

RIVER CHAPORA NEAR ALORNA FORT, PERNEM 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.48	6.83	7.2	7.34	6.93	8.25	7.6	7.08	7.77	7.09	7.12	7.01
2	Temperature °C	27.8	32	30	29	28	29	26.4	30.6	27.2	26	26.8	28.6
3	Conductivity µs/cm	554.67	640.65	4680	77.5	66.5	69.08	71.49	113.87	2219	2272	135.97	852.26
4	Dissolved Oxygen mg/l	7	6.2	5.9	7	7.3	7.2	7.3	6.9	6.6	7.1	7.2	7.1
5	Turbidity (NTU)	2.15	2.38	1.99	5.16	3.92	3.93	2.9	4.82	2.85	2.1	2.28	2.35
6	Nitrite Nitrogen mg/l	0.02	0.001	0.008	0.003	0.002	0.004	0.013	0.004	0.006	0.01	BDL	0.002
7	Nitrogen(Nitrate) mg/l	0.04	0.04	0.04	0.65	0.02	0.27	0.14	0.03	0.13	0.05	0.08	0.06
8	Phosphate mg/l	0.035	0.005	0.01	0.003	0.006	0.015	0.005	0.005	0.007	0.003	0.01	0.002
9	BOD mg/l	0.9	0.4	2.3	0.6	0.7	0.8	1.1	0.9	1.7	0.5	0.9	0.5
10	COD mg/l	11	12	16	5	2	3	7	5	12	10	4	4
11	Chloride mg/l	1408	925	1874.4	5.8	4.37	4.5	5	24	733.82	819.6	23.97	291.4
12	Fecal Coliform MPN/100 ml	1300	2300	4900	3300	2300	4900	2300	2300	1300	780	780	1700
13	Total Coliform MPN/100 ml	2300	4900	7900	7000	3300	7000	4600	4600	2300	1300	1300	3300
14	Ammonia mg/l	0.011	0.1	0.06	0.05	0.08	0.008	0.11	0.01	0.02	0.06	BDL	0.002
15	Total Dissolved Solids(mg/l)	354	720	35414	71	53	79	50	77	1248	1375	544	90
16	Total Fixed Solids (mg/l)	62	628	580	34	17	11	20	38	108	709	300	45
17	Total Suspended Solid (mg/l)	7	13	9	20	4	19	11	8	20	10	8	8
18	Hardness(mg/l)	68	74	394	22	24	22	26	36	222	218	28	76
19	Fluoride(mg/l)	0.047	0.05	0.53	0.06	0.02	0.08	0.45	BDL	0.47	0.27	0.09	0.12
20	Boron(mg/l)	1.35	9.2	-	4.38	0.09	0.54	0.66	1.86	0.81	0.12	-	0.67
21	Sulphate (mg/l)	8.8	17.5	482.9	3.48	1.77	159.3	1.9	29.59	92.99	42.09	9.9	19.85
22	Total Alkalinity(mg/l)	30	32	720	64	34	28	3.6	48	62	40	32	38
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	95.2	74.5	252.3	-	6.2	14.7	6.1	19.8	7.9	328.1	16.8	84.4
25	Potassium(mg/l)	6.6	5.1	23.2	-	2	2.3	2.1	8.3	1.9	11.8	1.1	3.7
26	Calcium as CaCO ₃ (mg/l)	8	22	80	6.4	10	14	16	16	58	44	14	22
27	Magnesium(mg/l)	11.7	12.6	76.3	1.5	3.4	1.9	2.4	4.86	39.9	42.28	3.4	13.12

RIVER KALNA AT CHANDEL, PERNEM 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.81	7.42	6.95	7.35	6.89	8.41	7.7	7.12	8.05	7	7.34	6.8
2	Temperature °C	27.2	31	28	29	28	27.5	26.6	28	27	24.7	26.3	28.7
3	Conductivity µs/cm	82.32	68.45	82.15	81.09	68	75.08	64.89	74.55	115.68	86.6	107.74	77.67
4	Dissolved Oxygen mg/l	6.5	6.3	6.3	7.5	7.5	7.4	7.3	7.5	7.2	7.4	6.6	7.4
5	Turbidity (NTU)	2.18	2.12	2.22	2.15	2.97	2.42	7.19	2.07	2.27	1.75	2.29	2.98
6	Nitrite Nitrogen mg/l	0.002	0.002	0.004	0.002	0.006	0.007	0.003	0.002	0.003	0.002	BDL	0.003
7	Nitrogen(Nitrate) mg/l	0.039	0.03	0.01	0.51	0.02	0.13	0.01	0.14	0.07	0.04	0.01	0.03
8	Phosphate mg/l	0.055	0.008	0.01	0.001	0.08	0.006	0.004	0.004	0.02	0.01	0.03	0.04
9	BOD mg/l	2.5	0.8	3.4	1.7	1.3	0.8	1.2	1	1.1	1.9	1.2	1.9
10	COD mg/l	9	10	18	4	4	4	8	2	8	3	3	5
11	Chloride mg/l	7.28	6.1	12.5	10.9	4.37	7.5	15	6.8	31.8	7.23	7.34	7.77
12	Fecal Coliform MPN/100 ml	3300	3300	4900	2300	4900	4900	4900	1700	2300	1700	1300	1300
13	Total Coliform MPN/100 ml	4900	4900	7900	3300	7900	7900	7900	3300	4600	3300	1700	2300
14	Ammonia mg/l	0.19	0.08	0.06	0.05	0.11	0.002	0.03	0.01	0.002	0.08	0.01	0.01
16	Total Dissolved Solids(mg/l)	60	68	81	89	50	79	45	51	72	65	76	61
17	Total Fixed Solids (mg/l)	20	45	50	41	23	57	22	21	16	31	35	49
18	Total Suspended Solid (mg/l)	16	12	10	43	11	14	10	17	24	15	3	7
19	Hardness(mg/l)	22	32	28	24	20	26	18	28	32	28	36	28
20	Fluoride(mg/l)	BDL	0.07	0.46	0.01	0.02	0.18	0.6	BDL	0.01	0.13	0.11	0.05
21	Boron(mg/l)	2.4	-	-	1.91	0.32	0.13	0.15	0.12	0.21	0.01	BDL	BDL
22	Sulphate (mg/l)	1.64	2.6	5.74	6.67	2.13	120.8	1.7	2.83	3.64	2.13	3.74	2.05
23	Total Alkalinity(mg/l)	38	40	600	68	34	28	40	40	46	44	38	36
24	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	6	0	0	0	0	0	0	0
25	Sodium(mg/l)	7.6	8.3	9	-	5.5	6.8	4.2	8.2	4.8	6.2	9.4	0.4
26	Potassium(mg/l)	4.2	0.2	0.5	-	1.9	0.6	1.9	5.1	2.5	3.9	0.8	0
27	Calcium as CaCO ₃ (mg/l)	5.67	16	14	6.4	12	10	14	14	24	16	20	14
28	Magnesium(mg/l)	1.94	3.9	3.4	1.9	1.94	3.9	0.97	3.4	1.9	2.92	3.88	3.4

RIVER MAPUSA ON CULVERT ON HIGHWAY MAPUSA-PANAJI 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.82	6.83	6.99	6.85	6.61	7.6	7.4	6.65	7.28	6.85	6.91	7.03
2	Temperature °C	28	32	28.7	30.5	29	30.5	28.5	30.1	26.8	25.7	27.7	29.1
3	Conductivity ms/cm	10.08	12.2	14.38	0.2892	0.216	50.63	0.196	0.5812	3740	9.96	12.41	16.43
4	Dissolved Oxygen mg/l	8.3	6.8	4.9	2.8	3.7	3.6	4.1	2.8	3.3	3.6	5.2	3.6
5	Turbidity (NTU)	2.24	2.25	2.45	9.7	10.4	5.45	6.05	3.41	3.37	0.51	1.38	1.23
6	Nitrite Nitrogen mg/l	0.002	0.003	0.015	0.022	0.003	BDL	0.001	0.011	0.006	0.006	0.01	0.005
7	Nitrogen(Nitrate) mg/l	0.015	0.03	0.11	0.67	0.41	0.6	0.32	0.04	0.18	0.13	0.26	0.1
8	Phosphate mg/l	0.15	0.05	0.13	0.05	0.01	0.03	0.02	0.04	0.02	0.01	0.02	0.01
9	BOD mg/l	2.3	1.2	1.4	3	1.5	1	2	1.9	1.9	1.4	0.9	2.4
10	COD mg/l	49	-	41	14	18	20	20	12	-	-	-	-
11	Chloride mg/l	3278	3521	3648.9	29.1	34.97	56	48	156	9784.2	16199.23	4207.2	5220.9
12	Fecal Coliform MPN/100 ml	7900	2300	7900	2300	7900	2300	7900	2300	3300	4600	4900	7900
13	Total Coliform MPN/100 ml	13000	3300	11000	3300	11000	3300	13000	3300	4900	7000	7900	14000
14	Ammonia mg/l	0.029	0.1	0.06	0.2	0.06	0.002	0.02	0.01	0.04	0.14	BDL	0.01
15	Total Dissolved Solids(mg/l)	5720	5288	8995	176	140	959	120	407	2065	6388	8617	9267
16	Total Fixed Solids (mg/l)	132	3842	6495	-	90	168	80	297	175	3995	6297	5153
17	Total Suspended Solid (mg/l)	38	39	7	11	16	22	17	18	17	32	29	17
18	Hardness(mg/l)	2000	3500	1680	100	38	46	34	68	396	910	1600	3400
19	Fluoride(mg/l)	0.397	0.41	0.72	0.12	0.02	0.15	0.8	0.1	0.24	0.49	0.53	0.51
20	Boron(mg/l)	5.9	9.3	-	2.3	0.13	0.15	0.41	1.5	0.99	0.69	-	BDL
21	Sulphate (mg/l)	99.3	554.6	608.1	37.7	5.04	729.9	6.6	19.09	98.97	323.86	264.9	580.24
22	Total Alkalinity(mg/l)	100	122	1300	90	34	32	46	54	80	78	74	80
23	Phenolphthalein Alkalinity(mg/l)	0.1	0	10	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	750.3	655.3	636	-	24	40.5	28.1	86.1	19.4	1247	672.9	579
25	Potassium(mg/l)	50.4	50.8	51.6	-	2.9	3.3	4.2	14.6	6.1	46.8	63.2	69.7
26	Calcium as CaCO3(mg/l)	94.6	600	300	8.8	24	28	20	28	98	190	400	308
27	Magnesium(mg/l)	428.7	704.7	335.3	19	3.4	4.4	3.4	9.72	72.4	174.96	291.6	751.36

RIVER ASSANORA AT ASSANORA 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.01	6.85	6	6.89	6.56	7.03	6.76	6.85	7.3	7.04	6.72	6.62
2	Temperature °C	28	27	28	28.7	28	27.1	25	27.6	28.5	26	27.6	28.9
3	Conductivity µs/cm	64.09	61.68	63.76	67.9	63.8	51	89.29	80.59	69.41	42.9	61.32	18.52
4	Dissolved Oxygen mg/l	6.3	7	6	6.5	6.9	7.1	6.9	6.4	6.4	6.4	7.2	5.6
5	Turbidity (NTU)	4.01	2.76	5.05	4.98	2.8	12.4	2.73	5.34	5.33	5.04	3.08	2.56
6	Nitrite Nitrogen mg/l	0.002	0.002	0.003	0.015	0.002	0.003	0.003	0.002	0.003	0.003	0.003	0.003
7	Nitrogen(Nitrate) mg/l	0.06	0.1	0.02	0.05	0.04	0.12	0.16	0.12	0.03	0.12	0.02	0.13
8	Phosphate mg/l	0.03	0.02	0.05	0.007	0.05	0.04	0.01	0.04	0.01	0.02	0.01	0.01
9	BOD mg/l	1.1	1.2	1.3	1.4	1.4	1.5	1.8	0.4	1	1.3	2.6	1.3
10	COD mg/l	2	9	10	7	2	12	7	10	2	21	4	5
11	Chloride mg/l	30.5	22.5	5	11.25	5	16.14	26	13.21	4.4	25	2.89	3.2
12	Fecal Coliform MPN/100 ml	790	790	1300	330	1300	4900	4900	3300	1300	490	79	790
13	Total Coliform MPN/100 ml	1100	1100	2400	700	2300	7000	9400	7000	2300	790	350	1300
14	Ammonia mg/l	0.025	0.01	0.05	0.01	0.05	0.11	0.03	0.02	0.03	0.01	0.01	0.02
15	Total Dissolved Solids(mg/l)	46	37	33	39	95	89	66	108	69	23	40	51
16	Total Fixed Solids (mg/l)	22	16	29	24	86	11	52	67	50	18	12	15
17	Total Suspended Solid (mg/l)	7	6	6	16	8	16	2	26	13	6	4	6
18	Hardness(mg/l)	24	24	30	14	24	22	14	24	26	18	30	24
19	Fluoride(mg/l)	0.1	0.08	0.05	0.01	0.14	0.61	BDL	0.12	BDL	BDL	BDL	0.14
20	Boron(mg/l)	10	0.1	0.04	1.09	0.03	0.81	-	0.91	BDL	0.6	0.08	0.2
21	Sulphate (mg/l)	1.7	2.17	2.6	2.7	2	2.1	2.93	0.92	2.28	2.06	1.36	3.5
22	Total Alkalinity(mg/l)	36	30	30	18	26	22	220	30	38	260	30	0.5
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	7.6	6.1	4.2	3.8	5.5	2.1	9	6.9	8.2	5.4	3.6	14.3
25	Potassium(mg/l)	4.3	0.1	0.8	1.9	2.1	0.5	2.3	0.8	7.7	2.7	0.4	5.6
26	Calcium as CaCO3(mg/l)	12	16	16	12	12	16	12	16	16	16	12	12
27	Magnesium(mg/l)	2.9	1.94	3.4	0.49	2.9	1.5	0.5	1.9	2.43	0.5	4.37	2.9

RIVER VALVANTI AT SANQUELIM 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.68	6.94	6.02	6.96	6.62	7.17	6.67	6.12	6.9	6.99	6.97	6.63
2	Temperature °C	28.5	28	28	28.6	28	27	25	30.5	30.1	26.9	28.7	30.8
3	Conductivity µs/cm	65.45	63.49	71.3	59.1	51.5	52.4	62.31	64.44	72.42	135.7	76.88	19.54
4	Dissolved Oxygen mg/l	6.6	7.6	8.9	8	7.6	7	7.8	7.9	8.1	7.6	7.6	6.8
5	Turbidity (NTU)	202	2.33	5.37	1.75	3.02	40.8	2.53	4.45	1.52	1.29	5.66	1.9
6	Nitrite Nitrogen mg/l	0.002	0.002	0.003	0.01	0.001	0.008	0.003	0.003	0.002	0.004	0.002	0.003
7	Nitrogen(Nitrate) mg/l	0.04	BDL	BDL	0.02	0.01	0.09	0.06	0.09	0.01	0.05	0.07	0.03
8	Phosphate mg/l	0.02	0.02	0.02	0.27	0.05	0.03	0.01	0.03	BDL	0.01	0.01	0.003
9	BOD mg/l	1.5	1.3	3.6	1	0.8	2.6	1.1	2.7	2.6	2.5	2.6	1.4
10	COD mg/l	1	6	11	9	2	17	3	14	4	26	6	7
11	Chloride mg/l	9	35.71	5.5	8.32	3	7.34	14.5	8.32	4.4	24.5	4.82	5.7
12	Fecal Coliform MPN/100 ml	11000	7900	7900	3300	3300	4900	4900	4900	2300	1300	4900	4900
13	Total Coliform MPN/100 ml	14000	14000	14000	4900	4900	7900	7900	7900	4900	2300	7000	7900
14	Ammonia mg/l	0.02	0.01	0.01	0.02	0.02	0.16	0.05	0.01	0.02	0.02	0.004	0.01
15	Total Dissolved Solids(mg/l)	52	38	32	35	68	49	43	212	43	73	51	57
16	Total Fixed Solids (mg/l)	30	26	15	22	58	17	33	116	35	60	11	17
17	Total Suspended Solid (mg/l)	8	12	7	15	8	19	5	15	5	10	4	5
18	Hardness(mg/l)	28	20	18	26	18	16	6	28	26	52	32	24
19	Fluoride(mg/l)	0.17	0.05	0.1	0.04	0.08	0.77	BDL	0.09	0.01	0.12	0.09	0.18
20	Boron(mg/l)	-	0.09	0.14	4.88	0.1	1.34	1.92	1.14	BDL	0.58	BDL	0.17
21	Sulphate (mg/l)	1.7	2.19	4	0.96	2.3	24.22	3.32	0.84	2.11	6.72	1.71	3.2
22	Total Alkalinity(mg/l)	50	30	36	22	28	28	220	44	36	460	34	0.5
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	7.6	4.4	4.5	3.2	5	2.1	4.7	7	10.9	8.4	4.5	10.1
25	Potassium(mg/l)	4.3	0.2	0.9	2.2	2	0.5	1.6	1.9	7.5	5.3	0.5	5.6
26	Calcium as CaCO3(mg/l)	16	12	8	12	16	12	6	24	16	20	14	20
27	Magnesium(mg/l)	2.9	1.94	2.4	3.4	0.5	1	0	1	2.43	7.8	4.37	0.97

RIVER MADEI AT DABOSE, VALPOI 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.97	6.99	6.17	7.16	6.86	7.4	7.45	5.55	7.12	6.46	6.91	7.26
2	Temperature °C	28	28	27.8	28.9	27	27.2	25	27.8	27.4	27.4	28.3	32.4
3	Conductivity µs/cm	125.61	134.34	127.64	66.7	57.5	69.8	274.79	90.89	107.02	70.39	116.63	33.82
4	Dissolved Oxygen mg/l	8.5	7.2	6.6	7.1	7.9	7.6	7.7	7.1	7.1	7.8	8.6	6.3
5	Turbidity (NTU)	2.3	3.56	3.23	9.77	11.46	4.8	7.15	4.6	0.86	1.92	1.8	1.34
6	Nitrite Nitrogen mg/l	0.002	0.004	0.006	0.012	0.002	0.003	0.01	0.002	0.002	0.003	0.001	0.002
7	Nitrogen(Nitrate) mg/l	0.003	0.08	0.08	0.01	0.01	0.05	0.06	0.04	0.01	0.07	0.03	0.11
8	Phosphate mg/l	0.01	0.01	0.05	0.02	0.02	0.01	0.01	0.02	0.07	0.01	0.01	0.001
9	BOD mg/l	1.7	1.7	1.2	1.3	0.7	1.9	2.6	3.2	1.5	1.7	1	1.3
10	COD mg/l	5	5	2	5	1	13	14	17	2	21	2	3
11	Chloride mg/l	10	6.36	8.5	10.27	2	7.83	87	9.29	8.3	16.5	6.75	7.1
12	Fecal Coliform MPN/100 ml	1100	1300	790	490	1300	3300	1300	1300	780	200	230	78
13	Total Coliform MPN/100 ml	1400	1700	1400	940	1700	4900	2100	2300	2300	780	490	130
14	Ammonia mg/l	0.05	0.03	0.04	0.03	0.02	0.28	0.04	0.02	0.01	0.02	0.01	0.01
15	Total Dissolved Solids(mg/l)	78	79	59	41	138	72	214	190	120	33	67	74
16	Total Fixed Solids (mg/l)	54	51	48	32	114	30	189	82	95	26	27	20
17	Total Suspended Solid (mg/l)	10	6	4	12	37	11	5	18	23	8	4	6
18	Hardness(mg/l)	50	52	50	16	14	22	48	30	34	22	48	50
19	Fluoride(mg/l)	0.12	0.1	0.13	0.01	0.14	0.14	0.23	0.09	0.08	0.08	0.04	0.19
20	Boron(mg/l)	-	0.08	0.1	7.17	1.9	2.11	2.31	1.79	0.02	0.53	1.4	0.1
21	Sulphate (mg/l)	1.9	3.29	3.3	2.99	3.2	25.24	10.46	0.66	2.82	4.07	1.9	1.5
22	Total Alkalinity(mg/l)	62	60	58	24	32	30	300	46	48	400	50	1.1
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	7.6	6	5.3	3.2	4.6	3	35.8	7.5	13.9	6.8	3.6	8.6
25	Potassium(mg/l)	4.5	1	1.4	1.8	2.2	0.4	3.1	1.5	9.1	2.8	0.7	5.8
26	Calcium as CaCO ₃ (mg/l)	32	32	44	14	12	20	18	26	24	14	26	26
27	Magnesium(mg/l)	4.4	4.86	1.5	0.49	0.5	0.5	7.3	1	2.43	1.9	5.35	5.8

