11	Chloride mg/l	6265.1	22340.6	1999	26	28	124.9	1311.08	1761.16	1.2496	11996	20744	12719.5
12	Fecal Coliform MPN/100 ml	2300	17000	7900	4900	4900	4900	2300	7000	3300	2300	2300	1300
13	Total Coliform MPN/100 ml	4900	28000	17000	7900	7900	13000	3300	11000	4900	3300	3300	3300
14	Ammonia mg/l	0.64	0.16	0.79	0.03	0.07	0.023	0.07	0.255	0.126	0.09	0.157	0.45
15	Total Dissolved Solids(mg/l)	13394	-	-	-	190	172	2624	3185	3452	47899	49500	10886
16	Total Fixed Solids (mg/l)	17828	-	-	-	80	70	-	2415	36	19000	19856	3727
17	Total Suspended Solid (mg/l)	26	-	-	-	25	30	33	16	19	154	166	31
18	Hardness(mg/l)	2200	-	-	-	42	22	600	2300	8000	9500	8600	1116
19	Fluoride(mg/l)	1.19	-	-	-	0.65	0.68	0.22	0.388	1.12	1.25	0.46	0.65
20	Boron(mg/l)	0.16	-	-	-	2.9	3.2	3.56	4.915	4.9	3.4	13.64	4.07
21	Sulphate (mg/l)	657.3	-	-	-	10.5	12.3	82.56	160.56	517.1	652.1	1474.72	99.06
22	Total Alkalinity(mg/l)	54	-	-	-	24	56	54	58	68	152	1060	104.0
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	4
24	Sodium(mg/l)	883	-	-	-	60.5	70.6	659.8	374.8	5320	575	10811	2002
25	Potassium(mg/l)	122.5	-	-	-	6	6.3	40.9	33.2	159.4	173.4	300.5	102.6
26	Calcium as CaCO3(mg/l)	280.6	-	-	-	24	12	86	1000	2800	2500	1600	300
27	Magnesium(mg/l)	364.5	-	-	-	4.4	2.4	124.9	315.9	1263.6	1701	1701	198.3

RIVER SAL AT KHAREBAND, MARGAO 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	Sample not collected	Sample not collected	6.06	5.8	6.2	6.45	7.04	6.56	7.01	6.8	6.75	6.9
2	Temperature °C			26.9	25.7	29.6	28.4	30.1	29	31	26.7	28.7	28.9
3	Conductivity µs/cm			114.5	89.5	107.9	116.4	1445	163.72	456.35	302.5	592.4	267.3
4	Dissolved Oxygen mg/l			2.1	4.2	3.36	5.2	2.8	1.7	1	1.4	1.4	1.1
5	Turbidity (NTU)			56.9	18.7	8.62	12.9	12	18.7	16.3	26	19.6	14
6	Nitrite Nitrogen mg/l			0.036	0.034	0.02	0.003	0.01	0.0007	0.011	0.05	0.011	0.004
7	Nitrogen(Nitrate) mg/l			0.47	0.5	3.7	0.61	3.54	2.12	0.081	2.5	0.278	0.09
8	Phosphate mg/l			0.09	0.06	0.02	0.069	0.05	0.091	0.23	0.13	BDL	0.10
9	BOD mg/l			1.1	1.3	NA	2.5	2.5		3.2	32	1.2	0.9
10	COD mg/l			8	11	12	13	21	21		81	15	11.0
11	Chloride mg/l			12.5	10	200	99.9	25.9	18.59	2499.2	43.5	22	42.56
12	Fecal Coliform MPN/100 ml			13000	7900	7000	3300	13000	4900	13000	24000	35000	17000
13	Total Coliform MPN/100 ml			24000	13000	11000	4900	17000	7900	17000	35000	54000	35000
14	Ammonia mg/l			0.27	0.11	0.07	0.012	0.23	0.055	0.059	0.01	0.104	0.59
15	Total Dissolved Solids(mg/l)			-	-	60	50	134	194	88	178	153	451
16	Total Fixed Solids (mg/l)			-	-	40	32	-	147	41	123	98	94
17	Total Suspended Solid (mg/l)			-	-	13	10	15	45	38	36	21	14
18	Hardness(mg/l)			-	-	30	42	34	44	2000	58	38	100
19	Fluoride(mg/l)			-	-	0.6	0.61	0.08	0.184	0.21	0.4	0.73	0.25
20	Boron(mg/l)			-	-	1	3.6	3.82	4.322	4.43	2	17.29	6.20
21	Sulphate (mg/l)			-	-	6.4	3.4	3.51	8.78	9.15	13.1	10.46	13.22
22	Total Alkalinity(mg/l)			-	-	20	90	34	42	40	80	420	58
23	Phenolphthalein Alkalinity(mg/l)			-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)			-	-	11.5	13.7	19	13.4	98.1	44.1	9.3	21.5
25	Potassium(mg/l)			-	-	4.3	3.8	5.3	3.9	7.8	6.2	1.9	3.2
26	Calcium as CaCO3(mg/l)			-	-	18	24	22	24	1200	36	24	40.0
27	Magnesium(mg/l)			-	-	2.9	4.3	2.92	4.86	194.4	5.3	3.4	14.6

RIVER TIRACOL AT KERI, PERNEM 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.96	7.95	7.08	7.07	6.77	6.68	7.49	7.6	7.5	8.29	7.89	7.17
2	Temperature °C	33	31.3	32	29.2	28.3	28.5	30	30.2	28.4	27	28.2	28
3	Conductivity µs/cm	53550	54200	54700	33200	2646	1850	40000	53300	45140	54770	59600	49890
4	Dissolved Oxygen mg/l	6	6.5	6.3	6.5	7.1	6.9	5.8	6.5	6.5	6.2	6.2	6.2
5	Turbidity (NTU)	6.04	8.44	7.04	5.08	10.5	7.66	2.6	7.37	3.42	29.8	7.64	8.56
6	Nitrite Nitrogen mg/l	0.004	0.005	0.0004	0.047	0.007	0.006	0.061	0.014	0.004	0.01	0.01	0.004
7	Nitrogen(Nitrate) mg/l	0.001	0.01	0.034	0.08	0.07	0.07	0.81	0.06	0.104	0.027	0.14	0.007
8	Phosphate mg/l	0.03	0.01	0.01	0.02	0.01	0.025	0.042	0.026	0.09	0.04	0.02	0.03
9	BOD mg/l	1.9	2.2	2.3	2	2.3	1.2	1.4	2.2	4	0.9	4.2	1.1
10	COD mg/l			28		8	7	36				-	-
11	Chloride mg/l	17970	19669.4	22493	12475	499.85	1200	21243	15995	16245	18091	20640	20369
12	Fecal Coliform MPN/100 ml	450	450	780	490	790	2400	790	790	230	790	490	490
13	Total Coliform MPN/100 ml	450	780	1100	700	1300	5400	1300	1100	490	1700	700	790
14	Ammonia mg/l	0.02	0.014	0.003	0.02	0.04	0.002	0.002	0.061	0.15	0.07	0.15	0.003
15	Total Dissolved Solids(mg/l)	50144	-	-	-	102	150	200	28	174	42721	37669	51340
16	Total Fixed Solids (mg/l)	33439	-	-	-	95	92	110	169	93	31751	19752	39080
17	Total Suspended Solid (mg/l)	102	-	-	-	18	20	28	83	32	178	174	203
18	Hardness(mg/l)	7000	-	-	-	254	130	7800	5600	12000	6750	6400	15400
19	Fluoride(mg/l)	BDL	-	-	-	0.54	0.49	1.36	1.2	1.4	1.57	0.27	0.9
20	Boron(mg/l)	8.6	-	-	-	3.67	0.6	16	13.1	11.3	4.08	3.09	4.9
21	Sulphate (mg/l)	2607.5	-	-	-	954.09	301.6	892.3	979.3	992.9	2873	2873	1467.6
22	Total Alkalinity(mg/l)	128	-	-	-		180	242	204	90	92	84	100
23	Phenolphthalein Alkalinity(mg/l)	8	-	-	-	0	0	0	0	0	6	8	0
24	Sodium(mg/l)	1957	-	-	-	422.9	314.3	8496	10171	8533	10486	10486	4344
25	Potassium(mg/l)	384	-	-	-	24.7	17.9	335	251.7	232.2	31.6	315.6	227.3
26	Calcium as CaCO3(mg/l)	480.96	-	-	-	58	24	2200	2200	2800	1000	1000	1600
27	Magnesium(mg/l)	1409.4	-	-	-	47.6	25.8	1360	826.2	2235.6	1397	1312	3353

