

**RIVER CHAPORA NEAR ALORNA FORT, PERNEM 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	28	31	30	28	26	26	28	28	28	28	28	28	
2	Dissolved Oxygen(mg/l)	7.4	6.1	6.5	7.2	7.5	6.9	7.6	7.2	8.0	7.0	6.1	6.5	4 mg/l or more
3	pH	6.93	6.99	7.33	6.53	6.85	6.50	6.86	6.68	6.70	7.06	6.71	6.54	6-9
4	Conductivity(µs/cm)	7078.0	185.59	1651.0	66.2	16.34	50.03	24.20	76.86	77.02	90.20	9520.0	12430.00	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.35	BDL	0.51	0.18	0.19	0.13	0.14	0.16	0.1	0.1	BDL	0.24	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.086	BDL	0.03	0.007	0.01	0.02	0.005	BDL	BDL	0.015	0.03	0.03	
8	Total Coliform(MPN/100ml)	1700	2300	3300	2700	3200	2600	2700	2200	2100	1700	790	490	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	1300	1300	1300	2200	2100	1700	2200	1700	1400	330	230	230	
10	Fecal Streptococci(MPN/100ml)	-	-	-	71	131	111	111	171	141	141	131	221	
11	Turbidity(NTU)	1.66	2.58	4.65	5.1	5.66	30.0	27.8	4.15	4.20	3.72	2.69	3.39	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	48.0	48.0	46.0	40.0	34.0	24.0	30.0	32.0	32.0	34.0	56.0	50.0	
14	Chlorides(mg/l)	3131.0	2094.2	978.0	6.0	4.0	5.0	5.0	6.0	121.0	635.7	2925.0	2899.1	
15	COD(mg/l)	6.0	-	4.0	4.0	8.0	4.0	4.0	6.0	4.0	14.0	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	4.03	-	-	-	-	-	7.84	-	-	-	56.0	11.2	
17	Ammonia (mg/l)	BDL	0.21	0.19	BDL	BDL	BDL	BDL	BDL	BDL	0.07	BDL	BDL	
18	Total Hardness(mg/l)	590.0	164.0	178.0	36.0	30.0	18.0	30.0	34.0	58.0	250.0	850.0	1200.0	
19	Calcium(mg/l)	45.0	32.0	14.0	6.0	3.0	5.0	4.0	6.0	7.0	20.8	68.0	320.6	
20	Magnesium(mg/l)	116.0	32.1	35.0	5.0	5.0	BDL	5.0	4.0	10.0	48.1	165.0	97.2	
21	Sulphate(mg/l)	95.0	44.3	8.6	2.0	BDL	8.0	BDL	2.0	15.0	190.2	132.0	124.6	
22	Sodium(mg/l)	8.6	-	-	-	-	-	5.8	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	4256.0	111.0	984.0	38.0	10.0	31.0	36.0	48.0	46.0	61.0	54.0	5276.0	
24	Total Fixed Solids(mg/l)	1258.0	63.0	246.0	21.0	BDL	18.0	11.0	22.0	19.0	30.0	19.0	2775.0	
25	Total Suspended Solids(mg/l)	28.0	26.0	35.0	46.0	37.0	26.0	17.0	18.0	28.0	21.0	31.0	20.0	
26	Phosphate(mg/l)	0.06	BDL	0.04	BDL	0.18	0.06	0.04	0.05	0.02	BDL	0.05	0.02	
27	Boron(mg/l)	0.74	-	-	-	-	-	0.82	-	-	-	-	-	
28	Potassium(mg/l)	4.4	-	-	-	-	-	0.89	-	-	-	-	-	
29	Flouride(mg/l)	BDL	1.42	0.51	0.10	BDL	0.25	BDL	BDL	BDL	BDL	56	0.41	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.013	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.692	-	-	-	-	-	
33	Lead(mg/l)	0.057	-	-	-	-	-	0.052	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	0.004	-	-	-	-	-	
35	Nickel(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.082	-	-	-	-	-	0.040	-	-	-	-	-	
37	IronTotal(mg/l)	0.475	-	-	-	-	-	0.243	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**RIVER KALNA AT CHANDEL, PERNEM 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	28	31	29	28	26	28	28	29	28	28	28	28	
2	Dissolved Oxygen(mg/l)	7.7	6.4	6.6	8	7.4	7.4	7.6	6.9	7.8	6.9	7.2	6.7	4 mg/l or more
3	pH	7.07	6.74	7.25	6.71	6.85	6.8	6.6	6.58	6.50	7.21	6.94	6.79	6-9
4	Conductivity(µs/cm)	101.35	96.85	82.20	68.14	15.31	55.50	57.99	69.01	68.02	87.85	108.41	92.28	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.28	BDL	0.61	0.21	0.15	0.1	BDL	BDL	BDL	0.1	BDL	0.18	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.085	0.005	BDL	BDL	BDL	0.007	0.007	BDL	BDL	BDL	0.03	BDL	
8	Total Coliform(MPN/100ml)	1300	1300	2300	3300	2300	2200	3300	2300	2200	3500	1700	790	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	780	780	1300	1700	1300	1100	2300	1300	1300	230	790	490	
10	Fecal Streptococci (MPN/100ml)	-	-	-	351	541	>1601	351	95	50	921	95	211	
11	Turbidity(NTU)	1.08	2.96	4.11	1.82	6.25	46.3	54.4	4.52	4.46	3.57	2.55	2.89	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	44.0	40.0	42.0	40.0	22.0	28.0	30.0	34.0	26.0	34.0	46.0	42.0	
14	Chlorides(mg/l)	10.0	9.36	7.0	6.0	6.0	6.0	6.0	5.0	8.0	7.88	9.0	6.0	
15	COD(mg/l)	4.0	8.0	4.0	4.0	6.0	4.0	4.0	4.0	4.0	8.0	4.0	8.0	
16	Total Kjeldahl Nitrogen(mg/l)	3.3	-	-	-	-	-	6.72	-	-	-	88.0	7.0	
17	Ammonia (mg/l)	BDL	0.05	0.05	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
18	Total Hardness(mg/l)	40.0	22.0	36.0	36.0	20.0	26.0	28.0	28.0	24.0	18.0	54.0	28.0	
19	Calcium(mg/l)	5.0	12.0	7.0	4.0	2.0	3.0	3.0	3.0	3.0	4.0	8.0	7.2	
20	Magnesium(mg/l)	7.0	2.4	4.0	6.0	3.0	4.0	5.0	5.0	4.0	BDL	8.0	2.43	
21	Sulphate(mg/l)	2.0	7.08	3.54	5.0	2.0	5.00	2.00	2.00	BDL	3.75	2.0	2.74	
22	Sodium(mg/l)	8.4	-	-	-	-	-	9.9	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	60.0	60.0	49.0	40.0	BDL	34.0	35.0	40.0	40.0	56.0	52.0	52.0	
24	Total Fixed Solids(mg/l)	49.0	38.0	18.0	19.0	BDL	16.0	13.0	18.0	17.0	27.0	21.0	33.0	
25	Total Suspended Solids(mg/l)	22.0	14.0	32.0	26.0	49.0	29.0	26.0	16.0	23.0	12.0	26.0	10.0	
26	Phosphate(mg/l)	0.04	0.07	0.04	0.19	0.95	0.04	0.04	0.03	BDL	BDL	0.03	0.05	
27	Boron(mg/l)	0.85	-	-	-	-	-	0.62	-	-	-	-	-	
28	Potassium(mg/l)	3.6	-	-	-	-	-	0.92	-	-	-	-	-	
29	Flouride(mg/l)	0.72	1.08	0.08	0.15	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.081	-	-	-	-	-	
33	Lead(mg/l)	0.156	-	-	-	-	-	0.071	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	BDL	-	-	-	-	-	0.372	-	-	-	-	-	
36	Zinc(mg/l)	0.084	-	-	-	-	-	0.029	-	-	-	-	-	
37	IronTotal(mg/l)	0.547	-	-	-	-	-	0.118	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**RIVER MAPUSA ON CULVERT ON HIGHWAY MAPUSA-PANAJI 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	32	30	29	27	29	28	31	29	29	29	29	
2	Dissolved Oxygen(mg/l)	5.6	6.8	6.1	4.3	5.7	4.2	2.7	3.0	2.0	3.5	1.6	4.5	4 mg/l or more
3	pH	7.34	7.10	7.11	6.79	6.70	6.74	6.43	6.23	6.20	7.24	6.64	6.49	6.5 - 8.5
4	Conductivity(µs/cm)	404.11	96.85	135.80	163.73	30.01	115.26	167.34	192.91	190.01	124.89	369.30	690.56	
5	BOD(mg/l)	BDL	BDL	2.4	BDL	2.2	2.0	4.0	5.0	3.6	BDL	3.6	2.9	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.32	BDL	0.65	0.73	0.45	0.34	0.31	0.14	0.22	0.1	BDL	0.15	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.046	BDL	BDL	BDL	BDL	0.01	0.008	0.012	BDL	BDL	0.02	BDL	
8	Total Coliform(MPN/100ml)	7900	7000	9400	7900	7000	7000	7000	7000	7000	3500	2300	330	
9	Fecal Coliform(MPN/100ml)	3300	3300	4900	4900	4600	3300	4900	4900	4600	230	1300	130	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	541	541	921	>1601	541	1601	351	171	541	
11	Turbidity(NTU)	2.85	2.91	9.52	11.91	9.94	25.2	14.84	6.55	6.50	8.90	18.11	10.76	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	48.0	40.0	50.0	44.0	38.0	26.0	32.0	58.0	48.0	32.0	58.0	66.0	
14	Chlorides(mg/l)	342.0	739.1	391.0	21.0	12.0	17.0	16.0	25.0	36.0	591.3	68.0	135.0	
15	COD(mg/l)	8.0	9.0	6.0	8.0	10.0	6.0	12.0	14.0	10.0	10.0	10.0	10.0	
16	Total Kjeldahl Nitrogen(mg/l)	3.58	-	-	-	-	-	6.72	-	-	-	88.0	26.6	
17	Ammonia (mg/l)	BDL	0.06	BDL	0.05	0.08	0.05	0.08	0.10	0.14	BDL	BDL	0.06	
18	Total Hardness(mg/l)	62.0	30.0	50.0	42.0	40.0	30.0	50.0	54.0	42.0	20.0	56.0	88.0	
19	Calcium(mg/l)	6.0	16.0	8.0	9.0	4.0	6.0	10.0	12.0	10.0	6.4	15.0	20.0	
20	Magnesium(mg/l)	11.0	3.4	7.0	5.0	7.0	3.0	6.0	6.0	4.0	BDL	4.0	9.2	
21	Sulphate(mg/l)	52.0	78.7	11.52	11.00	3.00	7.00	5.00	3.00	11.00	69.70	6.0	12.85	
22	Sodium(mg/l)	8.6	-	-	-	-	-	17.2	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	243.0	96.0	80.0	100.0	18.0	70.0	106.0	120.0	114.0	77.0	75.0	571.0	
24	Total Fixed Solids(mg/l)	109.0	54.0	36.0	59.0	BDL	31.0	42.0	58.0	48.0	51.0	36.0	375.0	
25	Total Suspended Solids(mg/l)	33.0	21.0	53.0	51.0	52.0	38.0	14.0	29.0	42.0	33.0	43.0	15.0	
26	Phosphate(mg/l)	0.07	0.05	0.05	0.27	0.14	0.09	0.05	0.08	0.12	0.02	0.06	0.05	
27	Boron(mg/l)	0.82	-	-	-	-	-	0.68	-	-	-	-	-	
28	Potassium(mg/l)	4.0	-	-	-	-	-	1.9	-	-	-	-	-	
29	Flouride(mg/l)	0.68	0.5	0.79	0.29	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.34	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.004	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.233	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.042	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.085	-	-	-	-	-	0.004	-	-	-	-	-	
37	IronTotal(mg/l)	BDL	-	-	-	-	-	0.092	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**RIVER ASSANORA AT ASSANORA 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	29	29	28	27	29	27	29	30	28	30	32	
2	Dissolved Oxygen(mg/l)	6.9	5.7	6.8	6.5	6.9	6.5	6.9	7.0	6.8	7.1	7.4	6.5	4 mg/l or more
3	pH	6.76	6.42	6.98	6.34	6.81	5.69	6.19	6.28	6.90	6.79	6.63	6.5	6-9
4	Conductivity(µs/cm)	67.01	72.94	65.59	62.34	56.57	59.8	50.48	56.62	70.43	68.09	80.04	69.68	
5	BOD(mg/l)	BDL	2.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.1	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	BDL	0.1	BDL	BDL	BDL	0.11	BDL	0.13	BDL	BDL	BDL	0.15	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	1300	1700	1100	490	460	340	1300	2400	1700	23	45	2200	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	780	780	490	330	330	270	490	790	1300	13	20	1300	
10	Fecal Streptococci (MPN/100ml)	-	-	-	39	14	10.3	23	121	>1601	12	<1.8	431	
11	Turbidity(NTU)	5.67	3.57	2.88	3.74	3.68	5.92	5.63	3.75	4.3	3.37	3.54	3.43	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	38.0	22.0	34.0	24.0	24.0	22.0	26.0	24.0	32.0	24.0	30.0	26.0	
14	Chlorides(mg/l)	4.40	7.80	7.0	7.0	10.8	7.0	6.0	6.50	24.30	6.90	8.0	4.00	
15	COD(mg/l)	6.0	6.0	6.0	6.0	6.0	4.0	4.0	4.0	6.0	4.0	6.0	6.0	
16	Total Kjeldahl Nitrogen(mg/l)	3.13	-	-	-	-	-	6.72	-	-	-	21.0	BDL	
17	Ammonia (mg/l)	0.16	0.23	0.09	0.05	0.05	BDL	0.05	0.06	BDL	0.06	BDL	BDL	
18	Total Hardness(mg/l)	28.0	16.0	22.0	18.0	14.0	22.0	18.0	20.0	10.0	18.0	60.0	20.0	
19	Calcium(mg/l)	6.4	BDL	4.01	4.01	3.21	4.81	3.21	3.21	BDL	2.40	7.0	5.60	
20	Magnesium(mg/l)	2.92	3.4	2.9	BDL	BDL	2.4	2.4	2.9	BDL	2.9	10.0	BDL	
21	Sulphate(mg/l)	3.08	3.4	3.39	4.0	3.79	BDL	5.83	BDL	BDL	3.3	3.0	BDL	
22	Sodium(mg/l)	21	-	-	-	-	-	6.6	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	39.0	46.0	41.0	37.0	34.0	36.0	30.0	31.0	42.0	45.0	41.0	35.0	
24	Total Fixed Solids(mg/l)	22.0	32.0	26.0	33.0	29.0	31.0	25.0	24.0	37.0	27.0	21.0	24.0	
25	Total Suspended Solids(mg/l)	16.0	8.0	8.0	5.0	10.0	12.0	15.0	20.0	17.0	10.0	33.0	14.0	
26	Phosphate(mg/l)	BDL	BDL	BDL	0.03	0.05	0.04	0.03	0.03	0.03	BDL	0.03	0.03	
27	Boron(mg/l)	0.58	-	-	-	-	-	0.42	-	-	-	-	-	
28	Potassium(mg/l)	0.56	-	-	-	-	-	0.81	-	-	-	-	-	
29	Flouride(mg/l)	1.42	BDL	BDL	BDL	0.97	0.50	0.78	BDL	BDL	BDL	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.015	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.248	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.148	-	-	-	-	-	0.010	-	-	-	-	-	
37	Iron Total(mg/l)	0.475	-	-	-	-	-	0.051	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**RIVER VALVANTI AT SANQUELIM 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	29	29	28	27	29	27	29	30	29	30	33	
2	Dissolved Oxygen(mg/l)	7.1	6.4	6.4	7.6	7.7	7.5	7.8	6.9	7.1	8.0	8.0	7.7	4 mg/l or more
3	pH	6.71	6.89	6.84	6.14	6.63	5.86	6.15	6.46	6.54	6.84	6.78	6.65	6-9
4	Conductivity(us/cm)	69.07	94.87	72.76	56.87	49.32	48.4	44.96	67.81	79.57	85.28	77.37	83.07	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.11	0.1	0.16	BDL	BDL	BDL	BDL	BDL	BDL	0.2	BDL	0.13	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.012	BDL	0.03	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	2300	2200	3300	3300	2700	2600	3200	2700	2200	330	5400	1100	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	1300	1300	1700	1300	1700	1300	1700	2200	1700	230	2400	490	
10	Fecal Streptococci (MPN/100ml)	-	-	-	1351	351	921	210	131	22	121	24	64	
11	Turbidity(NTU)	2.10	2.69	2.43	2.55	5.17	14.19	6.66	2.92	2.43	1.43	2.70	3.00	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	30.0	26.0	30.0	24.0	20.0	20.0	28.0	26.0	12.0	22.0	26.0	26.0	
14	Chlorides(mg/l)	4.89	12.7	7.5	6.0	9.9	5.5	4.5	4.0	4.5	8.8	7.0	6.0	
15	COD(mg/l)	6.0	4.0	6.0	6.0	6.0	4.0	4.0	4.0	6.0	6.0	6.0	4.0	
16	Total Kjeldahl Nitrogen(mg/l)	3.81	-	-	-	-	-	7.84	-	-	-	38.0	26.6	
17	Ammonia (mg/l)	0.18	0.16	0.15	0.05	0.06	0.05	0.08	0.08	BDL	0.16	BDL	BDL	
18	Total Hardness(mg/l)	28.0	26.0	16.0	12.0	18.0	10.0	18.0	20.0	18.0	24.0	62.0	20.0	
19	Calcium(mg/l)	6.4	4.8	4.81	BDL	2.40	2.4	3.21	3.21	2.40	4.80	7.0	6.40	
20	Magnesium(mg/l)	2.92	3.4	BDL	BDL	2.9	BDL	2.4	2.9	2.90	2.90	11.0	BDL	
21	Sulphate(mg/l)	2.13	3.1	4.39	3.2	BDL	BDL	2.51	BDL	2.49	5.7	2.0	BDL	
22	Sodium(mg/l)	25	-	-	-	-	-	5.9	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	42.0	60.0	43.0	34.0	32.0	29.0	27.0	38.0	47.0	57.0	53.0	51.0	
24	Total Fixed Solids(mg/l)	20.0	36.0	39.0	31.0	27.0	26.0	22.0	31.0	42.0	35.0	20.0	34.0	
25	Total Suspended Solids(mg/l)	12.0	11.0	6.0	5.0	6.0	7.0	11.0	12.0	14.0	28.0	16.0	9.0	
26	Phosphate(mg/l)	BDL	BDL	0.03	BDL	0.04	0.05	0.03	0.03	0.04	BDL	0.04	0.02	
27	Boron(mg/l)	0.76	-	-	-	-	-	0.62	-	-	-	-	-	
28	Potassium(mg/l)	0.5	-	-	-	-	-	0.63	-	-	-	-	-	
29	Flouride(mg/l)	BDL	BDL	BDL	BDL	0.69	0.2	0.35	BDL	BDL	BDL	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.22	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.063	-	-	-	-	-	0.018	-	-	-	-	-	
37	IronTotal(mg/l)	0.532	-	-	-	-	-	0.117	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**RIVER MADEI AT DABOSE, VALPOI 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30°C	30	29	28	28	29	28	28	30	29	30	33	
2	Dissolved Oxygen(mg/l)	7.3	6.4	5.1	7.4	7.1	6.5	8.0	7.9	7.5	7.4	7.3	7.2	4 mg/l or more
3	pH	7.34	7.8	6.81	6.56	7.07	5.46	6.62	6.63	6.98	6.74	6.58	6.67	6-9
4	Conductivity(µs/cm)	130.51	148.52	145.20	69.65	64.15	70.81	61.70	73.81	97.17	181.81	109.16	144.69	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	2.0	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	BDL	0.1	BDL	BDL	BDL	0.1	0.10	BDL	BDL	BDL	0.26	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	0.031	BDL	BDL	BDL	BDL	0.005	0.005	BDL	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	1300	1300	2200	2700	1400	1300	2100	2200	1300	2200	490	330	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	780	780	1300	1700	1100	1100	1400	1400	790	1700	230	130	
10	Fecal Streptococci (MPN/100ml)	-	-	-	171	>1601	49	540	351	80	431	64	921	
11	Turbidity(NTU)	5.18	2.9	4.69	2.93	5.56	45.5	5.54	2.36	1.58	1.06	6.58	3.18	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	40.0	62.0	68.0	28.0	26.0	24.0	40.0	38.0	44.0	40.0	46.0	60.0	
14	Chlorides(mg/l)	6.85	5.4	7.5	6.5	12.6	5.5	6.5	6.0	12.6	6.9	3.0	7.0	
15	COD(mg/l)	4.0	6.0	4.0	4.0	4.0	6.0	6.0	8.0	8.0	4.0	8.0	6.0	
16	Total Kjeldahl Nitrogen(mg/l)	4.14	-	-	-	-	-	8.96	-	-	-	70.1	BDL	
17	Ammonia (mg/l)	0.13	0.22	0.11	0.09	0.10	0.06	0.09	0.08	BDL	BDL	BDL	BDL	
18	Total Hardness(mg/l)	22.0	54.0	52.0	20.0	16.0	16.0	26.0	24.0	24.0	22.0	10.0	38.0	
19	Calcium(mg/l)	8.0	12.0	9.62	4.81	4.01	4.01	4.81	4.81	4.01	2.40	2.4	10.4	
20	Magnesium(mg/l)	BDL	5.8	6.8	BDL	BDL	BDL	3.4	2.9	3.4	3.9	BDL	2.9	
21	Sulphate(mg/l)	5.58	2.4	3.16	3.0	BDL	BDL	3.74	BDL	BDL	3.5	BDL	BDL	
22	Sodium(mg/l)	32	-	-	-	-	-	7.4	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	75.0	96.0	85.0	42.0	39.0	42.0	37.0	41.0	58.0	118.0	64.0	78.0	
24	Total Fixed Solids(mg/l)	58.0	65.0	80.0	38.0	35.0	38.0	26.0	35.0	52.0	71.0	55.0	48.0	
25	Total Suspended Solids(mg/l)	21.0	13.0	8.0	6.0	4.0	6.0	7.0	8.0	10.0	23.0	10.0	14.0	
26	Phosphate(mg/l)	0.084	0.07	0.02	0.02	0.05	0.05	0.02	0.02	0.02	BDL	0.07	0.15	
27	Boron(mg/l)	0.58	-	-	-	-	-	0.70	-	-	-	-	-	
28	Potassium(mg/l)	0.7	-	-	-	-	-	0.73	-	-	-	-	-	
29	Flouride(mg/l)	BDL	BDL	BDL	BDL	0.97	0.6	1.43	0.41	BDL	BDL	1.32	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.011	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	1.798	-	-	-	-	-	
33	Lead(mg/l)	0.084	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.296	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.098	-	-	-	-	-	0.079	-	-	-	-	-	
37	Iron Total(mg/l)	0.619	-	-	-	-	-	0.172	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**RIVER KHANDEPAR, OPA, PONDA 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	29	30	28	27	29	27	30	31	30	29	28	
2	Dissolved Oxygen(mg/l)	6.7	6.7	6.5	7.3	7.6	7.0	7.1	6.8	7.0	6.7	7.0	6.4	4 mg/l or more
3	pH	7.76	7.43	6.88	6.31	6.63	6.5	6.78	6.7	6.66	6.66	7.39	7.50	6-9
4	Conductivity(µs/cm)	163.0	123.90	103.65	12.73	43.37	46.83	55.85	66.08	68.02	68.02	96.06	102.35	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.5	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	BDL	BDL	0.123	0.37	BDL	0.10	BDL	BDL	0.11	BDL	BDL	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.01	0.02	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	270	220	330	790	700	630	790	1300	1300	790	1700	920	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	170	170	110	330	230	210	490	790	790	490	330	680	
10	Fecal Streptococci (MPN/100ml)	-	-	-	541	32	241	211	171	351	141	32	121	
11	Turbidity(NTU)	4.0	2.65	2.58	18.09	18.45	4.26	4.94	3.34	3.34	3.41	1.73	3.44	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	54.0	42.0	40.0	24.0	20.0	12.0	22.0	26.0	30.0	44.0	50.0	44.0	
14	Chlorides(mg/l)	13.3	11.0	5.83	3.91	5.87	7.34	3.91	4.00	9.00	9.00	8.81	8.00	
15	COD(mg/l)	8.0	6.0	4.0	4.0	4.0	6.0	4.0	BDL	10.0	4.0	6.0	6.0	
16	Total Kjeldahl Nitrogen(mg/l)	4.2	-	-	-	-	-	6.16	-	-	-	26.6	14.0	
17	Ammonia (mg/l)	0.06	BDL	0.215	BDL	BDL	BDL	BDL	0.15	0.08	BDL	BDL	BDL	
18	Total Hardness(mg/l)	42.0	28.0	30.0	20.0	28.0	24.0	20.0	12.0	22.0	36.0	8.0	28.0	
19	Calcium(mg/l)	26.0	8.02	20.0	10.0	10.0	12.0	7.21	3.00	5.6	9.0	BDL	BDL	
20	Magnesium(mg/l)	3.9	BDL	2.4	2.43	4.37	2.92	BDL	BDL	2.0	3.0	BDL	5.8	
21	Sulphate(mg/l)	12.36	BDL	4.67	2.33	4.86	6.36	BDL	BDL	8.12	3.0	6.57	3.87	
22	Sodium(mg/l)	7.4	-	-	-	-	-	8.7	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	106.0	73.0	62.4	10.6	30.0	33.0	33.0	42.0	41.0	41.0	54.0	61.0	
24	Total Fixed Solids(mg/l)	72.0	61.0	31.0	7.0	20.0	20.0	15.0	25.0	29.0	20.0	26.0	52.0	
25	Total Suspended Solids(mg/l)	13.0	7.0	15.0	6.0	24.0	9.0	5.0	4.0	7.0	16.0	26.0	8.0	
26	Phosphate(mg/l)	0.06	BDL	0.128	0.034	0.03	0.04	BDL	0.04	0.02	0.03	0.049	0.04	
27	Boron(mg/l)	0.71	-	-	-	-	-	0.46	-	-	-	-	-	
28	Potassium(mg/l)	1.2	-	-	-	-	-	1.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	BDL	0.114	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.24	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.015	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	1.100	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	0.091	-	-	-	-	-	
35	Nickel(mg/l)	0.288	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.057	-	-	-	-	-	0.046	-	-	-	-	-	
37	IronTotal(mg/l)	0.206	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**RIVER KHANDEPAR AT CODLI 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	31	29	30	28	27	29	27	29	31	30	29	28	
2	Dissolved Oxygen(mg/l)	7.0	6.5	7.0	7.0	7.5	7.5	7.1	8.0	7.5	7.5	7.5	7.0	4 mg/l or more
3	pH	6.89	7.78	7.25	6.1	6.78	6.42	6.89	6.7	6.72	6.85	7.35	7.43	6-9
4	Conductivity(us/cm)	106.0	129.58	103.4	12.51	62.64	44.15	45.95	59.63	59.63	59.78	118.3	93.45	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.5	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	BDL	BDL	BDL	0.226	BDL	BDL	BDL	BDL	0.2	BDL	BDL	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	220	230	220	260	220	210	700	790	1400	1300	3500	1100	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	130	130	130	170	110	110	460	490	1100	490	230	780	
10	Fecal Streptococci (MPN/100ml)	-	-	-	351	64	171	71	121	241	95	141	541	
11	Turbidity(NTU)	2.32	2.83	BDL	12.09	28.1	4.14	7.97	2.03	1.92	1.92	1.84	4.20	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	48.0	40.0	44.0	26.0	20.0	10.0	28.0	24.0	30.0	42.0	40.0	36.0	
14	Chlorides(mg/l)	5.91	10.5	8.26	3.42	10.76	3.42	4.40	3.00	4.5	7.0	13.32	7.00	
15	COD(mg/l)	7.0	4.0	6.0	4.0	4.0	4.0	6.0	BDL	12.00	4.00	8.0	4.00	
16	Total Kjeldahl Nitrogen(mg/l)	5.32	-	-	-	-	-	7.28	-	-	-	26.0	14.00	
17	Ammonia (mg/l)	0.08	0.07	0.109	BDL	BDL	BDL	BDL	BDL	0.05	BDL	0.05	BDL	
18	Total Hardness(mg/l)	36.0	34.0	70.0	20.0	18.0	18.0	18.0	22.0	62.0	38.0	28.0	24.0	
19	Calcium(mg/l)	18.0	8.82	30.00	10.00	6.0	8.00	6.41	6.00	16.00	9.00	4.0	BDL	
20	Magnesium(mg/l)	4.4	2.9	9.7	2.43	2.92	2.43	BDL	BDL	5.3	4.0	5.83	4.9	
21	Sulphate(mg/l)	1.65	BDL	3.89	4.04	4.77	5.86	BDL	BDL	6.09	3.0	5.91	2.54	
22	Sodium(mg/l)	23	-	-	-	-	-	10.3	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	68.0	76.0	61.8	10.5	39.0	29.0	26.0	39.0	39.0	36.0	69.0	56.0	
24	Total Fixed Solids(mg/l)	49.0	69.0	29.0	5.0	26.0	16.0	13.0	23.0	25.0	17.0	34.0	47.0	
25	Total Suspended Solids(mg/l)	9.0	11.0	13.0	6.0	25.0	7.0	5.0	8.0	5.0	12.0	10.0	11.0	
26	Phosphate(mg/l)	0.49	BDL	0.176	0.023	0.04	0.03	BDL	BDL	BDL	0.03	BDL	0.04	
27	Boron(mg/l)	1.15	-	-	-	-	-	0.60	-	-	-	-	-	
28	Potassium(mg/l)	0.6	-	-	-	-	-	0.78	-	-	-	-	-	
29	Flouride(mg/l)	BDL	BDL	0.071	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.32	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.023	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	0.037	-	-	-	-	-	
35	Nickel(mg/l)	0.304	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.071	-	-	-	-	-	0.015	-	-	-	-	-	
37	IronTotal(mg/l)	0.454	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	