RIVER KHANDEPAR, OPA, PONDA 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.57	7.58	7.41	6.86	6.75	6.52	6.63	6.87	7.54	7.54	7.11	7.39
2	Temperature °C	33.8	33.5	32	28.4	28.8	28.7	25	29.9	27	26.4	28	28
3	Conductivity µs/cm	107.29	157.4	106.57	6.31	51.6	59.37	229.41	62.8	110.12	117.81	144.04	114.8
4	Dissolved Oxygen mg/l	7.9	7.1	6.6	7.1	7.4	6.2	6.9	6.8	7	7.4	7.2	8.4
5	Turbidity (NTU)	4.21	3.78	4.29	2.36	7.39	1.67	2.89	2.07	1.58	2.52	1.78	2.88
6	Nitrite Nitrogen mg/l	0.002	0.05	0.001	0.002	0.01	0.002	0.007	0.003	0.002	0.002	0.003	0.005
7	Nitrogen(Nitrate) mg/l	0.13	BDL	0.07	0.24	0.14	0.16	0.21	0.09	0.21	0.18	0.13	0.01
8	Phosphate mg/l	0.004	0.01	0.02	0.02	0.01	0.002	0.01	0.014	0.01	0.02	0.01	0.01
9	BOD mg/l	1.5	1.3	0.4	0.8	1.1	-	0.6	1.6	0.9	2	0.7	1.8
10	COD mg/l	6	8	7	8	7	7	4	9	2	4	5	2
11	Chloride mg/l	7.83	9.8	11.74	4.5	3.4	9.5	60.66	8	13	31.31	17	13.5
12	Fecal Coliform MPN/100 ml	230	230	790	2300	1300	790	790	130	49	13	79	79
13	Total Coliform MPN/100 ml	330	330	1300	4900	1700	1300	1300	230	130	33	130	240
14	Ammonia mg/l	0.02	0.06	0.01	0.04	0.02	0.05	0.02	0.007	0.03	0.02	0.03	0.01
15	Total Dissolved Solids(mg/l)	69	96	62	75	80	68	277	280	76	70	75	62
16	Total Fixed Solids (mg/l)	40	26	50	23	75	52	4	5	37	52	58	48
17	Total Suspended Solid (mg/l)	15	5	4	4	3	5	5	6	5	2	5	3
18	Hardness(mg/l)	52	54	44	2800	18	18	46	20	34	34	34	48
19	Fluoride(mg/l)	0.02	0.01	0.05	0.19	0.24	0.7	0.84	0.1	0.11	0.13	0.09	0.46
20	Boron(mg/l)	0.6	9.7	0.87	0.94	0.37	0.005	1.98	0.18	0.5	0.82	2.2	5.93
21	Sulphate (mg/l)	0.9	3.4	2.09	2.4	1.82	241.6	4.75	1.9	1.6	3.64	4.6	4.33
22	Total Alkalinity(mg/l)	52	56	38	28	22	28	22	34	40	58	0.8	520
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	3.5	24.6	4.6	3.8	3.2	4	28.5	4.8	33.5	7.7	11.1	7.3
25	Potassium(mg/l)	0.6	1.3	0.1	1.9	1.7	6.8	2.6	2.2	9.1	3.1	7.8	2.7
26	Calcium as CaCO3(mg/l)	36	34	34	14	12	8	18	14	22	28	24	12
27	Magnesium(mg/l)	3.89	4.9	2.43	677	1.46	2.4	6.8	1.5	2.9	1.46	2.4	8.7

RIVER KHANDEPAR AT CODLI 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.58	7.74	7.16	7	6.64	6.73	6.8	6.98	7.59	7.58	7.06	7.78
2	Temperature °C	32.7	34.3	32.6	28.8	28.9	28.4	27	30	27.6	27.2	27	29
3	Conductivity µs/cm	156.42	88.9	118.13	60.8	45.6	58.54	117.12	60.5	79.6	127.34	79.03	191
4	Dissolved Oxygen mg/l	7.7	7.3	6.9	7.1	7.8	6.2	7.4	7.8	7.1	8	8.4	7.5
5	Turbidity (NTU)	3.96	1.34	1.62	2.53	6.19	1.38	1.85	1	1.75	1.61	3.06	2.1
6	Nitrite Nitrogen mg/l	0.001	0.006	0.001	0.002	BDL	BDL	0.004	0.002	0.002	0.002	0.004	0.005
7	Nitrogen(Nitrate) mg/l	0.09	0.02	0.05	0.12	0.1	0.13	0.21	0.1	0.22	0.2	0.12	0.08
8	Phosphate mg/l	0.003	0.003	BDL	0.003	0.02	0.004	0.01	0.013	0.01	0.03	0.003	0.004
9	BOD mg/l	0.5	1	0.5	0.1	1	-	0.6	2.4	1.1	1.9	3.4	1.1
10	COD mg/l	11	9	10	6	10	41	11	20	4	8	9	24
11	Chloride mg/l	16.14	9.6	11.25	5.5	3.9	7	26.42	8.5	10	31.8	10.5	20
12	Fecal Coliform MPN/100 ml	230	490	1100	330	1700	1100	490	130	78	33	350	240
13	Total Coliform MPN/100 ml	330	790	1700	490	3500	1400	1100	330	230	70	920	350
14	Ammonia mg/l	0.019	0.06	0.01	0.04	0.05	0.02	0.01	0.002	0.03	0.04	0.02	0.01
15	Total Dissolved Solids(mg/l)	106	120	79	236	121	120	483	500	49	73	79	106
16	Total Fixed Solids (mg/l)	69	59	64	19	114	68	62	68	13	49	42	92
17	Total Suspended Solid (mg/l)	5	4	6	15	6	12	9	12	4	2	4	1
18	Hardness(mg/l)	28	40	42	2200	20	14	42	20	42	42	34	38
19	Fluoride(mg/l)	0.03	0.06	0.07	0.17	0.27	0.13	0.15	0.07	0.16	0.18	0.07	0.53
20	Boron(mg/l)	0.57	9.9	0.82	0.73	1.5	0.08	1.47	0.24	0.37	0.63	2.3	5.9
21	Sulphate (mg/l)	1.96	1.4	2.48	2.2	2.29	120.8	3.26	1.6	1.7	3.07	2.9	4.83
22	Total Alkalinity(mg/l)	44	44	38	24	20	20	26	32	38	56	0.6	380
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	7.1	116.7	4.2	4.6	3.2	3.8	10.2	4	28.2	8.8	7.5	12.1
25	Potassium(mg/l)	0.7	0.4	0.3	2	1.7	7.1	1.9	1.9	8.2	6.8	2.1	2.9
26	Calcium as CaCO3(mg/l)	26	36	28	16	8	12	14	10	22	20	14	8
27	Magnesium(mg/l)	0.49	0.1	3.4	530	2.9	0.5	6.8	2.4	4.9	5.35	4.9	7.3

RIVER KUSHAWATI NEAR BUND AT KEVONA, RIVONA, SANGUEM 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.65	6.74	6.24	6.7	6.64	6.38	6.9	6.38	6.72	6.55	7.33	6.67
2	Temperature °C	29.9	29.4	27.1	26.9	27.5	27.7	27.7	29.1	29.7	25	26	28.9
3	Conductivity µs/cm	170.6	192.77	173.27	53.63	83.06	62.4	58.4	85.98	107.18	182.68	166.64	52.29
4	Dissolved Oxygen mg/l	6.1	4.4	6	7.6	6.5	7	4.2	7.3	7.7	7.2	7.2	6.3
5	Turbidity (NTU)	2.47	2.1	1.13	11.29	20.5	3.43	44.1	7.74	1.09	1.94	2.82	2.61
6	Nitrite Nitrogen mg/l	0.003	0.003	0.002	0.017	0.007	0.001	0.007	0.003	0.002	0.002	0.008	0.004
7	Nitrogen(Nitrate) mg/l	0.13	0.18	0.12	0.22	0.71	0.2	0.12	0.15	0.03	0.16	0.21	0.97
8	Phosphate mg/l	0.02	0.007	0.01	0.02	0.02	0.01	0.017	0.001	0.02	0.01	BDL	0.07
9	BOD mg/l	2	0.6	0.9	0.7	1.3	0.4	0.5	0.6	0.9	1.6	2.4	1.7
10	COD mg/l	1	4	3	3	2	3	6	10	6	6	16	7
11	Chloride mg/l	8.5	14.68	6	3.42	4	10.5	5	9	9.71	18.5	10.27	12.72
12	Fecal Coliform MPN/100 ml	1700	1300	1700	4900	7900	1300	3300	2300	780	4900	7900	3300
13	Total Coliform MPN/100 ml	3300	2300	3300	7900	13000	2300	4900	4900	2300	7900	13000	4900
14	Ammonia mg/l	0.02	0.03	0.01	0.06	0.01	0.04	0.02	0.002	0.004	0.02	0.002	0.004
15	Total Dissolved Solids(mg/l)	78	127	150	33	62	59	38	46	73	131	91	44
16	Total Fixed Solids (mg/l)	21	97	82	12	10	25	19	20	41	31	4	20
17	Total Suspended Solid (mg/l)	6	12	15	35	21	97	58	35	34	5	4	5
18	Hardness(mg/l)	76	68	86	22	26	88	18	22	56	54	64	58
19	Fluoride(mg/l)	0.17	0.06	0.09	BDL	0.09	0.16	BDL	0.19	0.21	0.13	0.04	0.1
20	Boron(mg/l)	9.4	0.45	0.01	0.09	0.13	0.32	0.1	0.97	1.92	3.12	BDL	1.13
21	Sulphate (mg/l)	2	2.71	2.9	3.2	5.4	82.2	2.15	37	2.52	3.5	1.68	11.21
22	Total Alkalinity(mg/l)	82	84	90	28	30	22	30	34	52	64	64	80
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	7.6	5.8	3	4.4	4.2	9.3	4.2	4	14.8	11.3	7	6.9
25	Potassium(mg/l)	4.5	6.5	0.7	1.9	2.6	7.4	1.8	1.8	7.5	4.9	3.2	3
26	Calcium as CaCO ₃ (mg/l)	44	40	44	10	18	10	12	14	22	36	34	46
27	Magnesium(mg/l)	7.8	6.8	10.2	2.92	1.9	19	1	1.9	8.26	4.4	7.3	2.92

RIVER TALPONA AT CANACONA 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.61	7.24	7	6.95	7.37	7.7	7.08	6.02	6.61	6.23	9.03	8.81
2	Temperature °C	29	31.7	25.5	25.5	26	29.4	29.6	30.6	29.6	26	27.9	28.7
3	Conductivity µs/cm	74.62	91.2	59.5	61.5	58.28	70.77	51.93	55.5	55.7	59.53	68.7	20.25
4	Dissolved Oxygen mg/l	6.9	7.3	7.5	8.3	7.2	7.3	7.8	7.5	7.7	7	6.6	8.9
5	Turbidity (NTU)	2.41	2.19	2.79	1.36	9.44	2.03	1.82	1.14	9.17	0.79	2.68	1.98
6	Nitrite Nitrogen mg/l	0.001	0.002	0.003	0.002	0.003	0.002	0.002	0.002	0.005	0.001	0.001	0.003
7	Nitrogen(Nitrate) mg/l	0.839	0.03	0.06	0.3	0.04	0.06	0.05	0.05	0.12	0.49	0.01	0.01
8	Phosphate mg/l	0.051	0.002	0.006	0.01	0.04	0.01	0.01	0.04	0.01	0.001	0.01	0.01
9	BOD mg/l	2.3	1.9	1.8	1	0.6	0.7	0.9	1	1.1	1.7	1.7	2.2
10	COD mg/l	7	4	7	6	8	9	3	10	8	8	7	8
11	Chloride mg/l	9.78	11.25	8.81	6	7.34	21	5.9	13.5	10	19.5	7.34	9.29
12	Fecal Coliform MPN/100 ml	230	170	330	1300	790	790	1300	130	78	7.8	23	49
13	Total Coliform MPN/100 ml	330	540	790	2400	1300	2400	2400	230	170	23	79	240
14	Ammonia mg/l	0.112	0.04	0.02	0.03	0.01	0.02	0.02	0.01	0.06	0.01	0.01	0.01
15	Total Dissolved Solids(mg/l)	87	54	41	-	37	44	35	59	48	77	42	34
16	Total Fixed Solids (mg/l)	52	48	22	-	24	34	17	30	25	38	30	21
17	Total Suspended Solid (mg/l)	11	5	11	6	13	4	3	9	7	8	10	6
18	Hardness(mg/l)	28	24	18	32	16	22	14	12	16	28	22	28
19	Fluoride(mg/l)	0.12	0.09	0.21	0.2	0.19	0.05	0.03	0.19	0.2	0.13	0.09	0.67
20	Boron(mg/l)	0.5	0.46	0.33	0.27	1.63	0.28	0.51	0.29	-	6.35	5.44	3.22
21	Sulphate (mg/l)	3.23	4.2	7.07	2.7	1.93	2.52	1.63	1.2	1.3	3.9	4.26	0.64
22	Total Alkalinity(mg/l)	32	26	16	22	20	26	28	26	30	156	30	36
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	4.6	6.4	5.3	4.3	3.2	6.3	4.3	5.2	8.3	11.2	8.9	7.5
25	Potassium(mg/l)	0.8	0.3	0.2	2	1.8	0.4	1.8	1.9	7.2	4.1	6.7	5.2
26	Calcium as CaCO3(mg/l)	14	10	6	22	12	10	10	8	5	14	12	12
27	Magnesium(mg/l)	3.4	3.4	2.9	2.4	0.97	2.92	0.97	0.97	1	3.4	2.43	3.9

RIVER SAL AT PAZORCONI, CUNCOLIM 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.6	7.23	7.15	6.5	6.76	6.5	6.95	6.43	6.48	6.28	8.9	9.3
2	Temperature °C	28	33	26.5	26.4	27	28	29.5	30.7	26.6	27	26.5	29
3	Conductivity µs/cm	85.8	78.1	77.38	128.7	94.93	91.83	89.04	83.52	53.63	145.02	85.88	25.79
4	Dissolved Oxygen mg/l	6.1	6.3	7	6.5	6.8	7	7.1	7.2	6.1	5.3	6	7.2
5	Turbidity (NTU)	4.97	2.04	11.57	8.55	16.04	7.46	7.64	14.68	0.87	13.1	6.43	6.49
6	Nitrite Nitrogen mg/l	0.002	0.004	0.004	0.008	0.008	0.002	0.004	0.007	0.011	0.007	0.038	0.003
7	Nitrogen(Nitrate) mg/l	0.908	0.12	0.16	0.87	1.18	0.36	0.18	0.33	0.14	0.27	0.91	0.95
8	Phosphate mg/l	0.056	0.02	0.01	0.02	0.04	0.01	0.02	0.03	0.01	0.03	0.02	0.01
9	BOD mg/l	0.6	2.2	1.7	1.7	1.3	0.4	0.9	2.2	3.1	1.9	2.3	2.8
10	COD mg/l	8	3	8	14	13	12	10	-	-		8	6
11	Chloride mg/l	16.14	10.76	13.21	500	11.74	12.7	9.8	2499	5	3249	8.32	11.25
12	Fecal Coliform MPN/100 ml	3300	7000	4900	1100	1700	3300	1700	1700	4900	2300	1300	2300
13	Total Coliform MPN/100 ml	4600	11000	13000	1400	3300	4900	3300	3300	7000	3300	2300	4900
14	Ammonia mg/l	0.062	0.06	0.04	0.04	0.04	0.05	0.02	0.01	0.1	0.004	0.08	0.002
15	Total Dissolved Solids(mg/l)	133	63	52	-	57	53	43	-	38	128	51	46
16	Total Fixed Solids (mg/l)	81	27	21	-	38	28	33	-	28	64	44	32
17	Total Suspended Solid (mg/l)	8	18	14	15	15	9	10	70	8	14	11	12
18	Hardness(mg/l)	2800	2200	1800	52	20	18	20	70	36	8000	24	40
19	Fluoride(mg/l)	0.08	0.03	0.04	0.2	0.35	0.51	0.26	0.15	0.2	0.49	0.15	1.67
20	Boron(mg/l)	0.65	0.62	0.51	0.29	2.48	0.78	2.23	0.97	-	3.06	1.45	1.66
21	Sulphate (mg/l)	5.96	5.14	15.37	17.4	9.71	13.72	7.2	37.3	30	51	9.85	11.64
22	Total Alkalinity(mg/l)	24	22	18	20	22	24	26	26	40	34	28	40
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0.1	0	0	0	0	0
24	Sodium(mg/l)	9.4	7.9	6.5	10.2	3.7	8.6	8.4	9.5	3.6	20.1	7.7	8.3
25	Potassium(mg/l)	0.8	0.6	0.4	2.6	1.7	0.6	2.2	2.4	8	4.6	1.4	2.7
26	Calcium as CaCO3(mg/l)	1200	1200	800	16	16	12	12	20	10	5000	22	20
27	Magnesium(mg/l)	388.8	243	243	8.7	0.97	1.46	1.94	12	3	729	0.49	4.9