RIVER CHAPORA NEAR SIOLIM BRIDGE 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.77	7.66	7.37	7.3	6.45	6.99	6.83	7.81	7.64	7.76	6.95	6.91
2	Temperature °C	31	32.9	32.7	29.8	26.9	28.6	28	29.3	28.3	28	28.5	28
3	Conductivity µs/cm	52380	35100	34900	26430	293.7	207.7	1386	48750	25510	39770	45000	32020
4	Dissolved Oxygen mg/l	5.5	5.7	6	6.5	7.1	7.3	6.99	5.4	6.2	5.5	6.4	6.2
5	Turbidity (NTU)	4.5	14.2	4.58	8.25	10.3	9.06	21.7	3.12	2.65	5.71	2.38	7.13
6	Nitrite Nitrogen mg/l	0.007	0.007	0.001	0.025	0.005	0.006	0.001	0.011	0.005	0.01	0.01	0.004
7	Nitrogen(Nitrate) mg/l	0.01	0.03	0.03	0.1	0.1	0.07	0.28	0.06	0.14	0.15	0.15	0.01
8	Phosphate mg/l	0.03	0.008	0.02	0.028	0.01	0.028	0.039	0.031	0.02	0.04	0.021	0.03
9	BOD mg/l	0.9	2.6	2.1	1.8	0.5	0.9	0.71	2.1	2.5	1.9	1.8	2.2
10	COD mg/l			29	40	3	4	65				-	-
11	Chloride mg/l	18698	18940.9	17495	9589	2	699.8	124.9	13121	13121	17909	18091	13771
12	Fecal Coliform MPN/100 ml	4900	3300	4900	7900	7900	7900	4900	4900	11000	13000	7900	4900
13	Total Coliform MPN/100 ml	13000	7900	13000	17000	14000	13000	7900	7900	17000	22000	11000	7000
14	Ammonia mg/l	0.02	0.04	0.07	0.02	0.01	0.011	0.027	0.005	0.17	0.22	0.19	0.003
15	Total Dissolved Solids(mg/l)	40000	-	-	-	110	105	110	112	125	30623	34536	29926
16	Total Fixed Solids (mg/l)	31060	-	-	-	95	82	32	88	89	22151	22648	18802
17	Total Suspended Solid (mg/l)	56	-	-	-	15	15	12	22	29	30	147	99
18	Hardness(mg/l)	6500	-	-	-	18	16	20	4800	8000	5000	4800	5200
19	Fluoride(mg/l)	BDL	-	-	-	0.57	0.43	0.14	1.1	1.2	1.33	0.24	0.92
20	Boron(mg/l)	8.4	-	-	-	1.04	0.6	17	13.2	13.7	2.81	1.88	5.7
21	Sulphate (mg/l)	2650.5	-	-	-	6.79	3.9	2.1	883.2	311.2	2206	2206	957.1
22	Total Alkalinity(mg/l)	124	-	-	-	26	106	48	186	60	76	70	78
23	Phenolphthalein Alkalinity(mg/l)	6	-	-	-	0	0	0	0	0	0	4	0
24	Sodium(mg/l)	1885	-	-	-	48.3	35.3	8	9432	4841	6639	6639	3145
25	Potassium(mg/l)	389.4	-	-	-	5	4	3.3	231.2	150.1	188	187.5	177
26	Calcium as CaCO3(mg/l)	521.04	-	-	-	14	6	18	2000	2400	750	800	1600
27	Magnesium(mg/l)	1263.6	-	-	-	0.97	2.4	0.5	680.4	1360.8	1033	972	878

RIVER SINGUERIM, CANDOLIM SIDE 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.6	7.6	7.26	7.89	6.87	7.46	7.49	7.55	7.44	8.33	6.88	6.59
2	Temperature °C	34	33	33.8	27	28	28.3	30.5	29.8	28.7	28	29	29
3	Conductivity µs/cm	52220	54800	53500	49340	2843	32700	40250	50630	48580	54440	58500	48140
4	Dissolved Oxygen mg/l	6	5.3	5.2	5.9	7.12	5.8	6.22	5.2	5	5.9	6.1	5.2
5	Turbidity (NTU)	3.8	17.5	12	24.2	25.1	4.87	6.29	7.11	8.44	3.3	4.09	8.68
6	Nitrite Nitrogen mg/l	0.007	0.01	0.003	0.021	0.01	0.221	0.122	0.03	0.009	0.02	0.005	0.005
7	Nitrogen(Nitrate) mg/l	BDL	0.03	0.04	0.116	0.1	BDL	0.01	0.05	0.1	0.04	0.2	0.02
8	Phosphate mg/l	0.024	0.02	0.004	0.04	0.02	0.03	0.069	0.029	0.02	0.02	0.012	0.02
9	BOD mg/l	1.6	1.7	1.3	2.2	2	1.7	2.05	1.4	2.3	1.2	1.6	1.3
10	COD mg/l					14	34	48				-	-
11	Chloride mg/l	18212	26954.4	20744	19669	1624.5	14396	16870	17495	18119	20155	24768	18557
12	Fecal Coliform MPN/100 ml	2300	4900	2300	4900	4900	4900	2300	4900	3300	2300	1300	1300
13	Total Coliform MPN/100 ml	4900	7900	4900	7900	7000	7000	3300	7900	4900	3300	2300	2300
14	Ammonia mg/l	0.02	0.03	0.03	0.006	0.05	0.009	0.026	0.007	0.08	0.09	0.14	0.007
15	Total Dissolved Solids(mg/l)	39900	-	-	-	201	180	150	156	163	40830	44038	55947
16	Total Fixed Solids (mg/l)	25973	-	-	-	150	90	80	76	81	36078	31519	29408
17	Total Suspended Solid (mg/l)	86	-	-	-	38	25	20	31	34	30	145	82
18	Hardness(mg/l)	6400	-	-	-	264	88	5000	16	14000	6500	6400	6200
19	Fluoride(mg/l)	0.32	-	-	-	0.14	1.3	1.03	1.1	1.3	1.49	0.27	0.73
20	Boron(mg/l)	10.5	-	-	-	1.3	17.8	19	21.4	19.7	4.03	2.52	3.7
21	Sulphate (mg/l)	2521.5	-	-	-	1503.2	1710	388.9	832.8	379.8	3196.2	3196	957.1
22	Total Alkalinity(mg/l)	120	-	-	-	32	40	230	20	88	94	86	88
23	Phenolphthalein Alkalinity(mg/l)	4	-	-	-	0	0	0	0	0	4	6	0
24	Sodium(mg/l)	1856	-	-	-	462.2	5509	7121	11362	9609	8490	8490	3942
25	Potassium(mg/l)	352.4	-	-	-	28.3	283.5	297.9	282.5	245	328	328.3	184.4
26	Calcium as CaCO3(mg/l)	641.28	-	-	-	58	22	4000	10	5600	1250	1100	4000
27	Magnesium(mg/l)	1166.4	-	-	-	50	16	243	1.5	2041.2	1276	1287	534.6

RIVER SINQUERIM, NEAR GANPATI TEMPLE 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.17	7.51	7.41	7.69	6.84	7.46	7.37	7.44	7.52	8.35	6.8	7.34
2	Temperature °C	33	33.4	33.2	28	28	28.1	30.7	29.9	29.6	28	29	29.3
3	Conductivity µs/cm	52890	54500	53700	49120	2758	35900	40420	50960	49360	54180	58820	48440
4	Dissolved Oxygen mg/l	6	5.5	5	5.5	7.1	5.3	5.16	5.85	4.8	5.3	5.7	5.1
5	Turbidity (NTU)	5.24	14.8	10.7	24.8	19.3	3.9	21	8.11	17.2	11	7.79	9.01
6	Nitrite Nitrogen mg/l	0.009	0.011	0.005	0.033	0.006	0.377	0.031	0.034	0.012	0.02	0.004	0.005
7	Nitrogen(Nitrate) mg/l	0.07	0.04	0.04	0.15	0.13	BDL	0.5	0.07	0.011	0.09	0.14	0.03
8	Phosphate mg/l	0.05	0.007	0.011	0.062	0.03	0.03	0.089	0.036	0.03	0.15	0.021	0.01
9	BOD mg/l	1.2	1.4	1.4	1.1	2.1	1.4	1.43	1.8	2	1.7	1.3	0.9
10	COD mg/l					9	20	59				-	-
11	Chloride mg/l	18941	16876.9	28866	18941	624.8	99.9	16870	19619	20993	22462	24040	22830
12	Fecal Coliform MPN/100 ml	7900	7900	7900	3200	3300	7900	7900	3300	2300	3300	2300	2300
13	Total Coliform MPN/100 ml	17000	13000	17000	4600	4900	14000	17000	4900	3300	4600	3300	3300
14	Ammonia mg/l	0.05	0.002	0.05	0.035	0.08	0.028	0.021	0.006	0.15	0.27	0.1	0.003
15	Total Dissolved Solids(mg/l)	40224	-	-	-	121	120	110	128	158	42260	40932	38452
16	Total Fixed Solids (mg/l)	33294	-	-	-	114	70	75	65	71	31602	19838	19252
17	Total Suspended Solid (mg/l)	56	-	-	-	32	20	22	24	26	71	145	165
18	Hardness(mg/l)	7200	-	-	-	270	7600	5000	28	12000	6500	6500	7800
19	Fluoride(mg/l)	BDL	-	-	-	0.68	1.3	1.03	1.3	1.2	1.51	0.28	0.78
20	Boron(mg/l)	9.8	-	-	-	1.3	3.7	19	11	11.9	4.36	2.63	5.5
21	Sulphate (mg/l)	2569.3	-	-	-	1867	2040	388.9	846.6	1400.26	3131	3131	1765.4
22	Total Alkalinity(mg/l)	122	-	-	-	36	90	230	56	98	94	84	100
23	Phenolphthalein Alkalinity(mg/l)	6	-	-	-	0	0	0	0	0	0	8	0
24	Sodium(mg/l)	1996	-	-	-	459	6131	7121	10064	10192	10114	10114	4626
25	Potassium(mg/l)	381.7	-	-	-	30	306.8	297.9	253.8	248.2	293	293.2	252.3
26	Calcium as CaCO3(mg/l)	601.2	-	-	-	52	3800	4000	26	4400	1250	900	200
27	Magnesium(mg/l)	1385.1	-	-	-	52.9	923	243	0.49	1846.8	1276	1360	1409