**RIVER KUSHAWATI NEAR BUND AT KEVONA, RIVONA, SANGUEM 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	31	27	28	27	28	30	28	30	30	29	32	
2	Dissolved Oxygen(mg/l)	6.8	6.6	7.1	8	8.0	8.0	7.6	7.3	7.8	6.6	7.5	6.5	4 mg/l or more
3	pH	7.65	7.11	7.40	6.30	6.63	6.64	6.30	6.11	6.20	7.27	7.42	6.92	6-9
4	Conductivity(us/cm)	197.35	209.46	171.46	15.75	46.90	59.16	80.91	72.53	75.41	181.84	180.69	150.84	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.24	BDL	0.1	BDL	0.11	0.1	BDL	0.15	0.23	BDL	BDL	0.29	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	0.01	0.007	BDL	BDL	0.008	BDL	BDL	BDL	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	1400	1100	2200	2700	2400	2200	2200	3300	2300	3300	2400	2200	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	1100	780	1300	1700	1400	1100	1300	2300	1300	1300	1300	1700	
10	Fecal Streptococci (MPN/100ml)	-	-	-	351	541	42	541	351	171	221	33	221	
11	Turbidity(NTU)	8.7	1.81	1.29	18.89	10.70	5.07	4.79	1.88	1.79	2.46	2.34	2.34	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	90.0	88.0	86.0	26.0	24.0	26.0	24.0	36.0	48.0	52.0	58.0	62.0	
14	Chlorides(mg/l)	11.0	8.4	7.0	5.0	5.0	7.0	7.0	5.0	8.0	7.0	7.0	5.0	
15	COD(mg/l)	4.0	6.0	4.0	6.0	4.0	6.0	6.0	6.0	4.0	4.0	4.0	6.0	
16	Total Kjeldahl Nitrogen(mg/l)	4.03	-	-	-	-	-	7.28	-	-	-	54.0	42.0	
17	Ammonia (mg/l)	BDL	0.62	BDL	BDL	BDL	0.08	0.10	BDL	0.06	BDL	BDL	BDL	
18	Total Hardness(mg/l)	84.0	90.0	94.0	24.0	26.0	24.0	36.0	38.0	24.0	40.0	36.0	54.0	
19	Calcium(mg/l)	17.0	52.0	19.0	4.0	4.0	5.0	5.0	4.0	7.0	8.02	14.0	12.00	
20	Magnesium(mg/l)	10.0	9.2	11.0	3.0	4.0	3.0	6.0	7.0	BDL	4.9	BDL	5.8	
21	Sulphate(mg/l)	5.0	7.90	BDL	6.00	BDL	BDL	BDL	BDL	BDL	3.11	2.0	BDL	
22	Sodium(mg/l)	15.5	-	-	-	-	-	4.3	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	115.0	126.0	106.0	10.0	28.0	36.0	50.0	46.0	43.0	111.0	109.0	104.0	
24	Total Fixed Solids(mg/l)	41.0	57.0	65.0	5.0	12.0	16.0	22.0	16.0	19.0	106.0	46.0	82.0	
25	Total Suspended Solids(mg/l)	31.0	15.0	26.0	34.0	30.0	14.0	13.0	13.0	12.0	10.0	19.0	7.0	
26	Phosphate(mg/l)	0.08	BDL	BDL	0.82	0.23	BDL	0.02	0.04	0.03	0.02	0.04	0.02	
27	Boron(mg/l)	0.72	-	-	-	-	-	0.62	-	-	-	-	-	
28	Potassium(mg/l)	0.21	-	-	-	-	-	0.45	-	-	-	-	-	
29	Flouride(mg/l)	0.68	BDL	0.15	0.20	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
33	Lead(mg/l)	0.119	-	-	-	-	-	0.050	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.269	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.094	-	-	-	-	-	0.010	-	-	-	-	-	
37	IronTotal(mg/l)	0.298	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**RIVER TALPONA AT CANACONA 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	30	28	28	28	28	28	27	28	28	31	33	
2	Dissolved Oxygen(mg/l)	6.6	6.8	7.0	7.1	7.4	7.3	7.4	6.7	7.4	7.0	7.0	6.8	4 mg/l or more
3	pH	6.84	7.46	6.59	6.41	6.35	6.59	6.59	6.47	8.11	6.45	6.34	6.7	6-9
4	Conductivity(µs/cm)	93.90	92.34	75.75	58.67	56.97	47.12	46.83	50.91	122.56	67.25	68.19	66.38	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.23	BDL	BDL	0.12	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	BDL	BDL	BDL	0.007	BDL	BDL	BDL	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	790	780	2700	4600	2200	2100	2200	1400	490	7.8	110	330	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	330	450	1100	2300	1700	1200	1700	790	330	4.5	45	230	
10	Fecal Streptococci (MPN/100ml)	-	-	-	171	47	>1601	40	281	541	59	40	85	
11	Turbidity(NTU)	1.61	1.24	2.7	5.26	69.2	26.3	1.84	3.15	2.72	3.75	7.66	7.71	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	38.0	30.0	22.0	32.0	20.0	22.0	30.0	28.0	34.0	36.0	46.0	26.0	
14	Chlorides(mg/l)	13.5	10.5	9.5	5.0	17.61	5.87	6.0	5.5	8.99	6.36	5.0	7.44	
15	COD(mg/l)	8.0	4.0	4.0	4.0	8.0	6.0	6.0	6.0	8.0	6.0	8.0	8.0	
16	Total Kjeldahl Nitrogen(mg/l)	3.58	-	-	-	-	-	8.4	-	-	-	14.0	28.0	
17	Ammonia (mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.09	0.08	BDL	0.05	BDL	
18	Total Hardness(mg/l)	30.0	22.0	16.0	14.0	18.0	18.0	16.0	12.0	10.0	22.0	10.0	16.0	
19	Calcium(mg/l)	2.4	4.0	BDL	2.4	10.0	2.0	2.4	3.2	3.2	10.0	BDL	4.8	
20	Magnesium(mg/l)	5.8	2.9	3.4	BDL	1.94	3.0	2.43	BDL	BDL	2.92	BDL	BDL	
21	Sulphate(mg/l)	BDL	BDL	4.8	BDL	3.39	4.0	BDL	BDL	3.23	3.49	2.0	8.15	
22	Sodium(mg/l)	7.5	-	-	-	-	-	7.8	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	57.0	56.0	47.0	35.0	34.18	28.0	28.0	30.0	74.0	41.0	41.0	41.0	
24	Total Fixed Solids(mg/l)	33.0	30.0	29.0	19.0	18.0	14.0	17.0	20.0	37.0	19.0	29.0	19.0	
25	Total Suspended Solids(mg/l)	6.0	3.0	3.0	7.0	16.0	8.0	8.0	8.0	21.0	9.0	13.0	24.0	
26	Phosphate(mg/l)	0.32	0.14	0.04	0.02	0.035	BDL	BDL	BDL	BDL	BDL	0.02	0.06	
27	Boron(mg/l)	0.64	-	-	-	-	-	0.64	-	-	-	-	-	
28	Potassium(mg/l)	0.22	-	-	-	-	-	0.61	-	-	-	-	-	
29	Flouride(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	0.36	BDL	BDL	BDL	1.4	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.009	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.018	-	-	-	-	-	
33	Lead(mg/l)	0.068	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.173	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.07	-	-	-	-	-	0.005	-	-	-	-	-	
37	IronTotal(mg/l)	0.697	-	-	-	-	-	0.165	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**RIVER SAL AT PAZORCONI, CUNCOLIM 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	30	30	28	27	27	27	29	29	29	29	30	
2	Dissolved Oxygen(mg/l)	6.0	6.2	5.6	5.9	5.8	6.1	6.2	6.2	7.0	6.1	4.4	5.8	4 mg/l or more
3	pH	7.33	7.4	6.68	6.58	6.53	6.35	6.56	6.59	7.42	6.55	7.05	6.75	6.5 - 8.5
4	Conductivity(µs/cm)	84.77	197.18	117.67	80.2	80.43	40.47	71.48	91.19	82.60	120.66	102.78	69.31	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.5	BDL	BDL	BDL	3.3	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.27	0.1	BDL	BDL	BDL	BDL	0.140	0.64	BDL	BDL	0.27	0.16	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	0.18	BDL	0.021	BDL	0.006	0.006	0.005	BDL	0.006	BDL	0.017	
8	Total Coliform(MPN/100ml)	2300	2200	1700	2100	1700	2300	2100	3300	1200	490	1300	4900	
9	Fecal Coliform(MPN/100ml)	1300	1100	780	1300	1100	1300	1700	1300	940	330	780	2300	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	71	21	541	281	131	111	-	71	351	
11	Turbidity(NTU)	11.70	7.9	4.4	5.16	9.05	22.5	10.25	6.20	6.95	6.56	5.58	4.48	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	24.0	100.0	34.0	28.0	20.0	24.0	40.0	26.0	30.0	44.0	24.0	28.0	
14	Chlorides(mg/l)	11.50	37.00	52.72	10.80	8.5	5.00	733.82	15.0	19.57	17.00	13.40	5.00	
15	COD(mg/l)	4.0	4.0	8.0	10.0	12.0	8.0	12.0	8.0	8.0	10.0	8.0	8.0	
16	Total Kjeldahl Nitrogen(mg/l)	4.2	-	-	-	-	-	5.6	-	-	-	42.0	2.2	
17	Ammonia (mg/l)	BDL	0.069	0.06	0.10	BDL	BDL	BDL	0.08	BDL	BDL	0.89	BDL	
18	Total Hardness(mg/l)	20	30.0	38.0	40.0	20.0	28.0	50.0	12.0	22.0	24.0	26.0	16.0	
19	Calcium(mg/l)	4.81	3.2	10	6.4	2.40	6.0	16.0	4.0	4.0	5.0	4.8	4.8	
20	Magnesium(mg/l)	BDL	5.3	6.8	5.8	3.4	3.0	8.26	BDL	4.18	3.0	3.4	BDL	
21	Sulphate(mg/l)	2.68	7.0	19.0	16.4	9.70	10.0	2306.33	2.62	3.26	3.00	6.28	2.80	
22	Sodium(mg/l)	45	-	-	-	-	-	9.7	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	65.0	138.0	74.0	51.0	49.0	25.0	44.0	51.0	51.0	72.0	66.0	41.0	
24	Total Fixed Solids(mg/l)	45.0	50.0	31.0	23.0	44.0	10.0	15.0	32.0	20.0	35.0	37.0	21.0	
25	Total Suspended Solids(mg/l)	8.0	12.0	24.0	12.0	11.0	25.0	13.0	20.0	23.0	20.0	13.0	11.0	
26	Phosphate(mg/l)	0.055	0.04	0.40	0.08	0.03	0.22	0.111	0.02	0.042	0.048	0.43	BDL	
27	Boron(mg/l)	0.52	-	-	-	-	-	0.52	-	-	-	-	-	
28	Potassium(mg/l)	1.6	-	-	-	-	-	1.6	-	-	-	-	-	
29	Flouride(mg/l)	0.68	0.58	0.31	1.1	0.63	BDL	0.30	0.23	BDL	BDL	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.015	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	1.291	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.276	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.056	-	-	-	-	-	0.065	-	-	-	-	-	
37	IronTotal(mg/l)	0.333	-	-	-	-	-	0.172	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

RIVER SAL AT MOBOR 2020-2021														
Sr. No		Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	29	29	29	28	30	28	29	30	30	30	31	
2	Dissolved Oxygen(mg/l)	5.6	5.0	6.0	6.5	6.4	5.6	6.0	4.3	5.5	4.8	7.1	5.7	4 mg/l or more
3	pH	7.91	7.72	7.82	7.8	6.89	7.34	7.21	7.70	7.19	7.56	7.65	7.60	6.5 - 8.5
4	Conductivity(µs/cm)	62220.0	65600.0	54670.0	38900.0	35900.0	23320.0	24400.0	55130.0	54930.0	50710.0	45880.0	24000.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.2	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.462	0.123	0.20	0.15	1.49	0.85	0.56	0.42	0.455	0.17	BDL	0.25	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	0.022	0.008	0.02	0.011	BDL	0.005	0.005	BDL	0.21	0.015	0.018	
8	Total Coliform(MPN/100ml)	2300	2300	2700	3400	2200	2200	2700	3400	3300	2600	1300	1700	
9	Fecal Coliform(MPN/100ml)	1300	1300	1700	2700	1300	1100	1700	2200	2200	2200	780	1100	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	351	241	>1601	921	281	80	351	111	431	
11	Turbidity(NTU)	2.33	16.73	13.78	38.1	25.81	5.33	3.07	2.72	2.91	4.79	4.53	2.59	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	24.0	8.0	4.0	4.0	BDL	BDL	4.0	6.0	48.0	2.0	2.0	8.0	
13	Total Alkalinity(mg/l)	230.0	110.0	144.0	144.0	30.0	82.0	104.0	98.0	180.0	98.0	120.0	106.0	
14	Chlorides(mg/l)	19690.7	19426.60	19743.0	13245.0	10797.0	15295.0	14496.0	15120.0	17856.17	17345.00	16377.9	16535.0	
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	8.74	-	-	-	-	-	14.56	-	-	-	28.0	14.01	
17	Ammonia (mg/l)	0.05	0.079	0.14	0.11	0.16	0.08	0.11	0.12	0.07	BDL	0.17	BDL	
18	Total Hardness(mg/l)	7000.0	7500.0	5600.0	3880.0	3020.0	3400.0	3860.0	4000.0	17000.0	4200.0	3400.0	6500.0	
19	Calcium(mg/l)	380.8	1500.0	962.0	240.5	200.40	320.6	40.1	32.1	4000.0	400.8	561.1	561.0	
20	Magnesium(mg/l)	1470.1	1458.0	777.6	797.0	612.4	631.8	913.7	953.0	3159.0	777.6	486.0	972.0	
21	Sulphate(mg/l)	3975.4	6239.31	1438.80	741.00	29.06	99.60	975.30	1390.00	1248.45	2247.2	2431.8	1616.0	
22	Sodium(mg/l)	7620	-	-	-	-	-	8300	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	40443.0	38687.0	32264.0	22949.0	21200.0	13750.0	14418.0	30300.0	32972.0	31440.0	28903.0	14879.0	
24	Total Fixed Solids(mg/l)	28310.0	27307.0	31251.0	21717.0	19219.0	12550.0	13399.0	29298.0	17954.0	21379.0	17521.0	7821.0	
25	Total Suspended Solids(mg/l)	43.0	80.0	215.0	178.0	146.0	140.0	150.0	157.0	61.0	39.0	36.0	18.0	
26	Phosphate(mg/l)	0.137	0.06	0.27	0.30	0.20	0.05	0.05	0.08	0.114	0.10	0.07	0.05	
27	Boron(mg/l)	0.8	-	-	-	-	-	0.84	-	-	-	-	-	
28	Potassium(mg/l)	240	-	-	-	-	-	212	-	-	-	-	-	
29	Flouride(mg/l)	1.2	0.233	0.51	0.30	1.0	1.16	1.24	0.92	1.0	1.4	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.904	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.132	-	-	-	-	-	0.257	-	-	-	-	-	
36	Zinc(mg/l)	0.18	-	-	-	-	-	0.127	-	-	-	-	-	
37	IronTotal(mg/l)	0.115	-	-	-	-	-	0.067	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**HARWALE WATERFALL 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C				27	28	28	27	29	29	30	29	33	
2	Dissolved Oxygen(mg/l)				7.5	7.6	7.6	7.7	8.0	7.4	7.8	7.3	7.5	4 mg/l or more
3	pH				6.78	6.79	6.25	6.42	6.65	7.19	6.89	6.74	6.88	6-9
4	Conductivity(µs/cm)				77.73	55.11	66.21	56.75	80.3	132.89	143.28	124.04	144.04	
5	BOD(mg/l)				2.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)				0.44	0.31	0.30	0.16	0.17	BDL	0.1	BDL	0.24	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l				0.007	0.005	BDL	0.007	0.006	BDL	BDL	0.051	BDL	
8	Total Coliform(MPN/100ml)				4900	4600	4600	4900	4600	3500	5400	5400	140	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)				2200	2300	2100	3300	3300	1700	2400	2400	49	
10	Fecal Streptococci (MPN/100ml)				351	241	121	80	171	>1601	171	71	40	
11	Turbidity(NTU)				3.45	16.20	10.12	5.70	4.14	3.86	1.15	6.74	3.09	
12	Phenolphthalein Alkalinity(mg/l)				BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)				20.0	20.0	22.0	30.0	28.0	18.0	36.0	46.0	52.0	
14	Chlorides(mg/l)				9.0	11.7	7.0	6.5	6.5	20.7	9.8	6.0	10.5	
15	COD(mg/l)				10.0	6.0	8.0	8.0	6.0	10.0	6.0	6.0	8.0	
16	Total Kjeldahl Nitrogen(mg/l)				-	-	-	1.68	-	-	-	70.1	BDL	
17	Ammonia (mg/l)				0.14	0.13	BDL	0.06	0.07	0.18	BDL	BDL	BDL	
18	Total Hardness(mg/l)				12.0	12.0	14.0	16.0	18.0	22.0	28.0	10.0	42.0	
19	Calcium(mg/l)				3.21	3.21	3.21	2.40	2.40	4.01	6.4	BDL	12.0	
20	Magnesium(mg/l)				BDL	BDL	BDL	2.4	2.9	2.9	2.9	BDL	BDL	
21	Sulphate(mg/l)				6.2	5.50	2.62	3.39	2.97	4.90	4.4	BDL	2.66	
22	Sodium(mg/l)				-	-	-	5.5	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)				46.0	32.0	40.0	32.0	45.0	79.0	88.0	79.0	84.0	
24	Total Fixed Solids(mg/l)				40.0	29.0	37.0	25.0	39.0	74.0	52.0	59.0	36.0	
25	Total Suspended Solids(mg/l)				53.0	41.0	38.0	40.0	36.0	33.0	30.0	10.0	10.0	
26	Phosphate(mg/l)	DRY	DRY	DRY	0.11	0.12	0.02	0.09	BDL	0.11	BDL	0.04	0.18	
27	Boron(mg/l)				-	-	-	0.52	-	-	-	-	-	
28	Potassium(mg/l)				-	-	-	0.64	-	-	-	-	-	
29	Flouride(mg/l)				BDL	0.97	BDL	BDL	0.8	BDL	BDL	1.37	BDL	
30	Arsenic(mg/l)				-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)				-	-	-	0.011	-	-	-	-	-	
32	Copper(mg/l)				-	-	-	1.963	-	-	-	-	-	
33	Lead(mg/l)				-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)				-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)				-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)				-	-	-	0.109	-	-	-	-	-	
37	IronTotal(mg/l)				-	-	-	0.187	-	-	-	-	-	
38	Carbaryl (mg/L)				-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)				-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)				-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)				-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)				-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)				-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)				-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)				-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)				-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)				-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)				-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)				-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)				-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)				-	-	-	BDL	-	-	-	-	-	

RIVER BICHOLIM, BARAZAN NAGAR, BICHOLIM 2020-2021														
Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	28	31	30	28	28	30	29	29	28	29	31	32	
2	Dissolved Oxygen(mg/l)	7.1	5.8	5.9	7.0	7.2	6.2	7.0	6.9	9.3	9.3	7.3	7.3	4 mg/l or more
3	pH	6.89	6.73	6.31	6.07	6.07	5.90	5.93	6.88	6.96	7.04	6.70	6.75	6-9
4	Conductivity(µs/cm)	156.55	938.74	190.9	78.82	78.82	85.36	72.63	95.18	134.0	41.54	138.24	204.00	
5	BOD(mg/l)	BDL	2.0	BDL	BDL	BDL	BDL	BDL	2.0	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.3	0.4	0.68	0.22	0.31	0.46	0.3	0.35	0.42	BDL	0.30	0.22	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	0.007	0.008	0.006	BDL	BDL	BDL	0.005	0.028	0.005	0.006	
8	Total Coliform(MPN/100ml)	4900	4600	7000	7900	5800	4600	7000	7900	9400	9400	14000	7900	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	3300	3300	3300	4900	4300	3100	3300	4900	4900	4900	4900	4900	
10	Fecal Streptococci (MPN/100ml)	-	-	-	211	241	1601	151	431	431	281	64	95	
11	Turbidity(NTU)	1.78	BDL	4.01	10.24	10.24	6.17	5.66	5.47	4.30	4.38	4.27	4.09	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	50.0	62.0	46.0	22.0	16.0	32.0	36.0	40.0	48.0	52.0	58.0	66.0	
14	Chlorides(mg/l)	12.5	750.0	26.5	18.0	6.0	7.0	8.5	9.5	10.99	14.7	12.4	18.36	
15	COD(mg/l)	14.0	10.0	8.0	8.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	8.0	
16	Total Kjeldahl Nitrogen(mg/l)	4.03	-	-	-	-	-	7.84	-	-	-	42.0	BDL	
17	Ammonia (mg/l)	BDL	0.14	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.08	BDL	0.07	
18	Total Hardness(mg/l)	52.0	116.0	44.0	14.0	14.0	20.0	26.0	20.0	28.0	42.0	18.0	62.0	
19	Calcium(mg/l)	9.6	15.2	9.6	4.0	BDL	6.0	4.01	6.4	8.8	11.2	5.6	15.0	
20	Magnesium(mg/l)	6.8	18.9	4.9	BDL	2.0	BDL	3.89	BDL	BDL	3.4	BDL	5.8	
21	Sulphate(mg/l)	3.2	2245	4.0	3.94	6.0	2.0	BDL	BDL	BDL	BDL	6.43	6.31	
22	Sodium(mg/l)	12.2	-	-	-	-	-	18.3	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	93.0	560.0	112.0	47.0	55.0	56.0	43.0	56.0	82.0	26.0	87.0	128.0	
24	Total Fixed Solids(mg/l)	55.0	329.0	62.0	23.0	33.0	33.0	22.0	27.0	41.0	17.0	52.0	73.0	
25	Total Suspended Solids(mg/l)	10.0	8.0	7.0	14.0	19.0	6.0	10.0	9.0	5.0	18.0	12.0	9.0	
26	Phosphate(mg/l)	0.08	0.19	0.13	0.04	0.02	BDL	BDL	0.17	0.02	0.09	0.12	0.02	
27	Boron(mg/l)	0.6	-	-	-	-	-	0.42	-	-	-	-	-	
28	Potassium(mg/l)	1.8	-	-	-	-	-	1.1	-	-	-	-	-	
29	Flouride(mg/l)	1.4	BDL	0.8	BDL	BDL	0.3	0.35	0.35	BDL	BDL	2.36	0.78	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.045	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.268	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.073	-	-	-	-	-	0.017	-	-	-	-	-	
37	IronTotal(mg/l)	BDL	-	-	-	-	-	0.114	-	-	-	-	-	
38	Carbaryl (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	

## MAYEM LAKE AT MAYEM 2020-2021

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	28	32	30	28	28	30	29	29	28	28	31	32	
2	Dissolved Oxygen mg/l	6.9	6.1	7.4	6.7	7.7	6.2	7.2	5.6	7.5	7.7	5.9	7.7	4 mg/l or more
3	pH	6.92	6.50	6.44	6.55	6.0	6.08	5.60	6.24	6.19	6.85	6.75	6.57	6-9
4	Conductivity(µs/cm)	68.31	59.72	68.75	48.29	48.29	42.18	72.33	46.65	52.48	94.05	96.08	47.5	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	BDL	BDL	BDL	BDL	0.14	0.24	0.11	0.22	0.17	BDL	0.10	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.020	BDL	BDL	
8	Total Coliform(MPN/100ml)	2300	2200	3300	4900	3300	3100	2200	3300	2200	2200	330	490	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	1300	1400	1100	2300	1700	1700	1300	1700	1300	1300	170	330	
10	Fecal Streptococci MPN/100ml	-	-	-	921	10.2	281	13	95	351	151	34	80	
11	Turbidity(NTU)	2.64	2.04	3.66	2.81	2.81	2.62	4.47	2.48	3.05	3.36	4.12	5.46	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	22.0	28.0	22.0	24.0	10.0	18.0	24.0	26.0	20.0	20.0	22.0	18.0	
14	Chloride mg/l	10.0	10.5	10.0	9.0	5.0	4.0	9.0	9.0	7.49	10.8	6.95	5.46	
15	COD(mg/l)	8.0	4.0	6.0	6.0	BDL	8.0	6.0	6.0	4.0	4.0	4.0	6.0	
16	Total Kjeldhal Nitrogen(mg/l)	5.93	-	-	-	-	-	7.28	-	-	-	28.0	14.0	
17	Ammonia mg/l	BDL	0.07	BDL	0.05	BDL	BDL	BDL	0.14	BDL	0.06	0.05	0.05	
18	Hardness(mg/l)	18.0	18.0	16.0	10.0	14.0	12.0	14.0	14.0	12.0	30.0	12.0	12.0	
19	Calcium(mg/l)	BDL	5.6	4.0	3.2	2.0	3.0	4.01	3.2	3.2	3.2	3.2	4.0	
20	Magnesium(mg/l)	3.4	BDL	BDL	BDL	2.0	3.0	BDL	BDL	BDL	5.35	BDL	BDL	
21	Sulphate(mg/l)	2.3	BDL	3.0	2.0	BDL	BDL	BDL	2.46	BDL	BDL	BDL	BDL	
22	Sodium(mg/l)	38.4	-	-	-	-	-	14.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	40.0	37.0	42.0	28.0	32.0	28.0	41.0	29.0	32.0	59.0	61.0	31.0	
24	Total Fixed Solids(mg/l)	24.0	17.0	25.0	14.0	19.0	15.0	19.0	15.0	20.0	40.0	28.0	19.0	
25	Total Suspended Solid	6.0	4.0	4.0	11.0	24.0	5.0	10.0	8.0	7.0	30.0	10.0	7.0	
26	Phosphate(mg/l)	0.2	0.02	0.03	BDL	BDL	BDL	BDL	0.14	0.02	0.09	0.05	0.03	
27	Boron(mg/l)	1.02	-	-	-	-	-	0.94	-	-	-	-	-	
28	Potassium(mg/l)	0.8	-	-	-	-	-	0.66	-	-	-	-	-	
29	Fluoride(mg/l)	2.0	BDL	BDL	BDL	0.22	0.31	0.38	0.29	BDL	BDL	0.54	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.011	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.054	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.042	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.228	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.055	-	-	-	-	-	0.022	-	-	-	-	-	
37	IronTotal(mg/l)	0.143	-	-	-	-	-	0.075	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**CUMBHARJUA CANAL, CORLIM 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	31	30	28	26	28	29	29	29	28	29	31	
2	Dissolved Oxygen(mg/l)	4.9	4.8	6.0	5.0	6.0	6.0	5.5	4.7	5.6	6.0	7.0	6.5	4 mg/l or more
3	pH	7.10	7.10	6.89	5.55	6.49	6.40	6.41	6.26	6.72	7.0	6.95	7.22	6.5 - 8.5
4	Conductivity(µs/cm)	49430.0	51920.0	32290.0	107.6	1222.0	140.2	2848.0	7475.0	24460.0	34600.0	31440.0	45050.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.3134	0.22	0.603	0.211	0.56	0.36	0.21	0.15	0.16	0.183	0.11	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.027	0.275	0.007	BDL	BDL	0.007	0.011	0.007	0.007	0.006	BDL	0.071	
8	Total Coliform(MPN/100ml)	490	1100	1700	2700	2200	2100	2300	2300	330	4900	1300	2300	
9	Fecal Coliform(MPN/100ml)	330	680	1400	2200	1300	1100	1300	1300	130	1700	780	1300	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	111	34	50	85	141	64	111	141	351	
11	Turbidity(NTU)	4.27	13.58	6.55	2.92	8.51	8.61	8.42	8.45	5.6	3.84	3.39	3.88	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.0	BDL	BDL	
13	Total Alkalinity(mg/l)	94.0	102.0	60.0	40.0	34.0	28.0	50.0	52.0	46.0	70.0	102.0	100.0	
14	Chlorides(mg/l)	16510.84	15420	12263.04	89.04	342.45	244.61	782.74	2450.0	7848.0	12719.0	2350.0	17489.26	
15	COD(mg/l)	-	-	-	6.0	8.0	8.0	10	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	4.25	-	-	-	-	-	8.96	-	-	-	42.0	5.04	
17	Ammonia (mg/l)	0.114	0.10	0.356	BDL	BDL	0.050	BDL	0.12	0.07	0.09	0.08	BDL	
18	Total Hardness(mg/l)	6000.0	5400.0	6000.0	50.0	118.0	56.0	252.0	664.0	3400.0	2800.0	3800.0	9500.0	
19	Calcium(mg/l)	400.8	481.0	2500.0	16.0	8.0	20.0	20.0	49.7	513.0	288.0	152.3	1803.6	
20	Magnesium(mg/l)	1215.0	1021.0	850.0	8.26	26.73	11.66	56.38	131.0	515.2	505.0	831.1	1870.23	
21	Sulphate(mg/l)	2446.88	1578	598.29	9.35	11.22	12.9	1241.46	74.7	395	299	964.0	1448.43	
22	Sodium(mg/l)	310.0	-	-	-	-	-	540.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	32129.0	36344.0	19374.0	64.2	761.0	827.0	1708.0	4111.0	13450.0	20760.0	18851.0	27314.0	
24	Total Fixed Solids(mg/l)	22490.0	14538.0	12922.0	42.0	466.0	406.0	700.0	4010.0	12434.0	1014.0	17845.0	12000.0	
25	Total Suspended Solids(mg/l)	62.0	22.0	72.0	23.0	44.0	38.0	56.0	50.0	41.0	10.0	51.0	27.0	
26	Phosphate(mg/l)	0.08	0.068	0.117	0.144	0.113	0.02	0.057	0.40	0.03	BDL	0.06	0.031	
27	Boron(mg/l)	0.64	-	-	-	-	-	0.82	-	-	-	-	-	
28	Potassium(mg/l)	10.5	-	-	-	-	-	13	-	-	-	-	-	
29	Flouride(mg/l)	1.76	BDL	0.380	BDL	BDL	BDL	0.260	BDL	0.88	BDL	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.010	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.026	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.13	-	-	-	-	-	0.027	-	-	-	-	-	
37	IronTotal(mg/l)	1.419	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	0.050	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	