RIVER SAL AT MOBOR 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.32	6.82	7.03	7.49	7.35	6.82	7.89	7.19	7.06	8.01	6.78	7.87
2	Temperature °C	28	33	27	29.1	30.9	31.1	30.7	31.9	29.7	26.8	29.6	31.2
3	Conductivity µs/cm	50530	45940	53030	10020	1902	38370	50910	42300	54600	58360	48570	52910
4	Dissolved Oxygen mg/l	5.4	5.4	5	6.4	5.4	4.6	5.5	5.3	5.2	6.2	4.7	6.8
5	Turbidity (NTU)	8.88	55.9	9.27	75.2	54.7	4.78	4.02	4.83	40.2	1.63	5.43	1.42
6	Nitrite Nitrogen mg/l	0.04	0.014	0.01	0.013	0.022	0.006	0.008	0.006	0.01	0.004	0.004	BDL
7	Nitrogen(Nitrate) mg/l	0.08	0.11	0.31	0.04	0.05	0.12	0.09	0.01	0.13	0.11	0.27	0.01
8	Phosphate mg/l	0.094	0.12	0.05	0.16	0.03	0.04	0.02	0.01	0.04	0.03	0.03	0.02
9	BOD mg/l	1.6	0.8	1.9	2.5	2.8	1.2	0.9	1.3	1.1	0.5	0.8	1.1
10	COD mg/l	-	-	-	26	40	-	-	-	-	-	-	-
11	Chloride mg/l	19128.1	18869.2	17856	4124	1400	17120	21769.9	5123.4	24040	36739	46236	22307.9
12	Fecal Coliform MPN/100 ml	490	1100	2300	2300	3300	2300	1300	1300	1300	780	230	490
13	Total Coliform MPN/100 ml	790	1700	4900	4900	7900	4900	2300	2300	2300	1300	330	790
14	Ammonia mg/l	0.034	0.06	0.05	0.29	0.07	0.04	0.05	0.05	0.07	0.004	0.04	0.01
15	Total Dissolved Solids(mg/l)	47441	33145	34095	5894	1295	21721	29776	22315	38530	39264	34862	51189
16	Total Fixed Solids (mg/l)	29265	11932	26736	5036	846	16552	23990	15210	17910	21011	20462	32473
17	Total Suspended Solid (mg/l)	149	206	95	58	76	60	70	145	126	148	144	113
18	Hardness(mg/l)	6800	6800	6400	1220	192	5000	6000	360	6040	11000	6000	7800
19	Fluoride(mg/l)	1.274	0.73	0.56	0.73	0.14	0.21	0.99	BDL	1.42	1.5	1.4	0.88
20	Boron(mg/l)	4.1	-	-	-	0.08	2.06	-	2.26	2.48	2.82	1.8	-
21	Sulphate (mg/l)	1391.16	1670.4	18.9	0.89	38.6	1028	3197.1	4994.6	5656	2686	2839	2208.6
22	Total Alkalinity(mg/l)	158	3800	100	720	66	920	90	820	154	122	19	104
23	Phenolphthalein Alkalinity(mg/l)	0.7	0	0.3	0	0	4	18	0	12	1.1	0.6	1.4
24	Sodium(mg/l)	2421	1612	1559	1617	289.4	5100	7227	1699	2242	8314	1074	1501
25	Potassium(mg/l)	256.7	113	205.2	66.6	12.6	162	247.7	186.6	231	287	202.3	174.9
26	Calcium as CaCO3(mg/l)	1800	1200	1000	220	15	1200	1600	200	1000	4000	1600	1600
27	Magnesium(mg/l)	1215	1361	1312.2	243	34.5	923.4	1069.2	38.9	1225	1701	1069	1506.6

RIVER BICHOLIM, BARAZAN NAGAR, BICHOLIM 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.52	7.12	7.5	6.63	6.36	6.5	6.69	5.84	6.6	7.04	7.2	7.26
2	Temperature °C	33	31.4	31	29	26.7	30.1	30.4	32.7	29	27.4	31.1	30
3	Conductivity µs/cm	194.12	798.03	650.08	114.85	83.76	160.3	113.27	90.32	127.79	168.54	115.5	46.15
4	Dissolved Oxygen mg/l	9	4.7	4.8	6.2	6.6	6.5	6.1	7.7	8.1	9	8	10
5	Turbidity (NTU)	6.13	9.18	7.84	4.34	5.22	3.81	27.7	3.56	2.68	3.57	3.55	2.79
6	Nitrite Nitrogen mg/l	0.006	0.01	0.08	0.01	0.007	0.006	0.006	0.005	0.003	0.005	0.025	0.007
7	Nitrogen(Nitrate) mg/l	0.2	0.18	0.33	0.53	0.28	0.24	0.62	0.14	0.36	0.25	0.66	0.63
8	Phosphate mg/l	0.02	0.007	0.006	0.003	0.002	0.02	0.08	0.016	0.07	0.01	0.01	0.01
9	BOD mg/l	2.5	2.3	2.6	0.4	0.5	0.6	3.1	2	1.7	1.9	0.6	1
10	COD mg/l	20	28	10	11	12	11	12	10	7	9	6	7
11	Chloride mg/l	18	22	98	12.5	9.5	28.9	20	10	10	21	12.63	15.6
12	Fecal Coliform MPN/100 ml	13000	13000	13000	7900	4900	4900	11000	4900	4900	7000	4900	7900
13	Total Coliform MPN/100 ml	17000	22000	22000	11000	7900	11000	17000	7900	7900	11000	7900	13000
14	Ammonia mg/l	0.05	0.17	0.03	0.08	0.03	0.04	0.007	0.003	0.04	0.03	0.03	0.01
15	Total Dissolved Solids(mg/l)	128	834	545	83	33	99	95	101	100	116	103	485
16	Total Fixed Solids (mg/l)	279	262	421	32	8	49	40	52	51	52	10	68
17	Total Suspended Solid (mg/l)	11	13	63	8	2	13	10	11	10	2	7	7
18	Hardness(mg/l)	58	126	94	42	26	34	40	32	52	56	54	70
19	Fluoride(mg/l)	0.1	0.14	0.02	0.19	0.72	0.63	0.08	0.19	0.03	0.09	0.1	0.23
20	Boron(mg/l)	0.16	10.5	1.95	0.95	3.14	0.18	0.02	0.25	0.64	0.12	0.17	1.5
21	Sulphate (mg/l)	2.55	18.6	10.45	3.4	3.09	5.73	2.3	1.8	2.8	3.77	3.96	5.1
22	Total Alkalinity(mg/l)	90	72	74	30	300	32	46	38	54	60	62	1.2
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	7.6	89.1	46.3	4.2	5.7	16.8	11.7	5.7	5.2	9.8	16.2	26.3
25	Potassium(mg/l)	4.8	7.7	3.3	2.3	2.2	1.8	3	2.1	8.5	4.2	1.3	6.5
26	Calcium as CaCO3(mg/l)	30	44	40	28	14	24	24	18	28	32	32	6
27	Magnesium(mg/l)	6.8	19.9	13	3.4	2.9	2.43	3.9	3.4	5.8	5.83	5.3	15.6

MAYEM LAKE AT MAYEM 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.63	7.59	7.84	6.4	6.05	7.53	6.07	6.4	6.3	7.54	7.47	7.03
2	Temperature °C	32	34.3	34	30	26.6	31.8	32.4	32	30.7	27.8	30.7	28.2
3	Conductivity µs/cm	47.11	52.49	61.87	41.71	39.69	43.8	42.49	50.16	52.96	60.53	63.5	15.82
4	Dissolved Oxygen mg/l	7.6	5	6.5	7.6	8	6.7	6.1	5.6	6.5	7.4	7.7	8.3
5	Turbidity (NTU)	3.44	3.39	3.84	7.8	5.09	4.84	2.3	2.38	1.44	5.28	2.21	5.1
6	Nitrite Nitrogen mg/l	0.003	0.006	0.002	0.003	0.005	0.003	0.002	0.003	0.002	0.004	0.002	0.003
7	Nitrogen(Nitrate) mg/l	0.03	0.01	BDL	0.01	0.03	0.01	0.03	0.02	0.21	0.01	0.07	0.03
8	Phosphate mg/l	0.03	0.007	0.01	0.004	0.003	0.02	0.01	0.01	0.01	0.01	0.01	0.002
9	BOD mg/l	1	0.2	2.5	0.9	2.6	0.4	1.3	1	1.1	4.4	1.2	1.9
10	COD mg/l	6	5	24	8	16	17	20	14	4	17	8	8
11	Chloride mg/l	7.8	8	12	4.5	6.5	5.9	7	10.5	7.5	15.5	8.74	8.8
12	Fecal Coliform MPN/100 ml	2300	2300	2300	450	780	1300	780	1300	780	450	1300	1300
13	Total Coliform MPN/100 ml	4900	4900	3300	780	1100	3300	2300	2300	1300	780	2300	2400
14	Ammonia mg/l	0.004	0.1	0.04	0.01	0.02	0.02	0.04	0.04	0.07	0.03	0.02	0.02
15	Total Dissolved Solids(mg/l)	31	35	42	36	128	27	32	32	30	41	33	513
16	Total Fixed Solids (mg/l)	20	18	13	14	75	15	19	13	10	25	3	19
17	Total Suspended Solid (mg/l)	13	3	17	15	9	9	12	10	9	3	2	25
18	Hardness(mg/l)	14	24	22	16	12	20	-	14	24	16	10	22
19	Fluoride(mg/l)	0.02	0.06	0.03	0.19	0.73	0.25	0.58	0.35	0.28	0.07	0.02	0.12
20	Boron(mg/l)	0.37	9.7	0.88	0.6	2.21	0.23	0.56	0.09	0.33	0.17	0.41	2.8
21	Sulphate (mg/l)	0.64	1.8	6.1	1.7	1.92	1.03	0.5	2.2	3	0.92	1.73	7.8
22	Total Alkalinity(mg/l)	60	22	22	16	160	22	20	10	26	24	22	0.4
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	7.6	15.7	4.8	3.2	3.6	2.1	4.5	3.6	27.2	6.1	0.1	15
25	Potassium(mg/l)	4.2	0.7	0.3	1.9	1.7	0.1	1.6	1.8	9	3.8	0	5.8
26	Calcium as CaCO3(mg/l)	8	12	10	10	8	16	-	10	16	10	8	12
27	Magnesium(mg/l)	1.5	2.9	3	1.5	1	0.97	-	0.97	1.9	1.46	0.5	2.4

CUMBHARJUA CANAL, CORLIM 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.18	7.75	6.21	6.45	6.1	7.25	6.75	6.76	6.48	7.1	7.14	6.87
2	Temperature °C	31	32.7	27.2	28.7	26.8	27	30.7	29	30.7	27	27.6	29.3
3	Conductivity µs/cm	46200	42220	41700	1712	1104	1348	3410	24430	34260	39230	40570	44100
4	Dissolved Oxygen mg/l	5.1	4.6	4.9	7.3	6	6.1	4.9	4.2	5.2	7.9	5.8	5.2
5	Turbidity (NTU)	17.6	9.77	8.1	6.95	13.24	11.13	22.5	10.23	6.11	16.01	11.08	13.62
6	Nitrite Nitrogen mg/l	0.004	0.04	0.01	BDL	0.004	0.006	0.006	0.01	0.06	0.016	0.128	0.003
7	Nitrogen(Nitrate) mg/l	0.03	0.12	0.07	BDL	0.11	0.04	0.06	0.02	0.41	1.04	3.85	0.02
8	Phosphate mg/l	0.027	0.02	0.18	0.01	0.01	0.02	0.02	0.03	0.01	0.06	0.03	0.02
9	BOD mg/l	2.1	1.6	2.7	1.7	1.5	3.4	2.5	1.6	4.8	3.4	2.7	4.5
10	COD mg/l	-	-	-	6	8	14	-	-	-	-	-	-
11	Chloride mg/l	18494	16124	14817	340.5	922.76	345	2999	9735.3	12871	16755.4	20057.6	17483.9
12	Fecal Coliform MPN/100 ml	1300	780	780	7000	780	1300	1300	780	780	700	1300	490
13	Total Coliform MPN/100 ml	2300	1300	1300	11000	2300	2300	2300	1300	1400	1100	1700	790
14	Ammonia mg/l	0.066	0.05	0.1	0.08	0.02	0.04	0.07	0.1	0.06	0.03	0.04	0.01
15	Total Dissolved Solids(mg/l)	35024	30685	26796	414	436	701	3501	20418	23237	30385	20481	30014
16	Total Fixed Solids (mg/l)	23016	25211	5624	219	184	500	2216	13789	14824	9086	7486	1122
17	Total Suspended Solid (mg/l)	50	106	113	12	15	13	51	62	90	35	20	182
18	Hardness(mg/l)	7000	5600	6500	120	110	106	2000	2720	4400	5400	6600	7000
19	Fluoride(mg/l)	0.97	0.75	0.76	0.11	0.32	1.41	2.1	0.84	1.2	BDL	BDL	0.94
20	Boron(mg/l)		2.74	0.54	5.88	3.06	1.37	0.35	-	2.4	1.17	3.06	-
21	Sulphate (mg/l)	133.1	1026	1339	59.8	17.99	51.66	539.7	622.4	1836	2187.1	2747.3	896
22	Total Alkalinity(mg/l)	134	116	98	26	20	320	54	84	96	120	102	114
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0.3	0	0	0	2
24	Sodium(mg/l)	4430	6592	1306	203.4	124.8	117.4	458.8	503.9	1140	1292	1688	1306
25	Potassium(mg/l)	237.8	244	174.1	6.9	4.7	21.1	25	123.6	146.5	160.8	188	146.8
26	Calcium as CaCO3(mg/l)	1000	800	2000	30	34	22	1200	480	1100	1600	4800	1000
27	Magnesium(mg/l)	1458	1166	1093.5	21.9	18.5	20.4	194	544.3	802	923.4	487.4	1458

RIVER ZUARI AT PANCHAWADI 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.31	6.61	6.71	6.76	6.88	6.82	6.1	6.69	6.71	7.06	6.84	7.11
2	Temperature °C	30.2	32.5	31	29.9	29	29.9	25	31.8	28	28.4	28	29
3	Conductivity µs/cm	11030	25230	25360	273.6	104.9	106.09	1142	3520	10240	15290	9220	10290
4	Dissolved Oxygen mg/l	4.9	5.8	4.5	5.8	7.6	6.5	5	5.2	5.1	5.8	6.2	5.3
5	Turbidity (NTU)	12.5	11.95	8.35	8.35	7.61	4.32	5.3	1.35	20.2	9.77	8.34	2.33
6	Nitrite Nitrogen mg/l	0.023	0.04	0.018	0.003	0.01	0.001	0.003	0.005	0.025	0.033	0.04	0.027
7	Nitrogen(Nitrate) mg/l	0.41	0.04	0.28	0.24	0.09	0.1	0.08	0.05	0.5	0.12	0.41	0.09
8	Phosphate mg/l	0.012	0.02	0.01	0.01	0.02	0.01	0.01	0.02	0.19	0.05	BDL	0.01
9	BOD mg/l	0.2	3	0.2	1.1	1.4	-	1.5	1.1	0.8	1.7	1.8	1.4
10	COD mg/l	-	-	-	18	15	34	-	-	-	-	-	-
11	Chloride mg/l	5870.5	6986	9417.3	1000	16.1	374.9	2201.45	3749	6123	4402.9	7998	9872
12	Fecal Coliform MPN/100 ml	2300	2300	3300	130	2300	2300	2300	2300	1300	2300	1300	780
13	Total Coliform MPN/100 ml	3300	3300	4900	230	4900	4900	4900	4900	2300	4600	2300	1300
14	Ammonia mg/l	0.02	0.07	0.02	0.03	0.04	0.06	0.01	0.01	0.01	0.02	0.04	0.001
15	Total Dissolved Solids(mg/l)	7139	10246	14358	12809	126	100	1825	1799	6086	9956	8756	5860
16	Total Fixed Solids (mg/l)	6414	7088	7684	142	37	28	608	599	4792	7090	7216	5077
17	Total Suspended Solid (mg/l)	48	54	64	14	8	10	12	9	9	32	48	14
18	Hardness(mg/l)	1200	2800	3000	6000	22	110	600	380	2200	2600	1800	13600
19	Fluoride(mg/l)	0.43	0.6	0.36	0.54	0.1	0.15	0.68	0.49	0.65	0.55	0.48	0.73
20	Boron(mg/l)	2.98	8.8	4.72	1.2	1	0.3	3.92	1.5	2.2	3.29	0.5	-
21	Sulphate (mg/l)	486.1	4267.4	728.2	2.9	4.42	167	1784.23	31.1	146.2	443.2	289	577.2
22	Total Alkalinity(mg/l)	54	126	42	28	22	74	26	36	46	52	90	460
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	1329	936.1	1043	33.1	7.4	20.3	162.3	457.4	26.6	213.4	56.8	1439
25	Potassium(mg/l)	62	74.2	78.1	3.2	2.1	7.4	7.1	23.9	62.8	78.6	22.6	57.2
26	Calcium as CaCO3(mg/l)	1000	800	1200	1400	10	8	400	80	600	800	800	3200
27	Magnesium(mg/l)	48.6	486	437.4	1118	2.92	24.8	48.6	73	389	437.4	243	2527.2

RIVER ZUARI AT CORTALIM 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.88	6.6	6.94	7.62	7.63	6.79	6.5	6.21	7.36	6.5	7.5	7.6
2	Temperature °C	32.7	30	27.5	28.5	28	30.1	27	31.7	30.5	27.6	25	29
3	Conductivity µs/cm	46060	40980	52640	14850	12060	30930	33300	41730	45660	51640	34640	45110
4	Dissolved Oxygen mg/l	5.1	4.5	5.2	6.3	6.6	5.1	5.3	4.9	5.8	4.7	5.8	5.5
5	Turbidity (NTU)	7.96	8.6	99	16.06	14.79	5.9	6.83	5.73	106	5.8	6.08	11.52
6	Nitrite Nitrogen mg/l	0.02	0.01	0.06	0.01	0.007	0.01	0.009	0.013	0.04	0.003	0.022	0.005
7	Nitrogen(Nitrate) mg/l	0.01	0.23	0.1	0.20	0.12	0.09	0.09	0.13	0.01	0.25	0.15	0.01
8	Phosphate mg/l	0.04	0.05	0.03	0.03	0.02	0.03	0.01	0.01	0.04	0.02	0.01	0.02
9	BOD mg/l	1.6	1.3	1.8	2	1.2	0.4	2.3	1.1	2.8	1.1	2	1.8
10	COD mg/l	-	-	-	-	-	36.0	-	-	-	-	-	-
11	Chloride mg/l	20494	19177	17994	4128	4348.7	14578.50	16804	17744	19183.77	25867	15410.13	25928.1
12	Fecal Coliform MPN/100 ml	2300	3300	3300	4900	7900	2300	1700	1300	1300	1300	2300	1300
13	Total Coliform MPN/100 ml	4900	7900	4900	7900	11000	3300	3300	2300	3300	1700	4900	1700
14	Ammonia mg/l	0.06	0.22	0.06	0.06	0.07	0.28	0.06	0.02	0.04	0.003	0.004	0.01
15	Total Dissolved Solids(mg/l)	32562	32779	27304	8290	7705	20412	25729	22126	27396	43757	28578	27250
16	Total Fixed Solids (mg/l)	28692	28938	2188	6571	40	4184	19625	15261	19402	18394	21589	14599
17	Total Suspended Solid (mg/l)	75	12	295	38	23	36	21	65	30	92	71	46
18	Hardness(mg/l)	5000	6900	9000	2000	24000	3600	3760	4600	5120	29500	840	13200
19	Fluoride(mg/l)	1.1	0.17	0.78	0.3	0.35	2.51	3.23	1.6	1.28	1.8	1.29	1.15
20	Boron(mg/l)	12.6	0.2	0.14	1.25	0.2	5.56	2.69	0.56	0.16	3.15	BDL	1.16
21	Sulphate (mg/l)	5.2	1714.8	1934	216	218.5	4168.9	1145.6	2431	1944.8	3468	149.33	24.84
22	Total Alkalinity(mg/l)	122	122	114	58	46	78	102	110	112	122	88	198
23	Phenolphthalein Alkalinity(mg/l)	0	0.2	0	0	0	0	4	0	12	0.6	0	0
24	Sodium(mg/l)	2023	2068	1527	2037	1847	1128	5806	4898	1841	7382	5391	6400
25	Potassium(mg/l)	114.6	116.9	200.7	86.6	79.3	162.6	199.4	242.1	178.9	259	20	248.4
26	Calcium as CaCO3(mg/l)	3500	1300	2000	400	400	1000	640	1000	960	5000	80	7200
27	Magnesium(mg/l)	364.5	1360.8	1701	389	486	631.8	758.2	874.8	1010.88	5953.5	9.72	1458