RIVER MANDOVI AT IFFIJETTY 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	8	7.68	6.59	7.77	7.09	6.72	8.12	8.01	7.6	7.47	8.69	7.89
2	Temperature °C	31.5	32.9	31.2	31	28	28.9	29.2	29.2	29.1	28.2	29	27
3	Conductivity µs/cm	49340	51300	49860	50200	506.68	2662	46810	51500	50500	72600	52450	52300
4	Dissolved Oxygen mg/l	6.3	5.7	5.6	8.6	7.5	7.4	6	6.5	5	6.7	6.8	5.9
5	Turbidity (NTU)	13.4	12.9	19.9	13.4	34.3	11.6	5.1	7.91	3.6	30.3	1.83	10.4
6	Nitrite Nitrogen mg/l	0.003	BDL	0.009	0.14	0.014	0.008	0.057	0.016	0.018	0.022	0.005	0.008
7	Nitrogen(Nitrate) mg/l	0.13	BDL	0.05	0.02	0.16	0.14	0.28	0.06	0.057	0.035	0.07	0.02
8	Phosphate mg/l	0.03	0.15	0.03	0.03	0.048	0.024	0.041	0.018	0.001	0.001	0.016	0.05
9	BOD mg/l	3.2	1.2	1.9	4.2	1.6	1	1.2	5	3.1	1.8	0.5	1.1
10	COD mg/l					55	5	68				32	-
11	Chloride mg/l	17970	20397.9	19813	17595	366.9	1999	20119	20244	21892.2	10127	22601.5	29316
12	Fecal Coliform MPN/100 ml	1300	2300	2300	4900	7000	7900	2300	2300	2300	1700	790	790
13	Total Coliform MPN/100 ml	3300	3300	4900	7000	11000	13000	4900	3300	4900	3300	2400	1300
14	Ammonia mg/l	0.01	0.03	0.14	0.09	0.106	0.013	0.031	0.063	0.013	0.049	0.028	0.006
15	Total Dissolved Solids(mg/l)	46770	-	-	-	250	212	180	20	22997	46361	53483	42468
16	Total Fixed Solids (mg/l)	29216	-	-	-	169	170	120	224	18306	34313	32695	16468
17	Total Suspended Solid (mg/l)	187	-	-	-	18	22	21	161	24	21	143	118
18	Hardness(mg/l)	6000	-	-	-	30	234	6200	5000	7200	9400	6600	9400
19	Fluoride(mg/l)	1.4	-	-	-	0.44	0.55	1.15	1.1	1.55	0.57	0.26	0.84
20	Boron(mg/l)	0.52	-	-	-	0.21	15.2	21	14.8	15.46	3.25	0.46	7.5
21	Sulphate (mg/l)	2125.6	-	-	-	20.43	114	617.8	1002.1	330.5	1023.2	1809.37	1503.1
22	Total Alkalinity(mg/l)	18	-	-	-	18	20	226	230	130	96	112	98
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	16	0.2	0
24	Sodium(mg/l)	18.55	-	-	-	78.3	434.9	8226	11242	10324	10474	6827	4698
25	Potassium(mg/l)	344.4	-	-	-	6.1	25.5	328.4	276.1	221	267	253.9	250
26	Calcium as CaCO3(mg/l)	200.4	-	-	-	16	50	2600	4000	1800	2000	1100	1600
27	Magnesium(mg/l)	1336.5	-	-	-	3.4	44.7	874.8	243	1312.2	1798.2	1336.5	1895

RIVER MANDOVI NEAR HOTEL MARIOTT 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	8	7.76	6.77	7.62	6.93	6.56	8.07	8.39	7.63	7.7	8.88	7.93
2	Temperature °C	31.5	32.7	31	33	27.8	27.8	29	29.4	28.9	28.5	29	27.2
3	Conductivity µs/cm	50720	51.8	49260	50200	421.26	3960	45730	51100	51500	72300	52700	52800
4	Dissolved Oxygen mg/l	6.3	5.9	5.8	6	7.8	7.3	5.9	6.6	5.4	5.7	6.6	6.1
5	Turbidity (NTU)	6.16	5.89	6.77	18	34.1	12	13.9	14.5	4.63	10.1	3.55	13.4
6	Nitrite Nitrogen mg/l	0.002	0.009	0.011	0.004	0.014	0.007	0.085	0.018	0.029	0.03	0.01	0.008
7	Nitrogen(Nitrate) mg/l	0.08	0.078	0.08	0.02	0.32	0.12	0.19	0.05	0.041	0.06	0.03	0.02
8	Phosphate mg/l	0.008	0.205	0.01	0.03	0.035	0.023	0.045	0.023	0.001	0.001	0.024	0.03
9	BOD mg/l	2.8	1.8	2.3	2.4	1.9	1.7	1.8	4.4	1.9	0.5	1	1.2
10	COD mg/l					13	7	61				58	-
11	Chloride mg/l	21734	19669.4	20547	19394	733.8	2199	103.9	25992	37791.5	18317	23090.7	25155
12	Fecal Coliform MPN/100 ml	450	780	1300	7900	7900	4900	3300	1300	490	330	130	2400
13	Total Coliform MPN/100 ml	780	1300	1700	13000	13000	7900	4900	2300	700	460	230	9200
14	Ammonia mg/l	0.02	0.078	0.01	0.11	0.095	0.015	0.039	0.005	0.015	0.053	0.03	0.004
15	Total Dissolved Solids(mg/l)	46095	-	-	-	157	100	90	35	21172	76010	45875	50124
16	Total Fixed Solids (mg/l)	30025	-	-	-	121	80	70	105	15667	45282	33521	32146
17	Total Suspended Solid (mg/l)	154	-	-	-	17	32	30	72	16	26	142	186
18	Hardness(mg/l)	6000	-	-	-	26	360	5600	5000	1800	14000	6900	7800
19	Fluoride(mg/l)	1.3	-	-	-	0.24	0.45	1.02	1.3	1.44	0.15	0.26	0.06
20	Boron(mg/l)	0.18	-	-	-	0.21	8.3	22	10.9	13.39	3.32	7.6	7.2
21	Sulphate (mg/l)	2835.6	-	-	-	18.72	45.1	543.4	1432.3	419.8	1108.6	1383.97	1411
22	Total Alkalinity(mg/l)	18	-	-	-	20	40	224	202	134	94	102	92
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	8	0.2	0
24	Sodium(mg/l)	1843	-	-	-	63.4	614	8083	12084	10013	10679	7136	5147
25	Potassium(mg/l)	342.4	-	-	-	5.2	37.4	324.1	275.9	246	269	258	250.4
26	Calcium as CaCO3(mg/l)	801.6	-	-	-	20	74	2000	2400	1400	2800	900	2000
27	Magnesium(mg/l)	972	-	-	-	1.46	69.4	874.8	631.8	1117.8	2721	1458	1409