**RIVER ZUARI AT PANCHAWADI 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	30	29	28	27	29	28	29	30	29	29	29	
2	Dissolved Oxygen(mg/l)	4.0	4.7	4.5	6.6	7.6	7.3	6.6	5.1	5.1	4.9	5.7	5.2	4 mg/l or more
3	pH	6.74	7.2	6.83	6.36	6.54	6.27	6.31	6.8	6.42	6.42	6.91	6.85	6.5 - 8.5
4	Conductivity(µs/cm)	27560.0	16980.0	2305.0	141.9	84.40	82.54	368.72	6048.00	6070.0	6069.0	8387.0	12490.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.3	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.1	0.40	0.423	0.810	0.51	0.15	BDL	BDL	0.20	BDL	0.1	0.29	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.059	0.060	BDL	BDL	BDL	BDL	BDL	0.008	0.03	BDL	0.024	0.04	
8	Total Coliform(MPN/100ml)	130	330	700	780	680	610	1300	1200	3300	790	460	1400	
9	Fecal Coliform(MPN/100ml)	78	230	330	450	400	400	780	680	1700	230	330	780	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	171	50	50	121	121	921	111	171	151	
11	Turbidity(NTU)	3.24	7.55	8.48	21.3	11.26	9.90	6.05	7.50	6.98	6.98	6.77	4.44	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	68.0	112.0	40.0	30.0	20.0	22.0	22.0	38.0	48.0	44.0	50.0	54.0	
14	Chlorides(mg/l)	19217.5	5998.0	1457.0	25.44	10.76	10.76	122.00	1457.00	5241.0	3620.0	3302.17	7748.0	
15	COD(mg/l)	-	-	8.0	8.0	8.0	6.0	8.0	18.0	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	12.66	-	-	-	-	-	8.4	-	-	-	44.8	28.0	
17	Ammonia (mg/l)	0.07	0.07	0.109	BDL	BDL	BDL	BDL	0.15	BDL	BDL	BDL	BDL	
18	Total Hardness(mg/l)	10000.0	880.0	1000.0	30.0	28.0	34.0	24.0	440.0	700.0	1000.0	1800.0	1800.0	
19	Calcium(mg/l)	2500.0	64.13	500.0	12.0	10.0	16.0	20.0	80.0	160.0	144.0	400.8	256.5	
20	Magnesium(mg/l)	1822.5	175.0	121.5	4.37	4.37	4.37	BDL	58.00	73.0	156.00	340.0	282.00	
21	Sulphate(mg/l)	4515.7	128.2	1942.52	7.59	9.62	11.07	14.32	73.0	300.4	154.0	381.73	71.23	
22	Sodium(mg/l)	44	-	-	-	-	-	55.6	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	16812.0	10016.0	1383.0	85.2	54.0	54.0	210.0	4232.0	3754.0	3640.0	5012.0	7341.0	
24	Total Fixed Solids(mg/l)	10351.0	9018.0	943.0	56.0	34.0	20.0	90.0	2537.0	3201.0	782.0	1125.0	7136.0	
25	Total Suspended Solids(mg/l)	35.0	57.0	31.0	18.0	27.0	21.0	9.0	6.0	13.0	49.0	16.0	62.0	
26	Phosphate(mg/l)	0.26	BDL	0.110	0.282	0.037	0.04	BDL	0.02	0.03	0.05	0.024	0.03	
27	Boron(mg/l)	1.14	-	-	-	-	-	0.74	-	-	-	-	-	
28	Potassium(mg/l)	1.2	-	-	-	-	-	2.5	-	-	-	-	-	
29	Flouride(mg/l)	BDL	0.43	0.700	BDL	BDL	BDL	BDL	0.41	0.22	0.21	0.2	0.45	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.006	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	0.068	-	-	-	-	-	
35	Nickel(mg/l)	0.258	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.072	-	-	-	-	-	0.023	-	-	-	-	-	
37	IronTotal(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	

RIVER ZUARI AT CORTALIM 2020-2021														
Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	32	29	29	27	26	28	30	30	30	30	33	
2	Dissolved Oxygen(mg/l)	4.6	4.9	4.8	5.5	6.5	6.3	5.0	5.0	4.5	6.1	5.5	5.2	4 mg/l or more
3	pH	7.50	7.58	7.10	7.10	7.40	7.08	7.34	7.18	6.98	6.85	7.53	7.61	6.5 - 8.5
4	Conductivity(µs/cm)	58470.0	58090.0	41220.0	975.7	258.44	13870.0	41800.0	41470.0	42330.0	44160.0	43590.0	44310.0	
5	BOD(mg/l)	BDL	2.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.13	0.2	0.37	0.32	0.20	0.31	0.27	0.16	0.792	0.36	0.163	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.013	0.183	0.18	0.024	0.028	0.005	BDL	0.04	0.008	0.06	0.011	0.069	
8	Total Coliform(MPN/100ml)	2300	3300	4900	4900	4600	4900	4900	3300	4900	7900	4900	2700	
9	Fecal Coliform(MPN/100ml)	1300	1700	2300	3300	2300	3300	2300	2300	2300	3300	2300	2200	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	>1601	241	171	541	95	431	431	921	>1601	
11	Turbidity(NTU)	15.37	12.95	15.42	77.7	70.4	21.7	6.31	12.93	3.04	14.02	14.33	15.09	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	4.0	2.0	BDL	BDL	BDL	BDL	8.0	BDL	10.0	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	116.0	114.0	94.0	34.0	30.0	48.0	26.0	90.0	100.0	108.0	120.0	100.0	
14	Chlorides(mg/l)	18212.0	19446.0	12992.0	194.0	53.0	4250.0	16046.0	15275.4	17489.2	17246.4	17978.5	17856.17	
15	COD(mg/l)	-	-	-	14.0	14.0	-	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	4.7	-	-	-	-	-	13.44	-	-	-	43.4	3.36	
17	Ammonia (mg/l)	0.11	BDL	BDL	0.11	BDL	0.06	BDL	0.11	0.05	BDL	BDL	BDL	
18	Total Hardness(mg/l)	7200.0	8500.0	4400.0	80.0	28.0	2400.0	4440.0	4500.0	4500.0	4000.0	4800.0	9500.0	
19	Calcium(mg/l)	641.0	601.2	240.0	10.0	5.0	96.0	273.0	360.7	2000.0	400.8	2800.0	2004.0	
20	Magnesium(mg/l)	1361.0	1701.0	924.0	13.0	5.0	525.0	914.0	874.8	607.50	729.00	486.0	1821.53	
21	Sulphate(mg/l)	3727.0	2505.9	875.0	39.0	18.0	186.0	1975.0	2172.1	2060.45	7130.00	2786.16	5427.3	
22	Sodium(mg/l)	5840.0	-	-	-	-	-	8330.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	40929.0	37758.0	28854.0	682.0	180.0	9709.0	25066.0	26124.0	25925.0	26937.0	25693.0	26585.00	
24	Total Fixed Solids(mg/l)	16372.0	26430.0	11542.0	408.0	108.0	5625.0	13406.0	19504.0	12885.0	18581.0	13604.0	12308.0	
25	Total Suspended Solids(mg/l)	18.0	42.0	79.0	47.0	57.0	82.0	47.0	39.0	50.0	56.0	39.0	32.0	
26	Phosphate(mg/l)	0.12	0.08	0.09	0.06	0.13	0.06	0.04	0.05	0.61	0.06	0.048	0.067	
27	Boron(mg/l)	1.04	-	-	-	-	-	1.20	-	-	-	-	-	
28	Potassium(mg/l)	142.0	-	-	-	-	-	221.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	0.9	1.16	0.44	0.22	0.94	0.93	0.8	0.045	1.2	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	1.064	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.055	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.299	-	-	-	-	-	0.288	-	-	-	-	-	
36	Zinc(mg/l)	0.155	-	-	-	-	-	0.134	-	-	-	-	-	
37	IronTotal(mg/l)	0.599	-	-	-	-	-	0.085	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

CREEK AT DANDO MOLLO, VELSAO, MORMUGAO 2020-2021														
Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	32	29	29	26	26	28	29	29	29	32	32	
2	Dissolved Oxygen(mg/l)	-	8.2	5.8	5.1	6.1	6.9	5.1	4.5	6.0	7.8	8.0	6	4 mg/l or more
3	pH	8.30	8.50	7.20	7.10	6.80	7.40	6.95	6.85	6.87	6.73	7.39	7.29	6-9
4	Conductivity(µs/cm)	21640.0	7120.0	1660.0	964.5	190.82	308.0	13130.0	18260.0	19370.0	18630.0	18770.0	17950.0	
5	BOD(mg/l)	-	2.0	2.9	BDL	BDL	2.6	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	4.26	3.56	5.43	1.17	0.77	9.0	0.33	0.22	1.53	0.62	BDL	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.03	0.057	0.51	0.034	0.084	0.454	0.011	0.049	0.065	0.05	0.069	0.068	
8	Total Coliform(MPN/100ml)	1300	1400	1700	2000	2100	2200	1400	1300	220	1400	1100	3300	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	780	1100	780	930	1100	1300	1100	780	130	330	230	2300	
10	Fecal Streptococci (MPN/100ml)	-	-	-	>1601	47	80	151	351	95	281	211	221	
11	Turbidity(NTU)	3.25	BDL	4.41	14.92	7.12	12.36	4.63	8.11	7.91	7.81	7.02	7.36	
12	Phenolphthalein Alkalinity(mg/l)	BDL	2.0	BDL	BDL	BDL	BDL	BDL	4.0	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	48.0	38.0	58.0	68.0	34.0	26.0	34.0	84.0	90.0	36.0	60.0	60.0	
14	Chlorides(mg/l)	6921	2201.5	850	243	24.0	52.0	4794	6036.3	11374.13	2094.2	5259.01	6482.03	
15	COD(mg/l)	-	-	12.0	12.0	6.0	8.0	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	5.6	-	-	-	-	-	14	-	-	-	7.0	2.8	
17	Ammonia (mg/l)	0.34	0.16	0.48	BDL	BDL	BDL	0.15	0.47	0.14	0.15	0.08	BDL	
18	Total Hardness(mg/l)	1920.0	1400.0	160.0	162.0	106.0	62.0	1000.0	1800.0	2000.0	208.0	3400.0	2500.0	
19	Calcium(mg/l)	152.0	240.5	48.0	35.0	12.0	13.0	80.0	160.3	1000.0	42.5	2400.0	601.2	
20	Magnesium(mg/l)	374	194.4	10.0	18.0	18.0	7.0	194.0	340.2	243.0	24.8	243.0	461.41	
21	Sulphate(mg/l)	910	95.12	92.0	39	11.0	9.0	435.0	918.6	888.13	1188.4	4460.3	108.78	
22	Sodium(mg/l)	5460.0	-	-	-	-	-	2190.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	15148.0	4699.0	1162.0	675.0	133.0	205.0	7710.0	11321.0	11885.0	11768.0	10426.0	10154.0	
24	Total Fixed Solids(mg/l)	6059.0	3336.0	465.0	400.0	80.0	120.0	4681.0	7581.0	6191.0	6853.0	4584.0	4934.0	
25	Total Suspended Solids(mg/l)	45.0	22.0	33.0	32.0	8.0	50.0	37.0	34.0	81.0	41.0	18.0	13.0	
26	Phosphate(mg/l)	0.29	0.09	0.23	0.29	0.07	0.16	0.13	0.12	0.72	0.13	0.118	0.802	
27	Boron(mg/l)	0.65	-	-	-	-	-	0.80	-	-	-	-	-	
28	Potassium(mg/l)	115.0	-	-	-	-	-	82.8	-	-	-	-	-	
29	Flouride(mg/l)	BDL	0.81	0.24	0.39	0.21	0.21	2190	0.27	0.227	0.54	0.26	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.22	-	-	-	-	-	0.093	-	-	-	-	-	
36	Zinc(mg/l)	0.161	-	-	-	-	-	0.031	-	-	-	-	-	
37	IronTotal(mg/l)	0.21	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**RIVER MANDOVI NEAR MANDOVI BRIDGE, PANAJI 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	32	30	29	29	30	30	29	28	29	30	30	
2	Dissolved Oxygen(mg/l)	6.3	5.9	5.3	6.9	7.5	6.8	6.3	5.5	5.6	5.8	6.0	7.2	4 mg/l or more
3	pH	7.58	7.77	7.59	6.98	6.91	6.75	7.30	7.62	7.80	7.72	7.89	7.77	6.5 - 8.5
4	Conductivity(us/cm)	52870.0	59130.0	55970.0	1278.0	359.87	2625.0	33810.0	40390.0	56030.0	56240.0	53060.0	57580.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.24	BDL	0.38	0.99	0.56	BDL	0.11	0.10	0.10	0.1	0.19	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.018	0.07	0.41	0.10	0.006	BDL	BDL	0.005	BDL	0.013	0.006	0.03	
8	Total Coliform(MPN/100ml)	200	170	120	280	220	170	210	140	210	330	230	140	
9	Fecal Coliform(MPN/100ml)	93	78	92	94	79	79	94	70	84	230	130	110	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	49	>1601	44	95	141	9.2	64	1601	64	
11	Turbidity(NTU)	2.8	4.94	3.81	3.17	7.0	7.0	4.83	1.94	4.72	4.33	4.04	3	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	4.0	BDL	4.0	BDL	BDL	BDL	4.0	8.0	8.0	14.0	BDL	6.0	
13	Total Alkalinity(mg/l)	108.0	128.0	142.0	36.0	32.0	46.0	50.0	116.0	122.0	118.0	116.0	110.0	
14	Chlorides(mg/l)	17220.0	19340.6	19568.0	1101.0	79.0	1839.0	11888.0	18345.0	17612.0	15891.4	17969.0	17245.0	
15	COD(mg/l)	-	-	-	6.0	6.0	8.0	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	3.86	-	-	-	-	-	10.08	-	-	-	14.0	3.9	
17	Ammonia (mg/l)	BDL	0.22	0.10	BDL	BDL	0.08	0.12	0.16	0.05	0.12	BDL	0.16	
18	Total Hardness(mg/l)	6400.0	20500.0	10000.0	200.0	50.0	740.0	4000.0	5500.0	5500.0	3600.0	3000.0	7400.0	
19	Calcium(mg/l)	481.0	5000.0	1202.0	13.0	7.0	51.0	762.0	361.0	417.0	561.1	641.3	1283.0	
20	Magnesium(mg/l)	1264.0	3766.5	1701.0	41.0	8.0	149.0	510.0	1118.0	1084.0	534.6	340.2	1020.6	
21	Sulphate(mg/l)	2046.0	4395.2	1534.0	22.0	13.0	78.0	1160.0	1046.0	1754.0	3305.9	2373.1	2550.0	
22	Sodium(mg/l)	7.6	-	-	-	-	-	4930	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	31722.0	36671.0	33587.0	769.0	212.0	1548.0	20189.0	23831.0	33618.0	34306.0	29715.0	33964.0	
24	Total Fixed Solids(mg/l)	12598.0	29134.0	17845.0	312.0	108.0	954.0	12124.0	14879.0	14853.0	21469.0	28050.0	31970.0	
25	Total Suspended Solids(mg/l)	40.0	53.0	23.0	33.0	46.0	25.0	23.0	15.0	31.0	47.0	7.0	108.0	
26	Phosphate(mg/l)	BDL	0.08	0.11	0.07	0.08	0.02	0.09	0.06	0.05	0.03	BDL	0.11	
27	Boron(mg/l)	0.86	-	-	-	-	-	0.58	-	-	-	-	-	
28	Potassium(mg/l)	3.8	-	-	-	-	-	145	-	-	-	-	-	
29	Flouride(mg/l)	BDL	BDL	0.53	0.28	BDL	0.67	0.84	0.91	BDL	0.20	1.05	0.40	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.295	-	-	-	-	-	
33	Lead(mg/l)	0.059	-	-	-	-	-	0.083	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.134	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.17	-	-	-	-	-	0.119	-	-	-	-	-	
37	IronTotal(mg/l)	0.053	-	-	-	-	-	0.221	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**RIVER MANDOVI AT TONCA MARCELA 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	30	30	28	26	28	28	28	29	28	28	30	
2	Dissolved Oxygen(mg/l)	5.6	5.2	4.0	6.5	7.3	7.0	6.7	7.2	5.4	5.6	5.9	5.5	4 mg/l or more
3	pH	7.23	7.20	6.88	6.57	6.47	6.74	6.24	7.01	6.14	6.85	7.17	6.92	6.5 - 8.5
4	Conductivity(µs/cm)	44030	47660	32500.0	31.2	138.27	135.85	425.72	4308.00	22650.0	38750.0	38600.0	37870.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.1352	0.14	0.758	0.211	0.23	BDL	0.14	BDL	0.13	0.171	0.14	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.088	0.193	0.028	0.0088	BDL	BDL	0.008	BDL	BDL	BDL	BDL	0.072	
8	Total Coliform(MPN/100ml)	1400	1100	1300	1400	1400	1100	1700	2100	1400	1700	1700	490	
9	Fecal Coliform(MPN/100ml)	930	680	780	930	1100	790	1100	790	790	1300	1300	330	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	>1601	33	24	-	49	23	44	111	171	
11	Turbidity(NTU)	2.28	6.69	3.12	44.8	16.27	7.91	17.51	3.59	5.54	4.62	4.29	3.65	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	2.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.0	BDL	BDL	
13	Total Alkalinity(mg/l)	102.0	98.0	60.0	30.0	30.0	30.0	30.0	50.0	62.0	64.0	34.0	120.0	
14	Chlorides(mg/l)	16021.63	14084.0	12748.7	18.10	22.99	244.61	97.84	3249.00	7373.00	10518.00	12996.0	17648.25	
15	COD(mg/l)	-	-	-	14.0	6.0	8.0	8.0	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	3.8	-	-	-	-	-	7.26	-	-	-	70.0	5.6	
17	Ammonia (mg/l)	0.091	BDL	BDL	BDL	BDL	BDL	BDL	0.20	BDL	BDL	BDL	BDL	
18	Total Hardness(mg/l)	7000.0	4800.0	5000.0	30.0	22.0	36.0	52.0	798.0	1800.0	2000.0	3400.0	9500.0	
19	Calcium(mg/l)	601.2	561.0	1000.0	10.0	4.0	18.0	8.0	57.8	577.2	256.0	321.0	2004.0	
20	Magnesium(mg/l)	1336.5	826.0	972.0	4.86	4.37	7.7	10.69	159.00	87.5	330.0	631.8	1821.53	
21	Sulphate(mg/l)	2086.08	1307.0	633.90	16.04	18.01	5.71	4.39	54.00	150.0	348.00	4753.0	4482.68	
22	Sodium(mg/l)	152.0	-	-	-	-	-	57.2	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	29500.0	29785.0	19500.0	18.7	75.0	85.0	256.0	2360.0	12511.0	31590.0	23155.0	22074.0	
24	Total Fixed Solids(mg/l)	19580.0	13344.0	13512.0	12.0	37.0	40.0	110.0	2255.0	11496.0	15900.0	22211.0	9576.0	
25	Total Suspended Solids(mg/l)	37.0	18.0	77.0	14.0	22.0	16.0	49.0	44.0	65.0	70.0	78.0	23.0	
26	Phosphate(mg/l)	0.23	0.03	0.050	0.211	0.14	BDL	0.033	0.49	0.02	BDL	0.07	0.03	
27	Boron(mg/l)	0.67	-	-	-	-	-	0.44	-	-	-	-	-	
28	Potassium(mg/l)	1.6	-	-	-	-	-	2.9	-	-	-	-	-	
29	Flouride(mg/l)	1.69	BDL	0.521	BDL	BDL	BDL	BDL	0.21	1.03	0.422	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.012	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.038	-	-	-	-	-	
33	Lead(mg/l)	0.226	-	-	-	-	-	0.037	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.301	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.148	-	-	-	-	-	0.020	-	-	-	-	-	
37	IronTotal(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**SELAULIM RESERVOIR AT SELAULIM, SANGUEM 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	31	31	28	28	27	28	30	29	30	30	30	33	
2	Dissolved Oxygen mg/l	8.8	7.5	7.0	7.8	8.0	8.0	8.0	8.5	7.7	6.1	7.4	7.8	4 mg/l or more
3	pH	7.47	7.37	7.56	6.47	6.90	6.95	6.70	6.80	6.72	8.34	8.50	7.01	6-9
4	Conductivity(µs/cm)	60.85	83.97	51.67	21.30	43.23	41.13	37.67	48.62	47.0	139.17	139.24	52.57	
5	BOD(mg/l) mg/l	BDL	2.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.14	BDL	0.30	BDL	0.1	0.1	BDL	BDL	0.10	BDL	BDL	0.14	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	0.007	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	13	13	49	130	130	110	140	170	220	6.8	4.5	13	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	4.5	4.5	13	49	49	33	79	110	110	2	2	4.5	
10	Fecal Streptococci MPN/100ml	-	-	-	351	171	22	171	64	12	47	2	12	
11	Turbidity(NTU)	BDL	2.20	3.82	1.72	BDL	1.89	2.53	2.53	2.25	1.89	1.87	6.07	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	30.0	34.0	32.0	28.0	26.0	24.0	20.0	26.0	36.0	20.0	24.0	18.0	
14	Chloride mg/l	8.0	12.3	8.0	9.0	6.0	5.0	5.0	5.0	7.0	BDL	4.0	4.5	
15	COD(mg/l)	4.0	5.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	
16	Total Kjeldhal Nitrogen(mg/l)	3.64	-	-	-	-	-	6.72	-	-	-	28.0	42.0	
17	Ammonia mg/l	BDL	BDL	BDL	0.06	BDL	0.14	0.06	0.02	0.06	BDL	BDL	BDL	
18	Hardness(mg/l)	22.0	8.0	30.0	20.0	26.0	18.0	20.0	20.0	12.0	12.0	30.0	14.0	
19	Calcium(mg/l)	6.0	6.0	6.0	3.0	5.0	4.0	5.0	4.0	4.0	4.01	3.0	2.40	
20	Magnesium(mg/l)	BDL	BDL	3.0	3.0	3.0	2.0	BDL	2.0	BDL	BDL	5.0	BDL	
21	Sulphate(mg/l)	BDL	5.31	BDL	4.0	BDL	BDL	BDL	3.0	2.0	2.88	2.0	BDL	
22	Sodium(mg/l)	15.0	-	-	-	-	-	4.2	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	38.0	54.0	31.0	13.0	24.0	23.0	24.0	30.0	29.0	88.0	85.0	35.0	
24	Total Fixed Solids(mg/l)	11.0	28.0	12.0	6.0	11.0	9.0	BDL	12.0	14.0	84.0	41.0	21.0	
25	Total Suspended Solid (mg/l)	11.0	8.0	25.0	29.0	11.0	10.0	9.0	14.0	22.0	3.0	14.0	10.0	
26	Phosphate(mg/l)	0.08	0.03	0.02	0.02	0.04	BDL	0.02	0.03	0.02	BDL	0.02	BDL	
27	Boron(mg/l)	0.82	-	-	-	-	-	0.58	-	-	-	-	-	
28	Potassium(mg/l)	0.15	-	-	-	-	-	0.46	-	-	-	-	-	
29	Fluoride(mg/l)	0.24	1.09	0.04	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.012	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.202	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.097	-	-	-	-	-	0.018	-	-	-	-	-	
37	IronTotal(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

AGRICULTURAL CANAL UPSTREAM OF CUNCOLIM INDUSTRIAL ESTATE 2020-2021														
Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for Class E as per CPCB classification based on designated best use
1	Temperature°C	30	29	30	28	27	27	27		29	29	29	30	
2	Dissolved Oxygen(mg/l)	6.5	6.9	6.4	5.6	6.1	6.5	6.4		6.8	6.4	8.1	7.2	
3	pH	7.40	8.50	6.86	6.39	6.48	6.27	6.98		7.23	7.28	7.18	7.40	6-8.5
4	Conductivity(µs/cm)	76.63	145.4	292.47	269.55	298.3	110.8	94.65		55.38	69.24	64.88	117.52	Max 2250 µs/cm
5	BOD(mg/l)	BDL	4.4	BDL	BDL	BDL	BDL	BDL		BDL	BDL	2.8	BDL	
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	BDL	BDL	0.13	0.14	1.01	0.10	BDL		BDL	BDL	BDL	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	0.007	0.011	BDL	BDL	0.095		BDL	0.007	BDL	BDL	
8	Total Coliform(MPN/100ml)	3300	2300	490	490	930	1700	1300		2400	1700	3300	1300	
9	Fecal Coliform(MPN/100ml)	1300	780	230	330	680	1300	780		790	1300	2300	790	
10	Fecal Streptococci (MPN/100ml)	-	-	-	541	64	921	431		221	921	541	111	
11	Turbidity(NTU)	2.98	1.82	1.99	4.55	7.32	10.60	9.54		3.31	2.49	2.35	1.98	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	24.0	26.0	38.0	34.0	24.0	32.0	40.0		24.0	20.0	28.0	24.0	
14	Chlorides(mg/l)	7.80	30.00	45.33	18.70	19.5	8.00	8.32		7.83	8.00	23.00	11.00	
15	COD(mg/l)	6.0	18.0	10.0	7.0	12.0	4.0	6.0		10.0	8.0	6.0	4.0	
16	Total Kjeldahl Nitrogen(mg/l)	3.86	-	-	-	-	-	5.6		-	-	63.0	1.1	
17	Ammonia (mg/l)	BDL	0.7	BDL	0.17	BDL	0.09	BDL		BDL	BDL	BDL	BDL	
18	Total Hardness(mg/l)	28.0	38.0	66.0	52.0	32.0	38.0	6.0		18.0	22.0	30.0	18.0	
19	Calcium(mg/l)	14.0	5.6	40.0	12.0	9.62	7.0	BDL		4.0	4.0	3.0	4.0	
20	Magnesium(mg/l)	3.4	5.8	6.3	5.3	BDL	5.0	BDL		3.40	3.00	5.0	BDL	
21	Sulphate(mg/l)	5.55	4.0	23.65	56.4	51.71	9.00	BDL		2.97	3.00	BDL	BDL	
22	Sodium(mg/l)	72	-	-	-	-	-	10.90		-	-	-	-	
23	Total Dissolved Solids(mg/l)	48.0	101.0	175.0	172.0	176.0	68.0	55.0		35.0	41.0	38.0	80.0	
24	Total Fixed Solids(mg/l)	23.0	40.0	103.0	101.0	168.0	22.0	25.0		13.0	20.0	12.0	48.0	
25	Total Suspended Solids(mg/l)	8.0	32.0	33.0	32.0	5.0	20.0	8.0		12.0	11.0	20.0	5.0	
26	Phosphate(mg/l)	0.10	0.20	0.14	0.13	BDL	0.03	0.02	DRY	0.023	0.021	0.030	BDL	
27	Boron(mg/l)	0.76	-	-	-	-	-	0.48		-	-	-	-	Max 2mg/l
28	Potassium(mg/l)	8.2	-	-	-	-	-	3.7		-	-	-	-	
29	Flouride(mg/l)	BDL	0.36	BDL	1.1	0.97	BDL	BDL		BDL	0.222	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL		-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL		-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.029		-	-	-	-	
33	Lead(mg/l)	0.036	-	-	-	-	-	BDL		-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL		-	-	-	-	
35	Nickel(mg/l)	0.308	-	-	-	-	-	BDL		-	-	-	-	
36	Zinc(mg/l)	0.061	-	-	-	-	-	BDL		-	-	-	-	
37	IronTotal(mg/l)	0.118	-	-	-	-	-	BDL		-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	

AGRICULTURAL CANAL DOWNSTREAM OF CUNCOLIM INDUSTRIAL ESTATE 2020-2021														
Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for Class E as per CPCB classification based on designated best use
1	Temperature°C	30	29	30	28	27	27	27		29	29	29	30	
2	Dissolved Oxygen(mg/l)	7.0	8.1	6.4	5.7	5.9	6.1	6.5		6.5	6.0	7.4	7.5	
3	pH	7.85	7.80	6.73	6.31	6.33	6.05	6.31		7.32	7.40	7.22	7.42	6-8.5
4	Conductivity(µs/cm)	86.72	69.87	285.32	276.55	271.4	111.36	267.01		57.44	53.69	52.54	63.04	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	2.1	BDL	
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	BDL	BDL	0.18	0.12	0.99	BDL	0.102		BDL	BDL	BDL	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	0.008	0.013	BDL	BDL	BDL		BDL	0.005	BDL	BDL	
8	Total Coliform(MPN/100ml)	4600	1700	1300	1400	2200	4600	2200		1300	3400	4900	2200	
9	Fecal Coliform(MPN/100ml)	1700	680	490	700	1300	2300	1300		790	2200	3300	1300	
10	Fecal Streptococci (MPN/100ml)	-	-	-	241	541	>1601	>1601		>1601	431	351	151	
11	Turbidity(NTU)	3.34	1.43	2.31	4.27	7.03	11.87	6.15		2.18	1.82	2.72	2.76	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	24.0	24.0	42.0	32.0	20.0	26.0	30.0		30.0	20.0	24.0	24.0	
14	Chlorides(mg/l)	5.87	9.0	42.38	19.2	16.0	9.00	244.61		5.87	9.00	15.00	6.00	
15	COD(mg/l)	8.0	12.0	13.0	6.0	6.0	4.0	10.0		8.0	8.0	4.0	6.0	
16	Total Kjeldahl Nitrogen(mg/l)	4.2	-	-	-	-	-	6.72		-	-	7.0	1.7	
17	Ammonia (mg/l)	0.05	0.23	0.06	0.10	BDL	0.08	BDL		BDL	BDL	BDL	BDL	
18	Total Hardness(mg/l)	24.0	22.0	72.0	70.0	42.0	48.0	28.0		18.0	22.0	26.0	20.0	
19	Calcium(mg/l)	7.2	4.0	34.0	8.8	10.42	9.0	5.6		3.2	3.0	4.0	3.2	
20	Magnesium(mg/l)	BDL	3.0	9.2	11.7	3.9	6.0	5.44		3.60	3.00	4.0	2.90	
21	Sulphate(mg/l)	6.14	BDL	21.29	59	52.33	14.0	1055.28		2.85	3.0	BDL	BDL	
22	Sodium(mg/l)	84	-	-	-	-	-	24.4		-	-	-	-	
23	Total Dissolved Solids(mg/l)	52.0	47.0	163.0	180.0	160.0	67.0	161.0		34.0	32.0	35.0	36.0	
24	Total Fixed Solids(mg/l)	39.0	20.0	86.0	110.0	154.0	20.0	78.0		14.0	16.0	11.0	25.0	
25	Total Suspended Solids(mg/l)	15.0	15.0	28.0	36.0	24.0	23.0	14.0		16.0	10.0	22.0	8.0	
26	Phosphate(mg/l)	0.564	0.03	0.19	0.13	0.02	0.03	0.086	DRY	0.023	0.025	0.02	BDL	
27	Boron(mg/l)	0.72	-	-	-	-	-	0.56		-	-	-	-	Max 2mg/l
28	Potassium(mg/l)	7.2	-	-	-	-	-	4.8		-	-	-	-	
29	Flouride(mg/l)	BDL	0.64	BDL	1.3	1.09	BDL	0.25		BDL	BDL	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL		-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.028		-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.017		-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL		-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL		-	-	-	-	
35	Nickel(mg/l)	0.287	-	-	-	-	-	0.855		-	-	-	-	
36	Zinc(mg/l)	0.085	-	-	-	-	-	0.091		-	-	-	-	
37	IronTotal(mg/l)	0.453	-	-	-	-	-	BDL		-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL		-	-	-	-	