CREEK AT DANDO MOLLO, VELSAO, MORMUGAO 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.09	6.18	7.47	7.01	7.09	6.66	6.2	6.1	6.58	7.64	6.12	7.8
2	Temperature °C	33.6	29	27.3	28	28	28.7	26.8	31	29.5	28.1	26.7	29.6
3	Conductivity µs/cm	13380	10350	61080	1690	347.6	436.72	2686	14230	3640	13580	10360	12210
4	Dissolved Oxygen mg/l	11	5.7	6.3	5.4	5.3	3.9	3.3	8.5	3.5	9	7.5	10
5	Turbidity (NTU)	3.37	0.37	32.4	8.03	8.92	10.69	8.44	3.44	16.56	1.49	1.1	3.73
6	Nitrite Nitrogen mg/l	0.95	0.29	0.009	0.64	0.05	0.017	0.009	0.19	0.01	0.42	0.96	0.1
7	Nitrogen(Nitrate) mg/l	5	10.25	0.23	3.51	0.62	1.12	0.22	6.5	0.18	22.1	27.4	4.7
8	Phosphate mg/l	0.17	1.2	0.25	0.25	0.12	0.09	0.03	0.05	0.06	0.73	0.48	0.08
9	BOD mg/l	3.2	1.5	0.6	1.7	1.2	1.3	1.6	3.6	7	3.2	5.3	4.9
10	COD mg/l	-	-	-	-	25	15	10	21	-	-	-	-
11	Chloride mg/l	5748.2	3718	20869	728.5	150	1076.26	1428	38	2137	5998	7998	4109.4
12	Fecal Coliform MPN/100 ml	2300	4900	2300	7900	4900	7900	3300	7000	4600	2300	3300	2200
13	Total Coliform MPN/100 ml	4900	7000	3300	13000	9400	13000	4900	11000	7000	3300	4900	2600
14	Ammonia mg/l	0.4	2.65	0.06	1.21	0.07	0.05	0.1	0.67	0.07	0.005	0.6	0.02
15	Total Dissolved Solids(mg/l)	52562	5802	62049	980	236	285	1506	7698	2369	6169	2816	7710
16	Total Fixed Solids (mg/l)	41821	5212	31626	475	66	40	1270	6963	-	2440	2506	6084
17	Total Suspended Solid (mg/l)	32	56	248	18	4	14	11	40	14	22	28	38
18	Hardness(mg/l)	1200	1200	9000	156	88	360	272	108	366	29000	2200	2200
19	Fluoride(mg/l)	0.7	0.28	0.99	0.06	0.15	0.64	0.43	1.04	0.35	0.84	1.1	0.4
20	Boron(mg/l)	11	4.1	0.5	0.23	0.13	4.19	0.8	1.96	1.95	1.7	2.1	-
21	Sulphate (mg/l)	417.5	185.3	3335.6	24	154.2	1973.86	70.88	2528	280	136	1819	314.2
22	Total Alkalinity(mg/l)	78	36	16	48	54	62	76	540	112	52	50	64
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0.3
24	Sodium(mg/l)	627.3	491.8	1659	198.2	32	59.3	401.9	174.4	128	1778	71.6	661.7
25	Potassium(mg/l)	59.6	55.3	218.4	9.6	3.3	3.9	20.3	84.5	31.4	82.8	40.3	71
26	Calcium as CaCO3(mg/l)	276	400	2000	52	52	280	76	82	110	3000	1200	400
27	Magnesium(mg/l)	224.5	194.4	1701	25	8.7	19.4	47.6	6.3	62	6318	243	437.4

RIVER MANDOVI NEAR MANDOVI BRIDGE, PANAJI 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.54	7.44	7.62	7.97	7.84	5.8	7.3	7.46	7.25	7.66	7.46	7.57
2	Temperature °C	29	34.5	29	30	29.1	28.5	31.4	31.8	26.9	28.6	28.5	30
3	Conductivity µs/cm	52680	53090	61460	35670	33900	304.5	19970	34960	48860	44250	45150	47500
4	Dissolved Oxygen mg/l	5.5	5.3	5	6	5.5	3.7	4.3	5.1	6	6.6	5.8	6.6
5	Turbidity (NTU)	11.8	10.3	7.62	14	24.6	8.56	48.2	12.2	4.04	6.75	2.73	25.1
6	Nitrite Nitrogen mg/l	0.006	0.007	0.013	0.008	0.016	0.005	0.05	0.023	0.019	0.029	0.01	0.007
7	Nitrogen(Nitrate) mg/l	0.006	0.05	0.08	0.71	0.08	0.6	0.33	0.18	0.12	0.07	0.09	0.07
8	Phosphate mg/l	0.071	0.01	0.03	0.03	0.05	0.06	0.02	0.03	0.02	0.02	0.02	0.02
9	BOD mg/l	1.6	1.4	2.1	1.7	1	1.2	2.5	2.4	1.6	3	1.7	3
10	COD mg/l	-	-	-	-	-	-	-	-	-	-	-	-
11	Chloride mg/l	20398	21624	35114.1	11073.2	11534.5	19369	10247	21612	24705.1	17597.38	17513.7	17726.8
12	Fecal Coliform MPN/100 ml	1300	1300	1300	2300	3300	2300	3300	1300	1700	1300	2300	1300
13	Total Coliform MPN/100 ml	2300	1700	1700	4900	7900	4900	7900	2300	3300	2300	4900	2400
14	Ammonia mg/l	0.021	0.03	0.05	0.15	0.11	0.01	0.03	0.01	0.03	0.14	BDL	0.01
15	Total Dissolved Solids(mg/l)	34500	28462	44497	19545	26803	35284	25082	24005	32351	30248	36228	27037
16	Total Fixed Solids (mg/l)	15000	19286	31620	3038	19459	26240	18164	17910	3486	11572	26153	16078
17	Total Suspended Solid (mg/l)	231	315	38	160	119	127	122	82	46	88	163	34
18	Hardness(mg/l)	6000	12400	8600	3400	3500	6600	3000	3400	19600	4900	6400	3800
19	Fluoride(mg/l)	0.984	0.8	0.73	0.55	1.29	0.15	4	0.96	1.21	1.56	1.17	0.99
20	Boron(mg/l)	-	-	-	5.1	0.98	0.79	0.77	1.74	1.1	0.56	-	1.58
21	Sulphate (mg/l)	1905.8	1644.3	1198	1389.1	1264	573.1	292	903.05	86.05	2518.09	1590.8	1799.28
22	Total Alkalinity(mg/l)	130	100	200	174	72	114	80	102	120	118	104	126
23	Phenolphthalein Alkalinity(mg/l)	0.8	0	0	0	0	0	0	8	22	6	0	8
24	Sodium(mg/l)	3311	2283	2342	-	6154	1471	2326	1054	1654	6142	1351	1379
25	Potassium(mg/l)	298	120.9	119	-	210.7	213.7	117.9	154.1	127.3	226.6	162.5	162.6
26	Calcium as CaCO3(mg/l)	641	1644	1400	232.5	1500	1200	2400	600	3000	1200	1100	1800
27	Magnesium(mg/l)	1215	98.2	1750	685.3	486.4	1312	145.8	680.4	4033.8	899.1	1288	486

RIVER MANDOVI AT TONCA MARCELA 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.82	6.88	6.91	6.85	6.61	7.08	6.81	5.88	6.9	6.8	7.37	7.26
2	Temperature °C	31	32	32.1	29	26.9	28.6	29	31	30	29	30	29.2
3	Conductivity µs/cm	35800	39220	41490	739.4	278.68	353	236.71	7214	16270	33250	29450	32710
4	Dissolved Oxygen mg/l	4.9	4.6	4.2	6.6	7.4	7.8	6.4	5.8	5.4	5.6	7	5.7
5	Turbidity (NTU)	11.3	6.66	5	9.93	6.91	7.96	19.05	6.13	4.36	6.48	3.52	11.18
6	Nitrite Nitrogen mg/l	0.02	0.007	0.065	0.004	0.006	0.006	0.01	0.005	0.08	0.08	0.118	0.061
7	Nitrogen(Nitrate) mg/l	0.06	0.1	0.17	0.15	0.05	0.06	0.13	0.08	0.4	0.1	0.29	0.13
8	Phosphate mg/l	0.04	0.01	0.01	0.006	0.0004	0.096	0.01	0.03	0.01	0.01	0.01	0.01
9	BOD mg/l	2.9	2	1.9	1	3.4	2.9	2.1	5	1.6	1.4	3	1
10	COD mg/l	-	-	-	-	16	12	-	-	-	-	-	-
11	Chloride mg/l	13599	14884	14327	3249	85	80.7	1999	5623	8497.4	15298.45	9106.2	9709
12	Fecal Coliform MPN/100 ml	790	780	1100	2900	2400	7000	4600	1300	1300	490	490	3500
13	Total Coliform MPN/100 ml	1300	1100	1400	3500	5400	11000	7000	2300	2200	790	790	9200
14	Ammonia mg/l	0.05	0.08	0.04	0.13	0.04	0.04	0.01	0.03	0.01	0.01	0.02	0.01
15	Total Dissolved Solids(mg/l)	25060	26997	25134	270	114	196	220	200	215	22610	23032	26440
16	Total Fixed Solids (mg/l)	19499	12612	20852	237	63	119	135	125	130	16905	1024	17639
17	Total Suspended Solid (mg/l)	29	108	141	20	6	2	7	10	12	35	29	32
18	Hardness(mg/l)	4080	5600	10000	600	24	46	800	720	4000	3700	4120	4200
19	Fluoride(mg/l)	0.87	0.7	0.68	0.23	0.46	0.49	0.6	0.8	0.98	1.56	1.24	0.75
20	Boron(mg/l)	2.13	8.2	5.34	0.86	5.13	1.22	0.38	0.42	6.2	1.07	2.99	1.27
21	Sulphate (mg/l)	1079	678.6	287	5.8	7.64	15.86	9.9	74.6	476	1394	1047.4	2111.4
22	Total Alkalinity(mg/l)	120	110	94	26	280	30	40	60	74	92	240	106
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	2340	1968	1630	163.6	25.6	27.4	47.9	796	279.9	4418	1101	1415
25	Potassium(mg/l)	203	110.1	100.5	6.2	2.7	2.9	4.2	37.2	88.4	165.5	127.6	170
26	Calcium as CaCO3(mg/l)	720	1600	3000	48	14	22	600	128	1200	900	640	1200
27	Magnesium(mg/l)	816.5	972	1701	134	2.4	5.83	48.6	144	680	680.4	845	729

SELAULIM LAKE AT SELAULIM, SANGUEM 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7	7.4	7.24	7.25	6.98	7.68	7.4	6.24	7.04	7.04	7.17	7.58
2	Temperature °C	30.3	32.5	28.4	29.4	26.2	32.7	34.06	33.7	30.5	30.3	28	29.3
3	Conductivity µs/cm	53.4	47.82	52.78	54.92	43.87	44.1	44.13	47.11	48.55	48.69	56.35	14.03
4	Dissolved Oxygen mg/l	7.9	7.7	7	8.6	7.3	7.6	7.9	7.5	7.9	7.4	7.1	7
5	Turbidity (NTU)	7.23	1.63	2.57	1.36	1.47	0.8	0.87	0.39	2.05	1.29	5.38	0.55
6	Nitrite Nitrogen mg/l	0.003	0.001	0.001	0.065	0.001	BDL	0.001	0.003	0.001	0.006	0.003	0.001
7	Nitrogen(Nitrate) mg/l	0.01	0.05	0.02	0.06	0.03	0.03	0.02	BDL	0.02	0.01	0.05	0.11
8	Phosphate mg/l	0.05	0.02	0.01	0.01	0.004	0.009	0.01	0.001	0.02	0.005	BDL	0.01
9	BOD mg/l	3.7	2.5	2	1.6	1.3	0.1	1.1	1.1	1.7	0.9	0.9	1.6
10	COD mg/l	15	3	8	2	2	2	3	2	4	6	19	5
11	Chloride mg/l	9.5	6.85	5	4.4	1	9.5	4	10.5	8.26	16.5	1.95	10.76
12	Fecal Coliform MPN/100 ml	17	23	23	33	13	13	13	7.8	2	NIL	NIL	NIL
13	Total Coliform MPN/100 ml	33	49	79	79	33	33	23	23	7.8	<1.8	<1.8	<1.8
14	Ammonia mg/l	0.08	0.01	0.05	0.08	0.01	0.04	BDL	0.001	0.004	0.03	0.01	0.01
15	Total Dissolved Solids(mg/l)	48	30	35	38	80	121	32	30	31	692	39	41
16	Total Fixed Solids (mg/l)	25	23	24	18	49	72	12	11	18	194	14	25
17	Total Suspended Solid (mg/l)	2	9	10	22	9	12	2	3	22	9	14	3
18	Hardness(mg/l)	20	18	32	22	14	14	10	10	24	16	20	28
19	Fluoride(mg/l)	0.09	0.05	0.05	BDL	0.13	0.6	BDL	0.06	BDL	0.27	0.2	0.12
20	Boron(mg/l)	10.3	0.41	0.13	BDL	2.1	0.64	0.07	0.98	0.69	2.57	BDL	0.94
21	Sulphate (mg/l)	2	1.41	1.8	2.34	1.9	128.5	0.48	1.3	1.63	2.2	1.2	1.15
22	Total Alkalinity(mg/l)	26	22	26	36	24	16	28	20	24	32	18	26
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	7.6	2.4	3.2	4.8	3.6	4.2	5.5	3.9	18.6	4.9	5.5	5
25	Potassium(mg/l)	4.2	0.5	0.6	1.8	1.8	7.2	2.2	1.8	7.5	4.4	2.8	2.4
26	Calcium as CaCO ₃ (mg/l)	14	10	22	8	10	8	6	8	10	14	8	16
27	Magnesium(mg/l)	1.5	1.94	2.4	3.4	1	1.5	1	0.5	3.4	0.5	2.92	2.92

AGRICULTURAL CANAL UPSTREAM OF CUNCOLIM INDUSTRIAL ESTATE 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.61	7.4	7.49	6.26	6.09	7.06	Canal was dry	Canal was dry	Canal was dry	6.28	8.86	9.19
2	Temperature °C	27	29.1	26.2	27	28.6	32.1				26	27.1	31
3	Conductivity µs/cm	55.6	56.8	54.11	1110	133.71	1204				59.31	62.47	15.29
4	Dissolved Oxygen mg/l	7.7	7.7	7.9	10.4	10	10.4				7.9	7.8	9.3
5	Turbidity (NTU)	1.5	1.72	3.29	0.52	10.94	2.44				1.87	1.91	1.11
6	Nitrite Nitrogen mg/l	0.001	0.002	0.002	0.007	0.015	0.004				0.002	0.001	0.002
7	Nitrogen(Nitrate) mg/l	0.895	0.04	0.07	2.1	0.35	0.11				0.16	0.67	0.46
8	Phosphate mg/l	0.053	0.01	0.01	0.03	0.02	0.01				0.01	0.001	0.004
9	BOD mg/l	0.9	1.5	1.4	1.1	0.7	1.3				1.4	1.1	2
10	COD mg/l	9	5	9	-	8	19				10	10	9
11	Chloride mg/l	6.85	10.27	12.72	2499	29.35	114.5				8.5	6.85	7.83
12	Fecal Coliform MPN/100 ml	3300	350	1300	1300	1300	1700				78	790	490
13	Total Coliform MPN/100 ml	4900	920	2400	2400	2400	3500				170	1300	790
14	Ammonia mg/l	0.164	0.02	0.01	0.04	0.01	0.01				0.03	0.02	0.001
15	Total Dissolved Solids(mg/l)	67	62	51	799	82	677				49	36	54
16	Total Fixed Solids (mg/l)	45	46	29	149	60	520				18	20	29
17	Total Suspended Solid (mg/l)	15	25	22	5	5	15				8	11	15
18	Hardness(mg/l)	24	18	26	800	8	134				26	18	18
19	Fluoride(mg/l)	0.61	0.1	0.14	0.35	0.25	0.49				0.22	0.58	0.33
20	Boron(mg/l)	0.69	0.65	0.47	1	1.36	1.87				2	3.68	2.69
21	Sulphate (mg/l)	2.44	1.04	2.17	449.5	4.91	372.7				3.3	2.55	0.95
22	Total Alkalinity(mg/l)	24	22	26	18	16	26				24	26	40
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0				0	0	0
24	Sodium(mg/l)	3	6.8	6.1	186.4	15	144				8	8.7	8.3
25	Potassium(mg/l)	0.5	0.2	0.3	3.3	2.2	3.1				4	8.3	7
26	Calcium as CaCO3(mg/l)	12	12	16	600	6	84				12	16	12
27	Magnesium(mg/l)	2.9	1.5	2.4	48.6	0.49	12.15				3.4	0.49	1.5

AGRICULTURAL CANAL DOWNSTREAM OF CUNCOLIM INDUSTRIAL ESTATE 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.61	7.35	6.87	5.08	5.11	5.7	Canal was dry	Canal was dry	Canal was dry	6.23	8.45	8.95
2	Temperature °C	27	30	26.5	28.2	29.6	32.5				26.3	26.9	31.5
3	Conductivity µs/cm	53.7	76	90.09	1619	1426	1150				58.79	88.7	20.99
4	Dissolved Oxygen mg/l	8.7	7.9	7.4	4.5	6.4	5.9				8.1	8	8.6
5	Turbidity (NTU)	1.46	2.78	2.06	3.07	10.9	2.46				1.16	2.24	1.49
6	Nitrite Nitrogen mg/l	0.001	0.002	0.017	0.02	0.011	0.007				0.002	0.002	0.002
7	Nitrogen(Nitrate) mg/l	0.886	0.04	0.09	2.2	4.41	0.81				0.09	5.34	5.13
8	Phosphate mg/l	0.054	0.01	0.01	0.008	0.02	0.003				0.07	0.004	0.01
9	BOD mg/l	1.9	1.1	1	0.6	1.1	0.6				2.8	1.8	1.2
10	COD mg/l	12	10	15	-	12	12				14	12	10
11	Chloride mg/l	6.36	14.68	14.19	2499	44.52	63.6				9	11.7	10.27
12	Fecal Coliform MPN/100 ml	2300	240	2400	450	1100	490				230	330	130
13	Total Coliform MPN/100 ml	3300	540	5400	780	2200	1300				490	460	240
14	Ammonia mg/l	0.28	0.03	0.02	0.68	0.48	0.58				0.03	0.04	0.002
15	Total Dissolved Solids(mg/l)	48	66	59	1461	879	658				41	52	50
16	Total Fixed Solids (mg/l)	22	46	36	1169	628	440				16	37	24
17	Total Suspended Solid (mg/l)	19	27	19	20	12	7				4	8	11
18	Hardness(mg/l)	20	18	22	3800	480	280				30	24	28
19	Fluoride(mg/l)	0.12	0.09	0.21	0.4	0.75	0.39				0.18	0.12	0.67
20	Boron(mg/l)	0.77	0.79	0.57	0.57	3.89	0.51				1.9	0.81	1.02
21	Sulphate (mg/l)	3.12	2.4	5.14	501.7	480.59	274.9				3.1	6.64	4.57
22	Total Alkalinity(mg/l)	24	22	20	14	14	20				30	26	32
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0				0	0	0
24	Sodium(mg/l)	2.9	6.2	5.8	91.7	160.9	132.5				6.2	9	7.2
25	Potassium(mg/l)	0.4	0.2	0.3	10	7.5	10				4	2.4	3.7
26	Calcium as CaCO3(mg/l)	14	8	12	1400	220	200				22	18	18
27	Magnesium(mg/l)	1.5	2.4	2.4	583	63.18	19.44				1.9	1.46	2.4