RIVER MANDOVI AT AMONA 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.1	6.21	6.04	6.86	6.03	6.52	6.79	6.25	6.99	6.33	7.17	7.11
2	Temperature °C	33.5	32.7	29.4	27	27.2	27.5	29.2	28.1	28	28.1	29	27.5
3	Conductivity µs/cm	36200	33950	829.6	249.48	164.9	181.7	1620	1764	9211	19750	25940	28970
4	Dissolved Oxygen mg/l	5.5	5.9	6.5	7.1	7.1	6.6	6.9	6.5	6.5	6.6	6.1	6
5	Turbidity (NTU)	7.04	8.7	11.2	15	20.2	8.28	7.01	8.06	12.5	48.9	7.33	8.61
6	Nitrite Nitrogen mg/l	0.078	0.03	0.005	0.002	0.009	0.002	0.005	0.004	0.006	0.021	0.005	0.01
7	Nitrogen(Nitrate) mg/l	0.33	0.88	0.28	0.147	0.14	0.26	0.118	0.04	0.084	0.17	1.63	0.03
8	Phosphate mg/l	0.01	0.02	0.01	0.01	0.025	0.002	0.012	0.018	0.013	0.048	0.01	0.03
9	BOD mg/l	1.3	1.4	1.6	1.1	0.3	0.6	0.8	0.5	0.8	1.9	1	1.9
10	COD mg/l	25	17	5	14	13	7	7	9		32	-	-
11	Chloride mg/l	20914	13502.2	244.6	364.25	1589.9	391.4	122.3	1834.5	3180	5479.1	13697.8	11859
12	Fecal Coliform MPN/100 ml	3300	7900	7900	13000	11000	4900	7000	4600	7900	11000	4900	5200
13	Total Coliform MPN/100 ml	4900	13000	11000	17000	14000	9400	11000	9400	13000	17000	7900	9200
14	Ammonia mg/l	0.14	0.07	0.08	0.04	0.033	0.012	0.029	0.122	0.063	0.036	0.002	0.006
15	Total Dissolved Solids(mg/l)	25417	-	-	-	298	284	151	1090	7367	16274	18670	19010
16	Total Fixed Solids (mg/l)	20469	-	-	-	214	177	106	251	3202	10171	4883	5000
17	Total Suspended Solid (mg/l)	109	-	-	-	8	7	4	15	25	65	14	16
18	Hardness(mg/l)	5000	-	-	-	4	16	12	182	1800	2300	2200	4200
19	Fluoride(mg/l)	1.51	-	-	-	0.5	0.07	0.75	0.06	0.52	0.89	0.27	0.71
20	Boron(mg/l)	33.15	-	-	-	0.16	4.02	15.06	5.26	2.2		16.75	5.0
21	Sulphate (mg/l)	1191.7	-	-	-	3.44	3.87	24.38	127.5	158.7	161.04	1012.45	560
22	Total Alkalinity(mg/l)	46	-	-	-	12	26	22	36	58	14	58	64
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0.2	0	0
24	Sodium(mg/l)	1455	-	-	-	83.2	21.1	38	190.9	1440	8.9	5052	3062
25	Potassium(mg/l)	242.4	-	-	-	2.5	4	4.1	10	51.5	1.9	122.5	158.8
26	Calcium as CaCO3(mg/l)	400	-	-	-	0	6	12	34	600	600	800	1600
27	Magnesium(mg/l)	4902.8	-	-	-	0.97	2.4	0	36	291.6	413	340.2	632

RAIA LAKE 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	8.13	7.91	6.02	6.47	6.35	6.6	7.27	6.68	6.73	6.91	6.86	6.68
2	Temperature °C	34	34.9	31.1	27.4	27.3	29.3	31.9	28.3	29.1	27	28	28.9
3	Conductivity µs/cm	112.7	175.2	105.3	87.65	71.63	70.86	1406	90.47	83.9	99.68	94.69	111.2
4	Dissolved Oxygen mg/l	6.8	7.6	7.5	5.2	5.7	6	5.2	6	4	5	5.5	6.5
5	Turbidity (NTU)	21.3	108	56.2	8.83	8.19	2.71	2.45	0.49	2.21	3.06	2.43	6.47
6	Nitrite Nitrogen mg/l	0.004	0.023	0.04	0.007	0.01	0.001	0.001	0.002	0.042	0.001	0.002	0.003
7	Nitrogen(Nitrate) mg/l	0.2	BDL	0.34	0.15	0.22	0.01	0.01	0.01	0.117	0.05	0.02	0.02
8	Phosphate mg/l	0.005	0.1	0.097	0.02	0.017	0.013	0.004	0.004	0.004	0.01	0.007	0.01
9	BOD mg/l	5	7.8	2.7	1.6	1.6	1.6	3.7	1.3	1.9	2.1	1.7	2.5
10	COD mg/l	10	56	27	13	8	11	12	22	28	12	14	15
11	Chloride mg/l	17.97	40.49	14.2	8.81	12.83	1	9.5	8.5	6.27	7	10.5	18.0
12	Fecal Coliform MPN/100 ml	7900	13000	4900	1300	1300	3300	3300	1300	2400	230	230	230
13	Total Coliform MPN/100 ml	13000	24000	13000	2300	2300	4600	4600	2200	5400	330	490	490
14	Ammonia mg/l	0.52	0.13	0.13	0.08	0.029	0.006	0.015	0.032	0.03	0.16	0.04	0.29
15	Total Dissolved Solids(mg/l)	76	-	-	-	57	52	55	59	51	68	75	68
16	Total Fixed Solids (mg/l)	159.3	-	-	-	27	22	12	21	24	48	42	-
17	Total Suspended Solid (mg/l)	19.25	-	-	-	10	11	40	13	14	1	3	21
18	Hardness(mg/l)	16	-	-	-	10	84	16	44	24	24	24	26
19	Fluoride(mg/l)	0.57	-	-	-	0.49	0.57	0.22	0.42	0.163	0.2	0.06	0.03
20	Boron(mg/l)	0.44	-	-	-	6.61	11.9	19	7.1	1.09	0.06	2.1	1.72
21	Sulphate (mg/l)	15.11	-	-	-	9.69	3.1	1.3	4.1	2.231	1.6	2.8	3.8
22	Total Alkalinity(mg/l)		-	-	-	114	86	60	160	40	48	36	28
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	0.6	-	-	-	6.7	8.5	8.9	27.4	6.1	11.3	9.3	9.5
25	Potassium(mg/l)	14.3	-	-	-	2.8	3.3	3.3	4.8	3.1	5.6	2.9	4.3
26	Calcium as CaCO3(mg/l)	4.8	-	-	-	6	42	12	16	10	12	14	3
27	Magnesium(mg/l)	0.97	-	-	-	1	10.2	0.9	6.8	3.4	2.9	2.4	4.4

SAIPEM LAKE, NAVELIM 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	Sample not collected as the water was dirty and stagnant	Sample not collected as the water was dirty and stagnant	6.4	6.65	6.75	7	7.14	7.03	7.19	7.6		
2	Temperature °C			27.4	27.8	30.1	29	30	30.2	29.3	28.3		
3	Conductivity µs/cm			267.43	264.9	209.81	256.2	1613	329	400	388.45		
4	Dissolved Oxygen mg/l			3.6	4.1	2.3	2	1	2.62	1	1		
5	Turbidity (NTU)			40.1	10.2	14.9	19.4	92	18.2	53.6	28.5		
6	Nitrite Nitrogen mg/l			0.09	0.24	0.211	0.002	0.01	0.09	0.03	0.006		
7	Nitrogen(Nitrate) mg/l			1.38	0.81	12.5	0.65	5.16	0.11	0.03	2.8		
8	Phosphate mg/l			0.08	0.06	0.451	0.161	1.7	0.114	0.16	0.77		
9	BOD mg/l			2.3	1.4	1.5	10	83	9	23	2.5		
10	COD mg/l			17	12	9	23	160	30	40	6		
11	Chloride mg/l			22.18	350	90	199.9	31.57	32.05	45.17	43.5		
12	Fecal Coliform MPN/100 ml			7900	4900	4600	7900	13000	13000	13000	13000		
13	Total Coliform MPN/100 ml			11000	7900	7000	13000	22000	17000	17000	22000		
14	Ammonia mg/l			0.79	0.53	0.81	0.27	1.58	13.5	0.17	0.004		
15	Total Dissolved Solids(mg/l)			-	-	226	210	968	230	241	2286		
16	Total Fixed Solids (mg/l)			-	-	69	80	460	205	219	197		
17	Total Suspended Solid (mg/l)			-	-	16	18	1462	12	142	43		
18	Hardness(mg/l)			-	-	40	16	72	154	70	68		
19	Fluoride(mg/l)			-	-	0.06	0.58	0.22	0.19	0.15	0.26		
20	Boron(mg/l)			-	-	0.86	5.5	4.47	6	0.2	0.7		
21	Sulphate (mg/l)			-	-	10.51	16.6	13.84	199.7	5.56	6.1		
22	Total Alkalinity(mg/l)			-	-	300	32	84	92	92	26		
23	Phenolphthalein Alkalinity(mg/l)			-	-	0	0	0	0	0	0		
24	Sodium(mg/l)			-	-	17.9	25.3	26	25	31	35.4		
25	Potassium(mg/l)			-	-	6.2	8	8.9	6.4	8	8.1		
26	Calcium as CaCO3(mg/l)			-	-	36	6	60	54	50	46		
27	Magnesium(mg/l)			-	-	1	2.4	2.916	24.3	4.86	5.3		