## RUMDER LAKE, NUVEM 2020-2021

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	31	28	28	27	28	27	28	29	27	30	32	
2	Dissolved Oxygen (mg/l)	6.2	6.0	4.3	4.2	5.0	4.9	5.3	1.3	1.8	4.8	5.6	1.2	4 mg/l or more
3	pH	6.98	7.22	6.36	6.28	6.25	6.59	6.29	6.12	6.35	6.64	6.52	6.46	6-9
4	Conductivity µs/cm	140.90	176.33	158.40	104.84	90.05	81.57	107.87	116.08	119.3	135.6	137.2	138.05	
5	BOD(mg/l)	BDL	4.2	2.0	BDL	BDL	BDL	BDL	6.2	3.6	BDL	3.8	3.6	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	BDL	3.57	2.61	0.12	BDL	BDL	BDL	0.39	0.45	0.521	BDL	0.15	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	0.04	0.04	0.02	BDL	0.012	BDL	BDL	0.04	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	2300	4900	2700	2100	2400	2500	4600	1700	4900	4900	1100	1700	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	1300	2300	1400	1500	2100	1700	1700	1300	3300	1300	230	1300	
10	Fecal Streptococci(MPN/100ml)	-	-	-	18	71	351	141	281	-	171	151	431	
11	Turbidity(NTU)	6.57	19.01	15	10.66	14.92	12.44	6.17	7.48	8.30	8.38	8.62	8.35	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	46.0	36.0	28.0	34.0	30.0	26.0	34.0	50.0	44.0	50.0	24.0	44.0	
14	Chloride mg/l	25.0	25.5	20.5	13.0	12.72	15.17	15.5	13.0	12.49	18.59	249.60	14.39	
15	COD(mg/l)	14.0	6.0	8.0	6.0	10.0	10.0	6.0	12.0	10.0	8.0	10.0	14.0	
16	Total Kjeldhal Nitrogen(mg/l)	5.94	-	-	-	-	-	7.84	-	-	-	14.0	28.0	
17	Ammonia mg/l	0.08	0.14	BDL	0.05	BDL	0.104	BDL	BDL	0.15	BDL	BDL	0.09	
18	Hardness(mg/l)	38.0	32.0	28.0	22.0	18.0	26.0	26.0	22.0	20.0	32.0	10.0	34.0	
19	Calcium(mg/l)	7.2	7.2	7.2	5.6	10.0	6.0	5.6	8.0	7.2	14	BDL	7.2	
20	Magnesium(mg/l)	4.9	3.4	2.4	BDL	1.94	2.0	2.92	BDL	BDL	4.37	BDL	3.9	
21	Sulphate(mg/l)	4.7	10.9	16.1	8.33	22.0	4.7	2.54	4.74	3.91	5.69	9.78	2.60	
22	Sodium(mg/l)	510	-	-	-	-	-	12.1	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	86.0	110.0	92.0	64.0	54.0	43.0	67.0	73.0	76.0	83.0	86.0	86.0	
24	Total Fixed Solids(mg/l)	50.0	52.0	56.0	32.0	24.0	18.0	35.0	37.0	38.0	34.0	68.0	54.0	
25	Total Suspended Solid (mg/l)	35.0	14.0	8.0	10.0	22.0	24.0	11.0	22.0	16.0	25.0	15.0	23.0	
26	Phosphate(mg/l)	0.14	0.07	0.06	0.27	0.097	0.058	0.04	0.05	0.03	BDL	BDL	0.02	
27	Boron(mg/l)	0.78	-	-	-	-	-	0.38	-	-	-	-	-	
28	Potassium(mg/l)	26	-	-	-	-	-	1.5	-	-	-	-	-	
29	Fluoride(mg/l)	BDL	BDL	0.9	BDL	BDL	0.26	0.41	0.43	BDL	BDL	1.08	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.012	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.070	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.275	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.063	-	-	-	-	-	0.029	-	-	-	-	-	
37	IronTotal(mg/l)	0.119	-	-	-	-	-	0.092	-	-	-	-	-	
38	Carbaryl (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	

**RIVER SAL AT ORLIM BRIDGE 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	29	29	29	28	29	28	29	30	30	30	31	
2	Dissolved Oxygen(mg/l)	4.5	4.0	4.4	4.5	5.1	4.8	4.1	4.5	5.1	4.4	3.8	4.7	4 mg/l or more
3	pH	6.96	7.48	7.15	6.93	7.24	6.94	7.01	6.69	6.23	6.97	6.96	6.93	6.5 - 8.5
4	Conductivity(µs/cm)	36810	24570	31000.0	324.76	175.06	644.5	691.3	4643.0	4553.0	35940.0	25180.0	13360.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	2.3	BDL	BDL	BDL	BDL	3.9	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.552	0.143	3.83	0.35	0.24	0.17	0.14	0.23	0.141	0.056	BDL	0.34	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.005	0.022	0.28	0.04	0.026	0.025	0.038	0.017	0.016	0.173	0.06	0.153	
8	Total Coliform(MPN/100ml)	2200	2700	1700	2200	1700	1700	2200	3300	2200	1300	78	790	
9	Fecal Coliform(MPN/100ml)	1700	1700	1100	1300	1100	1200	1300	1700	1700	790	45	450	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	64	351	34	281	1601	16	431	221	541	
11	Turbidity(NTU)	6.07	7.96	17.12	8.93	4.18	8.27	5.87	4.3	4.45	2.73	3.61	3.6	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.0	BDL	BDL	
13	Total Alkalinity(mg/l)	210.0	80.0	92.0	92.0	34.0	58.0	54.0	58.0	170.0	98.0	92.0	104.0	
14	Chlorides(mg/l)	1129.5	8013.47	11996.0	60.0	35.5	1350.0	190.0	225.0	17611.56	16633.00	11663.1	9882.0	
15	COD(mg/l)	-	-	-	6.0	4.0	4.0	6.0	8.0	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	3.47	-	-	-	-	-	8.4	-	-	-	42.0	11.21	
17	Ammonia (mg/l)	0.17	0.059	0.36	0.11	0.17	0.11	0.15	0.16	0.15	0.56	0.09	BDL	
18	Total Hardness(mg/l)	5500.0	7500.0	3200.0	42.0	46.0	180.0	56.0	62.0	8500.0	2800.0	500.0	2900.0	
19	Calcium(mg/l)	172.3	1000.0	400.80	9.62	8.82	24.00	4.81	4.01	4000.00	440.90	160.30	361.00	
20	Magnesium(mg/l)	1232.0	972.0	534.6	4.4	5.8	29.2	10.7	12.6	1093	413.1	24.3	486.0	
21	Sulphate(mg/l)	1784.3	1088.32	441.60	9.70	18.60	62.25	9.13	17.8	603.93	1356.40	1757.2	782.0	
22	Sodium(mg/l)	480	-	-	-	-	-	87.3	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	24295.0	12372.0	18298.0	193.0	108.0	379.0	408.0	2591.0	2783.0	22247.0	16367.0	8283.0	
24	Total Fixed Solids(mg/l)	14334.0	10557.0	18091.0	168.0	89.0	277.0	379.0	2287.0	1089.0	15147.0	9275.0	956.0	
25	Total Suspended Solids(mg/l)	54.0	55.5	176.0	17.0	11.0	45.0	55.0	60.0	42.0	32.0	23.0	18.0	
26	Phosphate(mg/l)	0.166	0.074	0.20	0.13	0.18	0.08	0.07	0.07	0.097	0.08	0.09	0.05	
27	Boron(mg/l)	0.46	-	-	-	-	-	0.32	-	-	-	-	-	
28	Potassium(mg/l)	8.5	-	-	-	-	-	4.4	-	-	-	-	-	
29	Flouride(mg/l)	0.8	BDL	0.81	0.30	0.81	0.96	0.78	0.74	0.71	0.28	0.43	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.031	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.103	-	-	-	-	-	0.034	-	-	-	-	-	
37	IronTotal(mg/l)	0.425	-	-	-	-	-	0.103	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

RIVER SAL AT KHAREBAND, MARGAO 2020-2021														
Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C				29	28	29	28	29	30	30	30	29	
2	Dissolved Oxygen(mg/l)				4.7	4.3	4.0	2.8	2.5	5.6	BDL	BDL	1.3	4 mg/l or more
3	pH				6.80	7.23	6.86	6.72	6.77	6.67	6.82	6.80	6.53	6.5 - 8.5
4	Conductivity(µs/cm)				115.12	89.88	144.4	172.5	285.0	276.88	247.72	239.40	216.00	
5	BOD(mg/l)				BDL	BDL	BDL	3.1	BDL	BDL	6.0	3.9	4.2	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)				0.47	0.11	0.11	0.15	1.90	0.815	0.594	BDL	2.12	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l				0.06	0.018	0.047	0.061	BDL	1.650	0.610	0.07	1.729	
8	Total Coliform(MPN/100ml)				9400	7000	8400	7000	7000	7000	11000	54000	28000	
9	Fecal Coliform(MPN/100ml)				7000	4900	5800	4900	4900	4900	2300	35000	17000	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)				48	541	47	1601	>1601	541	541	541	921	
11	Turbidity(NTU)				7.87	3.64	6.87	7.23	16.79	17.19	4.38	8.37	51.4	30 NTU
12	Phenolphthalein Alkalinity(mg/l)				BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)				92.0	28.0	42.0	54.0	58.0	130	46.0	60	102.0	
14	Chlorides(mg/l)				16.5	16.0	37.0	16.0	19.0	25.93	294.0	10670.4	36.0	
15	COD(mg/l)				4.0	8.0	8.0	10.0	16.0	6.0	18.0	-	10.0	
16	Total Kjeldahl Nitrogen(mg/l)				-	-	-	8.96	-	-	-	28.0	28.01	
17	Ammonia (mg/l)				0.09	0.21	0.19	0.21	0.21	1.08	BDL	0.70	0.20	
18	Total Hardness(mg/l)				24.0	34.0	44	132.0	142.0	38.0	40.0	40.0	84.0	
19	Calcium(mg/l)				6.41	4.81	8.82	24.85	27.25	30.0	13.6	9.6	22.0	
20	Magnesium(mg/l)				BDL	5.3	5.3	17.0	18.0	2.0	BDL	3.9	7.0	
21	Sulphate(mg/l)				21.25	10.88	6.51	4.43	5.73	9.74	19.4	12.83	332.0	
22	Sodium(mg/l)				-	-	-	15.3	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	Sample Not collected due to excessive growth of Water Hyacinth	Sample Not collected due to excessive growth of Water Hyacinth	Sample Not collected due to excessive growth of Water Hyacinth	71.0	53.0	87.0	102.0	157.0	199.0	155.0	147.0	134.0	
24	Total Fixed Solids(mg/l)				64	50.0	64.0	81.0	115.0	70.0	102.0	83.0	78.0	
25	Total Suspended Solids(mg/l)				10.0	8.0	18.0	23.0	27.0	29.0	42.0	38.0	44.0	
26	Phosphate(mg/l)				0.13	0.17	0.08	0.10	0.11	0.94	1.35	0.07	0.07	
27	Boron(mg/l)				-	-	-	0.58	-	-	-	-	-	
28	Potassium(mg/l)				-	-	-	1.8	-	-	-	-	-	
29	Flouride(mg/l)				BDL	1.50	0.61	0.20	0.97	BDL	BDL	1.1	0.20	
30	Arsenic(mg/l)				-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)				-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)				-	-	-	0.021	-	-	-	-	-	
33	Lead(mg/l)				-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)				-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)				-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)				-	-	-	0.013	-	-	-	-	-	
37	IronTotal(mg/l)				-	-	-	0.114	-	-	-	-	-	
38	Carbaryl (mg/L)				-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)				-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)				-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)				-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)				-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)				-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)				-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)				-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)				-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)				-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)				-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)				-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)				-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)				-	-	-	BDL	-	-	-	-	-	

**RIVER TIRACOL AT KERI, PERNEM 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	31	29	28	26	30	29	29	29	28	28	28	
2	Dissolved Oxygen(mg/l)	4.5	5.0	5.5	6.6	6.3	8.2	6.5	7.1	6.8	6.8	6.0	6.2	4 mg/l or more
3	pH	7.73	7.82	7.68	6.64	6.88	6.50	7.09	7.42	7.88	7.80	7.71	7.74	6.5 - 8.5
4	Conductivity(µs/cm)	61520.0	60910.0	64600.0	607.35	207.2	59150.0	25640.0	31060.0	45770.0	47890.0	55640.0	57450.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.0	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.15	BDL	0.12	0.13	0.1	0.1	0.10	0.10	BDL	BDL	BDL	0.53	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	0.047	0.05	0.059	0.016	BDL	BDL	0.024	BDL	BDL	BDL	0.02	
8	Total Coliform(MPN/100ml)	170	230	490	490	460	330	790	1100	270	270	1300	790	
9	Fecal Coliform(MPN/100ml)	110	130	140	230	210	170	490	790	220	170	790	490	100 or less MPN/100 ml
10	Fecal Streptococci(MPN/100ml)	-	-	-	13	>1601	211	>1601	921	78	221	211	241	
11	Turbidity(NTU)	2.32	6.46	11.94	30.9	60.4	19.53	6.11	3.11	3.09	3.37	3.90	6.91	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	12.0	8.0	8.0	BDL	BDL	BDL	BDL	BDL	6.0	10.0	8.0	10.0	
13	Total Alkalinity(mg/l)	108.0	110.0	94.0	34.0	32.0	14.0	76.0	86.0	100.0	112.0	122.0	112.0	
14	Chlorides(mg/l)	18334.0	16998.28	13550.80	153.30	36.5	1773.90	12515.9	10840.6	15571.1	16144.0	16744.8	17345.1	
15	COD(mg/l)	-	-	-	10.0	7.0	9.0	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	5.94	-	-	-	-	-	7.84	-	-	-	42.0	98.1	
17	Ammonia (mg/l)	0.10	0.100	0.07	0.06	BDL	0.22	BDL	0.30	0.07	BDL	0.05	BDL	
18	Total Hardness(mg/l)	5000.0	9000.0	7800.0	86.0	32.0	504.0	13200.0	600.0	3200.0	5400.0	5800.0	6000.0	
19	Calcium(mg/l)	400.8	1500.0	1200.0	8.0	3.2	38.5	320.6	160.3	481.0	401.0	400.8	1402.8	
20	Magnesium(mg/l)	972.0	1825.5	1603.8	16.0	5.8	99.1	3031.2	48.6	486.0	1069.0	1166.4	607.5	
21	Sulphate(mg/l)	2978.0	6260.68	4682.20	65.60	9.35	19.90	3286.50	650.70	2042.20	1623.00	1649.70	79.4	
22	Sodium(mg/l)	3920.0	-	-	-	-	-	3190.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	43064.0	35849.0	41244.0	376.0	131.0	36673.0	15640.0	19257.0	28835.0	28734.0	33896.0	32172.0	
24	Total Fixed Solids(mg/l)	17226.0	25308.0	23467.0	195.0	73.0	25167.0	10148.0	11902.0	19031.0	11246.0	20850.0	29652.0	
25	Total Suspended Solids(mg/l)	63.0	73.0	46.0	33.0	21.0	42.0	45.0	36.0	37.0	26.0	86.0	10.0	
26	Phosphate(mg/l)	0.039	0.055	0.49	0.78	BDL	0.03	0.05	0.04	0.02	0.03	BDL	0.03	
27	Boron(mg/l)	0.84	-	-	-	-	-	0.90	-	-	-	-	-	
28	Potassium(mg/l)	260.0	-	-	-	-	-	121.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	BDL	0.38	0.2	0.78	0.56	0.66	0.4	0.93	BDL	BDL	0.80	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.018	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.162	-	-	-	-	-	
33	Lead(mg/l)	0.121	-	-	-	-	-	0.065	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.252	-	-	-	-	-	0.447	-	-	-	-	-	
36	Zinc(mg/l)	0.122	-	-	-	-	-	0.206	-	-	-	-	-	
37	IronTotal(mg/l)	0.263	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**RIVER CHAPORA NEAR SIOLIM BRIDGE 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30°C	32	28	28	26	30	29	30	29	28	29	28	
2	Dissolved Oxygen(mg/l)	6.0	6.0	5.9	6.6	7.2	7.3	7.0	7.4	6.6	7.2	6.6	5.8	4 mg/l or more
3	pH	7.59	7.85	7.66	6.72	7.75	6.70	7.58	7.62	7.69	7.62	7.86	7.82	6.5 - 8.5
4	Conductivity(µs/cm)	41770.0	50220.0	43690.0	329.11	126.3	832.23	28630.0	38790.0	36610.0	36370.0	53110.0	55690.0	
5	BOD(mg/l)	BDL	2.0	BDL	BDL	BDL	BDL	BDL	2.0	2.0	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.13	BDL	0.51	0.43	0.23	0.19	0.15	0.15	BDL	0.11	0.11	0.54	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.056	0.030	0.125	0.006	BDL	BDL	BDL	0.055	BDL	BDL	BDL	0.005	
8	Total Coliform(MPN/100ml)	780	1100	2300	2300	2200	2100	3300	2700	790	1300	790	1300	
9	Fecal Coliform(MPN/100ml)	450	680	1300	1300	1100	1100	2300	1700	490	330	490	790	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	95	>1601	351	241	>1601	351	171	431	59	
11	Turbidity(NTU)	BDL	17.10	6.17	16.80	43.32	14.67	5.34	2.82	3.21	2.49	2.36	4.58	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	4.0	BDL	BDL	BDL	BDL	BDL	4.0	BDL	2.0	10.0	14.0	10.0	
13	Total Alkalinity(mg/l)	96.0	100.0	108.0	32.0	32.0	30.0	80.0	102.0	92.0	84.0	76.0	110.0	
14	Chlorides(mg/l)	10077.0	18333.85	1478.3	69.0	22.7	2.0	9362.4	15176.9	12688.4	10029.0	15745.1	17594.7	
15	COD(mg/l)	-	-	6.0	7.0	5.0	7.0	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	4.93	-	-	-	-	-	8.96	-	-	-	56.0	56.0	
17	Ammonia (mg/l)	BDL	0.093	BDL	0.06	BDL	0.18	0.14	0.31	0.29	BDL	0.26	0.06	
18	Total Hardness(mg/l)	7400.0	10000.0	106.0	40.0	18.0	72.0	4000.0	1800.0	2000.0	2800.0	5200.0	5000.0	
19	Calcium(mg/l)	481.0	5000.0	14.0	4.0	4.0	6.4	320.6	240.5	601.2	481.0	641.3	1202.8	
20	Magnesium(mg/l)	1507.0	1215.0	22.4	7.3	BDL	13.6	777.6	291.6	121.5	389.0	874.8	486.0	
21	Sulphate(mg/l)	1947.0	5236.46	254.2	22.9	6.92	46.5	1478.8	1030.1	1238.3	1017.0	2468.4	611.0	
22	Sodium(mg/l)	5300.0	-	-	-	-	-	4660.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	29239.0	29352.0	27088.0	207.0	77.0	524.0	17178.0	24437.0	22413.0	21822.0	31702.0	33414.0	
24	Total Fixed Solids(mg/l)	11695.0	23557.0	19164.0	129.0	41.0	351.0	11509.0	15617.0	15240.0	9827.0	19539.0	30852.0	
25	Total Suspended Solids(mg/l)	55.0	82.0	21.0	15.0	15.0	29.0	32.0	25.0	26.0	22.0	56.0	8.0	
26	Phosphate(mg/l)	0.08	0.048	0.33	0.35	BDL	0.02	0.06	0.06	0.03	0.04	0.02	0.07	
27	Boron(mg/l)	0.62	-	-	-	-	-	0.84	-	-	-	-	-	
28	Potassium(mg/l)	310.0	-	-	-	-	-	134.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	0.267	0.44	0.28	0.15	BDL	1.12	0.57	0.85	BDL	0.29	0.82	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.270	-	-	-	-	-	
33	Lead(mg/l)	0.098	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.216	-	-	-	-	-	0.150	-	-	-	-	-	
36	Zinc(mg/l)	0.147	-	-	-	-	-	0.082	-	-	-	-	-	
37	IronTotal(mg/l)	0.137	-	-	-	-	-	0.130	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

RIVER SINQUERIM, CANDOLIM SIDE 2020-2021														
Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29°C	30	30	29	26	30	30	29	30	28	29	32	
2	Dissolved Oxygen(mg/l)	4.5	4.7	5.4	7.2	7.5	6.0	4.9	5.4	5.1	4.1	5.4	5.0	4 mg/l or more
3	pH	6.89	7.68	7.60	7.60	7.20	7.50	7.40	7.60	7.30	7.76	7.42	6.62	6.5 - 8.5
4	Conductivity(µs/cm)	60360.0	62100.0	52960.0	11110.0	722.09	27850.0	40500.0	50390.0	52520.0	51070.0	53210.0	55600.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.0	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.19	0.65	0.75	0.39	1.02	1.60	1.22	1.35	0.23	0.572	0.11	0.17	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.005	0.03	0.03	0.01	0.011	0.065	0.005	0.007	BDL	0.050	BDL	0.010	
8	Total Coliform(MPN/100ml)	1300	490	2800	2300	2100	1700	3300	2300	3300	2700	230	490	
9	Fecal Coliform(MPN/100ml)	780	330	2200	1300	1400	1100	2300	1300	1300	1700	130	230	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	281	431	>1601	211	95	49	171	121	48	
11	Turbidity(NTU)	8.99	7.51	4.98	13.8	23.7	30.0	4.90	6.67	5.53	7.70	5.40	13.02	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.0	BDL	12.0	6.0	BDL	
13	Total Alkalinity(mg/l)	130.0	136.0	112.0	44.0	32.0	80.0	94.0	110.0	114.0	100.0	114.0	126.0	
14	Chlorides(mg/l)	20993.5	18994.0	19062.0	8451.0	243.0	8644.0	15056.0	15663.0	17719.5	18712.28	17494.6	16829.0	
15	COD(mg/l)	-	-	-	-	6.0	-	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	6.44	-	-	-	-	-	14	-	-	-	57.4	14.01	
17	Ammonia (mg/l)	0.200	0.120	BDL	BDL	0.090	0.11	BDL	BDL	0.06	BDL	0.09	BDL	
18	Total Hardness(mg/l)	6200.0	5600.0	6200.0	1080.0	76.0	2840.0	5000.0	5280.0	4000.0	4800.0	4600.0	6200.0	
19	Calcium(mg/l)	561.12	240.5	401.0	80.0	9.0	224.0	401.0	409.0	1002.0	961.9	480.9	601.0	
20	Magnesium(mg/l)	1166.4	1215.0	1264.0	214.0	13.0	554.0	972.0	1035.0	364.5	932.66	826.2	1142.0	
21	Sulphate(mg/l)	1410.3	1424.5	1498.0	622.0	37.0	837.0	1341.0	1650.0	1213.0	2244.38	1527.5	2612.0	
22	Sodium(mg/l)	3220.0	-	-	-	-	-	7950.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	34646.0	36660.0	37072.0	7777.0	505.0	19495.0	28350.0	35273.0	30987.0	29487.0	31589.0	33360.0	
24	Total Fixed Solids(mg/l)	33540.0	34662.0	22243.0	3110.0	300.0	11697.0	17010.0	21163.0	24322.0	16220.0	18926.0	18945.0	
25	Total Suspended Solids(mg/l)	58.0	70.0	64.0	53.0	34.0	68.0	52.0	91.0	11.0	43.0	76.0	30.0	
26	Phosphate(mg/l)	0.084	0.09	0.12	0.12	0.08	0.25	0.03	0.05	0.085	0.082	0.03	0.03	
27	Boron(mg/l)	0.72	-	-	-	-	-	0.88	-	-	-	-	-	
28	Potassium(mg/l)	250.0	-	-	-	-	-	184.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	1.0	1.23	0.82	0.21	1.29	2.89	1.12	0.53	0.21	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.042	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.048	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.262	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.172	-	-	-	-	-	0.097	-	-	-	-	-	
37	IronTotal(mg/l)	0.406	-	-	-	-	-	0.105	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

RIVER SINQUERIM, NEAR GANPATI TEMPLE 2020-2021														
Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	30	30	29	26	30	30	29	30	28	29	32	
2	Dissolved Oxygen(mg/l)	4.7	6.5	5.2	7.1	7.2	6.2	5.9	5.5	4.9	4.3	5.8	5.1	4 mg/l or more
3	pH	6.92	7.78	7.60	7.60	7.40	7.40	7.40	7.7	7.39	7.71	7.45	6.62	6.5 - 8.5
4	Conductivity(µs/cm)	60260	63430	53480.0	13010.0	830.37	35060.0	39610.0	51460.0	52680.0	50180.0	52770.0	55350.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.1	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.21	0.98	0.65	0.40	1.43	0.44	0.58	0.64	BDL	0.559	0.11	0.18	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	0.03	0.03	0.01	0.032	0.012	0.007	0.01	BDL	0.053	BDL	0.008	
8	Total Coliform(MPN/100ml)	1100	790	1700	3400	2600	2100	2700	2200	2700	4900	45	220	
9	Fecal Coliform(MPN/100ml)	450	490	1400	2700	2100	1700	2200	1700	1400	2300	20	130	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	131	541	>1601	121	241	141	131	171	39	
11	Turbidity(NTU)	6.06	6.48	5.48	14.17	24.4	14.73	4.54	12.41	4.5	3.21	7.67	15.31	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.0	BDL	12.0	8.0	BDL	
13	Total Alkalinity(mg/l)	128.0	120.0	116.0	48.0	34.0	76.0	94.0	108.0	120.0	110.0	114.0	128.0	
14	Chlorides(mg/l)	21993.2	19244.0	18819.0	3643.0	243.0	9519.0	13720.0	16270.0	17095.5	18589.98	17994.4	16878.0	
15	COD(mg/l)	-	-	-	-	6.0	-	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	5.32	-	-	-	-	-	10.08	-	-	-	-	42.0	9.81
17	Ammonia (mg/l)	0.165	0.12	BDL	BDL	BDL	0.15	0.06	0.09	0.11	BDL	0.11	BDL	
18	Total Hardness(mg/l)	7000.0	6000.0	6400.0	1360.0	82.0	3360.0	4800.0	5160.0	2500.0	5000.0	4800.0	6200.0	
19	Calcium(mg/l)	641.30	400.8	802.0	144.0	10.0	224.0	401.0	449.0	802.0	1042.1	561.1	561.0	
20	Magnesium(mg/l)	1312.2	1215.0	1069.0	243.0	14.0	680.0	923.0	982.0	121.5	961.77	826.2	1166.0	
21	Sulphate(mg/l)	1666.7	1552.7	1397.0	507.0	37.0	900.0	1648.0	1127.0	1096.0	1923.75	1289.2	2476.0	
22	Sodium(mg/l)	2140.0	-	-	-	-	-	7550.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	35571.0	37499.0	37436.0	9107.0	581.0	24542.0	27727.0	36022.0	29500.0	29278.0	31059.0	32586.0	
24	Total Fixed Solids(mg/l)	33564.0	35504.0	22462.0	3642.0	348.0	14725.0	16636.0	21613.0	23388.0	16323.0	17854.0	17486.0	
25	Total Suspended Solids(mg/l)	60.0	71.0	77.0	44.0	59.0	73.0	56.0	90.0	10.0	40.0	70.0	38.0	
26	Phosphate(mg/l)	0.113	0.11	0.06	0.10	0.07	0.11	0.02	0.08	0.20	0.044	0.020	0.030	
27	Boron(mg/l)	0.54	-	-	-	-	-	0.78	-	-	-	-	-	
28	Potassium(mg/l)	190.0	-	-	-	-	-	199.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	0.98	1.19	0.86	0.31	1.53	2.98	1.11	0.70	0.20	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.043	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.046	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.094	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.226	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.143	-	-	-	-	-	0.102	-	-	-	-	-	
37	IronTotal(mg/l)	0.46	-	-	-	-	-	0.164	-	-	-	-	-	
38	Carbaryl (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	