RUMDER LAKE, NUVEM 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.28	6.97	7.16	6.76	6.59	8.05	6.55	5.96	5.99	7.43	5.88	6.77
2	Temperature °C	30.2	31.7	27.8	26	29.7	29	30.9	33.5	27.4	27.6	29.6	28.9
3	Conductivity µs/cm	130.1	183.13	106.22	97.2	93	99.69	105.62	3.71	165.54	342.08	177.66	51.69
4	Dissolved Oxygen mg/l	3.4	1.9	6.9	5	5.4	5.5	5.9	7.9	2.5	7.9	5.8	2.8
5	Turbidity (NTU)	7.14	24.5	34.6	41.1	12.73	8.55	15.98	16.74	29.3	13.79	33.2	20.9
6	Nitrite Nitrogen mg/l	0.01	0.013	0.01	0.041	0.006	0.009	0.011	0.015	0.005	0.004	0.003	BDL
7	Nitrogen(Nitrate) mg/l	0.05	0.01	0.03	0.06	0.15	0.28	0.1	1.97	0.07	0.003	0.94	BDL
8	Phosphate mg/l	0.007	0.28	0.03	0.11	0.14	0.01	0.02	0.03	0.04	0.03	0.002	0.01
9	BOD mg/l	1.3	3.4	5.3	3.4	1.4	1.8	1.1	31.3	7	6.9	1	-
10	COD mg/l	4	24	21	11	13	4	6	52	18	-	-	-
11	Chloride mg/l	15.65	30.5	19.6	14	100	16	25	53.5	21	2249	5748	782.7
12	Fecal Coliform MPN/100 ml	780	3300	3300	3300	2300	2300	1300	1300	3300	1300	2300	1300
13	Total Coliform MPN/100 ml	1300	4900	4600	4900	4600	4900	2300	2300	4900	2300	3300	2300
14	Ammonia mg/l	0.019	0.06	0.07	0.45	0.04	0.11	0.06	3.85	0.06	0.01	0.12	0.03
15	Total Dissolved Solids(mg/l)	145	255	74	81	122	69	65	-	116	127	130	-
16	Total Fixed Solids (mg/l)	132	150	88	70	64	36	40	-	34	41	50	-
17	Total Suspended Solid (mg/l)	11	48	50	32	12	129	12	62	50	57	62	25
18	Hardness(mg/l)	38	30	28	36	18	24	28	76	46	-	800	54
19	Fluoride(mg/l)	0.051	0.46	BDL	0.46	0.13	2.32	0.51	0.79	0.01	0.56	0.08	0.1
20	Boron(mg/l)	BDL	-	-	-	0.07	-	5.91	2.05	0.63	1.44	2.1	4.1
21	Sulphate (mg/l)	9.84	12.8	5.3	13.5	5.3	5.14	6.55	22.2	20	306	42.5	33.3
22	Total Alkalinity(mg/l)	46	580	22	320	26	280	26	220	70	62	10	60
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	7.6	1.3	11.1	3.2	8.2	55	9.5	29	31.2	34.6	17.3	15.3
25	Potassium(mg/l)	4.5	0.6	2.1	1.7	3	3.1	2.2	10.7	10	6.6	9	1.9
26	Calcium as CaCO3(mg/l)	24	16	14	14	14	14	26	52	32	-	600	38
27	Magnesium(mg/l)	3.4	3.4	3.4	5.3	1	2.4	0.49	5.8	3	-	49	3.88

RIVER SAL AT ORLIM BRIDGE 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.44	7.9	6.82	6.8	6.71	6.63	6.98	6.5	5.75	6.93	6.37	7.31
2	Temperature °C	30	32	27.3	29.2	29.6	31.8	31.6	32.1	29.8	27.1	28.9	32.2
3	Conductivity µs/cm	28110	10920	20640	438	289.7	1375	70460	21540	33180	38610	32090	36680
4	Dissolved Oxygen mg/l	6.4	8.1	5.1	4.6	3.5	4.8	4	3.9	4	4.8	7.4	6
5	Turbidity (NTU)	6.44	9.81	9.19	8.77	8.5	5.76	5.82	3.23	8.33	12.7	6.06	6.33
6	Nitrite Nitrogen mg/l	0.04	0.02	0.02	0.03	0.04	0.015	0.01	0.017	0.02	0.018	0.04	BDL
7	Nitrogen(Nitrate) mg/l	0.31	0.08	0.32	0.04	0.08	0.17	0.09	0.07	0.11	0.2	1.9	BDL
8	Phosphate mg/l	0.021	0.098	0.1	0.09	0.07	0.02	0.02	0.01	0.02	0.06	0.02	0.02
9	BOD mg/l	4.6	5.1	3.7	3.6	3.2	2.4	1.4	0.2	1.6	1.8	6.2	3.1
10	COD mg/l	-	23	-	23	26	19	-	26	-	-	-	-
11	Chloride mg/l	9906.5	5373.3	6457.6	115	250	355	4158.3	25	12579	16995	18494	14578.5
12	Fecal Coliform MPN/100 ml	2300	4900	3300	2300	4900	1300	1300	1100	330	230	330	130
13	Total Coliform MPN/100 ml	3300	7900	4900	4900	7900	2300	2300	1700	490	330	790	230
14	Ammonia mg/l	0.09	0.53	0.28	0.52	0.07	0.1	0.06	0.17	0.12	0.004	0.18	0.02
15	Total Dissolved Solids(mg/l)	26757	6830	10302	395	201	778	42203	12082	20738	19065	18864	28612
16	Total Fixed Solids (mg/l)	15754	6398	7570	265	154	611	37087	11881	13942	12974	13262	21525
17	Total Suspended Solid (mg/l)	96	52	31	22	2	2	16	56	51	46	50	105
18	Hardness(mg/l)	3600	1420	2300	68	44	126	1000	38	3840	9000	4600	5200
19	Fluoride(mg/l)	0.77	0.72	0.4	0.72	0.22	0.6	1.29	BDL	0.86	1.5	1.2	0.69
20	Boron(mg/l)	3.9	-	-	-	0.02	-	6.23	2.09	0.56	5.46	1.3	4.1
21	Sulphate (mg/l)	812.95	172.3	4	21.1	10.5	64.25	159.3	6645.4	1755	901	1130.5	1218.5
22	Total Alkalinity(mg/l)	114	1160	84	420	38	500	54	520	116	124	200	102
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0.4	0.1
24	Sodium(mg/l)	1598	370	837.4	50.8	30.4	10821	877.3	522.9	1111	5430	1017	1245
25	Potassium(mg/l)	153	28.5	117.8	4.7	3.6	301	45.5	116.5	167	197	147.5	145.4
26	Calcium as CaCO3(mg/l)	800	260	500	26	26	60	800	28	720	5000	1400	1000
27	Magnesium(mg/l)	680.4	282	437.4	10.2	4.4	16	48.6	2.4	758	972	777.6	1020.6

RIVER SAL AT KHAREBAND, MARGAO 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.38	6.67	6.58	6.74	6.72	6.84	6.46	6.34	6.55	Sample not collected due to inaccessibility	6.73	Sample not collected due to inaccessibility
2	Temperature °C	29	33.7	28	28.6	29.9	29.9	30.2	31.2	26.9		27	
3	Conductivity µs/cm	324.54	135.41	404.8	125.4	102	140.98	158.06	142.5	449.68		400.19	
4	Dissolved Oxygen mg/l	–	0.8	0	2.5	4.1	1.6	1	0.1	0		0.9	
5	Turbidity (NTU)	20	18.7	25.3	21.5	9.7	8.92	9.51	14.58	18.59		28.1	
6	Nitrite Nitrogen mg/l	4.14	0.009	0.07	0.031	0.016	0.003	0.026	0.005	0.02		0.005	
7	Nitrogen(Nitrate) mg/l	28.5	0.04	2.37	0.04	0.18	0.03	0.03	1.15	0.08		12.69	
8	Phosphate mg/l	0.309	0.25	0.2	0.08	0.03	0.02	0.07	0.01	0.46		0.66	
9	BOD mg/l	–	2.3	7	2.3	2.3	1.2	-	10.2	15		9.8	
10	COD mg/l	21	30	21	13	18	-	11	70	28		-	
11	Chloride mg/l	41.09	19.5	52.8	17	200	18	183.5	18	67			
12	Fecal Coliform MPN/100 ml	24000	22000	35000	7900	13000	24000	13000	54000	54000		170000	
13	Total Coliform MPN/100 ml	35000	54000	92000	14000	17000	35000	35000	92000	92000		350000	
14	Ammonia mg/l	1.19	0.06	0.08	0.19	0.07	0.18	0.28	8.62	0.66		1	
15	Total Dissolved Solids(mg/l)	740	136	186	83	123	95	95	75	292		250	
16	Total Fixed Solids (mg/l)	663	125	251	75	28	64	63	69	78		72	
17	Total Suspended Solid (mg/l)	3	38	29	18	10	8	9	14	4		10	
18	Hardness(mg/l)	56	34	80	42	28	30	800	148	68		1200	
19	Fluoride(mg/l)	0.274	0.53	0.09	0.53	0.15	0.16	0.33	0.81	0.03		0.7	
20	Boron(mg/l)	4.2	-	-	-	0.01	-	5.02	1.69	1		0.98	
21	Sulphate (mg/l)	17.95	5.74	9.3	12.15	7.6	141.35	12.85	14.3	14		17	
22	Total Alkalinity(mg/l)	96	480	52	360	34	380	36	380	126		-	
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0		0	
24	Sodium(mg/l)	27.5	14.7	346	8.9	8.5	9.3	14.2	63.2	69.1		54.2	
25	Potassium(mg/l)	6.3	1.9	6.2	2.8	2.6	1.7	2.9	13.3	15.1		12.9	
26	Calcium as CaCO3(mg/l)	40	18	38	22	20	26	600	62	44		600	
27	Magnesium(mg/l)	3.88	3.9	10.21	4.9	1.9	1	48.6	20.9	6		146	

RIVER TIRACOL AT KERI, PERNEM 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.78	6.76	7.8	8.05	7.9	6.36	6.9	6.5	8.06	8.11	7.85	7.62
2	Temperature °C	27	29.4	33	31	29.8	28.5	30.6	30.5	30.8	26.4	27.8	28.7
3	Conductivity µs/cm	53340	71400	62460	49950	50900	54880	25200	46950	51000	52310	52000	52300
4	Dissolved Oxygen mg/l	6.5	5.8	5.5	6.4	7.1	4.4	6.8	6.3	6.5	7.5	6.7	6.3
5	Turbidity (NTU)	12.7	5.97	10.02	15.38	19.17	19.91	3.15	8.23	2.26	3.53	3.58	2.89
6	Nitrite Nitrogen mg/l	0.007	0.005	0.011	0.009	0.027	0.18	0.006	0.005	0.007	BDL	BDL	0.004
7	Nitrogen(Nitrate) mg/l	0.1	0.04	0.07	0.05	0.08	0.84	0.05	BDL	0.12	0.03	0.06	0.06
8	Phosphate mg/l	0.013	0.01	0.01	0.03	0.06	0.06	0.01	0.02	0.07	0.01	0.01	0.02
9	BOD mg/l	1	2.7	-	2	2.4	3.6	1.7	1.1	1.6	3.9	1.7	2.3
10	COD mg/l	-	-	-	-	-	-	-	-	-	-	-	-
11	Chloride mg/l	27492	28246	23555	12841.8	26050.43	20869	13246	26469	26742	20498	25242.2	24040
12	Fecal Coliform MPN/100 ml	490	230	790	230	790	790	230	33	23	33	23	79
13	Total Coliform MPN/100 ml	790	490	1100	330	1300	1300	490	49	33	49	33	240
14	Ammonia mg/l	0.07	0.16	0.02	0.04	0.11	0.01	0.07	BDL	0.11	0.05	0.04	0.01
15	Total Dissolved Solids(mg/l)	37967	32894	37320	27047	35763	39692	38582	26639	28970	103527	28777	41156
16	Total Fixed Solids (mg/l)	29025	28248	-	824	25628	34014	27286	15639	24292	90874	24625	30639
17	Total Suspended Solid (mg/l)	2	198	258	210	199	134	250	87	101	97	149	85
18	Hardness(mg/l)	400	6600	7800	4500	7000	6800	3400	6100	5860	7200	5300	8500
19	Fluoride(mg/l)	0.46	0.9	0.76	0.71	1.62	0.72	4.1	1.07	1.35	1.27	0.46	1.33
20	Boron(mg/l)	42.82	10.3	8.6	1.8	0.97	1.4	0.65	1.63	1.79	0.23	-	4.12
21	Sulphate (mg/l)	280.48	1357.2	2325.5	2354.22	2015	783.9	778.4	1936	637.75	1127.3	1696	2656
22	Total Alkalinity(mg/l)	1200	138	246	94	88	114	64	112	1420	134	1280	130
23	Phenolphthalein Alkalinity(mg/l)	6	0	26	2	14	0	0	24	18	0.9	8	0
24	Sodium(mg/l)	5839	2524	1645	9471	9857	1444	2924	1613	2391	7868	7067	7622
25	Potassium(mg/l)	289.3	124.8	205.3	217.8	283.6	197.5	168.8	188.8	232.3	271.3	270.6	286
26	Calcium as CaCO3(mg/l)	260	1400	2000	1500	1000	1800	1800	1000	840	1400	920	1500
27	Magnesium(mg/l)	34	1263.6	1409	729	1458	1215	389	1239	1220	1409.4	1064.3	1701

RIVER CHAPORA NEAR SIOLIM BRIDGE 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.85	7.24	7.73	8.06	7.85	6.09	6.74	6.32	5.03	7.37	7.38	7.6
2	Temperature °C	27.8	30	33.1	32	29.9	29.5	31.6	30.9	30.7	27.8	28.6	29
3	Conductivity µs/cm	53060	70600	61860	45440	47900	53430	17230	31100	37410	38340	37520	33400
4	Dissolved Oxygen mg/l	6	4.5	5.1	6.4	5.7	4.4	6.1	6.2	7.1	4.2	6.3	6
5	Turbidity (NTU)	11.7	3.47	3.57	21.1	8.41	7.01	6.71	4.72	1.84	7.89	6.63	11.26
6	Nitrite Nitrogen mg/l	0.005	0.009	0.011	0.012	0.017	0.05	0.05	0.005	0.004	0.01	0.004	0.008
7	Nitrogen(Nitrate) mg/l	0.06	0.08	0.11	0.09	0.1	0.53	BDL	BDL	0.02	0.03	0.06	0.05
8	Phosphate mg/l	0.006	0.02	0.02	0.02	0.06	0.06	0.04	0.01	0.09	0.21	0.03	0.02
9	BOD mg/l	0.6	3.2	0.6	1.7	1.8	3.3	1.8	3.9	2.3	-	3.2	3
10	COD mg/l	-	-	-	-	-	-	-	-	-	-	-	-
11	Chloride mg/l	28491	28926	23069.1	9294.9	17611.5 6	21868	9247	12384	20744	14138.1 7	12496.1	15541
12	Fecal Coliform MPN/100 ml	3300	2700	4900	1300	7000	780	7900	7900	3300	4900	1300	780
13	Total Coliform MPN/100 ml	4900	3400	7900	2300	11000	2300	11000	11000	4900	7000	2300	1300
14	Ammonia mg/l	0.127	0.19	BDL	0.01	0.08	0.05	0.09	BDL	0.27	0.22	0.06	0.01
15	Total Dissolved Solids(mg/l)	35414	36840	36116	26627	31961	36626	32999	17913	20601	31864	20614	26012
16	Total Fixed Solids (mg/l)	28441	25928	-	1435	22806	32916	24689	10433	13870	18907	18541	18742
17	Total Suspended Solid (mg/l)	4	150	181	162	171	104	198	55	69	68	61	92
18	Hardness(mg/l)	940	6200	7200	4000	5500	6200	2200	3600	4400	5400	2700	6800
19	Fluoride(mg/l)	0.53	1	0.83	0.65	1.56	0.6	3.7	0.89	1.13	1.15	0.53	1.05
20	Boron(mg/l)	37.29	10.9	1	1.77	0.45	0.58	0.45	0.15	1.44	0.27	-	2.35
21	Sulphate (mg/l)	2049	1190.2	2359.4	1571.2 2	2124	596.2	514.8	1020	497.45	820.8	581.9	1818
22	Total Alkalinity(mg/l)	1240	138	256	82	86	108	96	86	1180	148	1000	98
23	Phenolphthalein Alkalinity(mg/l)	4	0	18	6	8	0	0	12	12	0	0	4
24	Sodium(mg/l)	5610	2337	1670	9047	9275	1243	1934	937.5	1606	5579	3972	4856
25	Potassium(mg/l)	305.9	121.6	209.9	217.5	281.8	179.6	108.4	146.2	191.8	205.8	160.7	189.8
26	Calcium as CaCO3(mg/l)	400	2000	1200	500	1500	1400	2000	700	840	1000	500	800
27	Magnesium(mg/l)	131.2	1020.6	1458	850.5	972	1166	48.6	705	865.1	1069.2	534.6	1468

RIVER SINQUERIM, CANDOLIM SIDE 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.87	7.55	7.25	7.99	7.79	6.54	7.21	6.25	7.05	7.77	7.95	7.35
2	Temperature °C	28	30.2	32.7	32	29.9	28.6	31.8	30.9	31	28.7	29	30
3	Conductivity µs/cm	69400	69500	60840	44600	50700	53140	38980	44960	50350	55530	51350	54200
4	Dissolved Oxygen mg/l	5.7	5.6	5.3	6	3.6	4	8.2	4.3	6.1	5.9	5.2	5.1
5	Turbidity (NTU)	7.02	6.89	5.74	30	21.4	7.88	6.11	7.87	3.37	6.15	6	4.88
6	Nitrite Nitrogen mg/l	0.07	0.006	0.009	0.013	0.012	0.01	0.007	0.021	0.023	0.01	0.003	0.004
7	Nitrogen(Nitrate) mg/l	0.07	0.05	0.05	0.06	0.1	0.63	0.04	BDL	BDL	0.03	0.07	0.05
8	Phosphate mg/l	0.192	0.02	0.01	0.03	0.06	0.05	0.03	0.02	0.03	0.04	0.03	0.02
9	BOD mg/l	1.1	3.1	0.9	0.4	1.1	2.5	3.4	3.4	2.2	1.5	2.1	3.3
10	COD mg/l	-	-	-	-	-	-	-	-	-	-	-	-
11	Chloride mg/l	21743	22624	21369.3	9417.3	18345.38	21743	22496	21126	30241	22063	24242.5	23555
12	Fecal Coliform MPN/100 ml	780	2300	2300	450	1300	780	1300	780	1300	780	450	2300
13	Total Coliform MPN/100 ml	1300	3300	3300	780	2300	1700	2300	1300	2300	1300	780	4900
14	Ammonia mg/l	0.077	0.1	0.06	0.02	0.08	0.04	0.13	0.02	0.05	0.08	0.07	0.02
15	Total Dissolved Solids(mg/l)	46912	41729	34112	24975	34453	37139	35842	30094	27717	47373	28412	40861
16	Total Fixed Solids (mg/l)	31602	36824	22444	1721	25456	32052	25598	21897	25518	24023	13102	31054
17	Total Suspended Solid (mg/l)	5	120	210	138	234	123	248	91	114	88	93	88
18	Hardness(mg/l)	658	8200	6800	3000	7000	5000	5600	5600	6440	8000	6800	6800
19	Fluoride(mg/l)	0.072	0.9	0.87	0.47	1.54	0.63	BDL	1.04	1.18	1.34	0.72	1.38
20	Boron(mg/l)	17.4	9.3	7.4	1.61	0.38	0.43	0.4	1.96	0.86	0.2	-	3.5
21	Sulphate (mg/l)	2099	1158.8	2161	2440.35	1973	1125.7	1551.9	1875	1020.4	985.1	1597	2980
22	Total Alkalinity(mg/l)	1220	138	256	72	86	106	108	112	1340	136	1420	128
23	Phenolphthalein Alkalinity(mg/l)	8	0	18	8	17	0	0	14	14	0	0	0
24	Sodium(mg/l)	4838	2602	1670	9064	10149	909.4	4175	1699	2436	8237	8043	7741
25	Potassium(mg/l)	269.7	125.5	207	220	278.2	118.7	232.4	189.6	229.8	282.9	293.2	289.7
26	Calcium as CaCO3(mg/l)	518	1800	1200	1500	3500	1400	2400	1100	1060	1600	960	1300
27	Magnesium(mg/l)	34	1555.2	1360.8	364.5	850.5	874.8	777.6	1094	1307.3	1555.2	1419.1	1336.5