CURTORIM LAKE, CURTORIM 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	8.04	8.24	5.59	6.13	6.22	6.67	7.08	6.85	6.76	6.79	6.9	6.71
2	Temperature °C	34	33.8	30.9	27.6	27.5	28.5	31.7	28	29	26	28.7	28
3	Conductivity µs/cm	162.5	183.6	109.7	64.47	63.26	97.89	1480	105.25	111.6	128.25	121	132.4
4	Dissolved Oxygen mg/l	6.4	8.8	5.7	5.7	4.7	4	3.2	5	6.9	2.2	4.2	4.9
5	Turbidity (NTU)	8.85	40	39.4	26.4	8.11	5.59	20.2	4.35	8.42	6.42	5.97	5.41
6	Nitrite Nitrogen mg/l	0.002	0.02	0.02	0.015	0.04	0.002	0.623	0.002	0.536	0.002	0.003	0.002
7	Nitrogen(Nitrate) mg/l	0.15	BDL	0.07	0.06	0.14	BDL	0.13	0.01	0.167	0.12	BDL	BDL
8	Phosphate mg/l	0.01	0.18	0.05	0.05	0.03	0.009	0.012	0.007	0.002	0.04	0.04	0.02
9	BOD mg/l	3	7.6	2.4	1.9	1.7	2	2.5	2.2	4.6	4	2.5	4.6
10	COD mg/l	11	24	21	9	27	16	17	18	30	9	17	12
11	Chloride mg/l	18.94	29.49	16.6	6.36	16.63	8.5	17	15	7.71	13	14	19.4
12	Fecal Coliform MPN/100 ml	1300	2300	7900	7900	4900	3300	2300	7900	2300	2300	1300	2300
13	Total Coliform MPN/100 ml	2300	4900	21000	17000	7900	4900	4600	13000	3300	3300	2300	3300
14	Ammonia mg/l	0.4	0.06	0.03	0.06	0.016	0.005	0.018	0.057	0.006	0.01	0.1	0.31
15	Total Dissolved Solids(mg/l)	89	-	-	-	75	82	80	82	110	84.2	84	105
16	Total Fixed Solids (mg/l)	172.71	-	-	-	57	50	13	45	57	52	49	-
17	Total Suspended Solid (mg/l)	21.35	-	-	-	15	12	50	17	65	6	8	13
18	Hardness(mg/l)	34	-	-	-	10	82	40	56	32	30	40	38
19	Fluoride(mg/l)	0.62	-	-	-	0.51	0.68	0.07	0.34	0.068	0.2	0.1	0.14
20	Boron(mg/l)	0.09	-	-	-	6.61	2.4	19	9.7	1.21	0.06	2.4	1.66
21	Sulphate (mg/l)	17.26	-	-	-	11.14	3.8	3.5	2	8.81	2.7	2.5	5.3
22	Total Alkalinity(mg/l)	10	-	-	-	9	24	98	176	46	78	40	48
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	3.9	-	-	-	5.7	10.2	20.5	31.1	7.3	13.7	16.8	10
25	Potassium(mg/l)	14.2	-	-	-	2.2	3.4	8.5	6.8	4.5	6	6.3	4.1
26	Calcium as CaCO3(mg/l)	8	-	-	-	4	22	38	18	13	14	18	8
27	Magnesium(mg/l)	3.4	-	-	-	1.5	14.6	0.5	9.2	3.4	3.9	5.3	4.4

RIVER ZUARI AT MADKAI JETTY 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.5	7.1	7.14	7.35	7	7.19	7.18	7.35	7.6	7.2	7.62	6.7
2	Temperature °C	32.1	31.5	30.4	28	23	28.8	30.7	30.9	28.9	28.1	29.8	28.8
3	Conductivity µs/cm	46800	48070	51600	34460	536	5260	39720	43200	44650	50440	48500	61390
4	Dissolved Oxygen mg/l	4.7	3	5.2	6.5	7.1	7.6	7.2	5.1	5.6	6	5.5	5.5
5	Turbidity (NTU)	14.5	15.1	16	11.6	30.6	82.8	9.92	6.61	9.63	16.2	41.5	27.9
6	Nitrite Nitrogen mg/l	0.05	0.003	0.008	0.01	0.01	0.043	0.006	0.025	0.049	0.097	0.017	0.022
7	Nitrogen(Nitrate) mg/l	0.14	BDL	0.01	0.11	0.14	4	0.078	0.016	BDL	0.055	0.037	4.23
8	Phosphate mg/l	0.05	0.06	0.21	0.04	0.02	0.15	0.007	0.058	0.066	0.014	0.071	0.096
9	BOD mg/l	1.1	0.4	3	3	1.5	1.3	0.8	2.8	1.8	1.6	1.3	1.7
10	COD mg/l	31		44		16	21	30	34	38		-	32
11	Chloride mg/l	16022	18244	7949.7	3302.5	130.5	1625	375	17995	18443.2	22626	20424.5	22243
12	Fecal Coliform MPN/100 ml	450	1300	1700	7900	7900	4900	4900	4900	1300	1300	1300	1300
13	Total Coliform MPN/100 ml	450	1700	2200	13000	13000	7900	7900	7900	2300	1700	2300	2300
14	Ammonia mg/l	0.07	0.04	0.07	0.12	0.07	0.15	0.151	0.199	0.246	0.038	0.063	0.092
15	Total Dissolved Solids(mg/l)	26085	-	-	-	280	3013	648	8512	56982	3402	31614	27650
16	Total Fixed Solids (mg/l)	17110	-	-	-	192	2600	468	281856	23716	2985	18912	15718
17	Total Suspended Solid (mg/l)	158	-	-	-	30	725	15	86	55	123	60	157
18	Hardness(mg/l)	6800	-	-	-	52	300	26	5200	5600	6800	5200	2400
19	Fluoride(mg/l)	1.1	-	-	-	0.25	ND	BDL	1.14	0.239	1.21	0.99	0.73
20	Boron(mg/l)	13.6	-	-	-	1.3	5.23	5.56	5.4	5.022	3.24	3.56	11.92
21	Sulphate (mg/l)	1983.7	-	-	-	17.8	10.5	73	7.55	1808.4	952.5	2603.5	2314.1
22	Total Alkalinity(mg/l)	122	-	-	-	24	80	280	1020	80	106	84	860
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0.2	4	0	0
24	Sodium(mg/l)	1788	-	-	-	100.3	38.5	49.6	1405	4761	10504	10070	6190
25	Potassium(mg/l)	308.9	-	-	-	7.1	53.2	4.7	193.2	243.2	252.3	247.8	277.6
26	Calcium as CaCO3(mg/l)	1000	-	-	-	20	92	22	1000	1100	1600	1600	600
27	Magnesium(mg/l)	6557	-	-	-	7.8	50.5	1	1020.6	1093.5	1263.6	874.8	437.4

RIVER ZUARI AT BORIM BRIDGE 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.29	7.7	6.86	6.82	6.72	6.66	6.66	6.05	6.7	7.17	7.35	6.3
2	Temperature °C	33.4	33	32	29	20	28.1	30	29.2	29.4	27.6	29.2	29.1
3	Conductivity µs/cm	17850	33570	35200	10380	370	148.5	7100	11850	25490	31850	32300	38490
4	Dissolved Oxygen mg/l	6.3	4.4	6	5.7	6.8	7.7	7.5	5.9	5.7	5.8	5.5	5.5
5	Turbidity (NTU)	65.1	6.04	9.65	11	20.8	13.2	8.37	8.89	11.8	5.64	7.84	22
6	Nitrite Nitrogen mg/l	0.02	0.007	0.003	0.02	0.006	0.007	0.004	0.005	0.003	0.128	0.034	0.058
7	Nitrogen(Nitrate) mg/l	0.28	BDL	0.03	0.14	0.09	0.01	0.09	BDL	0.33	0.088	0.022	0.36
8	Phosphate mg/l	0.06	0.01	0.01	0.02	0.008	0.014	0.047	0.026	0.017	0.003	0.021	0.192
9	BOD mg/l	1.3	1.2	3.5	1.4	1.6	2.3	1.9	3.1	1.3	1.9	1.6	1.9
10	COD mg/l	19		30		10	8	13	34	23		-	25
11	Chloride mg/l	7460.5	12996	12964	11340	88.5	34.99	1710	4124	415.8	13576	12964.1	29741
12	Fecal Coliform MPN/100 ml	450	2300	2300	13000	13000	13000	7900	7900	1300	1700	2300	2300
13	Total Coliform MPN/100 ml	450	3300	3300	17000	17000	22000	17000	14000	2300	3300	3300	3300
14	Ammonia mg/l	0.07	0.04	0.08	0.08	0.09	0.03	0.044	0.217	0.038	0.006	0.02	0.063
15	Total Dissolved Solids(mg/l)	12648	-	-	-	180	100	3987	9176	35779	19179	19386	28913
16	Total Fixed Solids (mg/l)	9297	-	-	-	16	141	3177	6716	15281	3152	14171	14734
17	Total Suspended Solid (mg/l)	125	-	-	-	18	8	45	13	82	61	11	97
18	Hardness(mg/l)	2100	-	-	-	40	14	680	162	2700	3800	3800	1000
19	Fluoride(mg/l)	0.43	-	-	-	0.76	0.11	0.13	0.41	0.182	0.95	1.04	0.72
20	Boron(mg/l)	1.23	-	-	-	1.3	2.75	5.54	6.05	3.61	2.86	2.85	19.55
21	Sulphate (mg/l)	282	-	-	-	8.1	5.49	0.57	0.02	1313.3	793.6	1477.6	2592
22	Total Alkalinity(mg/l)	64	-	-	-	24	120	400	540	56	68	62	680
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0.1	0	0	0
24	Sodium(mg/l)	837.1	-	-	-	68.5	22.8	891.4	646	144.5	6119	5034	3802
25	Potassium(mg/l)	104.5	-	-	-	6.2	3.3	47.8	76.2	8.4	179.5	146.3	180.1
26	Calcium as CaCO3(mg/l)	300	-	-	-	16	10	80	100	500	1000	600	200
27	Magnesium(mg/l)	2027.1	-	-	-	5.8	1	146	15.1	534.6	680.4	777.6	194.4