**RIVER MANDOVI AT IFFI JETTY 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	31	30	29	29	30	30	29	28	29	31	32	
2	Dissolved Oxygen(mg/l)	6.1	5.9	4.8	7.0	7.2	7.0	6.5	5.0	6.0	6.6	6.7	6.6	4 mg/l or more
3	pH	7.98	7.88	7.63	7.10	7.10	7.06	7.49	7.74	7.80	7.69	7.96	7.84	6.5 - 8.5
4	Conductivity(us/cm)	63370.0	62850.0	57100.0	8123.0	2696.1	13070.0	40000.0	48650.0	56150.0	57060.0	54740.0	57820.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.28	0.23	0.4	0.10	0.1	0.1	0.12	0.13	0.10	0.22	0.15	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	0.02	0.024	0.009	BDL	BDL	0.007	0.005	BDL	0.015	BDL	0.02	
8	Total Coliform(MPN/100ml)	170	110	140	220	240	140	220	240	140	13	210	170	
9	Fecal Coliform(MPN/100ml)	92	68	94	94	91	79	94	79	94	7.8	140	140	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	281	>1601	221	>1601	921	48	111	95	80	
11	Turbidity(NTU)	4.45	9.23	2.13	7.81	8.11	4.26	3.96	2.95	2.39	3.09	2.55	1.85	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	18.0	6.0	12.0	BDL	BDL	BDL	6.0	10.0	18.0	8.0	6.0	8.0	
13	Total Alkalinity(mg/l)	112.0	134.0	124.0	60.0	36.0	54.0	96.0	112.0	96.0	120.0	112.0	118.0	
14	Chlorides(mg/l)	19463.8	18345	19446.0	12934.8	1231.9	6060.9	14166.7	18231.9	17615.9	18494.0	17719.5	17745.0	
15	COD(mg/l)	-	-	-	-	15.0	-	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	3.92	-	-	-	-	-	10.08	-	-	-	28.0	3.9	
17	Ammonia (mg/l)	0.06	0.10	0.8	0.13	BDL	0.08	BDL	0.10	BDL	0.12	BDL	0.13	
18	Total Hardness(mg/l)	7000.0	8000.0	6600.0	4500.0	300.0	1400.0	1400.0	6100.0	4000.0	5800.0	3000.0	6400.0	
19	Calcium(mg/l)	4000.0	721.0	481.0	1202.4	24.0	120.2	320.6	521.0	801.6	881.8	561.1	1042.1	
20	Magnesium(mg/l)	729.0	1507.0	1312.2	364.5	58.2	267.3	145.8	1166.4	486.0	874.8	388.8	1020.6	
21	Sulphate(mg/l)	4672.4	1102.0	3042.2	724.9	59.2	564.4	1986.4	2507.1	1859.3	2431.0	2387.79	2536.00	
22	Sodium(mg/l)	4520.0	-	-	-	-	-	6750.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	38022.0	36852.0	39373.0	4956.0	1644.0	7842.0	24000.0	30275.0	33506.0	35928.0	29723.0	34128.0	
24	Total Fixed Solids(mg/l)	21894.0	21248.0	26373.0	3086.0	983.0	5489.0	15065.0	19246.0	22053.0	33928.0	26985.0	32130.0	
25	Total Suspended Solids(mg/l)	48.0	43.0	28.0	52.0	39.0	36.0	51.0	41.0	38.0	90.0	4.0	90.0	
26	Phosphate(mg/l)	0.09	0.06	0.18	0.13	BDL	BDL	0.06	0.07	0.04	0.07	0.02	0.07	
27	Boron(mg/l)	0.81	-	-	-	-	-	0.92	-	-	-	-	-	
28	Potassium(mg/l)	468.0	-	-	-	-	-	195.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	0.37	1.2	1.26	0.37	0.85	0.76	0.91	1.21	1.11	1.33	0.50	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.141	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.035	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.143	-	-	-	-	-	0.256	-	-	-	-	-	
36	Zinc(mg/l)	0.172	-	-	-	-	-	0.095	-	-	-	-	-	
37	IronTotal(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	



**RIVER MANDOVI NEAR HOTEL MARIOTT 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	31	30	29	29	30	30	29	28	29	31	32	
2	Dissolved Oxygen(mg/l)	5.9	5.9	4.6	7.4	6.6	6.4	6.3	5.1	5.6	6.4	6.9	6.4	4 mg/l or more
3	pH	7.95	7.84	7.66	7.16	7.20	7.58	7.51	7.76	7.84	7.81	8.01	7.81	6.5 - 8.5
4	Conductivity(µs/cm)	64350.0	63030.0	57160.0	10330.0	1841.0	37000.0	45870.0	54530.0	56360.0	56990.0	54570.0	57360.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.23	0.11	0.1	BDL	0.1	0.1	0.11	0.10	0.10	0.22	0.17	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.005	0.15	0.027	0.007	BDL	BDL	0.007	BDL	BDL	0.016	BDL	0.02	
8	Total Coliform(MPN/100ml)	170	140	170	210	170	210	170	130	170	230	130	220	
9	Fecal Coliform(MPN/100ml)	83	78	84	91	84	93	94	79	94	130	78	170	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	50	1601	>1601	171	35	14	171	211	71	
11	Turbidity(NTU)	4.0	9.97	2.40	12.69	7.80	3.86	2.77	1.58	2.39	3.16	2.04	2.60	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	20.0	6.0	10.0	BDL	BDL	4.0	8.0	20.0	14.0	8.0	10.0	8.0	
13	Total Alkalinity(mg/l)	110.0	134.0	124.0	66.0	38.0	90.0	96.0	102.0	72.0	118.0	110.0	116.0	
14	Chlorides(mg/l)	18724.7	18345	19323.0	12811.6	1601.5	2956.5	16507.3	18478.3	17739.2	18744.0	17969.0	17995.0	
15	COD(mg/l)	-	-	-	-	13.0	-	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	3.58	-	-	-	-	-	12.32	-	-	-	28.0	3.4	
17	Ammonia (mg/l)	0.22	0.15	0.11	0.15	BDL	BDL	0.07	BDL	BDL	0.13	BDL	0.14	
18	Total Hardness(mg/l)	21000.0	8400.0	7000.0	4500.0	130.0	4000.0	2800.0	6200.0	6000.0	6000.0	4000.0	6800.0	
19	Calcium(mg/l)	3000.0	641.0	240.5	601.2	8.8	400.8	481.0	1202.4	601.2	962.0	881.8	1122.2	
20	Magnesium(mg/l)	4374.0	1652.0	1555.2	729.0	26.2	729.0	388.8	777.6	1093.5	874.0	437.4	1069.2	
21	Sulphate(mg/l)	4914.5	1109.0	3329.2	560.9	43.6	1401.0	2345.5	3313.9	1030.1	2526.0	2395.12	2593.00	
22	Sodium(mg/l)	630.0	-	-	-	-	-	7760.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	39897.0	36849.0	35699.0	6611.0	1160.0	22570.0	28439.0	33263.0	34379.0	34454.0	29728.0	33854.0	
24	Total Fixed Solids(mg/l)	23467.0	21587.0	24499.0	4156.0	695.0	14896.0	17523.0	21217.0	22691.0	32449.0	26951.0	31862.0	
25	Total Suspended Solids(mg/l)	61.0	42.0	24.0	68.0	32.0	45.0	59.0	35.0	43.0	95.0	4.0	95.0	
26	Phosphate(mg/l)	0.06	0.06	0.09	0.09	0.04	0.05	0.07	0.05	0.06	0.07	0.06	0.08	
27	Boron(mg/l)	0.76	-	-	-	-	-	0.88	-	-	-	-	-	
28	Potassium(mg/l)	462.0	-	-	-	-	-	210.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	0.36	1.2	1.32	0.49	1.37	0.98	0.89	1.0	1.16	1.14	0.52	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.175	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	BDL	-	-	-	-	-	0.138	-	-	-	-	-	
36	Zinc(mg/l)	0.149	-	-	-	-	-	0.088	-	-	-	-	-	
37	IronTotal(mg/l)	0.415	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

RIVER MANDOVI AT AMONA 2020-2021														
Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	31	30	28	26	28	28	29	29	28	28	30	
2	Dissolved Oxygen(mg/l)	5.1	5.3	4.5	6.5	7.5	7.2	6.4	5.3	6.6	5.8	7.1	5.5	4 mg/l or more
3	pH	7.10	7.30	6.79	6.60	6.45	6.68	6.52	6.88	6.85	6.93	7.09	7.07	6.5 - 8.5
4	Conductivity(µs/cm)	43330.0	42550.0	28590.0	27.1	131.98	126.11	148.90	9267.00	18550.0	25560.0	27580.0	33540.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.5	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.2077	0.19	0.739	0.211	0.69	BDL	0.30	0.12	0.15	0.19	0.24	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.112	0.236	0.023	0.0091	BDL	BDL	0.037	BDL	BDL	BDL	BDL	0.074	
8	Total Coliform(MPN/100ml)	1700	1400	1400	1400	1200	1200	1400	1100	1700	1300	3500	230	
9	Fecal Coliform(MPN/100ml)	1100	780	930	940	940	840	1100	790	1100	790	1700	130	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	95	71	42	-	171	121	85	50	241	
11	Turbidity(NTU)	2.3	6.47	4.86	50.0	16.19	3.75	19.64	4.31	5.30	2.57	2.62	3.56	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	98.0	94.0	64.0	24.0	20.0	26.0	28.0	40.0	60.0	66.0	36.0	90.0	
14	Chlorides(mg/l)	13208.67	12263	10441.0	15.17	25.44	122.30	27.88	2500.00	6248.00	8928.00	10747.0	17978.47	
15	COD(mg/l)	-	-	-	16.0	6.0	6.0	6.0	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	4.03	-	-	-	-	-	8.96	-	-	-	154.0	5.04	
17	Ammonia (mg/l)	BDL	BDL	0.080	BDL	BDL	BDL	BDL	0.07	0.06	BDL	BDL	BDL	
18	Total Hardness(mg/l)	5500.0	4200.0	5000.0	30.0	28.0	30.0	28.0	370.0	2200.0	1900.0	4000.0	7000.0	
19	Calcium(mg/l)	200.4	321	2500.0	14.0	4.0	12.0	6.4	33.7	352.7	224.0	321.0	1002.0	
20	Magnesium(mg/l)	1215.0	826.0	607.5	3.89	5.83	6.3	5.25	70.0	320.8	326.0	777.6	1457.51	
21	Sulphate(mg/l)	1889.28	870.0	569.80	16.83	18.67	6.9	2.73	29.0	124.0	269.0	4848.0	1013.33	
22	Sodium(mg/l)	30.0	-	-	-	-	-	19.1	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	28597.0	33362.0	17154.0	16.2	83.0	78.6	91.0	5090.0	10195.0	15330.0	16546.0	19548.0	
24	Total Fixed Solids(mg/l)	19654.0	11914.0	9283.0	9.0	49.0	35.0	52.0	4891.0	9083.0	7640.0	15448.0	8000.0	
25	Total Suspended Solids(mg/l)	54.0	16.0	62.0	12.0	25.0	11.0	18.0	42.0	58.0	45.0	79.0	20.0	
26	Phosphate(mg/l)	0.10	0.027	0.057	0.075	0.035	0.030	0.035	0.34	BDL	BDL	0.05	0.02	
27	Boron(mg/l)	0.68	-	-	-	-	-	0.50	-	-	-	-	-	
28	Potassium(mg/l)	1.5	-	-	-	-	-	1.8	-	-	-	-	-	
29	Flouride(mg/l)	1.59	BDL	0.564	BDL	BDL	BDL	BDL	BDL	0.97	0.532	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.031	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.039	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.272	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.141	-	-	-	-	-	0.032	-	-	-	-	-	
37	IronTotal(mg/l)	0.456	-	-	-	-	-	0.284	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	0.011	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**RAIA LAKE 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	30	27	29	26	28	29	29	30	29	29	31	
2	Dissolved Oxygen mg/l	8.0	7.1	4.9	6.2	6.2	6.8	6.9	4.4	4.8	4.8	2.8	3.1	4 mg/l or more
3	pH	7.55	6.54	6.73	6.24	6.88	6.61	6.53	6.13	6.15	6.92	6.89	6.62	6-9
4	Conductivity(µs/cm)	156.84	220.23	267.65	28.12	80.02	88.75	76.92	92.04	94.13	176.43	177.51	131.98	
5	BOD(mg/l) mg/l	BDL	2.1	3.7	BDL	BDL	2.1	BDL	BDL	2.3	BDL	3.4	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.11	1.37	4.77	0.28	0.31	BDL	BDL	BDL	0.17	BDL	BDL	0.27	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.009	0.123	0.01	BDL	BDL	BDL	0.007	BDL	0.046	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	3300	2300	4900	3300	2700	2600	4900	4600	4900	3300	68	2300	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	1700	1300	1700	2300	1700	1700	2200	3300	2300	1300	45	1300	
10	Fecal Streptococci MPN/100ml	-	-	-	10.2	71	41	16	95	94	111	39	24	
11	Turbidity(NTU)	35.2	75.4	128	2.6	1.85	2.46	2.44	1.96	2.05	4.62	5.08	5.39	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	36.0	28.0	38.0	30.0	30.0	34.0	38.0	34.0	44.0	34.0	42.0	40.0	
14	Chloride mg/l	23.0	35.5	27.0	10.0	9.0	9.0	9.0	8.0	10.0	4.0	12.0	12.0	
15	COD(mg/l)	6.0	12.0	8.0	6.0	10.0	8.0	10.0	10.0	10.0	10.0	12.0	6.0	
16	Total Kjeldhal Nitrogen(mg/l)	3.42	-	-	-	-	-	6.72	-	-	-	56.0	42.0	
17	Ammonia mg/l	0.2563	2.05	1.97	0.05	0.12	0.17	0.21	0.03	0.06	0.14	0.05	0.09	
18	Hardness(mg/l)	40.0	30.0	50.0	36.0	32.0	18.0	46.0	50.0	26.0	28.0	48.0	30.0	
19	Calcium(mg/l)	6.0	8.0	8.0	3.0	3.0	6.0	6.0	5.0	8.0	6.41	9.0	6.40	
20	Magnesium(mg/l)	6.0	5.3	7.0	7.0	6.0	BDL	8.0	9.0	BDL	2.9	6.0	3.4	
21	Sulphate(mg/l)	17.0	8.56	121.00	8.00	5.00	3.00	2.00	3.00	5.00	8.41	4.0	BDL	
22	Sodium(mg/l)	11.0	-	-	-	-	-	7.7	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	94.0	138.0	169.0	18.0	48.0	55.0	49.0	60.0	58.0	113.0	106.0	74.0	
24	Total Fixed Solids(mg/l)	33.0	72.0	89.0	9.0	16.0	19.0	19.0	28.0	23.0	105.0	51.0	59.0	
25	Total Suspended Solid(mg/l)	55.0	41.0	89.0	36.0	19.0	16.0	15.0	15.0	19.0	23.0	35.0	10.0	
26	Phosphate(mg/l)	0.11	0.19	0.25	0.04	0.14	0.02	0.04	0.08	0.07	0.06	0.06	0.02	
27	Boron(mg/l)	0.72	-	-	-	-	-	0.50	-	-	-	-	-	
28	Potassium(mg/l)	0.8	-	-	-	-	-	1.3	-	-	-	-	-	
29	Fluoride(mg/l)	0.72	1.38	0.67	0.34	BDL	0.25	BDL	BDL	BDL	BDL	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
33	Lead(mg/l)	0.042	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.261	-	-	-	-	-	0.082	-	-	-	-	-	
36	Zinc(mg/l)	0.115	-	-	-	-	-	0.018	-	-	-	-	-	
37	IronTotal(mg/l)	0.563	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**SAIPEM LAKE, NAVELIM 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C			28	29	28	29	28	30		30	30	29	
2	Dissolved Oxygen mg/l			4.1	4.2	5.8	5.7	5.2	4.9		4.0	4.9	3.0	4 mg/l or more
3	pH			7.0	7.0	7.34	7.11	7.21	7.23		7.80	7.38	6.55	6-9
4	Conductivity(µs/cm)			358.26	300.76	176.76	278.2	291.1	299.0		280.9	463.63	210.0	
5	BOD(mg/l) mg/l			5.0	BDL	2.7	BDL	2.5	BDL		6.0	2.5	4.6	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)			1.05	0.98	1.44	0.31	1.43	2.35		0.99	0.15	0.36	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l			0.86	0.18	0.06	0.32	0.34	0.24		BDL	0.06	0.756	
8	Total Coliform(MPN/100ml)			7900	11000	8400	8400	4900	7000		7900	1400	2700	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)			3300	7000	4600	4300	3300	4900		4900	230	1700	
10	Fecal Streptococci MPN/100ml			-	>1601	241	351	281	171		211	80	85	
11	Turbidity(NTU)			54.40	14.37	8.15	13.92	14.02	29.70		7.46	9.64	30.5	
12	Phenolphthalein Alkalinity(mg/l)			BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	
13	Total Alkalinity(mg/l)			40.0	40.0	46.0	76.0	96.0	100.0		72.0	158	116.0	
14	Chloride mg/l			110	26.0	18.5	50	27.0	29.0		56.8	77.4	26.0	
15	COD(mg/l)			20.0	4.0	8.0	8.0	10.0	12.0		20.0	8.0	14.0	
16	Ammonia mg/l			0.63	0.38	-	-	10.08	-		-	42.0	14.01	
17	Total Kjeldhal Nitrogen(mg/l)			-	-	0.23	0.17	0.26	0.27		BDL	BDL	BDL	
18	Hardness(mg/l)			98.0	74.0	66.0	88.0	66.0	68.0		98.0	108	112.0	
19	Calcium(mg/l)			19.24	21.64	23.25	22.44	5.61	6.41		36.1	41.7	39.0	
20	Magnesium(mg/l)			12.2	BDL	BDL	7.8	12.6	12.6		BDL	BDL	4.0	
21	Sulphate(mg/l)			44.0	44.4	18.32	40.7	11.70	12.37		10.7	14.86	13.0	
22	Sodium(mg/l)			-	-	-	-	24.5	-		-	-	-	
23	Total Dissolved Solids(mg/l)			213.0	178.0	103.0	165.0	172.0	165.0		177.0	278.0	132.0	
24	Total Fixed Solids(mg/l)			184.0	171.0	89.0	150.0	150.0	150.0		124.0	141.0	70.0	
25	Total Suspended Solid(mg/l)			30.0	41.0	34.0	42.0	45.0	52.0		28.0	14.0	34.0	
26	Phosphate(mg/l)	Dry	Dry	0.41	0.26	0.17	0.22	0.14	0.16	Dry	0.37	0.09	0.08	
27	Boron(mg/l)			-	-	-	-	0.76	-		-	-	-	
28	Potassium(mg/l)			-	-	-	-	2.8	-		-	-	-	
29	Fluoride(mg/l)			0.20	BDL	1.00	1.07	1.0	1.0		BDL	1.5	0.20	
30	Arsenic(mg/l)			-	-	-	-	BDL	-		-	-	-	
31	Cadmium(mg/l)			-	-	-	-	BDL	-		-	-	-	
32	Copper(mg/l)			-	-	-	-	0.012	-		-	-	-	
33	Lead(mg/l)			-	-	-	-	0.037	-		-	-	-	
34	Chromium(mg/l)			-	-	-	-	BDL	-		-	-	-	
35	Nickel(mg/l)			-	-	-	-	BDL	-		-	-	-	
36	Zinc(mg/l)			-	-	-	-	0.023	-		-	-	-	
37	Iron Total(mg/l)			-	-	-	-	0.082	-		-	-	-	
38	Carbaryl (mg/L)			-	-	-	-	BDL	-		-	-	-	
39	DDT-o,p' (mg/L)			-	-	-	-	BDL	-		-	-	-	
40	DDT-p,p' (mg/L)			-	-	-	-	BDL	-		-	-	-	
41	alpha Endosulfan(mg/L)			-	-	-	-	BDL	-		-	-	-	
42	beta Endosulfan(mg/L)			-	-	-	-	BDL	-		-	-	-	
43	Anilofos (mg/L)			-	-	-	-	BDL	-		-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)			-	-	-	-	BDL	-		-	-	-	
45	Aldrin/Dieldrin (mg/L)			-	-	-	-	BDL	-		-	-	-	
46	Alpha HCH (mg/L)			-	-	-	-	BDL	-		-	-	-	
47	Beta HCH (mg/L)			-	-	-	-	BDL	-		-	-	-	
48	Chlorpyrifos (mg/L)			-	-	-	-	BDL	-		-	-	-	
49	Gamma-HCH (Lindane) (mg/L)			-	-	-	-	BDL	-		-	-	-	
50	Malathion (mg/L)			-	-	-	-	BDL	-		-	-	-	
51	Methyl parathion(mg/L)			-	-	-	-	BDL	-		-	-	-	

**CURTORIM LAKE, CURTORIM 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	30	27	29	26	28	29	28	29	29	29	31	
2	Dissolved Oxygen mg/l	8.7	3.2	3.3	6.9	7.2	4.1	4.1	1.6	5.2	6.7	4.5	4.1	4 mg/l or more
3	pH	7.54	6.59	6.85	6.14	6.82	6.45	6.50	6.09	6.28	6.85	6.73	6.01	6-9
4	Conductivity(µs/cm)	169.0	214.62	189.90	16.71	62.27	116.63	115.31	111.85	110.66	195.14	191.27	191.52	
5	BOD(mg/l)	4.4	3.0	6.2	3.5	2.0	2.0	2.9	6.0	2.7	BDL	2.9	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.13	1.25	1.95	1.02	0.86	BDL	BDL	BDL	0.12	BDL	BDL	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	0.138	0.01	0.05	0.05	0.006	0.01	BDL	BDL	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	2300	2300	3300	3200	2600	2600	4600	4900	4600	170	490	3300	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	1300	1300	2300	2200	1400	1100	2600	3300	3300	130	330	2300	
10	Fecal Streptococci(MPN/100ml)	-	-	-	541	>1601	351	431	>1601	131	921	34	1601	
11	Turbidity(NTU)	13.78	41.0	230	32.3	5.63	17.14	18.28	3.46	3.7	3.51	3.41	5.18	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	44.0	30.0	22.0	22.0	30.0	40.0	48.0	44.0	50.0	48.0	50.0	48.0	
14	Chloride mg/l	23.0	26.1	31	6.0	8.0	11	12.0	10.0	12.0	7.0	15.0	34.4	
15	COD(mg/l)	6.0	13.0	12.0	8.0	10.0	8.0	8.0	18.0	6.0	10.0	8.0	4.0	
16	Total Kjeldhal Nitrogen(mg/l)	3.81	-	-	-	-	-	6.16	-	-	-	64.0	28.0	
17	Ammonia mg/l	0.1089	2.80	1.06	BDL	0.05	BDL	0.08	BDL	0.06	BDL	0.05	BDL	
18	Hardness(mg/l)	46.0	30.0	32.0	16.0	24.0	14.0	46.0	52.0	36.0	40.0	56.0	36.0	
19	Calcium(mg/l)	9.0	4.0	7.0	3.0	6.0	5.0	9.0	6.0	11.0	7.21	8.0	7.2	
20	Magnesium(mg/l)	6.0	6.3	3.0	2.0	2.0	BDL	6.0	9.0	BDL	5.3	9.0	4.4	
21	Sulphate(mg/l)	14.0	17.6	44.0	11.0	7.0	6.0	BDL	BDL	4.0	3.46	3.0	BDL	
22	Sodium(mg/l)	16.0	-	-	-	-	-	10.1	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	106.0	127.0	120.0	12.0	30.0	70.0	72.0	72.0	67.0	123.0	115.0	115.0	
24	Total Fixed Solids(mg/l)	77.0	64.0	54.0	5.0	13.0	29.0	40.0	28.0	28.0	116.0	48.0	75.0	
25	Total Suspended Solid (mg/l)	41.0	50.0	112.0	78.0	39.0	20.0	22.0	31.0	24.0	14.0	33.0	10.0	
26	Phosphate(mg/l)	0.07	0.32	0.13	0.44	0.06	0.05	0.06	0.08	0.07	0.03	0.06	0.03	
27	Boron(mg/l)	0.84	-	-	-	-	-	0.72	-	-	-	-	-	
28	Potassium(mg/l)	4.1	-	-	-	-	-	2.7	-	-	-	-	-	
29	Fluoride(mg/l)	0.08	BDL	0.65	0.29	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.094	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.242	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.095	-	-	-	-	-	0.017	-	-	-	-	-	
37	IronTotal(mg/l)	0.256	-	-	-	-	-	0.059	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**RIVER ZUARI AT MADKAI JETTY 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	30	29	29	27	29	27	31	31	30	30	29	
2	Dissolved Oxygen(mg/l)	5.8	5.0	4.0	6.2	7.5	7.0	4.8	6.1	5.5	5.0	5.0	5.3	4 mg/l or more
3	pH	7.56	7.80	6.70	6.50	6.58	6.48	7.50	7.20	6.59	6.59	7.16	6.61	6.5 - 8.5
4	Conductivity(µs/cm)	60000.0	16420.0	18960.0	244.04	83.62	740.0	44500.0	36050.0	35140.0	35140.0	47790.0	30850.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.5	2.8	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.1	0.24	0.818	0.48	BDL	0.25	0.17	0.16	0.28	0.10	0.17	0.28	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.012	0.059	0.097	0.0497	BDL	0.010	BDL	0.024	0.02	BDL	0.046	0.06	
8	Total Coliform(MPN/100ml)	1700	1100	1700	1700	1400	1400	2200	2300	2300	1700	2200	1100	
9	Fecal Coliform(MPN/100ml)	1100	790	1100	1300	780	680	1300	1300	1300	490	1700	680	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	>1601	44	>1601	541	921	431	541	141	171	
11	Turbidity(NTU)	19.3	8.19	3.06	12.78	41.7	14.07	6.21	5.49	5.37	5.37	7.28	1.55	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	4.0	BDL	BDL	BDL	BDL	BDL	2.0	BDL	6.0	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	106.0	60.0	60.0	30.0	16.0	44.0	106.0	84.0	96	50.0	120	76.0	
14	Chlorides(mg/l)	18834.6	5498	6920.73	64.58	15.65	391.37	15177	11049.0	16721.2	3180	17856.1	5998.0	
15	COD(mg/l)	-	-	-	10.0	8.0	8.0	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	11.76	-	-	-	-	-	14	-	-	-	61.6	28.0	
17	Ammonia (mg/l)	0.05	0.06	BDL	BDL	BDL	BDL	BDL	0.16	BDL	0.05	BDL	0.05	
18	Total Hardness(mg/l)	5600	3980.0	2500.0	40.0	24.0	800.0	2800.0	3000.0	5000.0	640.0	6800	2000.0	
19	Calcium(mg/l)	1603.2	240.5	1500.0	10	12.0	600.0	320.0	481.0	962.0	112.0	1202.4	240.5	
20	Magnesium(mg/l)	388.8	821.5	243.0	7.29	2.92	48.60	486.00	437.00	632.0	87.0	1360.22	340.2	
21	Sulphate(mg/l)	2279.6	840.5	1841.37	7.99	7.24	633.27	1439	926.0	1624.0	139.0	4796.87	171.0	
22	Sodium(mg/l)	2900.0	-	-	-	-	-	9440	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	34055.0	9688.0	11376.0	146.4	52.0	469.0	31150.0	25228.0	23432.0	21084.0	27824.3	19688.0	
24	Total Fixed Solids(mg/l)	24995.0	8790.0	5316.0	111.0	35.0	219.0	18680.0	15136.0	20219.0	11584.0	14838.3	17691.0	
25	Total Suspended Solids(mg/l)	59.0	81.0	57.0	19.0	21.0	45.0	71.0	55.0	10.0	51.0	19.0	85.0	
26	Phosphate(mg/l)	0.303	BDL	0.116	0.108	0.080	0.12	0.03	0.08	0.08	0.05	0.081	0.05	
27	Boron(mg/l)	1.06	-	-	-	-	-	1.14	-	-	-	-	-	
28	Potassium(mg/l)	310.0	-	-	-	-	-	27.7	-	-	-	-	-	
29	Flouride(mg/l)	0.42	0.45	0.914	BDL	BDL	BDL	0.85	0.92	0.51	0.25	BDL	0.46	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.062	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	0.029	-	-	-	-	-	
35	Nickel(mg/l)	0.299	-	-	-	-	-	0.129	-	-	-	-	-	
36	Zinc(mg/l)	0.074	-	-	-	-	-	0.104	-	-	-	-	-	
37	IronTotal(mg/l)	0.136	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**RIVER ZUARI AT BORIM BRIDGE 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	30	30	28	28	29	28	28	29	29	30	29	
2	Dissolved Oxygen(mg/l)	4.8	3.8	4.5	6.3	7.0	6.5	6.1	5.5	5.7	6.7	5.0	5.4	4 mg/l or more
3	pH	6.90	7.10	6.71	6.32	6.50	6.30	6.74	6.90	6.71	6.71	6.76	6.87	6.5 - 8.5
4	Conductivity(µs/cm)	27940.0	37180.0	18590.0	295.01	196.39	735.5	11990.0	22030.0	21910.0	21910.0	24490.0	28650.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.7	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.14	0.34	0.541	0.498	BDL	0.31	0.171	0.14	BDL	BDL	0.13	0.52	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.055	0.176	0.107	0.0194	BDL	0.007	BDL	BDL	0.02	BDL	0.068	0.07	
8	Total Coliform(MPN/100ml)	220	490	490	920	680	780	1700	1700	2700	330	230	1700	
9	Fecal Coliform(MPN/100ml)	140	130	230	450	400	450	1100	1200	1700	170	130	1100	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	>1601	>1601	24	59	47	41	48	211	39	
11	Turbidity(NTU)	3.51	17.70	3.11	44.00	13.63	14.18	3.63	6.38	5.08	5.08	3.61	4.45	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	4.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	102.0	110.0	60.0	26.0	28.0	38.0	42.0	62.0	76.0	86.0	70.0	76.0	
14	Chlorides(mg/l)	19587.0	12746.0	7042.14	49.90	40.12	244.61	5014.0	6192.0	10232.4	9882.0	10640.32	10497.0	
15	COD(mg/l)	-	-	-	12.0	6.0	8.0	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	8.74	-	-	-	-	-	15.12	-	-	-	11.2	28.0	
17	Ammonia (mg/l)	0.07	BDL	BDL	BDL	BDL	BDL	BDL	0.18	BDL	BDL	BDL	0.05	
18	Total Hardness(mg/l)	10500.0	1200.0	3000.0	40.0	22.0	600.0	680.0	1980.0	17000.0	2800.0	2200.0	2400.0	
19	Calcium(mg/l)	1500.0	56.11	1000.0	16.0	10.0	400.0	20.0	320.0	4649.0	273.0	561.1	272.5	
20	Magnesium(mg/l)	2187.0	257.6	486.0	5.83	2.92	48.60	48.60	287.0	1312.0	515.0	398.25	418.0	
21	Sulphate(mg/l)	7037.0	128.2	2618.29	18.92	11.10	558.03	81.17	323.00	1045.40	804.00	2297.6	185.2	
22	Sodium(mg/l)	890.0	-	-	-	-	-	2020.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	17323.0	21937.0	11154.0	177.0	122.0	452.0	7170.0	15421.0	12998.0	13416.0	12047.0	16855.0	
24	Total Fixed Solids(mg/l)	11276.0	20922.0	5018.0	122.0	92.0	212.0	3595.0	9252.0	11000.0	7489.0	3042.0	14848.0	
25	Total Suspended Solids(mg/l)	43.0	65.0	55.0	24.0	35.0	41.0	27.0	45.00	12.00	44.00	12.00	60.00	
26	Phosphate(mg/l)	0.43	0.12	0.253	0.047	0.03	0.097	BDL	0.04	0.07	0.05	0.407	0.04	
27	Boron(mg/l)	0.97	-	-	-	-	-	1.08	-	-	-	-	-	
28	Potassium(mg/l)	20.0	-	-	-	-	-	54.6	-	-	-	-	-	
29	Flouride(mg/l)	BDL	0.73	0.764	BDL	BDL	BDL	BDL	0.87	0.90	0.25	BDL	0.73	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.011	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.020	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	0.020	-	-	-	-	-	
35	Nickel(mg/l)	0.245	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.076	-	-	-	-	-	0.034	-	-	-	-	-	
37	IronTotal(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**CARAMBOLIM LAKE 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	30	30	28	26	28	28	30	28	29	29	30	
2	Dissolved Oxygen mg/l	6.5	6.4	7.0	5.5	7.0	8.0	7.0	7.0	4.8	7.8	8.3	6.5	4 mg/l or more
3	pH	7.60	8.10	7.78	6.69	6.93	6.86	6.37	7.38	7.96	7.92	7.78	7.88	6-9
4	Conductivity(µs/cm)	238.85	395.11	220.58	34.10	104.55	120.31	131.10	155.00	224.00	234.26	220.00	232.26	
5	BOD(mg/l)	BDL	3.6	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	BDL	0.14	0.21	0.483	0.47	BDL	0.25	0.13	0.16	0.198	BDL	0.257	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	0.364	0.006	0.0293	BDL	BDL	0.021	0.008	0.008	0.006	BDL	BDL	
8	Total Coliform(MPN/100ml)	790	1300	2300	2300	1300	1400	2700	2500	2200	110	680	1400	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	490	780	1300	1300	1100	1100	1700	1700	1300	78	450	1100	
10	Fecal Streptococci(MPN/100ml)	-	-	-	541	7.8	14	26	41	18	64	47	131	
11	Turbidity(NTU)	3.82	6.63	5.55	7.03	11.76	3.69	4.66	5.02	6.78	4.68	6.48	4.83	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	66.0	60.0	68.0	30.0	30.0	34.0	50.0	68.0	58.0	6.0	62.0	70.0	
14	Chloride mg/l	48.92	49.0	58.50	10.76	10.76	9.78	10.76	12.00	29.50	29.00	650.0	11.25	
15	COD(mg/l)	12	10	10.0	8.0	8.0	6.0	4.0	8.0	8.0	8.0	8.0	8.0	
16	Total Kjeldhal Nitrogen(mg/l)	6.1	-	-	-	-	-	8.4	-	-	-	56.0	3.92	
17	Ammonia mg/l	BDL	BDL	0.274	0.06	0.14	BDL	BDL	0.13	0.07	BDL	0.19	BDL	
18	Hardness(mg/l)	130.0	68.0	90	30	32.0	34	66.0	92.0	48.0	50	58	68	
19	Calcium(mg/l)	16.8	18.0	24.0	26.0	9.6	18.0	16.0	17.6	13.6	17.0	17.64	8.30	
20	Magnesium(mg/l)	21.4	6.0	16.0	BDL	5.44	5.92	12.15	11.7	3.4	2.0	3.4	14.58	
21	Sulphate(mg/l)	5.6	4.0	461.54	6.67	6.24	6.21	31.35	2.3	3.65	12.00	8.83	2.27	
22	Sodium(mg/l)	255.0	-	132.0	-	-	-	10.9	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	157.0	276.0	48.8	20.46	67.0	72.0	80.0	85.0	128.0	140.0	132.0	137.0	
24	Total Fixed Solids(mg/l)	110.0	110.0	18.0	10.0	31.0	42.0	36.0	79.0	122.0	60.0	124.0	50.0	
25	Total Suspended Solid (mg/l)	21.0	14.0	-	14.0	21.0	18.0	19.0	12.0	26.0	10.0	13.0	12.0	
26	Phosphate(mg/l)	0.05	0.10	0.09	0.05	0.09	0.02	0.065	0.33	0.03	BDL	0.02	0.035	
27	Boron(mg/l)	0.8	-	-	-	-	-	0.52	-	-	-	-	-	
28	Potassium(mg/l)	2.2	-	-	-	-	-	1.5	-	-	-	-	-	
29	Fluoride(mg/l)	0.68	BDL	0.184	BDL	BDL	BDL	0.49	BDL	0.20	0.295	0.9	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.158	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.247	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.091	-	-	-	-	-	0.020	-	-	-	-	-	
37	IronTotal(mg/l)	0.893	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	