RIVER SINOQUERIM, NEAR GANPATI TEMPLE 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.53	7.68	7.66	8.03	7.84	6.28	7.11	6.93	7.99	7.61	7.99	7.15
2	Temperature °C	28.1	30.1	32.5	32	29.8	28.7	31.4	31.2	31.4	28.2	29	30
3	Conductivity µs/cm	52680	69800	60360	45630	51700	50420	40790	46500	51630	55570	52000	53700
4	Dissolved Oxygen mg/l	5.9	5.3	5.5	5.8	3.7	3.8	6.3	5	5.6	5.9	5.9	5.1
5	Turbidity (NTU)	5.2	4.79	8.53	24	24.3	4.73	8.07	10.31	11.34	6.91	6.21	5.48
6	Nitrite Nitrogen mg/l	0.006	0.01	0.01	0.008	0.016	0.09	0.04	0.015	0.025	0.01	0.002	0.005
7	Nitrogen(Nitrate) mg/l	0.08	0.06	0.05	0.06	0.13	0.57	BDL	0.03	0.01	0.02	0.07	0.04
8	Phosphate mg/l	0.135	0.04	0.01	0.03	0.04	0.06	0.03	0.03	0.003	0.02	0.04	0.02
9	BOD mg/l	0.8	1.7	-	1.2	1.7	2.7	1.6	4.4	2.4	1.2	1.7	2.2
10	COD mg/l	-	-	-	-	-	-	-	-	-	-	-	-
11	Chloride mg/l	23493	24286	21612.1	9784.2	17856.2	23618	21868	21369	26242	22405.8	23742.7	22583
12	Fecal Coliform MPN/100 ml	780	4900	7000	2300	7900	7900	4900	4900	4600	1700	4900	4900
13	Total Coliform MPN/100 ml	1300	7900	11000	3300	11000	13000	7000	7900	7000	2200	7000	7900
14	Ammonia mg/l	0.123	0.19	0.02	0.04	0.09	0.01	0.05	0.02	0.47	0.03	0.12	0.01
15	Total Dissolved Solids(mg/l)	42788	39868	33890	26275	34423	39352	34642	27631	28558	46147	28788	39875
16	Total Fixed Solids (mg/l)	27741	30682	-	1468	31917	31131	23319	11634	22624	27446	26741	31223
17	Total Suspended Solid (mg/l)	3	110	176	130	241	101	245	82	107	102	106	89
18	Hardness(mg/l)	600	7200	7200	4500	6400	5800	5800	5900	5660	6800	6640	7250
19	Fluoride(mg/l)	0.73	0.95	0.84	0.61	1.47	0.7	BDL	1.14	0.65	1.28	0.73	1.06
20	Boron(mg/l)	21.41	10.8	1.2	1.89	0.63	0.27	1.2	0.9	1.92	0.26	-	0.14
21	Sulphate (mg/l)	3070	1023.1	2176.7	2570.8 5	2644	624.5	1683.7	1898	854.6	547.3	1968.4	2885
22	Total Alkalinity(mg/l)	1260	132	256	76	90	104	110	110	1280	144	1440	124
23	Phenolphthalein Alkalinity(mg/l)	12	0	18	10	14	0	0	16	16	0.2	6	0
24	Sodium(mg/l)	5269	2614	1634	9052	9768	642	4697	1686	2407	8472	7606	7706
25	Potassium(mg/l)	299.1	128.1	205.3	209.9	288	66.4	246	189.8	228.5	287.1	281.3	290.4
26	Calcium as CaCO3(mg/l)	522	1600	1200	2000	1600	1200	2000	1000	980	2600	1180	1500
27	Magnesium(mg/l)	19	1360.8	1458	607.5	1166.4	1117.8	923.4	1191	1137.2	1020.6	1326.8	1397

RIVER MANDOVI AT IFFIJETTY 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.88	7.82	7.47	7.9	7.62	7.74	6.68	6.73	7.24	7.79	7.77	7.66
2	Temperature °C	30	31	32	30	28	28.5	30.6	30	31.4	26.8	29.3	30
3	Conductivity µs/cm	69700	69300	61750	27140	16530	49240	18750	41930	49850	53200	47730	49040
4	Dissolved Oxygen mg/l	6.2	6.4	5.8	5.1	7.7	7.8	6.7	6.3	6	7.2	6.2	6.2
5	Turbidity (NTU)	39.3	8.26	12.31	33.1	19.09	16.88	10.4	3.77	2.57	7.04	5.7	5.7
6	Nitrite Nitrogen mg/l	0.049	0.006	0.007	0.006	0.006	0.018	0.005	0.01	0.02	0.018	0.022	0.008
7	Nitrogen(Nitrate) mg/l	0.05	0.22	0.12	0.17	0.18	0.12	0.11	0.03	0.69	0.66	0.45	0.05
8	Phosphate mg/l	0.06	0.03	0.02	0.03	0.03	0.06	0.06	0.02	0.01	0.05	0.06	0.04
9	BOD mg/l	2.9	1.9	2.2	0.1	1.3	1.7	1.5	0.9	2.2	2.6	2.1	2.2
10	COD mg/l	-	-	-	-	-	-	-	-	-	-	-	-
11	Chloride mg/l	20302.22	19184	11741.04	8497	7284.98	26117	8997	17807	21118	24040.4	24215.9	20762.2
12	Fecal Coliform MPN/100 ml	1700	2300	3300	7900	7900	4900	7900	1700	230	1700	230	2400
13	Total Coliform MPN/100 ml	3500	3300	4900	13000	13000	7900	13000	3300	490	3300	330	3500
14	Ammonia mg/l	0.06	0.09	0.06	0.08	0.05	0.08	0.05	0.04	0.06	0.05	0.05	0.01
15	Total Dissolved Solids(mg/l)	41942	37154	35815	18326	9569	28192	13346	36175	34510	41545	32915	35328
16	Total Fixed Solids (mg/l)	19578	5782	9213	6073	5869	21218	12504	24815	23486	11613	14206	1831
17	Total Suspended Solid (mg/l)	108	63	31	74	59	8	32	136	107	45	39	115
18	Hardness(mg/l)	9520	7000	11000	3000	14400	6800	5600	5400	6200	7200	9000	6600
19	Fluoride(mg/l)	1.09	0.91	0.74	0.57	1.14	BDL	BDL	1.13	1.6	BDL	BDL	0.96
20	Boron(mg/l)	1.01	-	4.36	0.99	-	2.36	0.25	-	0.73	-	-	2.54
21	Sulphate (mg/l)	1176.37	2414.3	1318.05	835	534.56	1735	37.3	1561.2	3022.6	2870.7	3132.8	2675.1
22	Total Alkalinity(mg/l)	156	122	52	66	46	960	66	118	106	114	114	114
23	Phenolphthalein Alkalinity(mg/l)	14	16	0	0	0	12	0	1	0	14	12	6
24	Sodium(mg/l)	3438	1630	2449	4740	2983	3126	2207	1271	2217	1930	2196	1389
25	Potassium(mg/l)	300	222.3	123.5	139.9	91.4	93.7	124.6	177	195	202.7	220.2	160.5
26	Calcium as CaCO3(mg/l)	1560	320.6	2000	2200	4000	1200	1200	1200	1700	2200	2200	1800
27	Magnesium(mg/l)	1934	1506.6	2187	194	2527.2	1361	1069	1021	1093	1215	1652.4	1166.4

RIVER MANDOVI NEAR HOTEL MARIOTT 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.66	7.81	7.56	7.94	7.88	7.57	6.18	7.69	7.35	7.85	7.74	7.68
2	Temperature °C	30.1	31	30	31	27	28.7	30.9	30.1	31.4	26.7	28.4	30
3	Conductivity µs/cm	68400	69300	61560	36590	30550	50950	21000	40820	49090	54690	48770	50260
4	Dissolved Oxygen mg/l	6.2	6.2	6	6.6	7	5.9	6.4	6.4	6.3	6.2	5.7	6.2
5	Turbidity (NTU)	13.9	8.21	14.67	22.2	14.85	13.31	8.16	4.11	14.8	5.49	2.37	5.13
6	Nitrite Nitrogen mg/l	0.004	0.003	0.003	0.007	0.005	0.019	0.005	0.02	0.018	0.017	0.022	0.007
7	Nitrogen(Nitrate) mg/l	0.04	0.21	0.11	0.18	0.1	0.1	0.1	0.04	0.35	0.6	0.82	0.04
8	Phosphate mg/l	0.04	0.02	0.02	0.03	0.04	0.10	0.03	0.04	0.003	0.03	0.02	0.03
9	BOD mg/l	1.9	2.4	1.9	0.6	1.1	2.3	1.3	1.1	3.1	1.9	1.7	1.5
10	COD mg/l	-	-	-	-	-	-	-	-	-	-	-	-
11	Chloride mg/l	21525.24	20155	21769.85	14745	9349.05	23493	9497	15018.8	27866	22947.7	23359.7	20033.7
12	Fecal Coliform MPN/100 ml	2400	450	1300	2300	3300	780	1300	1300	130	1300	130	1300
13	Total Coliform MPN/100 ml	3500	780	2200	4900	4900	2300	1700	1700	230	2300	230	2400
14	Ammonia mg/l	0.09	0.02	0.04	0.8	0.02	0.07	0.07	0.17	0.02	0.02	0.03	0.01
15	Total Dissolved Solids(mg/l)	54422	37498	35432	27479	35851	30036	20521	35999	34576	41480	31400	32488
16	Total Fixed Solids (mg/l)	30136	6716	8631	10092	11319	20208	17447	24537	23962	10953	12598	1432
17	Total Suspended Solid (mg/l)	167	41	33	102	80	100	55	114	100	32	34	179
18	Hardness(mg/l)	6240	6200	13000	4000	4200	5280	4000	5600	7200	8200	7000	6200
19	Fluoride(mg/l)	1.12	0.91	0.78	0.6	1.35	BDL	BDL	1.12	1.6	BDL	BDL	0.97
20	Boron(mg/l)	1.05	7.36	1.65	1.1	-	2.38	0.62	-	0.59	-	-	-
21	Sulphate (mg/l)	2022.58	2382.9	326.25	1331	1685.92	193	683.9	1459	2454.8	2796.2	3299.8	2634.6
22	Total Alkalinity(mg/l)	138	122	30	76	54	960	82	128	120	126	102	118
23	Phenolphthalein Alkalinity(mg/l)	10	18	0	0	6	8	0	0.8	1	14	10	8
24	Sodium(mg/l)	3455	1639	2317	6586	5725	6100	2575	1228	2259	2050	2294	1405
25	Potassium(mg/l)	298.7	220.9	124	186.2	153.6	162	128.7	170.8	200	210.1	217.1	162.8
26	Calcium as CaCO3(mg/l)	1000	400.8	2000	1200	1200	1060	1000	1600	1400	1800	3400	1600
27	Magnesium(mg/l)	1273	1263.6	2673	680	729	1025.5	729	972	1409	1555.2	874.8	1117.8

RIVER MANDOVI AT AMONA 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.91	7	7.05	6.9	6.58	7.15	6.89	5.69	6.87	7.5	7.21	7.28
2	Temperature °C	31.8	32.7	32.8	28	26.5	28.7	29.1	31	30.2	28	30.1	27.5
3	Conductivity µs/cm	29920	36900	38550	481.79	144.02	177.7	154.33	6256	10710	31460	24900	28900
4	Dissolved Oxygen mg/l	5.3	4.5	4.6	6.7	7.3	6.9	6.8	6.4	6.1	5.6	6.1	5.5
5	Turbidity (NTU)	45	16.35	4.15	13.01	9.17	7.67	11.49	5.57	4.2	5.5	1.91	5.76
6	Nitrite Nitrogen mg/l	0.02	0.01	0.09	0.004	0.003	0.005	0.004	0.004	0.089	0.09	0.14	0.21
7	Nitrogen(Nitrate) mg/l	0.06	0.11	0.16	0.13	0.06	0.01	0.1	0.05	0.35	0.08	0.381	0.87
8	Phosphate mg/l	0.04	0.009	0.01	0.004	0.004	0.03	0.02	0.01	0.01	0.01	0.02	0.01
9	BOD mg/l	1.8	1.2	1	0.4	2.3	1	2.1	5.3	1.3	1.6	1.4	4.6
10	COD mg/l	-	-	-	35	11	10	12	-	-	-	-	-
11	Chloride mg/l	12870	13336	13356	1749.5	29	37.2	31	3624	4999	12870.12	8620.6	8928.1
12	Fecal Coliform MPN/100 ml	1300	490	330	1300	1300	2300	3300	780	1100	790	330	230
13	Total Coliform MPN/100 ml	2300	1300	490	2400	2400	4900	4900	1700	1700	1100	490	330
14	Ammonia mg/l	0.06	0.08	0.03	0.05	0.01	0.03	0.04	0.02	0.02	0.01	0.01	0.01
15	Total Dissolved Solids(mg/l)	20644	16918	24384	233	70	106	99	126	150	21393	20257	23876
16	Total Fixed Solids (mg/l)	17294	9824	19401	162	59	47	57	64	68	16264	694	15820
17	Total Suspended Solid (mg/l)	40	78	143	15	8	6	10	12	15	18	20	23
18	Hardness(mg/l)	2640	5000	10000	600	34	30	24	248	1800	3300	2760	9000
19	Fluoride(mg/l)	0.72	0.9	0.61	0.22	0.53	0.28	0.08	0.31	0.8	1.21	1.16	0.71
20	Boron(mg/l)	3.84	-	3.84	1.3	2.53	1.19	0.3	1.99	5.4	0.63	0.51	2.5
21	Sulphate (mg/l)	639	506.3	326	2.9	5.67	7.12	2.5	87	197.2	973	1247.9	1710.2
22	Total Alkalinity(mg/l)	96	102	94	24	240	28	34	44	58	110	200	106
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	1876	1879	1467	50.5	15.3	21.4	34.2	258.9	65.2	4037	967.9	1196
25	Potassium(mg/l)	170.8	107.1	94.6	3.4	2.3	1.7	4.7	11.8	66.8	155.1	13.1	155
26	Calcium as CaCO3(mg/l)	1360	1000	2000	22	12	28	16	48	500	700	520	2000
27	Magnesium(mg/l)	311	972	1944	140	5.3	0.49	2	48.6	315.9	632	544.3	1701

RAIA LAKE 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.83	6.69	6.28	7.28	6.97	7.05	5.86	7.48	6.85	7	7.06	6.96
2	Temperature °C	30	33.1	30	30.4	27.2	32.2	27.6	34.8	30.4	27.3	27.5	28.7
3	Conductivity µs/cm	147.3	188.75	363.18	87.3	75.52	81.8	80.16	180.77	103.32	130.52	111.85	43.8
4	Dissolved Oxygen mg/l	7.3	4.5	3	8.3	7.3	8.1	10.7	10.4	5.1	4.8	7.6	7.1
5	Turbidity (NTU)	18.8	150	245	3.06	7.22	1.73	2.49	3.16	2.81	3.91	6.55	7.78
6	Nitrite Nitrogen mg/l	0.01	0.033	0.006	0.083	0.003	0.008	0.002	0.004	0.002	0.003	0.004	0.007
7	Nitrogen(Nitrate) mg/l	0.02	0.06	0.02	BDL	0.11	0.04	0.03	0.04	0.03	BDL	0.02	0.12
8	Phosphate mg/l	0.02	0.03	0.07	0.01	0.02	0.004	0.01	0.002	0.01	0.01	0.01	0.26
9	BOD mg/l	3.2	0.8	0.3	1.9	3.6	0.7	1.8	7.7	3.7	1.5	1.5	1.5
10	COD mg/l	36	14	26	5	14	14	9	18	5	7	31	8
11	Chloride mg/l	23.5	32.78	44.5	8.81	5	10	11	17.5	13.6	30.5	16.14	25.93
12	Fecal Coliform MPN/100 ml	490	790	3300	1300	450	1100	1300	1300	2300	780	2400	790
13	Total Coliform MPN/100 ml	790	1100	4900	2400	680	1700	2300	3300	4900	2300	5400	1400
14	Ammonia mg/l	0.14	2.03	10.97	0.01	0.03	0.05	0.01	0.001	0.004	0.08	0.02	0.02
15	Total Dissolved Solids(mg/l)	64	130	128	52	150	30	51	55	62	135	90	52
16	Total Fixed Solids (mg/l)	32	90	98	24	45	20	25	28	45	9	16	31
17	Total Suspended Solid (mg/l)	18	115	110	44	7	142	11	12	32	3	16	19
18	Hardness(mg/l)	36	20	40	26	12	22	18	18	28	28	30	28
19	Fluoride(mg/l)	0.13	0.09	1.06	BDL	0.08	0.09	BDL	0.3	0.22	0.33	0.23	0.29
20	Boron(mg/l)	10.1	4.47	0.76	BDL	0.09	0.3	3.27	0.96	0.15	0.14	-	0.39
21	Sulphate (mg/l)	4.9	28.61	70.5	6.47	4.3	233.9	2.99	18.6	2.55	6.8	3.53	7.61
22	Total Alkalinity(mg/l)	54	14	16	44	34	30	56	26	38	44	34	36
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	12.3	19.9	27.3	6.5	5.4	12.2	6.8	12.1	23.7	10.7	40.4	12.8
25	Potassium(mg/l)	7.1	11.3	6.5	2.9	2.3	7.2	2.2	3	8.9	6.3	5.1	4.8
26	Calcium as CaCO3(mg/l)	16	10	22	16	10	12	14	12	18	16	14	20
27	Magnesium(mg/l)	4.9	2.43	4.4	2.43	0.5	2.4	1	1.5	2.43	2.9	3.9	1.94

SAIPEM LAKE, NAVELIM 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	Lake was dry	Lake was dry	6.71	Lake was dry	6.09	6.54	Sample not collected due to inaccessibility	6.27	Lake was dry	Sample not collected due to inaccessibility	Lake was dry	Sample not collected due to inaccessibility
2	Temperature °C			26		27.8	30.3		31.8				
3	Conductivity µs/cm			665.65		197.44	351.72		388				
4	Dissolved Oxygen mg/l			0.4		2.5	2		0				
5	Turbidity (NTU)			93.8		24.1	19.93		43.7				
6	Nitrite Nitrogen mg/l			0.017		0.6	0.005		0.016				
7	Nitrogen(Nitrate) mg/l			BDL		0.22	0.14		1.87				
8	Phosphate mg/l			0.15		0.05	0.06		0.03				
9	BOD mg/l			13		1.9	1.5		7				
10	COD mg/l			25		18	23		12				
11	Chloride mg/l			80.5		18	52.83		16.5				
12	Fecal Coliform MPN/100 ml			35000		24000	54000		54000				
13	Total Coliform MPN/100 ml			92000		54000	92000		92000				
14	Ammonia mg/l			10.6		0.4	0.06		11.29				
15	Total Dissolved Solids(mg/l)			1832		208	220		211				
16	Total Fixed Solids (mg/l)			405		38	80		168				
17	Total Suspended Solid (mg/l)			96		23	18		49				
18	Hardness(mg/l)			84		46	76		132				
19	Fluoride(mg/l)			0.12		0.07	0.93		0.34				
20	Boron(mg/l)			1.8		0.15	1.98		1.66				
21	Sulphate (mg/l)			36.5		11.3	1922.81		17.6				
22	Total Alkalinity(mg/l)			78		60	104		820				
23	Phenolphthalein Alkalinity(mg/l)			0		0	0		0				
24	Sodium(mg/l)			56.1		11.7	32.6		56.8				
25	Potassium(mg/l)			9.6		3.5	8		15.7				
26	Calcium as CaCO3(mg/l)			40		32	68		114				
27	Magnesium(mg/l)			10.7		3.4	1.9		4.4				