CARAMBOLIM LAKE 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	Sample not collected as lake was dry	6.48	Sample not collected because of stagnant water and inaccessibility to collection point.	7.37	6.7	6.37	6.46	6.36	7.32	7.48	8.1	7.29
2	Temperature °C		29		28.2	28	28	29.7	28.5	28.1	24.1	28	27
3	Conductivity µs/cm		424340		179.3	277.83	96.8	1498	129.3	170.1	157.6	176.94	169.8
4	Dissolved Oxygen mg/l		1.4		4.8	5.7	3.2	3.4	4.5	3.2	0.9	3.7	3.9
5	Turbidity (NTU)		14.3		51.6	15.6	2.61	11.09	8.48	5.15	7.96	3.78	4.2
6	Nitrite Nitrogen mg/l		0.048		0.02	0.007	0.019	0.062	0.225	0.001	0.001	0.003	0.003
7	Nitrogen(Nitrate) mg/l		BDL		BDL	0.04	0.16	0.067	BDL	0.012	0.028	0.003	0.03
8	Phosphate mg/l		0.11		0.11	0.002	0.016	0.103	0.005	0.002	0.002	0.006	0.008
9	BOD mg/l		2.4		4.2	1	2.7		2.7	2.5	2.5	0.6	1.9
10	COD mg/l		74		21	7	5	14	22	18	15	21	4.0
11	Chloride mg/l		92.97		40	7.5	6.99	13.21	5	23.48	22.5	25.93	22.6
12	Fecal Coliform MPN/100 ml		35000		7900	11000	13000	7900	1300	13000	7900	4900	1700
13	Total Coliform MPN/100 ml		92000		13000	17000	24000	13000	2200	17000	13000	7000	3500
14	Ammonia mg/l		1.76		0.12	0.07	0.002	0.042	0.018	0.012	0.045	0.01	0.009
15	Total Dissolved Solids(mg/l)		-		-	203	250	187	16	148	19422	94	232
16	Total Fixed Solids (mg/l)		-		-	110	150	124	244	83	75	21	126
17	Total Suspended Solid (mg/l)		-		-	15	15	38	137	9	15	26	10
18	Hardness(mg/l)		-		-	34	20	26	62	52	1400	54	60
19	Fluoride(mg/l)		-		-	0.54	0.42	0.77	0.21	0.23	0.51	BDL	0.92
20	Boron(mg/l)		-		-	1.27	0.9	6.56	14.8	0.46	0.52	0.87	4.6
21	Sulphate (mg/l)		-		-	6.95	3.1	3.56	96.1	55.7	64.38	4.88	4.7
22	Total Alkalinity(mg/l)		-		-	28	224	44	226	64	60	48	48
23	Phenolphthalein Alkalinity(mg/l)		-		-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)		-		-	9.3	8.3	9.1	116.9	12.4	14.3	25.5	47.4
25	Potassium(mg/l)		-		-	2.4	4.7	7.9	7.1	2.9	4.5	4	4.1
26	Calcium as CaCO3(mg/l)		-		-	24	16	18	26	36	800	34	52
27	Magnesium(mg/l)		-		-	2.43	1	1.94	8.7	3.9	145.8	4.86	1.9

ANJUNEM LAKE 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	8.47	7.18	6.89	6.4	7.45	5.62	7.35	5.25	7.12	6.79	7.28	7.28
2	Temperature °C	34.6	32	28	27	27	28.7	31	28.4	29.1	26.8	28	30
3	Conductivity µs/cm	48.9	50.36	52.1	46.6	43.1	47.34	2.749	44.6	46.6	48.43	47.01	57.29
4	Dissolved Oxygen mg/l	7.9	7.2	6.8	7.3	8.5	8.3	8.8	7.3	7	6.4	7.2	7.2
5	Turbidity (NTU)	3.24	3.4	18.3	5.36	2.35	2.36	1.89	1.28	0.82	1.27	2.41	1.25
6	Nitrite Nitrogen mg/l	0.002	0.001	0.006	0.002	0.004	0.002	0.002	0.001	0.002	BDL	0.143	0.002
7	Nitrogen(Nitrate) mg/l	0.09	BDL	0.004	0.205	0.069	0.03	0.31	0.005	0.04	0.05		0.06
8	Phosphate mg/l	0.009	0.02	0.035	0.005	0.006	0.003	BDL	0.004	0.003	0.008	0.011	0.001
9	BOD mg/l	1.1	1.9	1.7	0.3	0.7	0.5	1.7	0.9	0.5	0.3	1.1	1.1
10	COD mg/l	9	14	3	3	6	4	9	11	16	5	10	9
11	Chloride mg/l	1	5.79	9.99	4.8	4.37	4.89	6.8	1.93	1	4	5.83	10
12	Fecal Coliform MPN/100 ml	230	330	330	230	230	130	130	45	13	33	79	33
13	Total Coliform MPN/100 ml	330	490	490	330	490	240	220	78	23	79	130	49
14	Ammonia mg/l	0.03	0.05	0.05	0.086	0.022	0.026	0.001	0.02	0.02	0.07	0.008	0.03
15	Total Dissolved Solids(mg/l)	26	-	-	-	30	11		103	8512	106	34	34
16	Total Fixed Solids (mg/l)	42	-	-	-	8	10		56	28856	85	12	25
17	Total Suspended Solid (mg/l)	8	-	-	-	6	15		6	86	2	2	5
18	Hardness(mg/l)	12	-	-	-	0	6	14	12	12	30	22	24
19	Fluoride(mg/l)	0.58	-	-	-	0.137	0.05	0.008	BDL	0.17	0.2	0.04	0.04
20	Boron(mg/l)	4.1	-	-	-	2.88	0.66	0.51	1.25	0.9	0.1	BDL	0.5
21	Sulphate (mg/l)	7.64	-	-	-	2.78	1.26	2.85	3.62	0.34	0.8	0.86	0.54
22	Total Alkalinity(mg/l)	100	-	-	-	14	18	14	30	180	48	16	26
23	Phenolphthalein Alkalinity(mg/l)	0	-	-	-	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	20.2	-	-	-	5.8	5.5	6.7	3.1	3.6	7.1	5.2	3.9
25	Potassium(mg/l)	15.3	-	-	-	2.4	2.6	2.7	0.2	1.1	3.9	0.4	1.5
26	Calcium as CaCO3(mg/l)	10	-	-	-	0	0	8	8	4	14	16	8
27	Magnesium(mg/l)	0.5	-	-	-	0	1.46	1.458	0.97	1.9	3.9	1.5	3.89