**ANJUNEM LAKE 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	30	29	28	27	28	29	27	28	28	29	32	
2	Dissolved Oxygen mg/l	7.2	3.9	5.9	6.0	6.0	7.1	5.1	5.7	5.8	7.9	6.2	7.4	4 mg/l or more
3	pH	6.89	6.31	6.95	6.58	6.98	5.88	6.23	6.20	6.77	6.69	6.37	5.74	6-9
4	Conductivity(µs/cm)	60.49	58.91	61.75	49.08	47.79	53.20	41.38	45.67	65.61	51.64	56.97	56.29	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	2.0	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	BDL	BDL	BDL	0.28	0.11	0.10	BDL	0.12	BDL	0.1	0.59	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	BDL	0.007	BDL	BDL	BDL	BDL	BDL	BDL	0.045	BDL	
8	Total Coliform(MPN/100ml)	17	13	110	33	79	70	130	240	33	13	2	540	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	7.8	7.8	33	13	33	23	33	130	23	7.8	Nil	240	
10	Fecal Streptococci MPN/100ml	-	-	-	351	71	23	151	221	64	64	10.2	10.3	
11	Turbidity(NTU)	2.22	3.92	1.41	3.39	BDL	7.88	3.35	11.24	3.45	3.83	6.37	3.18	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	24.0	18.0	22.0	18.0	22.0	24.0	22.0	22.0	22.0	22.0	14.0	26.0	
14	Chloride mg/l	5.38	6.4	7.5	7.0	8.1	6.5	5.5	7.0	16.2	8.8	2.5	5.0	
15	COD(mg/l) mg/l	8.0	4.0	4.0	8.0	4.0	6.0	6.0	6.0	10.0	4.0	8.0	8.0	
16	Total Kjeldhal Nitrogen(mg/l)	5.48	-	-	-	-	-	10.08	-	-	-	42.0	9.8	
17	Ammonia mg/l	0.11	0.11	BDL	0.15	0.06	BDL	BDL	BDL	BDL	BDL	0.07	BDL	
18	Hardness(mg/l)	12.0	18.0	32.0	8.0	14.0	8.0	20.0	18.0	8.0	22.0	6.0	14.0	
19	Calcium(mg/l)	BDL	2.4	3.21	2.4	4.81	BDL	4.01	4.01	BDL	3.2	BDL	4.0	
20	Magnesium(mg/l)	BDL	2.9	5.8	BDL	BDL	BDL	2.4	BDL	BDL	3.4	BDL	BDL	
21	Sulphate(mg/l)	4.95	2.3	BDL	3.6	BDL	BDL	2.22	2.08	3.02	2.7	2.57	BDL	
22	Sodium(mg/l)	17.0	-	-	-	-	-	6.1	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	35.0	37.0	36.0	30.0	28.0	32.0	25.0	25.0	39.0	33.0	38.0	33.0	
24	Total Fixed Solids(mg/l)	18.0	25.0	33.0	25.0	24.0	29.0	21.0	17.0	35.0	20.0	20.0	13.0	
25	Total Suspended Solid (mg/l)	25.0	11.0	12.0	5.0	5.0	7.0	9.0	10.0	11.0	12.0	10.0	10.0	
26	Phosphate(mg/l)	0.035	BDL	BDL	0.17	0.02	BDL	BDL	0.02	0.02	0.02	0.05	0.02	
27	Boron(mg/l)	0.82	-	-	-	-	-	0.68	-	-	-	-	-	
28	Potassium(mg/l)	0.42	-	-	-	-	-	0.58	-	-	-	-	-	
29	Fluoride(mg/l)	BDL	BDL	BDL	BDL	0.88	0.2	0.09	0.28	BDL	BDL	1.33	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.262	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.089	-	-	-	-	-	0.143	-	-	-	-	-	
37	IronTotal(mg/l)	0.209	-	-	-	-	-	0.089	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

BOREWELL/TUBE WELL/OPEN WELL AT SANCOALE INDUSTRIAL ESTATE 2020-2021				
Sr. No	Parameters	Apr-20	Oct-20	Limit for class A as per CPCB classification based on designated best use
1	Temperature°C		27	
2	Dissolved Oxygen(mg/l)		4.2	6 mg/l or more
3	pH		6.65	6.5-8.5
4	Conductivity (µs/cm)		256.11	
5	BOD(mg/l)(mg/l)		BDL	2 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)		BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l		BDL	
8	Total Coliform(MPN/100ml)		<1.8	50 or less MPN/100ml
9	Fecal Coliform(MPN/100ml)		NIL	
10	Fecal Streptococci MPN/100ml		431	
11	Turbidity(NTU)		1.31	
12	Phenolphthalein Alkalinity(mg/l)		BDL	
13	Total Alkalinity(mg/l)		34.0	
14	Chlorides(mg/l)		40.0	
15	COD(mg/l)		4.0	
16	Total Kjeldahl Nitrogen(mg/l)		6.72	
17	Ammonia (mg/l)		BDL	
18	Total Hardness(mg/l)		40.0	
19	Calcium(mg/l)		14.0	
20	Magnesium(mg/l)		BDL	
21	Sulphate(mg/l)		BDL	
22	Sodium(mg/l)		22.7	
23	Total Dissolved Solids(mg/l)		146.0	
24	Total Fixed Solids(mg/l)	Sample not collected as Borewell was dismantled	90.0	
25	Total Suspended Solids(mg/l)		9.0	
26	Phosphate(mg/l)		BDL	
27	Boron(mg/l)		0.48	
28	Potassium(mg/l)		2.9	
29	Flouride(mg/l)		BDL	
30	Arsenic(mg/l)		BDL	
31	Cadmium(mg/l)		BDL	
32	Copper(mg/l)		1.251	
33	Lead(mg/l)		0.084	
34	Chromium(mg/l)		BDL	
35	Nickel(mg/l)		BDL	
36	Zinc(mg/l)		0.056	
37	Iron Total(mg/l)		0.108	
38	Carbaryl (mg/L)		BDL	
39	DDT-o,p' (mg/L)		BDL	
40	DDT-p,p' (mg/L)		BDL	
41	alpha Endosulfan(mg/L)		BDL	
42	beta Endosulfan(mg/L)		BDL	
43	Anilofos (mg/L)		BDL	
44	2,4-Dichlorophenoxyacetic acid(mg/L)		BDL	
45	Aldrin/Dieldrin (mg/L)		BDL	
46	Alpha HCH (mg/L)		BDL	
47	Beta HCH (mg/L)		BDL	
48	Chlorpyrifos (mg/L)		BDL	
49	Gamma-HCH (Lindane) (mg/L)		BDL	
50	Malathion (mg/L)		BDL	
51	Methyl parathion(mg/L)		BDL	

BOREWELL/TUBE WELL/ OPEN WELL AT VERNA INDUSTRIAL ESTATE 2020-2021				
Sr. No	Parameters	Apr-20	Oct-20	Limit for class A as per CPCB classification based on designated best use
1	Temperature°C	29	29	
2	Dissolved Oxygen(mg/l)	7.0	6.8	6 mg/l or more
3	pH	7.41	6.22	6.5-8.5
4	Conductivity(µs/cm)	394.99	382.96	
5	BOD(mg/l)	BDL	BDL	2 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	3.66	0.17	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	
8	Total Coliform(MPN/100ml)	<1.8	<1.8	50 or less MPN/100ml
9	Fecal Coliform(MPN/100ml)	NIL	NIL	
10	Fecal Streptococci MPN/100ml	-	131	
11	Turbidity(NTU)	BDL	1.45	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	
13	Total Alkalinity(mg/l)	56.0	20.0	
14	Chlorides(mg/l)	49.0	48.0	
15	COD(mg/l)	4.0	BDL	
16	Total Kjeldahl Nitrogen(mg/l)	5.94	7.84	
17	Ammonia (mg/l)	BDL	0.05	
18	Total Hardness(mg/l)	86.0	90.0	
19	Calcium(mg/l)	22.0	23.0	
20	Magnesium(mg/l)	7.0	8.0	
21	Sulphate(mg/l)	17.0	15.0	
22	Sodium(mg/l)	7.5	32.2	
23	Total Dissolved Solids(mg/l)	245.0	264.0	
24	Total Fixed Solids(mg/l)	99.0	109.0	
25	Total Suspended Solids(mg/l)	13.0	10.0	
26	Phosphate(mg/l)	0.08	0.04	
27	Boron(mg/l)	0.53	0.66	
28	Potassium(mg/l)	1.3	2.7	
29	Flouride(mg/l)	BDL	0.2	
30	Arsenic(mg/l)	BDL	BDL	
31	Cadmium(mg/l)	BDL	BDL	
32	Copper(mg/l)	BDL	BDL	
33	Lead(mg/l)	BDL	BDL	
34	Chromium(mg/l)	BDL	BDL	
35	Nickel(mg/l)	0.269	BDL	
36	Zinc(mg/l)	0.075	0.015	
37	IronTotal(mg/l)	BDL	BDL	
38	Carbaryl (mg/L)	BDL	BDL	
39	DDT-'o,p' (mg/L)	BDL	BDL	
40	DDT-'p,p' (mg/L)	BDL	BDL	
41	alpha Endosulfan(mg/L)	BDL	BDL	
42	beta Endosulfan(mg/L)	BDL	BDL	
43	Anilofos (mg/L)	BDL	BDL	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	BDL	
45	Aldrin/Dieldrin (mg/L)	BDL	BDL	
46	Alpha HCH (mg/L)	BDL	BDL	
47	Beta HCH (mg/L)	BDL	BDL	
48	Chlorpyrifos (mg/L)	BDL	BDL	
49	Gamma-HCH (Lindane) (mg/L)	BDL	BDL	
50	Malathion (mg/L)	BDL	BDL	
51	Methyl parathion(mg/L)	BDL	BDL	

BOREWELL/ TUBE WELL/ OPEN WELL KUNDAIM INDUSTRIAL ESTATE 2020-2021				
Sr. No	Parameters	Apr-20	Oct-20	Limit for class A as per CPCB classification based on designated best use
1	Temperature°C	30	28	
2	Dissolved Oxygen(mg/l)	7.5	2.9	6 mg/l or more
3	pH	7.51	5.40	6.5-8.5
4	Conductivity(µs/cm)	107.06	114.10	
5	BOD(mg/l)	BDL	BDL	2 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	BDL	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	
8	Total Coliform(MPN/100ml)	<1.8	<1.8	50 or less MPN/100ml
9	Fecal Coliform(MPN/100ml)	NIL	NIL	
10	Fecal Streptococci MPN/100ml	-	141	
11	Turbidity(NTU)	BDL	1.90	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	
13	Total Alkalinity(mg/l)	44.0	28.0	
14	Chlorides(mg/l)	7.3	19.57	
15	COD(mg/l)	BDL	BDL	
16	Total Kjeldahl Nitrogen(mg/l)	4.93	5.6	
17	Ammonia (mg/l)	BDL	BDL	
18	Total Hardness(mg/l)	46.0	38.0	
19	Calcium(mg/l)	12.8	4.0	
20	Magnesium(mg/l)	3.4	8.26	
21	Sulphate(mg/l)	BDL	BDL	
22	Sodium(mg/l)	142.0	12.7	
23	Total Dissolved Solids(mg/l)	71.0	61.0	
24	Total Fixed Solids(mg/l)	50.0	31.0	
25	Total Suspended Solids(mg/l)	24.0	12.0	
26	Phosphate(mg/l)	0.20	0.026	
27	Boron(mg/l)	0.74	0.46	
28	Potassium(mg/l)	4.6	3.2	
29	Flouride(mg/l)	BDL	0.47	
30	Arsenic(mg/l)	BDL	BDL	
31	Cadmium(mg/l)	BDL	0.016	
32	Copper(mg/l)	BDL	1.282	
33	Lead(mg/l)	0.129	0.039	
34	Chromium(mg/l)	BDL	BDL	
35	Nickel(mg/l)	0.241	BDL	
36	Zinc(mg/l)	0.09	0.079	
37	IronTotal(mg/l)	0.206	0.148	
38	Carbaryl (mg/L)	BDL	BDL	
39	DDT-o,p' (mg/L)	BDL	BDL	
40	DDT-p,p' (mg/L)	BDL	BDL	
41	alpha Endosulfan(mg/L)	BDL	BDL	
42	beta Endosulfan(mg/L)	BDL	BDL	
43	Anilofos (mg/L)	BDL	BDL	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	BDL	
45	Aldrin/Dieldrin (mg/L)	BDL	BDL	
46	Alpha HCH (mg/L)	BDL	BDL	
47	Beta HCH (mg/L)	BDL	BDL	
48	Chlorpyrifos (mg/L)	BDL	0.014	
49	Gamma-HCH (Lindane) (mg/L)	BDL	BDL	
50	Malathion (mg/L)	BDL	BDL	
51	Methyl parathion(mg/L)	BDL	BDL	

29.00

5.20

6.46

110.58

0.00

0.00

0.00

0.00

BORE WELL/ TUBE WELL / OPENWELL IN CORLIM INDUSTRIAL ESTATE 2020-2021				
Sr. No	Parameters	Apr-20	Oct-20	Limit for class A as per CPCB classification based on designated best use
1	Temperature°C		28	
2	Dissolved Oxygen(mg/l)		6.0	6 mg/l or more
3	pH		4.70	6.5-8.5
4	Conductivity(µs/cm)		46.13	
5	BOD(mg/l)		BDL	2 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)		BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l		BDL	
8	Total Coliform(MPN/100ml)		7.8	50 or less MPN/100ml
9	Fecal Coliform(MPN/100ml)		NIL	
10	Fecal Streptococci MPN/100ml		221	
11	Turbidity(NTU)		BDL	
12	Phenolphthalein Alkalinity(mg/l)		BDL	
13	Total Alkalinity(mg/l)		20.0	
14	Chlorides(mg/l)		7.83	
15	COD(mg/l)		4.0	
16	Total Kjeldahl Nitrogen(mg/l)		6.72	
17	Ammonia (mg/l)		BDL	
18	Total Hardness(mg/l)		18.0	
19	Calcium(mg/l)		2.4	
20	Magnesium(mg/l)		3.79	
21	Sulphate(mg/l)		BDL	
22	Sodium(mg/l)		9.2	
23	Total Dissolved Solids(mg/l)		25.0	
24	Total Fixed Solids(mg/l)	Sample not collected because of restricted entry due to lockdown	15.0	
25	Total Suspended Solids(mg/l)		10.0	
26	Phosphate(mg/l)		BDL	
27	Boron(mg/l)		0.36	
28	Potassium(mg/l)		0.55	
29	Flouride(mg/l)		BDL	
30	Arsenic(mg/l)		BDL	
31	Cadmium(mg/l)		BDL	
32	Copper(mg/l)		0.857	
33	Lead(mg/l)		BDL	
34	Chromium(mg/l)		BDL	
35	Nickel(mg/l)		0.081	
36	Zinc(mg/l)		0.039	
37	IronTotal(mg/l)		BDL	
38	Carbaryl (mg/L)		BDL	
39	DDT-o,p' (mg/L)		BDL	
40	DDT-p,p' (mg/L)		BDL	
41	alpha Endosulfan(mg/L)		BDL	
42	beta Endosulfan(mg/L)		BDL	
43	Anilofos (mg/L)		BDL	
44	2,4-Dichlorophenoxyacetic acid(mg/L)		BDL	
45	Aldrin/Dieldrin (mg/L)		BDL	
46	Alpha HCH (mg/L)		BDL	
47	Beta HCH (mg/L)		BDL	
48	Chlorpyrifos (mg/L)		BDL	
49	Gamma-HCH (Lindane) (mg/L)		BDL	
50	Malathion (mg/L)		BDL	
51	Methyl parathion(mg/L)		BDL	

BOREWELL/TUBE WELL/OPEN WELL IN PILERNE INDUSTRIAL ESTATE 2020-2021				
Sr. No	Parameters	Apr-20	Oct-20	Limit for class A as per CPCB classification based on designated best use
1	Temperature°C	29	29	29.00
2	Dissolved Oxygen(mg/l)	7.0	7.5	7.25
3	pH	6.45	7.20	6.5-8.5
4	Conductivity(µs/cm)	131.0	250.4	190.70
5	BOD(mg/l)	BDL	BDL	2 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.7	0.09	0.40
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	0.00
8	Total Coliform(MPN/100ml)	<1.8	<1.8	50 or less MPN/100ml
9	Fecal Coliform(MPN/100ml)	NIL	NIL	0.00
10	Fecal Streptococci(MPN/100ml)	-	241	
11	Turbidity(NTU)	BDL	3.26	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	
13	Total Alkalinity(mg/l)	20.0	4.0	
14	Chlorides(mg/l)	24.5	100.0	
15	COD(mg/l)	6.0	6.8	
16	Total Kjeldahl Nitrogen(mg/l)	3.98	7.28	
17	Ammonia (mg/l)	BDL	BDL	
18	Total Hardness(mg/l)	18.0	82.0	
19	Calcium(mg/l)	4.01	22.0	
20	Magnesium(mg/l)	BDL	7.0	
21	Sulphate(mg/l)	6.41	8.0	
22	Sodium(mg/l)	9.6	16.4	
23	Total Dissolved Solids(mg/l)	77.0	172.0	
24	Total Fixed Solids(mg/l)	65.0	103.0	
25	Total Suspended Solids(mg/l)	6.0	12.0	
26	Phosphate(mg/l)	0.048	0.04	
27	Boron(mg/l)	0.54	0.42	
28	Potassium(mg/l)	3.2	3.1	
29	Flouride(mg/l)	0.92	0.46	
30	Arsenic(mg/l)	BDL	BDL	
31	Cadmium(mg/l)	BDL	0.017	
32	Copper(mg/l)	BDL	0.270	
33	Lead(mg/l)	0.083	BDL	
34	Chromium(mg/l)	BDL	BDL	
35	Nickel(mg/l)	0.173	BDL	
36	Zinc(mg/l)	0.071	0.058	
37	IronTotal(mg/l)	0.171	0.070	
38	Carbaryl (mg/L)	BDL	BDL	
39	DDT-o,p' (mg/L)	BDL	BDL	
40	DDT-p,p' (mg/L)	BDL	BDL	
41	alpha Endosulfan(mg/L)	BDL	BDL	
42	beta Endosulfan(mg/L)	BDL	BDL	
43	Anilofos (mg/L)	BDL	BDL	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	BDL	
45	Aldrin/Dieldrin (mg/L)	BDL	BDL	
46	Alpha HCH (mg/L)	BDL	BDL	
47	Beta HCH (mg/L)	BDL	BDL	
48	Chlorpyrifos (mg/L)	BDL	BDL	
49	Gamma-HCH (Lindane) (mg/L)	BDL	BDL	
50	Malathion (mg/L)	BDL	BDL	
51	Methyl parathion(mg/L)	BDL	BDL	

BORE WELL/TUBE WELL/ OPEN WELL IN CUNCOLIM INDUSTRIAL ESTATE 2020-2021				
Sr. No	Parameters	Apr-20	Oct-20	Limit for class A as per CPCB classification based on designated best use
1	Temperature°C	30	27	
2	Dissolved Oxygen(mg/l)	4.3	2.0	6 mg/l or more
3	pH	7.18	6.58	6.5-8.5
4	Conductivity(us/cm)	475.44	403.58	
5	BOD(mg/l)	2.2	BDL	2 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	BDL	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.013	BDL	
8	Total Coliform(MPN/100ml)	9	2200	50 or less MPN/100ml
9	Fecal Coliform(MPN/100ml)	2	1300	
10	Fecal Streptococci(MPN/100ml)	-	95	
11	Turbidity(NTU)	120.0	4.28	
12	Phenolphthalein Alkalinity(mg/l)	BDL	20.0	
13	Total Alkalinity(mg/l)	158.0	140.0	
14	Chlorides(mg/l)	34.24	30.33	
15	COD(mg/l)	6.0	6.0	
16	Total Kjeldahl Nitrogen(mg/l)	3.42	5.04	
17	Ammonia (mg/l)	0.10	0.05	
18	Total Hardness(mg/l)	172.0	138.0	
19	Calcium(mg/l)	40.9	36.1	
20	Magnesium(mg/l)	17.0	24.76	
21	Sulphate(mg/l)	6.53	3.38	
22	Sodium(mg/l)	67.0	14.0	
23	Total Dissolved Solids(mg/l)	310.0	247.0	
24	Total Fixed Solids(mg/l)	215.0	117.0	
25	Total Suspended Solids(mg/l)	48.0	13.0	
26	Phosphate(mg/l)	0.67	0.043	
27	Boron(mg/l)	0.72	0.4	
28	Potassium(mg/l)	3.5	2.5	
29	Flouride(mg/l)	BDL	0.28	
30	Arsenic(mg/l)	BDL	BDL	
31	Cadmium(mg/l)	0.001	BDL	
32	Copper(mg/l)	BDL	BDL	
33	Lead(mg/l)	BDL	BDL	
34	Chromium(mg/l)	BDL	BDL	
35	Nickel(mg/l)	0.298	BDL	
36	Zinc(mg/l)	0.059	0.016	
37	Iron Total(mg/l)	BDL	BDL	
38	Carbaryl (mg/L)	BDL	BDL	
39	DDT-o,p' (mg/L)	BDL	BDL	
40	DDT-p,p' (mg/L)	BDL	BDL	
41	alpha Endosulfan(mg/L)	BDL	BDL	
42	beta Endosulfan(mg/L)	BDL	BDL	
43	Anilofos (mg/L)	BDL	BDL	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	BDL	
45	Aldrin/Dieldrin (mg/L)	BDL	BDL	
46	Alpha HCH (mg/L)	BDL	BDL	
47	Beta HCH (mg/L)	BDL	BDL	
48	Chlorpyrifos (mg/L)	BDL	BDL	
49	Gamma-HCH (Lindane) (mg/L)	BDL	BDL	
50	Malathion (mg/L)	BDL	BDL	
51	Methyl parathion(mg/L)	BDL	BDL	

28.50

3.15

6.88

439.51

1.10

0.00

0.01

1104.50

BOREWELL/TUBE WELL/OPEN WELL IN BETHORA INDUSTRIAL ESTATE 2020-2021				
Sr. No	Parameters	Apr-20	Oct-20	Limit for class A as per CPCB classification based on designated best use
1	Temperature °C	29	27	28.00
2	Dissolved Oxygen(mg/l)	5.7	5.5	6 mg/l or more
3	pH	6.26	6.30	6.5-8.5
4	Conductivity(µs/cm)	140.89	110.67	125.78
5	BOD(mg/l)	BDL	BDL	2 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.48	1.72	1.10
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	0.00
8	Total Coliform(MPN/100ml)	<1.8	<1.8	50 or less MPN/100ml
9	Fecal Coliform(MPN/100ml)	NIL	NIL	
10	Fecal Streptococci(MPN/100ml)	-	351	
11	Turbidity(NTU)	1.28	BDL	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	
13	Total Alkalinity(mg/l)	28.0	18.0	
14	Chlorides(mg/l)	17.12	20.0	
15	COD(mg/l)	8.0	BDL	
16	Total Kjeldahl Nitrogen(mg/l)	7.5	4.48	
17	Ammonia (mg/l)	BDL	BDL	
18	Total Hardness(mg/l)	40.0	38.0	
19	Calcium(mg/l)	9.6	3.0	
20	Magnesium(mg/l)	3.89	7.0	
21	Sulphate(mg/l)	6.33	0.20	
22	Sodium(mg/l)	24	16.4	
23	Total Dissolved Solids(mg/l)	79.0	77.0	
24	Total Fixed Solids(mg/l)	63.0	45.0	
25	Total Suspended Solids(mg/l)	17.0	5.0	
26	Phosphate(mg/l)	0.143	BDL	
27	Boron(mg/l)	0.85	0.30	
28	Potassium(mg/l)	0.26	0.94	
29	Flouride(mg/l)	BDL	0.24	
30	Arsenic(mg/l)	BDL	BDL	
31	Cadmium(mg/l)	BDL	BDL	
32	Copper(mg/l)	BDL	1.53	
33	Lead(mg/l)	BDL	BDL	
34	Chromium(mg/l)	BDL	0.083	
35	Nickel(mg/l)	BDL	BDL	
36	Zinc(mg/l)	0.507	0.079	
37	IronTotal(mg/l)	BDL	0.054	
38	Carbaryl (mg/L)	BDL	BDL	
39	DDT-o,p' (mg/L)	BDL	BDL	
40	DDT-p,p' (mg/L)	BDL	BDL	
41	alpha Endosulfan(mg/L)	BDL	BDL	
42	beta Endosulfan(mg/L)	BDL	BDL	
43	Anilofos (mg/L)	BDL	BDL	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	BDL	
45	Aldrin/Dieldrin (mg/L)	BDL	BDL	
46	Alpha HCH (mg/L)	BDL	BDL	
47	Beta HCH (mg/L)	BDL	BDL	
48	Chlorpyrifos (mg/L)	BDL	BDL	
49	Gamma-HCH (Lindane) (mg/L)	BDL	BDL	
50	Malathion (mg/L)	BDL	BDL	
51	Methyl parathion(mg/L)	BDL	BDL	