CURTORIM LAKE, CURTORIM 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.76	6.89	7.02	6.92	7.63	6.72	6.33	5.87	8.02	6.65	7.37	7.22
2	Temperature °C	30.4	32.1	30.2	29.4	28	33.2	31.7	34.1	30.5	28.8	27	29.2
3	Conductivity µs/cm	154.1	149.88	106.58	97.64	12060	121.3	126.79	183.14	167.2	186.2	162.59	47.53
4	Dissolved Oxygen mg/l	7.8	3.6	8	5.2	6.6	6.5	3.5	3.8	10.6	5.9	7.1	7.2
5	Turbidity (NTU)	31.5	8.16	59.9	10.16	14.79	16.03	21.3	11.65	15.09	7.09	3.97	8.4
6	Nitrite Nitrogen mg/l	0.01	0.022	0.003	0.074	0.001	0.003	0.002	0.005	0.004	0.003	0.006	0.003
7	Nitrogen(Nitrate) mg/l	BDL	0.22	0.02	BDL	0.01	0.02	0.03	0.32	0.03	0.004	0.06	0.02
8	Phosphate mg/l	0.04	0.01	0.03	0.02	0.007	0.01	0.01	0.01	0.03	0.02	0.02	0.03
9	BOD mg/l	2.8	1.1	1.6	1.6	1.2	1.2	2.5	3.3	10.4	4.9	2.2	2.4
10	COD mg/l	27	13	6	9	3	4	12	10	19	17	11	15
11	Chloride mg/l	25	19.08	12	7.83	4	16	16	27.5	23.31	27.5	18.1	20.06
12	Fecal Coliform MPN/100 ml	2300	1300	1300	1300	4900	2300	2300	1300	780	1300	78	2300
13	Total Coliform MPN/100 ml	3300	2300	2300	2300	7900	4900	4900	2300	1300	2200	1300	4600
14	Ammonia mg/l	0.17	0.29	0.1	0.01	0.03	0.03	BDL	0.02	0.04	0.01	0.01	0.01
15	Total Dissolved Solids(mg/l)	94	95	75	57	85	85	86	94	109	4254	130	64
16	Total Fixed Solids (mg/l)	51	45	40	26	21	18	55	56	89	295	8	44
17	Total Suspended Solid (mg/l)	15	26	30	37	13	134	29	35	37	30	8	16
18	Hardness(mg/l)	30	30	38	32	18	36	30	32	46	42	50	52
19	Fluoride(mg/l)	0.1	0.03	0.02	0.01	0.15	0.9	BDL	0.09	0.27	0.4	0.19	0.37
20	Boron(mg/l)	10.7	0.87	1.4	0.19	0.1	0.33	1.74	0.54	0.02	1.88	-	0.88
21	Sulphate (mg/l)	19.2	14.41	18	5.98	4.3	141.4	1.65	24.9	4.15	2.9	1.31	1
22	Total Alkalinity(mg/l)	20	36	26	44	36	50	34	56	74	60	68	66
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	13.4	14.6	5.9	7.2	5.2	57	9.5	18.1	31.5	15.7	12.8	12
25	Potassium(mg/l)	5.8	3.6	2.2	1.7	1.8	10.1	4	7.8	14.3	8.5	4.2	4.8
26	Calcium as CaCO3(mg/l)	20	20	16	16	14	20	20	18	24	22	26	36
27	Magnesium(mg/l)	2.4	2.43	5.4	3.89	1	3.9	2	3.4	5.35	4.9	5.83	3.89

RIVER ZUARI AT MADKAI JETTY 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.22	6.98	7.39	7.79	7.87	6.66	6.12	7.43	7.21	7.61	7.7	7.73
2	Temperature °C	30.6	33.2	33.5	30	29.2	31.2	26	32	28.4	28.6	28	30
3	Conductivity µs/cm	44120	61000	57160	23360	17070	33090	31840	36100	47170	49380	46300	46270
4	Dissolved Oxygen mg/l	5.3	6	5.1	6.6	6.8	3	5.9	5.5	4.9	6.1	5.1	5.5
5	Turbidity (NTU)	5.3	11.87	58.1	34.5	20.7	13.6	14.1	9.37	14.2	41.2	9.68	26.8
6	Nitrite Nitrogen mg/l	0.024	0.01	0.02	0.02	0.02	0.006	0.011	0.022	0.06	0.01	0.02	0.032
7	Nitrogen(Nitrate) mg/l	0.47	0.05	0.33	0.29	0.11	0.29	0.58	0.14	0.7	0.13	0.61	0.14
8	Phosphate mg/l	0.03	0.04	0.03	0.05	0.11	0.04	0.04	0.06	0.03	0.05	0.01	0.12
9	BOD mg/l	2.4	3.5	0.6	1.3	1.5	-	1.2	2.9	1.4	3	1.7	2
10	COD mg/l	-	-	-	-	-	-	-	-	-	-	-	-
11	Chloride mg/l	18712.3	18644	19323.8	8497	6262	14246	18100.8	18744	19744	11618.7	28991	18619
12	Fecal Coliform MPN/100 ml	1300	1300	2300	3300	2300	1300	780	450	130	130	1400	230
13	Total Coliform MPN/100 ml	2300	2300	3300	4900	4900	2300	1300	780	230	230	780	330
14	Ammonia mg/l	0.026	0.06	0.05	0.06	0.08	0.05	0.03	0.01	0.02	0.01	0.02	0.22
15	Total Dissolved Solids(mg/l)	30426	28926	33063	31081	11425	12328	32035	31878	30712	29892	30562	25950
16	Total Fixed Solids (mg/l)	17188	18246	24912	16228	10030	17568	13443	13400	24778	23800	24444	15718
17	Total Suspended Solid (mg/l)	161	290	197	44	156	113	84	78	46	74	80	173
18	Hardness(mg/l)	5200	8600	6200	1000	2000	4600	3400	5200	7800	7800	6200	33600
19	Fluoride(mg/l)	1.03	0.9	0.87	0.59	0.86	0.22	1.74	1.3	1.3	1.26	1.3	0.73
20	Boron(mg/l)	4.17	-	5.33	0.64	1	0.31	-	0.29	0.22	4.22	0.4	-
21	Sulphate (mg/l)	1154.3	1272.4	2450.8	1708	352.09	308.04	2929.82	528.5	2829	2844.9	3481	4706.5
22	Total Alkalinity(mg/l)	108	120	96	56	56	20	68	106	106	128	20	1240
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0.9	0	0	0
24	Sodium(mg/l)	5445	2377	2263	3921	3423	13.8	4808	4572	1995	1651	204.6	6681
25	Potassium(mg/l)	240.7	118.7	120.1	142.4	108.6	7.7	186	231.4	183.8	143.1	56.8	251
26	Calcium as CaCO3(mg/l)	1400	1400	1800	800	600	600	1400	1200	1400	1600	1400	8800
27	Magnesium(mg/l)	923.4	1749.6	1069.2	48.6	340.2	972	486	972	1555	1506.6	1166	6026.4

RIVER ZUARI AT BORIM BRIDGE 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.12	6.93	7.17	6.94	6.95	6.87	6.82	6.87	7.06	7.19	6.29	7.01
2	Temperature °C	30.8	33.2	33	30	28.9	30.9	27	32.3	28.1	28.2	28	29
3	Conductivity µs/cm	27660	49300	43960	1003	209.6	671.71	16350	14630	24720	29940	22180	25440
4	Dissolved Oxygen mg/l	5.1	5.6	4.9	6.3	7.5	7	5.5	6.4	5.3	6.2	5.4	6.3
5	Turbidity (NTU)	6.96	7.21	18.59	16.13	13.89	12.45	4.53	12.38	21.2	15.17	3.27	14.12
6	Nitrite Nitrogen mg/l	0.068	0.005	0.061	0.007	0.01	0.001	0.006	0.02	0.04	0.027	0.05	0.012
7	Nitrogen(Nitrate) mg/l	0.26	0.03	0.18	0.26	0.09	0.07	0.18	0.12	0.69	0.42	0.43	0.04
8	Phosphate mg/l	0.028	0.03	0.02	0.03	0.03	0.02	0.03	0.08	0.03	0.04	0.02	0.01
9	BOD mg/l	0.8	1.7	0.6	0.9	1.8	-	1.2	4.1	0.5	2.8	1.6	1.9
10	COD mg/l	-	-	-	15	15	28	-	-	-	-	-	-
11	Chloride mg/l	11985.7	11586	15043.2	1999	43.5	1249.6	8928.1	10747	9372	7215.9	15745	21868
12	Fecal Coliform MPN/100 ml	1300	1300	1300	490	1300	1300	1300	2300	4600	2300	1300	330
13	Total Coliform MPN/100 ml	2300	2300	2300	790	3300	2300	2300	4900	7000	3300	2300	490
14	Ammonia mg/l	0.013	0.06	0.01	0.07	0.05	0.05	0.03	0.003	BDL	0.04	0.03	0.01
15	Total Dissolved Solids(mg/l)	18995	29846	27691	22602	182	225	14805	14603	15446	19125	18299	14553
16	Total Fixed Solids (mg/l)	16504	13246	15587	521	138	178	6000	5900	12401	12520	12842	13277
17	Total Suspended Solid (mg/l)	92	99	103	23	13	18	30	24	113	137	150	56
18	Hardness(mg/l)	3200	5200	4800	94	30	70	1600	1840	3400	3200	3000	22400
19	Fluoride(mg/l)	0.79	0.7	0.61	0.18	0.27	0.11	1.6	0.74	0.9	1.13	1	0.72
20	Boron(mg/l)	3.62	9.6	4.46	0.58	0.14	0.1	-	0.28	2.4	3.53	0.4	-
21	Sulphate (mg/l)	1034.5	711.2	1508.6	37.7	6.07	1770.7	767.87	143	921.4	1356.9	1050.6	2011.1
22	Total Alkalinity(mg/l)	86	100	78	30	30	22	46	62	74	84	22	860
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	3548	1811	1781	131	21.7	81	2204	1852	698.9	865.8	568.4	3511
25	Potassium(mg/l)	153.7	108.6	106.5	7.2	2.7	9.5	103.6	99	119.5	133.4	113.4	138.2
26	Calcium as CaCO3(mg/l)	1000	1000	1600	22	14	14	1000	300	900	1600	1200	2200
27	Magnesium(mg/l)	534.6	1020.6	777.6	17.5	3.89	13.6	145.8	374	607.5	388.8	437	4908.6

CARAMBOLIM LAKE 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.79	7.59	7.23	7.01	6.79	6.83	6.8	6.12	6.73	7.01	7.26	6.96
2	Temperature °C	29	34	33	30	27	31.7	30	31.9	31.1	29	30	27
3	Conductivity µs/cm	199	335	393.3	159.39	111.05	141	135.9	162.02	168.53	179.62	178.96	62.23
4	Dissolved Oxygen mg/l	4.9	6.4	4.3	7	5.6	5.4	5.1	3.4	4	5.2	4.4	4.6
5	Turbidity (NTU)	6.32	6.43	18.97	10.99	7.84	9.43	4.24	4	4.81	4.11	3	5.7
6	Nitrite Nitrogen mg/l	0.002	0.003	0.005	0.002	0.006	0.008	0.002	0.004	0.003	0.002	0.003	0.003
7	Nitrogen(Nitrate) mg/l	0.05	0.09	0.03	0.01	BDL	BDL	0.02	BDL	0.15	0.004	0.5	0.004
8	Phosphate mg/l	0.02	0.02	BDL	0.01	0.01	0.04	0.01	0.03	0.02	0.01	0.02	0.003
9	BOD mg/l	1.7	2.6	4.2	6.4	4.7	5	2.3	3	2.4	2.7	2.7	1.5
10	COD mg/l	8	9	33	25	27	16	20	15	17	22	17	19
11	Chloride mg/l	27.4	61.2	50.39	16.5	12.5	14.7	17	20.5	16.5	19.9	18.5	21.6
12	Fecal Coliform MPN/100 ml	3300	1700	4900	13000	7900	1100	780	2300	3300	790	230	230
13	Total Coliform MPN/100 ml	4900	3300	7900	24000	13000	1400	1400	4900	7900	1300	330	330
14	Ammonia mg/l	0.01	0.19	0.07	0.07	0.09	0.13	0.07	0.01	0.02	0.01	0.04	0.003
15	Total Dissolved Solids(mg/l)	172	169	235	565	168	84	90	96	90	126	116	437
16	Total Fixed Solids (mg/l)	155	48	40	190	134	40	40	48	40	67	15	35
17	Total Suspended Solid (mg/l)	6	13	41	25	9	12	16	18	20	3	36	9
18	Hardness(mg/l)	56	68	94	94	32	46	46	46	58	48	54	52
19	Fluoride(mg/l)	0.08	0.12	0.08	0.23	0.73	0.25	0.15	0.29	0.75	0.09	BDL	0.12
20	Boron(mg/l)	0.8	0.12	0.18	0.99	2.15	0.15	0.33	1.1	0.45	0.08	0.44	1.9
21	Sulphate (mg/l)	2.07	4.9	2.11	1580	11.54	7.86	2.8	3.7	3.9	5.14	4.8	2.4
22	Total Alkalinity(mg/l)	74	76	20	42	400	44	56	60	68	62	72	1.3
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	16.2	-	32.3	13.1	6	10.3	14.6	13.3	16.1	12.8	12.6	28.4
25	Potassium(mg/l)	6.3	-	5.5	2.9	2.1	1.5	4.1	3.6	9.2	4.8	2.5	6.8
26	Calcium as CaCO3(mg/l)	38	24.8	52	38	28	38	42	36	44	38	42	42
27	Magnesium(mg/l)	4.37	1.5	10.21	13.6	1	1.94	0.97	2.4	3.4	2.43	2.9	2.4

ANJUNEM LAKE 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.23	7.04	6.03	7.17	7.02	8	7.5	5.64	7.5	7.17	7.53	8.29
2	Temperature °C	31	28	28	28.9	27	27	25	31.1	29.6	27.3	28.4	31.2
3	Conductivity µs/cm	51.5	112.3	61.72	51.7	51	48.2	47.49	55.67	59.26	56.9	55.09	16.26
4	Dissolved Oxygen mg/l	7.9	7.9	7.3	8	8.2	8.3	7.9	7.4	7.1	4.6	7.3	7
5	Turbidity (NTU)	1.36	2.24	12.85	1.6	3.49	1.01	1.15	0.53	0.23	1.18	1.24	0.68
6	Nitrite Nitrogen mg/l	0.002	0.003	0.006	0.011	0.003	0.005	0.002	0.003	0.001	0.002	0.001	0.002
7	Nitrogen(Nitrate) mg/l	BDL	BDL	0.01	0.03	0.05	0.02	0.03	0.02	0.01	0.03	0.01	0.003
8	Phosphate mg/l	0.005	0.01	0.02	0.01	0.01	0.02	0.001	0.02	B DL	0.01	0.01	0.001
9	BOD mg/l	2	1.1	2.2	1.4	0.7	0.6	0.6	0.6	0.8	0.2	0.3	0.4
10	COD mg/l	8	6	13	9	1	9	11	12	8	18	1	2
11	Chloride mg/l	7.5	6.85	4	7.83	3	7.34	13.5	9.78	6.85	8	5.3	6.9
12	Fecal Coliform MPN/100 ml	13	33	13	33	350	240	23	13	4.5	2	23	2
13	Total Coliform MPN/100 ml	23	70	33	79	540	540	33	23	13	4.5	49	4.5
14	Ammonia mg/l	0.003	0.01	0.04	0.01	0.03	0.06	0.01	0.004	0.03	0.06	0.01	0.03
15	Total Dissolved Solids(mg/l)	35	66	63	33	76	54	32	130	100	30	37	43
16	Total Fixed Solids (mg/l)	28	40	21	23	52	36	22	94	52	25	10	14
17	Total Suspended Solid (mg/l)	6	8	28	8	21	4	5	16	27	6	4	4
18	Hardness(mg/l)	22	18	24	20	32	16	8	28	22	20	24	18
19	Fluoride(mg/l)	0.12	0.05	0.22	0.03	0.12	0.5	0.03	0.01	0.21	0.32	0.11	0.07
20	Boron(mg/l)	31.4	0.07	0.09	2.53	0.2	0.73	1.82	0.83	0.15	0.42	1.57	0.1
21	Sulphate (mg/l)	4.6	1.59	3.2	2.44	2.9	15.94	1	0.48	1.87	2.5	1.57	2.4
22	Total Alkalinity(mg/l)	28	20	34	18	32	18	220	32	30	320	26	0.6
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	7.6	3.7	4	3.2	4.5	2.6	5.5	6.8	13.8	6.3	2.7	9.6
25	Potassium(mg/l)	4.2	0.4	0.6	1.8	1.9	0.2	1.7	0.1	9.5	2.6	0.2	5.5
26	Calcium as CaCO ₃ (mg/l)	10	12	14	12	22	12	8	16	10	18	12	12
27	Magnesium(mg/l)	2.9	1.46	2.4	1.94	2.4	1	BDL	2.9	2.92	0.5	2.92	1.5

RIVER MANDOVI AT RIBANDAR-CHODAN FERRY, PANAJI 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	7.35	8.02	7.78	7.21	7.62	5.6	7.2	7.35	7.69	7.47	7.2	7.63
2	Temperature °C	31.4	31.9	26	28	29.2	28.5	31.2	32	27.3	28.2	28.9	29.5
3	Conductivity µs/cm	47510	52190	56030	1081	18060	44360	11860	29160	40790	39400	40240	45900
4	Dissolved Oxygen mg/l	5.4	4.7	6	7.3	6.5	4	7	5.6	5.3	6.3	5.2	6.3
5	Turbidity (NTU)	14.8	10.05	10.62	16.92	37.2	11.22	40.2	13.35	5.83	4.72	6.08	11.09
6	Nitrite Nitrogen mg/l	0.007	0.013	0.053	0.01	0.008	0.001	0.009	0.014	0.043	0.045	0.01	0.007
7	Nitrogen(Nitrate) mg/l	0.029	0.12	0.15	BDL	0.11	0.6	0.25	0.31	0.17	0.07	0.21	0.05
8	Phosphate mg/l	0.028	0.02	0.05	0.04	0.03	0.06	0.02	0.03	0.02	0.01	0.01	0.02
9	BOD mg/l	2.6	1.2	1.2	1.2	1.5	1.7	2.5	1.7	2	2.3	1	2.3
10	COD mg/l	-	-	-	5	-	-	-	-	-	-	-	-
11	Chloride mg/l	21493	18941	18994	181	5707	18244	5623	13356	28129.6	16633.14	15165.5	18940.94
12	Fecal Coliform MPN/100 ml	1700	1300	1300	3300	7900	13000	3300	2300	2300	2300	790	5400
13	Total Coliform MPN/100 ml	3300	2300	2300	7900	11000	17000	4900	3300	4900	3300	1100	9200
14	Ammonia mg/l	0.053	0.02	0.04	0.08	0.19	0.01	0.03	0.01	0.002	0.13	0.01	0.01
15	Total Dissolved Solids(mg/l)	43162	36311	37186	516	12687	30796	14562	20467	26570	22248	31274	24055
16	Total Fixed Solids (mg/l)	24626	30180	7810	357	9587	28250	10081	15942	2906	10572	21376	13041
17	Total Suspended Solid (mg/l)	35	107	234	20	74	97	92	73	86	98	97	38
18	Hardness(mg/l)	7000	6750	9000	76	9000	9000	1800	4300	15400	4400	5000	7400
19	Fluoride(mg/l)	1	0.82	0.96	0.06	0.9	0.76	2.9	1.01	1.41	1.51	1.06	0.87
20	Boron(mg/l)	28.8	2.41	0.34	-	0.79	0.45	0.42	1.16	0.92	0.49	-	1.63
21	Sulphate (mg/l)	4687.6	1404	2202.8	18.2	427	483.2	105.7	821.42	100.54	1953.56	1429.8	1542.24
22	Total Alkalinity(mg/l)	138	106	124	34	54	90	64	82	116	112	98	108
23	Phenolphthalein Alkalinity(mg/l)	0	12	0	0	0	0	0	8	32	4	0	8
24	Sodium(mg/l)	4586	8091	1544	90.4	3101	1355	1273	705.2	916.5	5597	1278	1426
25	Potassium(mg/l)	245.9	9.4	206.3	4.8	122.5	192.9	76.6	133.5	85.7	208.5	154.4	166.3
26	Calcium as CaCO3(mg/l)	2500	1500	2500	24	2500	1200	1200	700	3200	700	1000	1200
27	Magnesium(mg/l)	1093.5	1276	1579.5	12.6	1579.5	1895	145.8	875	2964.6	899.1	972	1506