RIVER MANDOVI AT RIBANDAR-CHODAN FERRY, PANAJI 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.86	7.68	7.26	7.6	6.86	5.63	8	7.48	7.62	7.7	7.59	6.84
2	Temperature °C	31.5	32.2	32	33	28.1	27.3	29.7	28.9	28.6	26.9	27.3	30
3	Conductivity µs/cm	46300	47370	51100	25690	662.5	168.5	39.27	37200	35100	66900	66800	57660
4	Dissolved Oxygen mg/l	5.8	5.7	5.3	6.7	6.5	6.7	5.4	6.4	6.5	5.2	6.4	6.2
5	Turbidity (NTU)	8.52	6.45	9.48	4.47	27.5	12.6	11.3	10.6	4.65	11.3	10.4	7.98
6	Nitrite Nitrogen mg/l	0.02	0.005	0.006	0.001	0.01	0.005	0.118	0.017	0.05	0.07	0.003	0.003
7	Nitrogen(Nitrate) mg/l	0.02	0.05	0.04	BDL	0.23	0.16	0.06	0.06	0.068	0.103	0.01	0.41
8	Phosphate mg/l	0.02	0.01	0.04	0.01	0.036	0.021	0.037	0.027	0.002	0.001	0.03	BDL
9	BOD mg/l	2.4	2.9	0.8	0.8	1.4	0.6	1.2	2.4	1.8	0.6	1.2	3.2
10	COD mg/l	76	32	54		10	1	74				-	-
11	Chloride mg/l	72.2	16870	21770	9897	611.5	99.9	15995	16245	21769.9	8218.7	23493	19079
12	Fecal Coliform MPN/100 ml	780	7000	3300	1300	7900	4900	3300	3300	2300	3300	1100	780
13	Total Coliform MPN/100 ml	780	11000	4900	2300	11000	7900	7000	4900	4600	4600	1700	1700
14	Ammonia mg/l	0.14	0.07	0.08	0.19	0.109	0.005	0.025	0.009	0.01	0.057	0.005	0.098
15	Total Dissolved Solids(mg/l)	28879	-	-	-	327	350	310	27	18156	53149	41268	47026
16	Total Fixed Solids (mg/l)	22788	-	-	-	270	280	270	368	12510	26321	20965	23694
17	Total Suspended Solid (mg/l)	17	-	-	-	13	25	20	32	19	22	27	30
18	Hardness(mg/l)	5400	-	-	-	40	14	4800	5600	4800	8200	9500	8000
19	Fluoride(mg/l)	1.18	-	-	-	0.55	0.42	1.13	1.2	1.55	0.49	0.5	0.8
20	Boron(mg/l)	24.46	-	-	-	0.22	1.2	19	15.2	2.73	3.3	6.9	9.85
21	Sulphate (mg/l)	1263.9	-	-	-	14.49	3.1	594.9	636.1	252.3	1023.2	909.5	1522.9
22	Total Alkalinity(mg/l)	108	-	-	-	18	20	186	224	98	92	90	122
23	Phenolphthalein Alkalinity(mg/l)	12	-	-	-	0	0	0	0	0	6	0	0
24	Sodium(mg/l)	1667	-	-	-	27.1	27.3	6797	7828	9871	10034	8287	5386
25	Potassium(mg/l)	299.3	-	-	-	2.1	3.7	287.4	216.5	225	249.2	220.8	255.8
26	Calcium as CaCO3(mg/l)	700	-	-	-	22	12	2000	2000	600	4400	2250	2000
27	Magnesium(mg/l)	1142.1	-	-	-	4.37	0.5	680.4	874.8	1020.6	923.4	1761.8	1458

INLET SAMPLE TO STP AT TONCA, PANAJI 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	6.75	6.68	6.86	6.51	6.82	6.3	6.85	6.6	6.8	7.48	7.51	7.15
2	BOD mg/l	274.29	139	466.7	333	280	250	290	234	260	300	330	325
3	COD mg/l	360	300	840	530	490	480	640	460	470	620	650	630
4	Total Suspended Solid (mg/l)	86	310	160	234	190	220	265	99	120	72.0	121	232

OUTLET SAMPLE TO STP AT TONCA, PANAJI 2014-2015

Sr. No	Parameters	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	pH	7.35	7.2	6.41	6.92	6.9	6.94	6.95	6.78	7.24	7.68	7.62	7.06
2	BOD mg/l	5.33	2.8	16.8	18	20	18.8	13	13	6	4.3	5.6	4.22
3	COD mg/l	30	19	40	50	50	50	30	40	20	60	70.0	70
4	Total Suspended Solid (mg/l)	11	4	16	17	18	19	14	23	8	7.0	16	13

**BOREWELL/TUBE WELL/ OPEN WELL IN ZUARI INDUSTRIES LTD, ZUARINAGAR
2014-2015**

Sr. No	Parameters	Apr-14	Oct-14
1	pH	Sample not Collected since borewell was dismantled	6.3
2	Temperature °C		30
3	Conductivity µs/cm		1542
4	Dissolved Oxygen mg/l		6.4
5	Turbidity (NTU)		0.79
6	Nitrite Nitrogen mg/l		BDL
7	Nitrogen(Nitrate) mg/l		0.09
8	Phosphate mg/l		0.04
9	BOD mg/l		1.5
10	COD mg/l		2
11	Chloride mg/l		8.26
12	Fecal Coliform MPN/100 ml		NIL
13	Total Coliform MPN/100 ml		<1.8
14	Ammonia mg/l		0.02
15	Total Dissolved Solids(mg/l)		1018
16	Total Fixed Solids (mg/l)		63
17	Total Suspended Solid (mg/l)		2
18	Hardness(mg/l)		66
19	Fluoride(mg/l)		0.02
20	Boron(mg/l)		2.82
21	Sulphate (mg/l)		0.67
22	Total Alkalinity(mg/l)		76
23	Phenolphthalein Alkalinity(mg/l)		0
24	Sodium(mg/l)		8.3
25	Potassium(mg/l)		3.5
26	Calcium as CaCO ₃ (mg/l)		36
27	Magnesium(mg/l)		7.29

BOREWELL/TUBE WELL/OPEN WELL AT SANCOALE INDUSTRIAL ESTATE 2014-2015

Sr. No	Parameters	Apr-14	Oct-14
1	pH	6.15	7.31
2	Temperature °C	31.6	29
3	Conductivity µs/cm	94.2	1439
4	Dissolved Oxygen mg/l	6.7	7.8
5	Turbidity (NTU)	171	3.92
6	Nitrite Nitrogen mg/l	0.01	0.002
7	Nitrogen(Nitrate) mg/l	0.07	1.11
8	Phosphate mg/l	0.03	0.04
9	BOD mg/l	0.6	0.7
10	COD mg/l	4	3
11	Chloride mg/l	16.15	12.6
12	Fecal Coliform MPN/100 ml	NIL	17
13	Total Coliform MPN/100 ml	<1.8	33
14	Ammonia mg/l	0.003	0.02
15	Total Dissolved Solids(mg/l)	368	978
16	Total Fixed Solids (mg/l)	234	52
17	Total Suspended Solid (mg/l)	4	3
18	Hardness(mg/l)	40	36
19	Fluoride(mg/l)	0.41	0.24
20	Boron(mg/l)	0.25	0.29
21	Sulphate (mg/l)	1.41	0.72
22	Total Alkalinity(mg/l)	31	36
23	Phenolphthalein Alkalinity(mg/l)	0	0
24	Sodium(mg/l)	8.9	9.5
25	Potassium(mg/l)	15.1	3
26	Calcium as CaCO ₃ (mg/l)	12	20
27	Magnesium(mg/l)	6.8	3.88

BOREWELL/TUBE WELL/ OPEN WELL AT VERNA INDUSTRIAL ESTATE 2014-2015

Sr. No	Parameters	Apr-14	Oct-14
1	pH	7.04	6.86
2	Temperature °C	31.8	32
3	Conductivity µs/cm	249.9	1486
4	Dissolved Oxygen mg/l	3.9	4.7
5	Turbidity (NTU)	0.77	1.32
6	Nitrite Nitrogen mg/l	0.001	BDL
7	Nitrogen(Nitrate) mg/l	1.31	0.02
8	Phosphate mg/l	0.02	0.01
9	BOD mg/l	0.8	0.6
10	COD mg/l	3	9
11	Chloride mg/l	19	12.2
12	Fecal Coliform MPN/100 ml	NIL	4.5
13	Total Coliform MPN/100 ml	2	11
14	Ammonia mg/l	0.001	0.01
15	Total Dissolved Solids(mg/l)	364	250
16	Total Fixed Solids (mg/l)	324	-
17	Total Suspended Solid (mg/l)	5	33
18	Hardness(mg/l)	100	90
19	Fluoride(mg/l)	0.52	0.11
20	Boron(mg/l)	0.22	0.96
21	Sulphate (mg/l)	17.95	12.33
22	Total Alkalinity(mg/l)	99	80
23	Phenolphthalein Alkalinity(mg/l)	0	0
24	Sodium(mg/l)	4	10.6
25	Potassium(mg/l)	14.1	6.1
26	Calcium as CaCO ₃ (mg/l)	46	40
27	Magnesium(mg/l)	13.1	12.15