BOREWELL/ TUBEWELL/OPENWELL IN MADKAI INDUSTRIAL ESTATE 2020-2021				
Sr. No	Parameters	Apr-20	Oct-20	Limit for class A as per CPCB classification based on designated best use
1	Temperature°C	30	27	
2	Dissolved Oxygen(mg/l)	6.4	6.9	6 mg/l or more
3	pH	5.77	6.10	6.5-8.5
4	Conductivity(us/cm)	80.84	85.15	
5	BOD(mg/l)	BDL	BDL	2 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.81	1.06	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	
8	Fecal Coliform(MPN/100ml)	NIL	<1.8	50 or less MPN/100ml
9	Total Coliform(MPN/100ml)	2.0	NIL	
10	Fecal Streptococci(MPN/100ml)	-	151	
11	Turbidity(NTU)	1.63	BDL	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	
13	Total Alkalinity(mg/l)	12.0	18.0	
14	Chlorides(mg/l)	29.35	17.0	
15	COD(mg/l)	10.0	6.0	
16	Total Kjeldahl Nitrogen(mg/l)	8.85	5.04	
17	Ammonia (mg/l)	BDL	BDL	
18	Total Hardness(mg/l)	18.0	4.0	
19	Calcium(mg/l)	3.2	3.0	
20	Magnesium(mg/l)	2.43	BDL	
21	Sulphate(mg/l)	7.77	0.13	
22	Sodium(mg/l)	12.5	12.2	
23	Total Dissolved Solids(mg/l)	48.0	58.0	
24	Total Fixed Solids(mg/l)	20.0	32.0	
25	Total Suspended Solids(mg/l)	16.0	3.0	
26	Phosphate(mg/l)	0.198	BDL	
27	Boron(mg/l)	0.64	0.32	
28	Potassium(mg/l)	0.35	0.65	
29	Flouride(mg/l)	BDL	0.46	
30	Arsenic(mg/l)	BDL	BDL	
31	Cadmium(mg/l)	BDL	BDL	
32	Copper(mg/l)	BDL	0.013	
33	Lead(mg/l)	BDL	BDL	
34	Chromium(mg/l)	BDL	0.063	
35	Nickel(mg/l)	0.174	BDL	
36	Zinc(mg/l)	0.056	0.011	
37	Iron Total(mg/l)	BDL	BDL	
38	Carbaryl (mg/L)	BDL	BDL	
39	DDT-o,p' (mg/L)	BDL	BDL	
40	DDT-p,p' (mg/L)	BDL	BDL	
41	alpha Endosulfan(mg/L)	BDL	BDL	
42	beta Endosulfan(mg/L)	BDL	BDL	
43	Anilofos (mg/L)	BDL	BDL	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	BDL	
45	Aldrin/Dieldrin (mg/L)	BDL	BDL	
46	Alpha HCH (mg/L)	BDL	BDL	
47	Beta HCH (mg/L)	BDL	BDL	
48	Chlorpyrifos (mg/L)	BDL	BDL	
49	Gamma-HCH (Lindane) (mg/L)	BDL	BDL	
50	Malathion (mg/L)	BDL	BDL	
51	Methyl parathion(mg/L)	BDL	BDL	

28.50

6.65

5.94

83.00

0.00

0.94

0.00

0.00

**TIRACOL BEACH 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	32	29	29	26	30	29	29	29	28	28	28	
2	Dissolved Oxygen(mg/l)	5.9	6.1	5.6	7.0	6.3	8.2	6.5	7.1	6.8	6.8	6.0	6.2	4 mg/l or more
3	pH	7.89	7.95	7.86	7.88	6.88	6.50	7.09	7.42	7.88	7.80	7.71	7.74	6.5 - 8.5
4	Conductivity(µs/cm)	61850.0	62070.0	58720.0	25790.0	207.2	59150.0	25640.0	31060.0	45770.0	47890.0	55640.0	57450.0	
5	BOD(mg/l)	BDL	2.1	BDL	BDL	BDL	BDL	BDL	2.0	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.17	BDL	0.21	0.19	0.1	0.1	0.10	0.10	BDL	BDL	BDL	0.53	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	0.042	0.013	0.008	0.016	BDL	BDL	0.024	BDL	BDL	BDL	0.02	
8	Total Coliform(MPN/100ml)	13	23	79	240	460	330	790	1100	270	270	1300	790	
9	Fecal Coliform(MPN/100ml)	7.8	13	23	79	210	170	490	790	220	170	790	490	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	>1601	>1601	211	>1601	921	78	221	211	241	
11	Turbidity(NTU)	2.44	14.36	39.2	45.0	60.4	19.53	6.11	3.11	3.09	3.37	3.90	6.91	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	18.0	10.0	14.0	BDL	BDL	BDL	BDL	BDL	6.0	10.0	8.0	10.0	
13	Total Alkalinity(mg/l)	106.0	120.0	114.0	70.0	32.0	14.0	76.0	86.0	100.0	112.0	122.0	112.0	
14	Chlorides(mg/l)	18940.0	19426.60	18601.5	18847.9	36.5	1773.90	12515.9	10840.6	15571.1	16144.0	16744.8	17345.1	
15	COD(mg/l)	-	-	-	-	7.0	9.0	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	12.76	-	-	-	-	-	14.0	-	-	-	42.0	98.1	
17	Ammonia (mg/l)	0.08	0.126	BDL	0.05	BDL	0.22	BDL	0.30	0.07	BDL	0.05	BDL	
18	Total Hardness(mg/l)	7400.0	11500.0	8800.0	9000.0	32.0	504.0	13200.0	600.0	3200.0	5400.0	5800.0	6000.0	
19	Calcium(mg/l)	481.0	5000.0	600.0	2404.8	3.2	38.5	320.6	160.3	481.0	401.0	400.8	1402.8	
20	Magnesium(mg/l)	1507.0	1579.5	1992.6	729.0	5.8	99.1	3031.2	48.6	486.0	1069.0	1166.4	607.5	
21	Sulphate(mg/l)	3583.0	6132.47	5567.8	5002.0	9.35	19.90	3286.50	650.70	2042.20	1623.00	1649.70	79.4	
22	Sodium(mg/l)	4100.0	-	-	-	-	-	10050.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	43295.0	36025.0	35232.0	15732.0	131.0	36673.0	15640.0	19257.0	28835.0	28734.0	33896.0	32172.0	
24	Total Fixed Solids(mg/l)	17318.0	29404.0	20367.0	10731.0	73.0	25167.0	10148.0	11902.0	19031.0	11246.0	20850.0	29652.0	
25	Total Suspended Solids(mg/l)	68.0	70.0	53.0	49.0	21.0	42.0	45.0	36.0	37.0	26.0	86.0	10.0	
26	Phosphate(mg/l)	0.106	0.076	1.07	0.32	BDL	0.03	0.05	0.04	0.02	0.03	BDL	0.03	
27	Boron(mg/l)	1.2	-	-	-	-	-	1.32	-	-	-	-	-	
28	Potassium(mg/l)	510.0	-	-	-	-	-	240.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	0.220	0.23	0.89	0.78	0.56	0.66	0.4	0.93	BDL	BDL	0.80	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.047	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.040	-	-	-	-	-	
33	Lead(mg/l)	0.056	-	-	-	-	-	0.085	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.276	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.174	-	-	-	-	-	0.027	-	-	-	-	-	
37	IronTotal(mg/l)	0.518	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

MIRAMAR BEACH 2020-2021														
Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	31	30	28	26	28	27	29	29	29	29	29	
2	Dissolved Oxygen(mg/l)	6.0	6.7	6.4	6.9	7.5	7.6	6.3	6.2	6.4	6.5	6.6	6.4	4 mg/l or more
3	pH	8.02	7.96	7.75	7.38	6.81	7.69	7.60	7.85	7.75	7.86	7.75	7.51	6.5 - 8.5
4	Conductivity(µs/cm)	64350.0	60740.0	55080.0	4323.0	5390.0	26090.0	53460.0	55110.0	56020.0	54470.0	55600.0	57680.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.0	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.18	BDL	0.3	0.08	BDL	0.10	0.10	0.10	BDL	BDL	0.13	0.22	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	0.045	0.005	BDL	0.026	0.02	BDL	BDL	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	49	79	130	170	140	220	350	280	79	49	33	170	
9	Fecal Coliform(MPN/100ml)	23	33	49	79	70	79	130	110	49	33	23	110	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	49	24	241	171	121	171	131	351	25	
11	Turbidity(NTU)	2.4	6.67	17.1	27.5	21.5	15.99	5.50	3.31	3.28	5.90	6.48	5.5	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	22.0	14.0	10.0	BDL	BDL	12.0	8.0	4.0	8.0	12.0	10.0	14.0	
13	Total Alkalinity(mg/l)	114.0	124.0	124.0	56.0	44.0	78.0	118.0	110.0	112.0	88.0	90.0	112.0	
14	Chlorides(mg/l)	19710.2	18590	18223.0	15521.8	2094.2	10840.6	19340.0	18601.5	17862.4	17994.0	17745.0	17494.6	
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	10.36	-	-	-	-	-	14.0	-	-	-	42.0	2.8	
17	Ammonia (mg/l)	0.14	0.08	BDL	0.07	BDL	0.41	0.08	0.37	0.19	BDL	BDL	BDL	
18	Total Hardness(mg/l)	19000.0	7800.0	7500.0	9000.0	1000.0	5600.0	3600.0	5800.0	4500.0	3480.0	4800.0	6600.0	
19	Calcium(mg/l)	6000.0	882.0	601.2	2605.2	90.0	200.4	481.0	481.0	601.2	328.7	312.6	400.8	
20	Magnesium(mg/l)	3159.0	1361.0	1458.0	607.5	221.1	1239.3	583.2	1117.8	729.0	646.4	977.0	1360.8	
21	Sulphate(mg/l)	4957.3	1621.0	3370.2	1502.2	230.5	1067.4	4039.7	2582.2	1715.0	1023.0	648.23	97.80	
22	Sodium(mg/l)	150.0	-	-	-	-	-	8630.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	39340.0	36812.0	37758.0	2680.0	3342.0	15914.0	33145.0	34168.0	35293.0	34314.0	35028.0	34684.0	
24	Total Fixed Solids(mg/l)	24376.0	20498.0	24559.0	1469.0	1983.0	9707.0	21538.0	22076.0	23031.0	33106.0	34017.0	21893.0	
25	Total Suspended Solids(mg/l)	45.0	40.0	34.0	58.0	41.0	41.0	62.0	33.0	34.0	125.0	135.0	80.0	
26	Phosphate(mg/l)	0.17	0.02	0.15	0.04	BDL	0.14	0.08	0.07	0.06	0.05	0.06	0.06	
27	Boron(mg/l)	1.64	-	-	-	-	-	1.78	-	-	-	-	-	
28	Potassium(mg/l)	322.0	-	-	-	-	-	264.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	0.39	0.96	BDL	0.61	0.96	0.88	0.56	1.0	0.63	0.93	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.884	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.046	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.211	-	-	-	-	-	0.370	-	-	-	-	-	
36	Zinc(mg/l)	0.146	-	-	-	-	-	0.143	-	-	-	-	-	
37	IronTotal(mg/l)	0.456	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**CALANGUTE BEACH 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	30	30	29	26	30	30	30	30	29	29	30	
2	Dissolved Oxygen(mg/l)	6.8	5.4	6.0	7.1	6.5	6.5	6.1	6.3	6.2	6.2	6.6	7.0	4 mg/l or more
3	pH	7.69	7.93	7.90	7.80	7.30	7.80	7.60	7.80	7.93	7.87	7.63	6.54	6.5 - 8.5
4	Conductivity(us/cm)	60910.0	63950.0	58360.0	34870.0	36350.0	56970.0	53510.0	54470.0	57380.0	53170.0	59400.0	56720.0	
5	BOD(mg/l)	2.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.2	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.27	0.34	0.63	0.26	1.34	0.58	1.02	0.95	BDL	0.325	BDL	0.25	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.005	0.05	0.008	0.019	0.009	BDL	BDL	0.006	BDL	0.013	BDL	BDL	
8	Total Coliform(MPN/100ml)	49	49	33	140	220	220	280	540	79	240	240	240	
9	Fecal Coliform(MPN/100ml)	13	23	17	63	110	110	130	220	23	22	130	130	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	431	351	241	151	50	41	351	921	85	
11	Turbidity(NTU)	10.44	10.40	16.84	13.54	8.65	7.22	2.93	5.73	5.49	3.69	3.40	5.76	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	14.0	18.0	14.0	8.0	BDL	10.0	10.0	12.0	12.0	10.0	14.0	12.0	
13	Total Alkalinity(mg/l)	126.0	130.0	102.0	76.0	82.0	96.0	106.0	112.0	128.0	100.0	112.0	114.0	
14	Chlorides(mg/l)	22243.0	19494.0	18941.0	11110.0	13890.0	18819.0	18577.0	17362.0	17969.0	18834.59	18244.0	17220.00	
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	12.04	-	-	-	-	-	15.68	-	-	-	56.0	26.62	
17	Ammonia (mg/l)	0.353	0.10	BDL	0.06	BDL	0.21	0.06	0.06	0.09	0.12	0.09	BDL	
18	Total Hardness(mg/l)	7800.0	8800.0	8400.0	3800.0	2900.0	5400.0	5800.0	5400.0	2500.0	4400.0	4200.0	6400.0	
19	Calcium(mg/l)	480.96	801.6	481.0	441.0	120	561.0	481.0	761.0	400.8	1122.2	561.1	441.0	
20	Magnesium(mg/l)	1603.8	1652.4	1750.0	656.0	632	972.0	1118.0	850.0	364.5	796.51	680.4	1288.0	
21	Sulphate(mg/l)	1695.2	1852.0	1426.0	916.0	1669.0	3652.0	1737.0	2464.0	1015.0	2346.98	1674.1	2386.0	
22	Sodium(mg/l)	2350.0	-	-	-	-	-	9980.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	35934.0	37731.0	40852.0	24409.0	25444.0	39879.0	37457.0	38129.0	36149.0	31871.0	35712.0	33745.0	
24	Total Fixed Solids(mg/l)	33927.0	36436.0	24511.0	9764.0	15266.0	23927.0	22474.0	22877.0	29142.0	18023.0	22589.0	16523.0	
25	Total Suspended Solids(mg/l)	93.0	146.0	88.0	53.0	72.0	86.0	73.0	95.0	11.0	51.0	73.0	28.0	
26	Phosphate(mg/l)	0.192	0.15	0.04	0.15	0.1	0.245	BDL	0.03	0.095	0.02	0.02	0.02	
27	Boron(mg/l)	1.62	-	-	-	-	-	1.4	-	-	-	-	-	
28	Potassium(mg/l)	340.0	-	-	-	-	-	242.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	0.9	1.42	1.17	1.16	1.64	2.91	1.13	0.57	1.12	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.044	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.045	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.084	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.208	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.13	-	-	-	-	-	0.123	-	-	-	-	-	
37	IronTotal(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**MORJIM BEACH 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	32	28	29	26	30	29	30	29	29	29	28	
2	Dissolved Oxygen(mg/l)	6.1	6.5	6.2	6.5	7.4	6.3	6.4	7.1	6.2	6.5	6.5	6.4	4 mg/l or more
3	pH	7.87	7.94	7.89	7.90	7.25	7.56	7.72	7.74	7.72	7.86	7.92	7.86	6.5 - 8.5
4	Conductivity(µs/cm)	58520.0	62650.0	57820.0	43500.0	14840.0	55270.0	52430.0	54370.0	64650.0	54840.0	56570.0	55970.0	
5	BOD(mg/l)	BDL	2.2	BDL	BDL	BDL	BDL	BDL	2.0	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.1	BDL	0.24	0.21	0.16	0.1	0.10	0.10	BDL	BDL	BDL	0.51	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	0.017	0.018	0.009	0.013	0.01	BDL	0.036	BDL	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	33	49	130	79	220	210	220	240	540	350	920	540	
9	Fecal Coliform(MPN/100ml)	13	23	33	33	70	79	110	130	110	140	350	110	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	47	211	22	111	351	14	431	141	47	
11	Turbidity(NTU)	2.04	3.56	13.18	65	44.39	17.96	3.36	2.53	2.7	4.63	2.80	4.20	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	16.0	BDL	12.0	BDL	4.0	6.0	18.0	14.0	12.0	20.0	14.0	14.0	
13	Total Alkalinity(mg/l)	106.0	116.0	118.0	100.0	52.0	112.0	102.0	110.0	106.0	108.0	116.0	104.0	
14	Chlorides(mg/l)	19184	19426.60	19094.3	19340.6	5173.9	18231.9	18971.1	18108.8	17985.6	17856.0	17744.5	17719.5	
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	12.6	-	-	-	-	-	14.56	-	-	-	81.2	56.0	
17	Ammonia (mg/l)	0.097	0.103	BDL	0.11	0.05	0.31	0.09	0.12	0.06	BDL	0.12	BDL	
18	Total Hardness(mg/l)	5400.0	10000.0	8800.0	20500.0	4500.0	7500.0	20200.0	3800.0	4500.0	5560.0	5800.0	6000.0	
19	Calcium(mg/l)	481.0	2500.0	1800.0	1603.2	1000.0	801.6	1202.4	320.6	400.8	449.0	641.3	1002.0	
20	Magnesium(mg/l)	1021.0	1822.5	1701.0	4009.5	850.5	1336.5	4179.6	729.0	850.5	1079.0	1020.6	850.0	
21	Sulphate(mg/l)	3364.0	7452.98	6043.4	5338.2	713.3	2885.1	3439.6	2120.6	2339.6	2407.0	1955.2	354.4	
22	Sodium(mg/l)	7210.0	-	-	-	-	-	9040.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	40964.0	37280.0	34113.0	26100.0	8904.0	35372.0	31458.0	32078.0	39437.0	32355.0	33994.0	36380.0	
24	Total Fixed Solids(mg/l)	16386.0	30916.0	22794.0	17086.0	5061.0	24052.0	20706.0	20462.0	25531.0	15847.0	19266.0	32129.0	
25	Total Suspended Solids(mg/l)	83.0	96.0	49.0	54.0	47.0	50.0	52.0	47.0	38.0	40.0	57.0	9.0	
26	Phosphate(mg/l)	0.134	0.377	0.41	0.18	0.02	0.11	0.08	0.05	BDL	0.03	BDL	0.05	
27	Boron(mg/l)	1.62	-	-	-	-	-	1.54	-	-	-	-	-	
28	Potassium(mg/l)	310.0	-	-	-	-	-	310.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	0.277	0.77	BDL	1.04	1.5	0.91	0.52	1.10	BDL	0.22	0.81	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.220	-	-	-	-	-	
33	Lead(mg/l)	0.08	-	-	-	-	-	0.054	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.191	-	-	-	-	-	0.315	-	-	-	-	-	
36	Zinc(mg/l)	0.172	-	-	-	-	-	0.107	-	-	-	-	-	
37	IronTotal(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**MOBOR BEACH 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	29	29	29	28	30	29	30	30	31	30	31	
2	Dissolved Oxygen(mg/l)	6.5	6.0	6.0	6.7	4.7	6.7	6.6	5.0	6.0	5.8	7.1	6.7	4 mg/l or more
3	pH	7.96	7.93	7.87	7.70	7.89	7.67	7.53	7.78	7.80	7.78	7.81	7.70	6.5 - 8.5
4	Conductivity(µs/cm)	63880.0	65300.0	53030.0	42200.0	47010.0	53250.0	52310.0	55180.0	56710.0	54100.0	52070.0	26000.0	
5	BOD(mg/l)	BDL	BDL	BDL	2.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.463	BDL	0.27	0.34	0.42	BDL	0.06	0.10	BDL	BDL	BDL	0.45	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	0.015	0.022	0.03	0.29	0.006	0.012	0.016	BDL	BDL	0.01	0.005	
8	Total Coliform(MPN/100ml)	17	23	110	150	170	170	220	280	2300	540	33	170	
9	Fecal Coliform(MPN/100ml)	11	13	33	84	70	79	110	220	1300	22	23	79	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	131	921	7.8	351	431	27	141	171	18	
11	Turbidity(NTU)	2.5	32.2	38.7	43.4	36.5	14.54	4.45	3.13	3.69	3.87	3.99	2.85	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	34.0	BDL	10	10	10.0	4.0	8	10.0	30.0	20.0	8	12.0	
13	Total Alkalinity(mg/l)	214.0	120.0	102.0	102.0	120.0	114.0	110.0	106.0	200.0	104.0	116.0	104.0	
14	Chlorides(mg/l)	19813.0	19426.60	20244.00	13846.0	14449.0	19244.0	18244.00	17745.0	17978.47	17856.00	16501.90	17807.00	
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	10.3	-	-	-	-	-	14.0	-	-	-	42.0	14.01	
17	Ammonia (mg/l)	BDL	0.086	0.11	0.21	1.02	0.82	0.80	0.66	BDL	BDL	0.15	BDL	
18	Total Hardness(mg/l)	9000.0	8500.0	4400.0	4660.0	3640.0	7400.0	8200.0	8800.0	14500.0	5360.0	4600.0	6300.0	
19	Calcium(mg/l)	408.8	1500.0	481.0	248.5	240.5	641.3	881.8	962.0	5000.0	481.0	521.7	601.0	
20	Magnesium(mg/l)	1939.0	1701.0	777.0	981.7	738.7	1409.0	1458.0	1555.0	2308.50	1011.00	801.9	1166.0	
21	Sulphate(mg/l)	3965.5	1982.90	1510.0	776.4	3248.0	1577.0	1079.0	2083.3	1426.08	2121.00	3079.4	2250.0	
22	Sodium(mg/l)	5400.0	-	-	-	-	-	9800.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	42800.0	37081.0	31291.0	24908.0	27748.0	31417.0	30862.0	30707.0	34075.0	31919.0	32283.0	16325.0	
24	Total Fixed Solids(mg/l)	27820.0	28304.0	29285.0	23906.0	27547.0	29419.0	29857.0	29407.0	18562.0	14681.0	24196.0	9513.0	
25	Total Suspended Solids(mg/l)	40.0	71.0	131.0	187.0	135.0	152.0	160.0	161.0	67.0	39.0	46.0	23.0	
26	Phosphate(mg/l)	BDL	0.098	0.65	0.62	3.10	0.03	0.04	0.05	0.063	0.03	0.46	0.02	
27	Boron(mg/l)	1.58	-	-	-	-	-	1.38	-	-	-	-	-	
28	Potassium(mg/l)	180.0	-	-	-	-	-	263.0	-	-	-	-	-	
29	Flouride(mg/l)	0.24	BDL	0.76	0.30	1.38	1.67	0.96	1.42	1.0	BDL	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.048	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.138	-	-	-	-	-	0.231	-	-	-	-	-	
36	Zinc(mg/l)	0.175	-	-	-	-	-	0.092	-	-	-	-	-	
37	IronTotal(mg/l)	0.29	-	-	-	-	-	0.100	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**BAINA BEACH 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	32	29		26	26	29	30	30	30	31	33	
2	Dissolved Oxygen(mg/l)	6.2	6.4	6.3		7.0	4.3	6.6	6.4	6.5	5.9	6.7	6.5	4 mg/l or more
3	pH	7.70	8.07	7.50		7.40	7.70	7.64	7.82	7.93	7.66	7.91	7.68	6.5 - 8.5
4	Conductivity(us/cm)	63650.0	62920.0	59270.0		37530.0	49270.0	53900.0	54560.0	54710.0	54880.0	52960.0	52820.0	
5	BOD(mg/l)	BDL	2.0	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.0	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.21	0.14	0.16		0.38	0.24	0.17	0.08	0.441	BDL	BDL	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	BDL		0.043	BDL	BDL	0.009	BDL	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	240	240	70		170	170	220	210	140	170	23	140	
9	Fecal Coliform(MPN/100ml)	79	79	49		63	70	110	120	110	70	13	110	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-		5.0	351	241	241	921	95	141	64	
11	Turbidity(NTU)	7.99	3.58	5.07		20.5	13.79	2.91	3.34	4.05	4.08	8.76	8.43	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	16.0	14.0	16.0		8.0	6.0	BDL	18.0	20.0	16.0	10.0	10.0	
13	Total Alkalinity(mg/l)	110.0	118.0	108.0		90.0	96.0	90.0	100.0	120.0	108.0	120.0	120.0	
14	Chlorides(mg/l)	19062.0	19568.4	19305.0		12506.0	14570.0	19177.0	18330.5	17978.47	17985.6	18223.07	17978.47	
15	COD(mg/l)	-	-	-		-	-	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	14.45	-	-		-	-	14.56	-	-	-	11.2	1.68	
17	Ammonia (mg/l)	0.07	0.10	0.12		BDL	0.27	BDL	0.14	BDL	BDL	BDL	0.30	
18	Total Hardness(mg/l)	8000.0	8000.0	6320.0		4000.0	5800.0	5440.0	6400.0	7000.0	1400.0	4200.0	12000.0	
19	Calcium(mg/l)	721.0	801.6	401.0		321.0	401.0	385.0	1122.2	2500.0	481.0	3000.0	2204.4	
20	Magnesium(mg/l)	1507.0	1458.0	1293.0		778.0	1166.0	1089.0	874.8	1093.5	48.6	291.0	2380.3	
21	Sulphate(mg/l)	3851.0	2666.6	1678.0		1852.0	1089.0	1998.0	3718.9	2172.1	4501.6	8431.8	4992.2	
22	Sodium(mg/l)	1150.0	-	-		-	-	10300.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	44555.0	40268.0	41489.0	Sampling is not done as the location was inaccessible due to lockdown	26271.0	34435.0	32174.0	32461.0	32324.0	33477.0	28681.0	28999.0	
24	Total Fixed Solids(mg/l)	17822.0	27784.0	16596.0		15762.0	20661.0	19297.0	20584.0	16261.0	22437.0	14723.0	14369.0	
25	Total Suspended Solids(mg/l)	70.0	36.0	86.0		72.0	73.0	43.0	18.0	63.0	55.0	29.0	17.0	
26	Phosphate(mg/l)	0.11	0.09	0.19		0.07	0.21	0.09	0.07	0.64	0.03	0.043	0.146	
27	Boron(mg/l)	1.64	-	-		-	-	1.06	-	-	-	-	-	
28	Potassium(mg/l)	2.8	-	-		-	-	373.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	0.85	1.26		1.14	1.41	1.08	1.02	0.037	1.5	0.20	BDL	
30	Arsenic(mg/l)	BDL	-	-		-	-	-	BDL	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-		-	-	-	0.016	-	-	-	-	
32	Copper(mg/l)	BDL	-	-		-	-	-	0.961	-	-	-	-	
33	Lead(mg/l)	BDL	-	-		-	-	-	BDL	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-		-	-	-	BDL	-	-	-	-	
35	Nickel(mg/l)	0.261	-	-		-	-	-	0.271	-	-	-	-	
36	Zinc(mg/l)	0.184	-	-	-	-	-	0.099	-	-	-	-		
37	IronTotal(mg/l)	0.249	-	-	-	-	-	0.099	-	-	-	-		
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-		
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-		
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-		
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-		
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-		
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-		
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-		
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-		
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-		
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-		
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-		
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-		
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-		
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-		

**GALGIBAG BEACH 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	31	29	29	28	29	28	29	31	30	32	34	
2	Dissolved Oxygen(mg/l)	5.3	6.0	6.3	6.3	6.5	6.4	6.9	5.9	4.8	6.5	7.2	6.0	4 mg/l or more
3	pH	7.93	7.92	7.61	6.71	7.49	7.75	7.40	7.82	7.45	7.64	7.83	7.89	6.5 - 8.5
4	Conductivity(µs/cm)	61940.0	62020.0	55320.0	43120.0	34880.0	50840.0	53330.0	55480.0	56450.0	54160.0	55150.0	56090.0	
5	BOD(mg/l)	2.8	2.5	BDL	BDL	BDL	BDL	BDL	BDL	2.5	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	BDL	BDL	BDL	0.11	0.622	0.14	0.11	0.45	BDL	0.11	BDL	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	BDL	0.01	0.056	0.01	0.01	0.01	BDL	BDL	0.05	BDL	
8	Total Coliform(MPN/100ml)	23	23	130	220	350	350	170	130	240	49	13	140	
9	Fecal Coliform(MPN/100ml)	13	13	33	70	84	94	110	78	130	22	7.8	110	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	431	24	541	33	281	921	85	171	40	
11	Turbidity(NTU)	1.19	5.22	19.54	54.7	57.6	14.80	2.20	2.50	4.13	11.39	11.49	10.96	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	20.0	18.0	BDL	10.0	BDL	10.0	10.0	12.0	8.0	10.0	10.0	12.0	
13	Total Alkalinity(mg/l)	120.0	114.0	114.0	94.0	80.0	118.0	122.0	112.0	120.0	110.0	46.0	110.0	
14	Chlorides(mg/l)	28991.0	25492.0	19494.0	15495.0	12034.57	16143.0	19868.8	18884.0	17744.05	17978.47	17969.0	18611.30	
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	6.44	-	-	-	-	-	17.36	-	-	-	28.0	14.0	
17	Ammonia (mg/l)	BDL	0.10	0.08	0.10	0.128	BDL	0.1	0.16	0.32	BDL	0.08	0.11	
18	Total Hardness(mg/l)	6800.0	8000.0	7200.0	5200.0	5500.0	8400.0	8000.0	6800.0	5400.0	9500.0	3400.0	6000.0	
19	Calcium(mg/l)	481.0	480.9	481.0	401.0	1500.0	481.0	561.1	481.0	561.1	5000.0	641.3	801.6	
20	Magnesium(mg/l)	1361.0	1652.4	1458.0	1020.6	972.0	1750.0	1603.8	1361.0	972.0	1093.5	437.4	972.0	
21	Sulphate(mg/l)	3127.0	5008.0	4624.8	1968.0	3613.80	1985.0	1763.7	1976.8	1365.7	1821.15	2338.9	3042.7	
22	Sodium(mg/l)	65.0	-	-	-	-	-	10940.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	33072.0	37254.0	33170.0	24669.0	21000.0	28382.0	31820.0	33220.0	33563.0	32301.0	34193.0	34214.0	
24	Total Fixed Solids(mg/l)	17559.0	18266.0	16301.0	11031.0	11353.0	18980.0	15301.0	16101.0	16647.0	16131.0	27000.0	24587.0	
25	Total Suspended Solids(mg/l)	92.0	129.0	88.0	98.0	88.0	42.0	70.0	83.0	70.0	59.0	18.0	51.0	
26	Phosphate(mg/l)	0.12	1.47	0.14	0.18	0.321	0.098	0.06	0.04	0.24	0.267	0.02	0.40	
27	Boron(mg/l)	0.58	-	-	-	-	-	0.82	-	-	-	-	-	
28	Potassium(mg/l)	3.2	-	-	-	-	-	344.0	-	-	-	-	-	
29	Flouride(mg/l)	2.73	0.71	0.8	0.28	BDL	0.74	0.68	0.87	1.0	1.0	1.04	1.32	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.064	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.254	-	-	-	-	-	0.191	-	-	-	-	-	
36	Zinc(mg/l)	0.128	-	-	-	-	-	0.106	-	-	-	-	-	
37	IronTotal(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	