HARWALE WATERFALL 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.59	7.4	6.05	7	6.89	7.4	7.7	5.93	6.8	6.61	7.23	7.23
2	Temperature °C	28.5	27	27.6	28.8	28	27	26	29.1	28.3	26.4	27.7	30.4
3	Conductivity µs/cm	51.56	50.61	95.94	63.8	54.3	71.9	62.49	85.97	93.33	85.97	81.93	30.57
4	Dissolved Oxygen mg/l	7.3	7.4	7.1	7.4	7.5	7.4	7.6	6.5	7.9	8.1	7.7	7.3
5	Turbidity (NTU)	3.08	2.23	4.12	4.91	13.08	3.51	4.83	6.42	8.03	3.85	5.86	1.91
6	Nitrite Nitrogen mg/l	0.004	0.004	0.003	0.009	0.002	0.003	0.003	0.006	0.01	0.003	0.045	0.003
7	Nitrogen(Nitrate) mg/l	0.08	0.07	0.14	0.06	0.1	0.18	0.2	0.129	0.06	0.09	0.02	0.33
8	Phosphate mg/l	0.01	0.004	0.01	0.01	0.02	0.01	0.006	0.013	0.021	0.01	0.03	0.01
9	BOD mg/l	1.5	2.1	1.5	0.5	0.1	1.8	1.5	0.3	7.5	1.5	3.4	1.6
10	COD mg/l	5	6	7	7	1	4	2	4	2	2	4	4
11	Chloride mg/l	11	36.2	7.5	9.78	2	12.72	16.5	8.81	1.47	10	3.86	4.4
12	Fecal Coliform MPN/100 ml	2300	2300	2300	7000	13000	11000	7900	4900	2300	1300	3300	1300
13	Total Coliform MPN/100 ml	3300	4900	3300	11000	17000	17000	13000	7900	3300	2300	4900	3300
14	Ammonia mg/l	0.03	0.01	0.05	0.01	0.02	0.05	0.02	0.009	0.03	0.05	0.01	0.03
15	Total Dissolved Solids(mg/l)	45	29	67	40	106	57	42	184	106	45	55	62
16	Total Fixed Solids (mg/l)	36	19	24	31	86	33	35	109	99	35	16	18
17	Total Suspended Solid (mg/l)	5	10	3	3	5	4	5	17	14	10	8	6
18	Hardness(mg/l)	40	44	44	26	12	22	16	30	38	40	30	44
19	Fluoride(mg/l)	0.1	0.06	0.07	0.05	0.23	0.5	0.02	0.09	BDL	0.19	BDL	0.16
20	Boron(mg/l)	-	0.11	0.03	5.15	1.9	2.23	1.86	1.97	0.19	0.45	0.13	0.12
21	Sulphate (mg/l)	3.4	3.52	4.1	2.63	2.7	25.52	4.37	1.38	1.12	4.86	2.14	4.7
22	Total Alkalinity(mg/l)	50	52	44	20	24	24	200	26	48	400	32	0.8
23	Phenolphthalein Alkalinity(mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
24	Sodium(mg/l)	7.6	5.1	0.9	3.2	4.5	3.9	5.6	6.9	8	8.5	2.1	9.6
25	Potassium(mg/l)	4.3	0.3	0.7	1.8	1.9	0.9	1.7	0.5	7.5	2.9	0.3	5.7
26	Calcium as CaCO ₃ (mg/l)	26	28	28	10	10	20	12	26	24	30	20	18
27	Magnesium(mg/l)	3.4	3.89	3.9	3.4	0.5	0.5	1	1	3.4	2.4	2.43	4.9

INLET SAMPLE TO STP AT TONCA, PANAJI 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.32	7.29	6.46	6.79	6.82	6.66	6.34	6.38	6.25	6.61	6.32	6.64
2	BOD mg/l	340	260	285	175	131	108	110	250	210	867	414	310
3	COD mg/l	650	500	620	260	390	200	250	580	600	1600	760	500
4	Total Suspended Solid (mg/l)	220	273	286.7	89	125	65	68	248	478	630	430	383

OUTLET SAMPLE TO STP AT TONCA, PANAJI 2015-2016

Sr. No	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
1	pH	6.63	7.8	6.69	7.17	7.05	7.05	6.67	6.94	6.66	6.9	6.68	6.18
2	BOD mg/l	3.6	20	18	4.24	23	3.6	4.8	8	8	4.4	6.59	2.6
3	COD mg/l	20	90	60	30	160	20	20	40	30	20	30	20
4	Total Suspended Solid (mg/l)	11	22	20	8	18	5	8	23	5	11	17	18

**BOREWELL/TUBE WELL/ OPEN WELL IN ZUARI INDUSTRIES LTD, ZUARINAGAR
2015-2016**

Sr. No	Parameters	Apr-15	Oct-15
1	pH	Sample not collected as well is dismantled	Sample not collected as well is dismantled
2	Temperature °C		
3	Conductivity µs/cm		
4	Dissolved Oxygen mg/l		
5	Turbidity (NTU)		
6	Nitrite Nitrogen mg/l		
7	Nitrogen(Nitrate) mg/l		
8	Phosphate mg/l		
9	BOD mg/l		
10	COD mg/l		
11	Chloride mg/l		
12	Fecal Coliform MPN/100 ml		
13	Total Coliform MPN/100 ml		
14	Ammonia mg/l		
15	Total Dissolved Solids(mg/l)		
16	Total Fixed Solids (mg/l)		
17	Total Suspended Solid (mg/l)		
18	Hardness(mg/l)		
19	Fluoride(mg/l)		
20	Boron(mg/l)		
21	Sulphate (mg/l)		
22	Total Alkalinity(mg/l)		
23	Phenolphthalein Alkalinity(mg/l)		
24	Sodium(mg/l)		
25	Potassium(mg/l)		
26	Calcium as CaCO ₃ (mg/l)		
27	Magnesium(mg/l)		

BOREWELL/TUBE WELL/OPEN WELL AT SANCOALE INDUSTRIAL ESTATE 2015-2016

Sr. No	Parameters	Apr-15	Oct-15
1	pH	8.02	6.8
2	Temperature °C	31.2	26
3	Conductivity µs/cm	114.8	104.4
4	Dissolved Oxygen mg/l	6.5	7.1
5	Turbidity (NTU)	3.18	7.89
6	Nitrite Nitrogen mg/l	0.002	0.001
7	Nitrogen(Nitrate) mg/l	0.84	0.91
8	Phosphate mg/l	0.02	0.02
9	BOD mg/l	0.2	0.9
10	COD mg/l	2	2
11	Chloride mg/l	15	23
12	Fecal Coliform MPN/100 ml	NIL	7.8
13	Total Coliform MPN/100 ml	<1.8	17
14	Ammonia mg/l	0.007	0.03
15	Total Dissolved Solids(mg/l)	28	70
16	Total Fixed Solids (mg/l)	18	38
17	Total Suspended Solid (mg/l)	5	3
18	Hardness(mg/l)	38	20
19	Fluoride(mg/l)	0.11	BDL
20	Boron(mg/l)	10.7	0.1
21	Sulphate (mg/l)	1.4	1.79
22	Total Alkalinity(mg/l)	48	34
23	Phenolphthalein Alkalinity(mg/l)	0	0
24	Sodium(mg/l)	13.1	11.7
25	Potassium(mg/l)	0.2	2.2
26	Calcium as CaCO ₃ (mg/l)	18	10
27	Magnesium(mg/l)	4.9	2.43

BOREWELL/TUBE WELL/ OPEN WELL AT VERNA INDUSTRIAL ESTATE 2015-2016

Sr. No	Parameters	Apr-15	Oct-15
1	pH	7.05	6.25
2	Temperature °C	27	31.5
3	Conductivity µs/cm	265	295.24
4	Dissolved Oxygen mg/l	4.1	6.4
5	Turbidity (NTU)	0.4	0.4
6	Nitrite Nitrogen mg/l	BDL	BDL
7	Nitrogen(Nitrate) mg/l	0.02	1.3
8	Phosphate mg/l	0.04	0.01
9	BOD mg/l	0.7	0.5
10	COD mg/l	9	11
11	Chloride mg/l	13.7	43.5
12	Fecal Coliform MPN/100 ml	NIL	NIL
13	Total Coliform MPN/100 ml	<1.8	<1.8
14	Ammonia mg/l	0.02	0.02
15	Total Dissolved Solids(mg/l)	355	182
16	Total Fixed Solids (mg/l)	169	120
17	Total Suspended Solid (mg/l)	8	4
18	Hardness(mg/l)	102	76
19	Fluoride(mg/l)	0.154	0.01
20	Boron(mg/l)	0.4	-
21	Sulphate (mg/l)	27.62	12.85
22	Total Alkalinity(mg/l)	102	34
23	Phenolphthalein Alkalinity(mg/l)	0	0
24	Sodium(mg/l)	7.6	21.1
25	Potassium(mg/l)	5.9	2.7
26	Calcium as CaCO ₃ (mg/l)	46	44
27	Magnesium(mg/l)	13.61	7.78

BOREWELL/ TUBE WELL/ OPEN WELL KUNDAIM INDUSTRIAL ESTATE 2015-2016

Sr. No	Parameters	Apr-15	Oct-15
1	pH	7.28	6.43
2	Temperature °C	28.9	31.6
3	Conductivity µs/cm	202.6	148.8
4	Dissolved Oxygen mg/l	3.7	3.7
5	Turbidity (NTU)	101	3.01
6	Nitrite Nitrogen mg/l	0.003	0.002
7	Nitrogen(Nitrate) mg/l	0.64	0.84
8	Phosphate mg/l	0.67	0.01
9	BOD mg/l	1.5	0.5
10	COD mg/l	5	10
11	Chloride mg/l	12.72	24
12	Fecal Coliform MPN/100 ml	NIL	NIL
13	Total Coliform MPN/100 ml	<1.8	<1.8
14	Ammonia mg/l	0.02	0.01
15	Total Dissolved Solids(mg/l)	129	80
16	Total Fixed Solids (mg/l)	80	50
17	Total Suspended Solid (mg/l)	32	2
18	Hardness(mg/l)	58	36
19	Fluoride(mg/l)	0.26	3.5
20	Boron(mg/l)	0.84	0.33
21	Sulphate (mg/l)	9.14	0.3
22	Total Alkalinity(mg/l)	86	50
23	Phenolphthalein Alkalinity(mg/l)	0	0
24	Sodium(mg/l)	7.6	15
25	Potassium(mg/l)	6.4	2.6
26	Calcium as CaCO ₃ (mg/l)	54	20
27	Magnesium(mg/l)	0.97	3.9

BORE WELL/ TUBE WELL / OPENWELL IN CORLIM INDUSTRIAL ESTATE 2015-2016

Sr. No	Parameters	Apr-15	Oct-15
1	pH	6.91	5.79
2	Temperature °C	32	25
3	Conductivity µs/cm	52.23	70.9
4	Dissolved Oxygen mg/l	7.1	4.6
5	Turbidity (NTU)	0.87	0.4
6	Nitrite Nitrogen mg/l	0.001	0.001
7	Nitrogen(Nitrate) mg/l	0.6	0.08
8	Phosphate mg/l	0.01	0.01
9	BOD mg/l	0.7	0.4
10	COD mg/l	4	12
11	Chloride mg/l	16.5	18.5
12	Fecal Coliform MPN/100 ml	NIL	49
13	Total Coliform MPN/100 ml	<1.8	130
14	Ammonia mg/l	0.016	0.001
15	Total Dissolved Solids(mg/l)	51	160
16	Total Fixed Solids (mg/l)	29	104
17	Total Suspended Solid (mg/l)	8	5
18	Hardness(mg/l)	16	10
19	Fluoride(mg/l)	0.07	BDL
20	Boron(mg/l)	11.1	0.23
21	Sulphate (mg/l)	4.8	1.4
22	Total Alkalinity(mg/l)	24	12
23	Phenolphthalein Alkalinity(mg/l)	0	0
24	Sodium(mg/l)	8.7	20.8
25	Potassium(mg/l)	1.4	7.4
26	Calcium as CaCO ₃ (mg/l)	10	8
27	Magnesium(mg/l)	1.5	0.5

BOREWELL/TUBE WELL/OPEN WELL IN PILERNE INDUSTRIAL ESTATE 2015-2016

Sr. No	Parameters	Apr-15	Oct-15
1	pH	7.3	6.49
2	Temperature °C	28.4	32.1
3	Conductivity µs/cm	257.9	280.09
4	Dissolved Oxygen mg/l	4.6	4.5
5	Turbidity (NTU)	0.86	9.38
6	Nitrite Nitrogen mg/l	0.001	0.002
7	Nitrogen(Nitrate) mg/l	0.011	0.11
8	Phosphate mg/l	0.144	0.01
9	BOD mg/l	0.8	1.1
10	COD mg/l	11	50
11	Chloride mg/l	8.3	104.5
12	Fecal Coliform MPN/100 ml	NIL	23
13	Total Coliform MPN/100 ml	<1.8	49
14	Ammonia mg/l	0.018	0.02
15	Total Dissolved Solids(mg/l)	155	42
16	Total Fixed Solids (mg/l)	-	20
17	Total Suspended Solid (mg/l)	6	8
18	Hardness(mg/l)	88	128
19	Fluoride(mg/l)	0.216	1.2
20	Boron(mg/l)	3.41	0.14
21	Sulphate (mg/l)	8.2	6.2
22	Total Alkalinity(mg/l)	110	70
23	Phenolphthalein Alkalinity(mg/l)	0	0
24	Sodium(mg/l)	11.9	14.8
25	Potassium(mg/l)	6.1	5.1
26	Calcium as CaCO ₃ (mg/l)	21.6	66
27	Magnesium(mg/l)	8.6	15

BORE WELL/TUBE WELL/ OPEN WELL IN CUNCOLIM INDUSTRIAL ESTATE 2015-2016

Sr. No	Parameters	Apr-15	Oct-15
1	pH	6.22	6.77
2	Temperature °C	28.5	30.3
3	Conductivity µs/cm	223.72	295.58
4	Dissolved Oxygen mg/l	5.5	8.8
5	Turbidity (NTU)	1.43	0.08
6	Nitrite Nitrogen mg/l	0.001	0.002
7	Nitrogen(Nitrate) mg/l	1.35	0.03
8	Phosphate mg/l	0.081	0.02
9	BOD mg/l	0.9	8.3
10	COD mg/l	9	9
11	Chloride mg/l	538.13	13.2
12	Fecal Coliform MPN/100 ml	49	NIL
13	Total Coliform MPN/100 ml	130	<1.8
14	Ammonia mg/l	0.052	BDL
15	Total Dissolved Solids(mg/l)	141	204
16	Total Fixed Solids (mg/l)	72	168
17	Total Suspended Solid (mg/l)	5	9
18	Hardness(mg/l)	5600	126
19	Fluoride(mg/l)	0.37	0.51
20	Boron(mg/l)	0.33	1.3
21	Sulphate (mg/l)	23.37	6.36
22	Total Alkalinity(mg/l)	50	38
23	Phenolphthalein Alkalinity(mg/l)	0	0
24	Sodium(mg/l)	17.9	10.4
25	Potassium(mg/l)	1.2	2.9
26	Calcium as CaCO ₃ (mg/l)	2000	76
27	Magnesium(mg/l)	874.8	12.15

BOREWELL/TUBE WELL/OPEN WELL IN BETHORA INDUSTRIAL ESTATE 2015-2016

Sr. No	Parameters	Apr-15	Oct-15
1	pH	5.77	5.8
2	Temperature °C	29.4	25
3	Conductivity µs/cm	105.4	93.55
4	Dissolved Oxygen mg/l	4.6	6.4
5	Turbidity (NTU)	0.61	0.13
6	Nitrite Nitrogen mg/l	0.002	0.001
7	Nitrogen(Nitrate) mg/l	0.91	0.44
8	Phosphate mg/l	0.01	0.02
9	BOD mg/l	0.4	0.5
10	COD mg/l	6	10
11	Chloride mg/l	21.04	18.1
12	Fecal Coliform MPN/100 ml	NIL	NIL
13	Total Coliform MPN/100 ml	<1.8	<1.8
14	Ammonia mg/l	0.009	0.01
15	Total Dissolved Solids(mg/l)	82	130
16	Total Fixed Solids (mg/l)	48	8
17	Total Suspended Solid (mg/l)	13	12
18	Hardness(mg/l)	16	22
19	Fluoride(mg/l)	0.04	0.28
20	Boron(mg/l)	0.67	2.5
21	Sulphate (mg/l)	2.76	22.14
22	Total Alkalinity(mg/l)	20	14
23	Phenolphthalein Alkalinity(mg/l)	0	0
24	Sodium(mg/l)	10.6	4.8
25	Potassium(mg/l)	0.5	1.4
26	Calcium as CaCO ₃ (mg/l)	8	16
27	Magnesium(mg/l)	1.94	1.5

BOREWELL/ TUBEWELL/OPENWELL IN MADKAI INDUSTRIAL ESTATE 2015-2016

Sr. No	Parameters	Apr-15	Oct-15
1	pH	6.15	6.15
2	Temperature °C	25.8	25.8
3	Conductivity µs/cm	70.58	70.58
4	Dissolved Oxygen mg/l	3.7	3.7
5	Turbidity (NTU)	0.01	0.01
6	Nitrite Nitrogen mg/l	0.001	0.001
7	Nitrogen(Nitrate) mg/l	1.54	1.54
8	Phosphate mg/l	0.01	0.01
9	BOD mg/l	0.5	0.5
10	COD mg/l	9	9
11	Chloride mg/l	16.63	16.63
12	Fecal Coliform MPN/100 ml	NIL	NIL
13	Total Coliform MPN/100 ml	<1.8	<1.8
14	Ammonia mg/l	0.02	0.02
15	Total Dissolved Solids(mg/l)	107	107
16	Total Fixed Solids (mg/l)	7	7
17	Total Suspended Solid (mg/l)	3	3
18	Hardness(mg/l)	24	24
19	Fluoride(mg/l)	0.13	0.13
20	Boron(mg/l)	3.37	3.37
21	Sulphate (mg/l)	19.95	19.95
22	Total Alkalinity(mg/l)	18	18
23	Phenolphthalein Alkalinity(mg/l)	0	0
24	Sodium(mg/l)	6	6
25	Potassium(mg/l)	1.5	1.5
26	Calcium as CaCO ₃ (mg/l)	10	10
27	Magnesium(mg/l)	3.4	3.4