BOREWELL/ TUBE WELL/ OPEN WELL KUNDAIM INDUSTRIAL ESTATE 2014-2015

Sr. No	Parameters	Apr-14	Oct-14
1	pH	6.63	6.05
2	Temperature °C	31	29.7
3	Conductivity µs/cm	208.1	1479
4	Dissolved Oxygen mg/l	4.8	3.8
5	Turbidity (NTU)	48.4	3.37
6	Nitrite Nitrogen mg/l	0.007	0.001
7	Nitrogen(Nitrate) mg/l	3.51	1.12
8	Phosphate mg/l	0.3	0.012
9	BOD mg/l	1.6	0.1
10	COD mg/l	4	9
11	Chloride mg/l	54.9	16.5
12	Fecal Coliform MPN/100 ml	NIL	NIL
13	Total Coliform MPN/100 ml	<1.8	<1.8
14	Ammonia mg/l	0.06	0.01
15	Total Dissolved Solids(mg/l)	97	173
16	Total Fixed Solids (mg/l)	106	98
17	Total Suspended Solid (mg/l)	16	7
18	Hardness(mg/l)	70	5600
19	Fluoride(mg/l)	BDL	0.11
20	Boron(mg/l)	2.6	19
21	Sulphate (mg/l)	170.6	0.1
22	Total Alkalinity(mg/l)	700	56
23	Phenolphthalein Alkalinity(mg/l)	0	0
24	Sodium(mg/l)	9.5	30.4
25	Potassium(mg/l)	14.1	7
26	Calcium as CaCO ₃ (mg/l)	58	5200
27	Magnesium(mg/l)	2.9	97

BORE WELL/ TUBE WELL / OPENWELL IN CORLIM INDUSTRIAL ESTATE 2014-2015

Sr. No	Parameters	Apr-14	Oct-14
1	pH	5.4	6.1
2	Temperature °C	30	28.5
3	Conductivity µs/cm	45.4	1420
4	Dissolved Oxygen mg/l	7.8	7.3
5	Turbidity (NTU)	0.49	0.43
6	Nitrite Nitrogen mg/l	0.002	0.001
7	Nitrogen(Nitrate) mg/l	0.13	0.26
8	Phosphate mg/l	0.04	0.007
9	BOD mg/l	1.1	0.2
10	COD mg/l	3	10
11	Chloride mg/l	14.73	13.5
12	Fecal Coliform MPN/100 ml	23	49
13	Total Coliform MPN/100 ml	79	170
14	Ammonia mg/l	0.03	0.015
15	Total Dissolved Solids(mg/l)	467	400
16	Total Fixed Solids (mg/l)	289	223
17	Total Suspended Solid (mg/l)	3	3
18	Hardness(mg/l)	14	16
19	Fluoride(mg/l)	0.2	0.1
20	Boron(mg/l)	0.18	19
21	Sulphate (mg/l)	1.74	2.2
22	Total Alkalinity(mg/l)	18	20
23	Phenolphthalein Alkalinity(mg/l)	0	0
24	Sodium(mg/l)	11.2	164.6
25	Potassium(mg/l)	15.1	9
26	Calcium as CaCO ₃ (mg/l)	8	10
27	Magnesium(mg/l)	1.5	1.5

BOREWELL/TUBE WELL/OPEN WELL IN PILERNE INDUSTRIAL ESTATE 2014-2015

Sr. No	Parameters	Apr-14	Oct-14
1	pH	6.95	5.9
2	Temperature °C	31	31.6
3	Conductivity µs/cm	155.04	1497
4	Dissolved Oxygen mg/l	6.9	2.01
5	Turbidity (NTU)	3.09	5.66
6	Nitrite Nitrogen mg/l	0.02	BDL
7	Nitrogen(Nitrate) mg/l	1.19	0.28
8	Phosphate mg/l	0.43	0.046
9	BOD mg/l	0.3	0.15
10	COD mg/l	2	11
11	Chloride mg/l	17.48	11.9
12	Fecal Coliform MPN/100 ml	23	NIL
13	Total Coliform MPN/100 ml	79	<1.8
14	Ammonia mg/l	0.027	0.009
15	Total Dissolved Solids(mg/l)	119	120
16	Total Fixed Solids (mg/l)	99	89
17	Total Suspended Solid (mg/l)	10	7
18	Hardness(mg/l)	38	56
19	Fluoride(mg/l)	BDL	0.23
20	Boron(mg/l)	0.77	17
21	Sulphate (mg/l)	1.74	11.5
22	Total Alkalinity(mg/l)	28	102
23	Phenolphthalein Alkalinity(mg/l)	0	0
24	Sodium(mg/l)	18.9	19
25	Potassium(mg/l)	14.5	7.5
26	Calcium as CaCO ₃ (mg/l)	8.82	52
27	Magnesium(mg/l)	3.9	0.9

BORE WELL/TUBE WELL/ OPEN WELL IN CUNCOLIM INDUSTRIAL ESTATE 2014-2015

Sr. No	Parameters	Apr-14	Oct-14
1	pH	7.02	7
2	Temperature °C	32.2	29.2
3	Conductivity µs/cm	328	13.63
4	Dissolved Oxygen mg/l	4.4	3.1
5	Turbidity (NTU)	4.1	0.37
6	Nitrite Nitrogen mg/l	0.002	0.001
7	Nitrogen(Nitrate) mg/l	0.15	BDL
8	Phosphate mg/l	0.01	0.005
9	BOD mg/l	3	0.1
10	COD mg/l	1	BDL
11	Chloride mg/l	13.1	9.8
12	Fecal Coliform MPN/100 ml	2	13
13	Total Coliform MPN/100 ml	13	33
14	Ammonia mg/l	0.05	0.027
15	Total Dissolved Solids(mg/l)	243	210
16	Total Fixed Solids (mg/l)	190	-
17	Total Suspended Solid (mg/l)	9	-
18	Hardness(mg/l)	132	132
19	Fluoride(mg/l)	0.54	0.174
20	Boron(mg/l)	0.08	0.725
21	Sulphate (mg/l)	1.4	9.2
22	Total Alkalinity(mg/l)	24	124
23	Phenolphthalein Alkalinity(mg/l)	0	-
24	Sodium(mg/l)	1.6	11.1
25	Potassium(mg/l)	14.5	4.3
26	Calcium as CaCO ₃ (mg/l)	34.47	132
27	Magnesium(mg/l)	11.18	16

BOREWELL/TUBE WELL/OPEN WELL IN BETHORA INDUSTRIAL ESTATE 2014-2015

Sr. No	Parameters	Apr-14	Oct-14
1	pH	5.45	6.86
2	Temperature °C	31	30
3	Conductivity µs/cm	82.5	1.429
4	Dissolved Oxygen mg/l	4.2	5.8
5	Turbidity (NTU)	0.82	1.2
6	Nitrite Nitrogen mg/l	0.001	0.002
7	Nitrogen(Nitrate) mg/l	1.42	0.899
8	Phosphate mg/l	0.001	BDL
9	BOD mg/l	0.7	1.6
10	COD mg/l	6	7
11	Chloride mg/l	11.5	8
12	Fecal Coliform MPN/100 ml	NIL	7.8
13	Total Coliform MPN/100 ml	<1.8	17
14	Ammonia mg/l	0.04	0.03
15	Total Dissolved Solids(mg/l)	54	204
16	Total Fixed Solids (mg/l)	105	68
17	Total Suspended Solid (mg/l)	2	3
18	Hardness(mg/l)	18	14
19	Fluoride(mg/l)	0.67	BDL
20	Boron(mg/l)	1.81	1.53
21	Sulphate (mg/l)	1.98	0.3
22	Total Alkalinity(mg/l)	160	240
23	Phenolphthalein Alkalinity(mg/l)	0	0
24	Sodium(mg/l)	10.8	10.1
25	Potassium(mg/l)	15.3	3.7
26	Calcium as CaCO ₃ (mg/l)	18	6
27	Magnesium(mg/l)	0.5	1.9

BOREWELL/ TUBEWELL/OPENWELL IN MADKAI INDUSTRIAL ESTATE 2014-2015

Sr. No	Parameters	Apr-14	Oct-14
1	pH	7.55	6.71
2	Temperature °C	31.5	31.6
3	Conductivity µs/cm	253.2	1404
4	Dissolved Oxygen mg/l	2.9	5
5	Turbidity (NTU)	0.61	0.41
6	Nitrite Nitrogen mg/l	0.001	0.001
7	Nitrogen(Nitrate) mg/l	0.06	1.515
8	Phosphate mg/l	0.02	0.009
9	BOD mg/l	0.4	1.5
10	COD mg/l	5.2	5
11	Chloride mg/l	9.8	13
12	Fecal Coliform MPN/100 ml	NIL	240
13	Total Coliform MPN/100 ml	<1.8	540
14	Ammonia mg/l	0.06	0.043
15	Total Dissolved Solids(mg/l)	179	228
16	Total Fixed Solids (mg/l)	99	174
17	Total Suspended Solid (mg/l)	4	3
18	Hardness(mg/l)	128	24
19	Fluoride(mg/l)	0.07	BDL
20	Boron(mg/l)	0.55	7.74
21	Sulphate (mg/l)	7.4	0.89
22	Total Alkalinity(mg/l)	120	200
23	Phenolphthalein Alkalinity(mg/l)	0	0
24	Sodium(mg/l)	16.7	9.7
25	Potassium(mg/l)	14.1	2.5
26	Calcium as CaCO ₃ (mg/l)	60	10
27	Magnesium(mg/l)	113.4	3.4