**COLVA BEACH 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	31	33	30	28	28	28	28	30	30	30	30	31	
2	Dissolved Oxygen(mg/l)	6.7	6.2	6.5	6.9	6.7	7.2	7.0	6.6	7.0	6.6	7.0	6.2	4 mg/l or more
3	pH	8.10	7.90	7.80	7.70	7.35	7.73	7.46	7.73	7.87	7.84	7.86	7.75	6.5 - 8.5
4	Conductivity(µs/cm)	64670.0	62570.0	56340.0	34350.0	37330.0	43130.0	55640.0	56530.0	56670.0	52660.0	52570.0	54840.0	
5	BOD(mg/l)	BDL	2.2	BDL	BDL	BDL	BDL	BDL	2.0	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.41	0.1	0.14	0.1	BDL	0.60	0.11	0.08	0.10	BDL	0.17	0.22	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	BDL	0.016	0.03	BDL	0.018	BDL	BDL	0.008	BDL	BDL	
8	Total Coliform(MPN/100ml)	130	49	130	350	220	280	240	33	240	79	130	110	
9	Fecal Coliform(MPN/100ml)	33	23	49	240	94	110	130	23	130	23	33	79	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	23	24	541	351	18	32	50	111	171	
11	Turbidity(NTU)	2.52	3.85	15.61	4.16	8.97	40.5	7.49	3.50	2.95	6.30	4.47	3.84	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	20.0	18.0	12.0	6.0	8.0	4.0	10.0	12.0	20.0	BDL	6.0	14.0	
13	Total Alkalinity(mg/l)	124.0	110.0	112.0	90.0	90.0	106.0	124.0	120.0	120.0	120.0	122.0	114.0	
14	Chlorides(mg/l)	18468.0	19427.0	18847.9	15768.2	13621.0	18345.0	19201.49	18468.0	17978.47	17612.00	18119.40	18494.30	
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	12.2	-	-	-	-	-	15.12	-	-	-	28.02	11.2	
17	Ammonia (mg/l)	0.09	0.17	BDL	0.20	0.106	BDL	BDL	0.20	BDL	BDL	0.14	BDL	
18	Total Hardness(mg/l)	12000.0	8000.0	8800.0	25500.0	4000.0	13000.0	7000.0	7000.0	7000.0	8000.0	4000.0	6200.0	
19	Calcium(mg/l)	433.0	401.0	1400.0	1402.8	601.20	1202.0	1603.2	561.1	1603.2	1803.0	480.9	641.3	
20	Magnesium(mg/l)	2654.0	1701.0	1798.2	5346.0	607.50	2430.0	1311.42	1360.8	1311.42	851.00	680.40	1117.80	
21	Sulphate(mg/l)	4401.0	1976.0	5084.0	2840.5	1495.0	2411.0	2965.3	1365.6	4062.2	3654.0	2175.2	1613.0	
22	Sodium(mg/l)	2700.0	-	-	-	-	-	10390.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	38802.0	43799.0	34931.0	21640.0	22000.0	25878.0	33442.0	33513.0	33932.0	31564.0	31702.0	32616.0	
24	Total Fixed Solids(mg/l)	21963.0	17520.0	21794.0	14285.0	20330.0	18956.0	17153.0	16513.0	15000.0	15180.0	19400.0	18770.0	
25	Total Suspended Solids(mg/l)	31.0	42.0	47.0	47.0	111.0	33.0	42.0	89.0	74.0	60.0	69.0	73.0	
26	Phosphate(mg/l)	0.24	0.05	0.19	0.08	0.18	0.06	0.124	0.12	0.065	0.047	BDL	0.05	
27	Boron(mg/l)	1.6	-	-	-	-	-	1.12	-	-	-	-	-	
28	Potassium(mg/l)	170.0	-	-	-	-	-	354.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	BDL	0.52	BDL	1.06	0.58	0.34	2.21	0.29	0.222	BDL	0.86	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.016	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.053	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.301	-	-	-	-	-	0.298	-	-	-	-	-	
36	Zinc(mg/l)	0.181	-	-	-	-	-	0.112	-	-	-	-	-	
37	IronTotal(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**VAGATOR BEACH 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	30	30	29	26	30	30	29	30	29	29	30	
2	Dissolved Oxygen(mg/l)	5.7	4.6	5.7	7.1	6.8	6.8	6.0	6.3	6.1	6.4	6.6	6.7	4 mg/l or more
3	pH	7.73	7.91	7.80	7.80	6.70	7.80	7.65	7.70	7.83	7.34	7.98	6.56	6.5 - 8.5
4	Conductivity(µs/cm)	60420.0	63850.0	57630.0	33260.0	25590.0	55380.0	44740.0	53520.0	57650.0	49050.0	58700.0	57500.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.1	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.21	0.40	0.59	0.34	1.50	0.31	0.74	0.84	BDL	0.251	BDL	0.320	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	0.04	0.012	0.01	0.009	0.011	0.008	0.005	BDL	BDL	BDL	0.009	
8	Total Coliform(MPN/100ml)	33	33	23	280	170	170	170	280	33	350	240	220	
9	Fecal Coliform(MPN/100ml)	13	13	13	130	79	70	140	170	13	17	130	110	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	281	>1601	>1601	>1601	351	50	921	47	42	
11	Turbidity(NTU)	4.73	11.90	17.83	34.4	6.91	22.20	5.18	5.20	2.20	3.41	4.40	7.26	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	14.0	16.0	14.0	12.0	BDL	16.0	6.0	12.0	10.0	14.0	20.0	12.0	
13	Total Alkalinity(mg/l)	110.0	120.0	102.0	68.0	84.0	98.0	112.0	110.0	116.0	94.0	112.0	106.0	
14	Chlorides(mg/l)	22743.0	19244.0	18455.0	10745.0	13477.0	17120.0	16513.0	16877.0	17345.0	18712.28	17994.40	17122.00	
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	13.16	-	-	-	-	-	11.76	-	-	-	70.0	25.22	
17	Ammonia (mg/l)	0.125	0.13	BDL	BDL	0.10	0.03	0.07	0.06	0.06	BDL	0.09	BDL	
18	Total Hardness(mg/l)	7200.0	7800.0	8000.0	3400.0	2100.0	6000.0	4800.0	5320.0	5000.0	4800.0	5000.0	6500.0	
19	Calcium(mg/l)	480.96	881.8	401.0	321	240	401.0	240.0	561.0	802.0	1282.6	561.1	561.0	
20	Magnesium(mg/l)	1458.0	1361.0	1701.0	632.0	364.0	1215.0	594.0	953.0	729.0	854.73	874.8	1239.0	
21	Sulphate(mg/l)	1595.4	1695.0	1764.0	979.0	1014.0	1026.0	1021.0	2060.0	5004.0	1654.43	1478.6	2431.0	
22	Sodium(mg/l)	4160.0	-	-	-	-	-	8140.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	35681.0	37672.0	40341.0	23282.0	17913.0	38766.0	31318.0	37464.0	33437.0	28476.0	34845.0	35687.0	
24	Total Fixed Solids(mg/l)	33664.0	35665.0	24205.0	9310.0	10747.0	23250.0	18790.0	22478.0	25410.0	15466.0	20254.0	17428.0	
25	Total Suspended Solids(mg/l)	125.0	114.0	94.0	49.0	66.0	83.0	69.0	98.0	5.0	52.0	72.0	34.0	
26	Phosphate(mg/l)	0.132	BDL	0.07	0.17	0.08	0.039	0.05	0.04	0.04	0.023	0.03	BDL	
27	Boron(mg/l)	1.84	-	-	-	-	-	1.58	-	-	-	-	-	
28	Potassium(mg/l)	630.0	-	-	-	-	-	211.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	1.05	1.35	1.11	1.09	1.61	2.83	1.20	0.52	1.15	0.41	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.044	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.021	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.305	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.161	-	-	-	-	-	0.094	-	-	-	-	-	
37	Iron Total(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	-	-	-	-	-	-	BDL	-	-	-	-	-	

## VELSAO BEACH 2020-2021

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	32	29	29	26	26	29	30	29	30	32	32	
2	Dissolved Oxygen(mg/l)	6.2	5.9	6.4	6.7	7.0	6.5	6.6	5.4	5.0	6.6	6.7	5.5	4 mg/l or more
3	pH	8.09	7.96	7.80	7.70	7.50	7.80	7.67	7.78	7.69	7.42	8.03	8.14	6.5 - 8.5
4	Conductivity(us/cm)	64720.0	63990.0	56970.0	33190.0	28350.0	48580.0	53820.0	55650.0	56650.0	57590.0	58590.0	59530.0	
5	BOD(mg/l)	3.5	2.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.47	1.2	0.94	0.94	1.20	0.31	0.25	0.17	0.372	BDL	BDL	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	0.042	0.04	0.053	0.123	0.006	BDL	0.069	BDL	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	23	33	17	540	240	110	110	170	140	110	22	170	
9	Fecal Coliform(MPN/100ml)	13	23	13	240	79	49	70	110	94	23	7.8	130	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	7.8	>1601	541	171	281	111	131	34	22	
11	Turbidity(NTU)	3.1	4.65	10.48	6.55	12.31	12.10	2.75	4.18	4.19	4.23	4.31	4.27	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	8.0	8.0	14.0	4.0	6.0	10.0	BDL	18.0	BDL	16.0	20.0	10.0	
13	Total Alkalinity(mg/l)	118	120.0	106.0	84.0	84.0	92.0	26.0	100.0	104.0	106.0	110.0	110.0	
14	Chlorides(mg/l)	19305	19323.8	18577.0	10345.0	9713.0	13234.0	19764.0	17985.6	17856.2	17862.4	18345.4	17978.47	
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	12.04	-	-	-	-	-	15.12	-	-	-	7.0	1.12	
17	Ammonia (mg/l)	0.14	0.27	0.13	0.47	0.10	0.09	0.05	0.11	BDL	0.11	BDL	0.07	
18	Total Hardness(mg/l)	7800	17500.0	5760.0	4200.0	3100.0	5600.0	5520.0	4500.0	4500.0	6500.0	6200.0	9500.0	
19	Calcium(mg/l)	802	801.6	385.0	321	240.0	481.0	449.0	601.2	2500.0	360.7	3400.0	2004.0	
20	Magnesium(mg/l)	1409	3766.5	1166.0	826	607.0	1069.0	1069.0	729.0	486.0	1360.0	680.04	1821.53	
21	Sulphate(mg/l)	4977	3555.5	1526.0	1149.0	1150.0	1198.0	2170.0	3151.6	2441.0	3946.9	7246.46	3426.55	
22	Sodium(mg/l)	10200.0	-	-	-	-	-	9800.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	45304	39673.0	39879.0	23233.0	19845.0	34006.0	32141.0	33947.0	33998.0	35705.0	32350.0	33752.0	
24	Total Fixed Solids(mg/l)	18122	28961.0	15952.0	13940.0	11907.0	20403.0	18447.0	21471.0	15508.0	21564.0	16140.0	15337.0	
25	Total Suspended Solids(mg/l)	65	34.0	84.0	52.0	76.0	87.0	44.0	22.0	63.0	64.0	12.0	12.0	
26	Phosphate(mg/l)	0.15	0.58	1.21	0.52	0.25	0.08	0.05	0.09	0.69	0.11	0.121	0.184	
27	Boron(mg/l)	1.72	-	-	-	-	-	1.50	-	-	-	-	-	
28	Potassium(mg/l)	570.0	-	-	-	-	-	369.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	0.63	1.37	1.35	1.10	1.64	1.05	1.06	0.098	1.4	BDL	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.821	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.047	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.304	-	-	-	-	-	0.349	-	-	-	-	-	
36	Zinc(mg/l)	0.16	-	-	-	-	-	0.15	-	-	-	-	-	
37	IronTotal(mg/l)	BDL	-	-	-	-	-	0.099	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

RIVER MANDOVI AT RIBANDAR-CHODAN FERRY, PANAJI 2020-2021														
Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	29	32	30	29	29	30	30	29	28	29	30	30	
2	Dissolved Oxygen(mg/l)	6.2	5.5	5.3	6.8	7.8	7.7	6.8	5.7	6.5	6.3	5.9	7.3	4 mg/l or more
3	pH	7.42	7.67	7.61	7.02	6.80	6.93	6.79	7.56	7.67	7.51	7.68	7.54	6.5 - 8.5
4	Conductivity(us/cm)	51560.0	56140.0	52740.0	312.2	87.17	7019.0	10600.0	46190.0	49130.0	53620.0	48530.0	54750.0	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.26	0.22	0.80	1.04	0.59	BDL	0.14	BDL	0.12	0.1	0.19	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.03	0.08	BDL	BDL	BDL	BDL	BDL	0.007	BDL	0.020	0.011	0.03	
8	Total Coliform(MPN/100ml)	210	200	240	280	280	260	240	220	170	330	220	700	
9	Fecal Coliform(MPN/100ml)	93	82	91	84	94	91	100	94	92	230	110	330	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	-	-	-	64	>1601	24	35	111	32	211	151	111	
11	Turbidity(NTU)	10.06	4.57	18.56	2.94	7.17	5.4	7.15	3.40	6.52	4.17	3.49	4.16	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	4.0	BDL	BDL	BDL	BDL	BDL	4.0	6.0	10.0	6.0	BDL	6.0	
13	Total Alkalinity(mg/l)	120.0	128.0	128.0	32.0	30.0	38.0	42.0	88.0	100.0	112.0	116.0	112.0	
14	Chlorides(mg/l)	17220.0	19094.3	19324.0	734.0	16.0	685.0	5528.0	14799.0	17318.0	14043.5	16721.2	17495.0	
15	COD(mg/l)	-	-	-	6.0	6.0	8.0	-	-	-	-	-	-	
16	Total Kjeldahl Nitrogen(mg/l)	3.08	-	-	-	-	-	8.4	-	-	-	14.0	3.4	
17	Ammonia (mg/l)	BDL	0.11	BDL	BDL	BDL	BDL	0.08	0.10	0.05	0.18	0.05	0.17	
18	Total Hardness(mg/l)	7600.0	12500.0	10500.0	100.0	26.0	300.0	2000.0	3500.0	5400.0	3000.0	9400.0	7200.0	
19	Calcium(mg/l)	481.0	3000.0	2004.0	6.0	4.0	18.0	441.0	337.0	365.0	641.3	2725.4	1283.0	
20	Magnesium(mg/l)	1555.0	2308.5	1337.0	21.0	4.0	62.0	219.0	646.0	1091.0	340.2	631.8	972.0	
21	Sulphate(mg/l)	1325.0	3829.4	1613.0	86.0	7.0	86.0	681.0	883.0	2059.0	2830.6	1850.11	2650.00	
22	Sodium(mg/l)	8.2	-	-	-	-	-	1760.0	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	30936.0	35906.0	31189.0	189.0	52.0	4071.0	6257.0	27746.0	29478.0	32171.0	28147.0	32392.0	
24	Total Fixed Solids(mg/l)	11689.0	27469.0	16423.0	86.0	29.0	1582.0	1245.0	15241.0	12435.0	23275.0	27121.0	30397.0	
25	Total Suspended Solids(mg/l)	66.0	48.0	70.0	29.0	50.0	18.0	28.0	33.0	47.0	38.0	5.0	115.0	
26	Phosphate(mg/l)	0.07	0.05	0.09	0.08	0.09	0.03	0.06	0.06	0.08	0.03	BDL	0.11	
27	Boron(mg/l)	0.76	-	-	-	-	-	0.94	-	-	-	-	-	
28	Potassium(mg/l)	3.6	-	-	-	-	-	59.0	-	-	-	-	-	
29	Flouride(mg/l)	BDL	BDL	0.59	0.08	BDL	0.46	0.36	0.88	BDL	0.20	1.02	0.38	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.183	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.156	-	-	-	-	-	0.085	-	-	-	-	-	
36	Zinc(mg/l)	0.183	-	-	-	-	-	0.046	-	-	-	-	-	
37	IronTotal(mg/l)	0.347	-	-	-	-	-	0.119	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**INLET SAMPLE TO STP AT TONCA, PANAJI 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit
1	pH	6.91	5.6	5.4	6.79	6.79	7.40	7.01	7.16	7.14	6.68	6.65	6.37	
2	BOD(mg/l)	178.6	150.0	160.0	260.0	78.6	363.6	146.7	456.1	371.4	193.0	210.0	375	
3	Total Coliform(MPN/100ml)	-	-	-	-	-	54000000	54000000	-	-	35000000	9200000	9200000	
4	Fecal Coliform(MPN/100ml)	-	-	-	-	-	24000000	35000000	-	-	13000000	5400000	5400000	
5	Fecal Streptococci (MPN/100ml)	-	-	-	-	-	>1601	221	>1601	431	>1601	>1601	>1601	
6	COD(mg/l)	360.0	310.0	340.0	500.0	180.0	760.0	340.0	880.0	680.0	440.0	440.0	600.0	
7	Ammonical Nitrogen mg/l	0.95	545	40.7	0.17	1.91	49.5	12.61	64.8	42.3	3.15	-	13.9	
8	Total Suspended Solids(mg/l)	132.0	80.0	53.0	138.0	62.0	1550.0	570.0	1815.0	341.0	220.0	238.0	222.0	
9	Phosphate(mg/l)	1.13	23.0	12.3	0.63	0.68	15.3	4.69	15.10	12.10	7.82	-	8.84	
10	Residual Chlorine mg/l	0.18	0.9	0.18	0.35	0.18	0.35	0.18	0.53	0.35	-	-	0.35	
11	MLSS mg/l	875.0	80.0	53.0	138.0	62.0	1550.0	570.0	1815.0	341.0	-	-	222	
12	MLVSS mg/l	585.0	105	37.0	93.0	42.0	1055.0	389.0	1230.0	223.0	-	-	-	
13	Oil & Grease mg/l	-	-	-	-	-	-	-	-	-	-	<10.0	<10	
14	Total Kjeldahl Nitrogen(mg/l)	11.31	-	-	-	-	-	28.56	-	-	-	-	-	
15	Sodium(mg/l)	178	-	-	-	-	-	32.3	-	-	-	-	-	
16	Boron(mg/l)	1.22	-	-	-	-	-	1.08	-	-	-	-	-	
17	Potassium(mg/l)	15.4	-	-	-	-	-	7.0	-	-	-	-	-	
18	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
19	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
20	Copper(mg/l)	BDL	-	-	-	-	-	1.239	-	-	-	-	-	
21	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
22	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
23	Nickel(mg/l)	BDL	-	-	-	-	-	0.098	-	-	-	-	-	
24	Zinc(mg/l)	BDL	-	-	-	-	-	0.065	-	-	-	-	-	
25	Iron Total(mg/l)	BDL	-	-	-	-	-	0.140	-	-	-	-	-	

**OUTLET SAMPLE TO STP AT TONCA, PANAJI 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit
1	pH	6.96	5.75	8.07	7.44	6.26	6.95	6.83	7.25	7.22	6.05	6.80	6.73	5.5-9
2	BOD(mg/l) mg/l	8.4	16.0	12.0	7.6	8.4	12.57	11.37	11.38	15.2	6.0	8	2.8	30.0
3	Total Coliform(MPN/100ml)	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
4	Fecal Coliform(MPN/100ml)	Nil	Nil	Nil	Nil	Nil	NIL	NIL	NIL	NIL	NIL	Nil	Nil	
5	Fecal Streptococci (MPN/100ml)	-	-	-	16	28	171	241	351	281	64	7.8	-	
6	COD(mg/l) mg/l	20.0	40.0	30.0	20.0	20.0	30.0	30.0	30.0	40	20	40	30	250.0
7	Ammonical Nitrogen mg/l	0.15	3.0	0.06	0.07	BDL	0.08	0.06	0.06	3	0.1	-	0.29	50.0
8	Total Suspended Solid (mg/l)	12.0	18.0	20.0	14.0	8.0	11.0	15.0	12.0	11.0	10.0	9.0	14.0	100.0
9	Phosphate(mg/l) mg/l	0.03	0.7	4.1	0.08	0.08	0.50	0.25	0.28	0.13	0.92	-	0.51	
10	Residual Chlorine mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-	-	BDL	1.0
11	Oil & Grease	BDL	<10.0	<10.0	BDL	BDL	BDL	BDL	BDL	BDL	-	<10.0	<10	
12	MLSS mg/l	-	-	-	-	-	-	-	-	-	-	-	14	
13	Total Kjeldahl Nitrogen(mg/l)	15.68	-	-	-	-	-	2.91	-	-	-	-	-	
14	Sodium(mg/l)	25.1	-	-	-	-	-	102.0	-	-	-	-	-	
15	Boron(mg/l)	0.54	-	-	-	-	-	0.64	-	-	-	-	-	
16	Potassium(mg/l)	6.0	-	-	-	-	-	9.6	-	-	-	-	-	
17	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
18	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
19	Copper(mg/l)	BDL	-	-	-	-	-	1.387	-	-	-	-	-	
20	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
21	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
22	Nickel(mg/l)	0.252	-	-	-	-	-	BDL	-	-	-	-	-	
23	Zinc(mg/l)	0.101	-	-	-	-	-	0.078	-	-	-	-	-	
24	IronTotal(mg/l)	0.231	-	-	-	-	-	0.129	-	-	-	-	-	

## SALMONA SPRING 2020-2021

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Permissible Limits
1	Temperature°C	28	30	29	29	26	29	29	28	29	28	28	32	
2	Dissolved Oxygen(mg/l)	6.9	7.6	6.8	7.3	7.2	6.8	6.8	7.0	7.6	6.8	7.5	7.7	
3	pH	8.45	7.84	6.80	6.50	6.01	6.50	6.00	6.20	6.48	8.26	7.06	7.02	6.5-8.5
4	Conductivity(µs/cm)	103.74	101.5	123.0	99.2	85.79	124.67	105.55	141.43	99.58	131.52	82.03	107.60	
5	BOD(mg/l)	BDL	BDL	2.2	BDL	BDL	2.2	BDL	BDL	BDL	BDL	BDL	BDL	
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	0.14	BDL	1.99	2.77	10.61	2.13	1.89	1.98	1.09	0.11	BDL	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	23	79	79	280	350	280	540	540	240	130	1600	540	
9	Fecal Coliform(MPN/100ml)	13	23	33	220	240	170	220	240	130	22	540	350	
10	Fecal Streptococci (MPN/100ml)	-	-	-	541	241	>1601	>1601	>1601	921	>1601	50	921	
11	Turbidity(NTU)	1.66	1.30	1.39	BDL	BDL	1.45	2.07	2.68	2.32	4.28	2.69	8.38	1 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	18.0	20.0	14.0	10.0	8.0	12.0	10.0	12.0	22.0	20.0	20.0	26.0	200 mg/l
14	Chlorides(mg/l)	9.0	10.0	21.0	15.0	15.0	20.0	22.0	22.0	21.0	17.61	13.0	21.00	250 mg/l
15	COD(mg/l)	4.0	6.0	10.0	6.0	4.0	8.0	6.0	BDL	4.0	4.0	6.0	4.0	
16	Total Kjeldahl Nitrogen(mg/l)	9.4	-	-	-	-	-	11.2	-	-	-	56.0	11.21	
17	Ammonia (mg/l)	0.337	BDL	BDL	BDL	BDL	0.07	BDL	BDL	BDL	BDL	BDL	BDL	0.5 mg/l
18	Total Hardness(mg/l)	16.0	20.0	16.0	12.0	18.0	22.0	10.0	16.0	10.0	10.0	10.0	34.0	200 mg/l
19	Calcium(mg/l)	4.01	2.40	4.0	2.00	3.00	6.0	3.0	5.0	2.4	2.4	3.21	6.00	75 mg/l
20	Magnesium(mg/l)	BDL	3.4	BDL	BDL	2.0	2.0	BDL	BDL	BDL	BDL	BDL	5.0	30 mg/l
21	Sulphate(mg/l)	2.9	3.25	BDL	BDL	2.0	3.0	BDL	BDL	8.5	BDL	3.74	BDL	200 mg/l
22	Sodium(mg/l)	104.0	-	-	-	-	-	69.1	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	61.0	60.0	72.0	63.0	60.0	87.0	73.0	99.0	65.0	72.0	50.0	60.0	500 mg/l
24	Total Fixed Solids(mg/l)	53.0	50.0	42.0	22.0	36.0	52.0	43.0	59.0	42.0	22.0	32.0	21.0	
25	Total Suspended Solids(mg/l)	18.0	12.0	18.0	13.0	18.0	8.0	6.0	4.0	5.0	5.0	22.0	26.0	
26	Phosphate(mg/l)	0.048	0.02	BDL	0.02	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02	
27	Boron(mg/l)	0.24	-	-	-	-	-	0.46	-	-	-	-	-	
28	Potassium(mg/l)	1.2	-	-	-	-	-	3.1	-	-	-	-	-	
29	Flouride(mg/l)	BDL	BDL	BDL	0.52	0.20	BDL	BDL	BDL	0.88	BDL	BDL	BDL	1 mg/l
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	0.133	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.177	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.093	-	-	-	-	-	0.281	-	-	-	-	-	
37	IronTotal(mg/l)	0.134	-	-	-	-	-	0.216	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	

**CHAPOLI DAM 2020-2021**

Sr. No	Parameters	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Limit for class C river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	30	29	28	28	28	28	27	28	28	30	32	
2	Dissolved Oxygen(mg/l)	8.1	7.4	7.1	6.7	6.2	7.8	8.1	7.3	7.3	7.0	7.2	8.2	4 mg/l or more
3	pH	8.51	7.83	6.72	6.53	6.65	6.93	6.67	7.02	6.87	7.08	7.07	7.12	6-9
4	Conductivity(us/cm)	96.12	110.40	78.27	77.18	73.12	62.36	67.93	65.26	87.41	72.93	70.43	70.12	
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO <sub>3</sub> -N(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.69	BDL	BDL	BDL	BDL	
7	Nitrite Nitrogen as NO <sub>2</sub> -N mg/l	0.005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
8	Total Coliform(MPN/100ml)	49	49	170	540	350	280	350	340	350	17	350	170	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100ml)	22	33	79	220	240	170	240	220	240	13	130	79	
10	Fecal Streptococci (MPN/100ml)	-	-	-	50	7.8	80	15	50	171	7.1	95	48	
11	Turbidity(NTU)	2.50	4.42	4.82	2.77	2.52	4.43	1.82	2.38	1.86	2.13	1.80	1.71	
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
13	Total Alkalinity(mg/l)	42.0	34.0	36.0	32.0	20.0	26.0	36.0	30.0	36.0	30.0	14.0	26.0	
14	Chlorides(mg/l)	10.5	12.5	11.5	7.0	10.27	7.83	6.0	5.5	8.49	8.81	5.5	5.96	
15	COD(mg/l)	4.0	4.0	4.0	6.0	11.0	6.0	6.0	4.0	4.0	4.0	6.0	6.0	
16	Total Kjeldahl Nitrogen(mg/l)	4.2	-	-	-	-	-	6.72	-	-	-	14.0	14.0	
17	Ammonia (mg/l)	BDL	0.08	BDL	BDL	0.077	0.11	BDL	0.12	0.13	BDL	0.06	BDL	
18	Total Hardness(mg/l)	28.0	26.0	26.0	20.0	28.0	18.0	20.0	12.0	12.0	20.0	10.0	20.0	
19	Calcium(mg/l)	4.8	4.0	4.0	4.8	8.0	5.0	4.01	4.0	3.2	8.0	BDL	3.2	
20	Magnesium(mg/l)	3.9	3.9	3.9	BDL	4.86	BDL	2.43	BDL	BDL	2.92	BDL	2.9	
21	Sulphate(mg/l)	BDL	6.2	5.7	BDL	3.14	2.8	BDL	2.50	2.46	BDL	BDL	2.39	
22	Sodium(mg/l)	21.0	-	-	-	-	-	14.1	-	-	-	-	-	
23	Total Dissolved Solids(mg/l)	58.0	68.0	47.0	46.0	44.10	35.0	40.0	37.0	53.0	44.0	39.0	45.0	
24	Total Fixed Solids(mg/l)	34.0	37.0	27.0	24.0	20.0	21.0	21.0	23.0	25.0	20.0	25.0	23.0	
25	Total Suspended Solids(mg/l)	4.0	10.0	5.0	5.0	18.0	12.0	12.0	9.0	22.0	6.0	4.0	9.0	
26	Phosphate(mg/l)	0.16	0.04	0.09	BDL	0.051	BDL	0.03	BDL	BDL	BDL	0.17	0.02	
27	Boron(mg/l)	0.6	-	-	-	-	-	0.78	-	-	-	-	-	
28	Potassium(mg/l)	0.8	-	-	-	-	-	0.96	-	-	-	-	-	
29	Flouride(mg/l)	0.81	BDL	BDL	BDL	BDL	BDL	0.42	0.22	BDL	0.50	1.1	BDL	
30	Arsenic(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
31	Cadmium(mg/l)	BDL	-	-	-	-	-	0.010	-	-	-	-	-	
32	Copper(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
33	Lead(mg/l)	BDL	-	-	-	-	-	0.093	-	-	-	-	-	
34	Chromium(mg/l)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
35	Nickel(mg/l)	0.216	-	-	-	-	-	BDL	-	-	-	-	-	
36	Zinc(mg/l)	0.082	-	-	-	-	-	0.034	-	-	-	-	-	
37	Iron Total(mg/l)	0.400	-	-	-	-	-	BDL	-	-	-	-	-	
38	Carbaryl (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
39	DDT-o,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
40	DDT-p,p' (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
41	alpha Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
42	beta Endosulfan(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
43	Anilofos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
44	2,4-Dichlorophenoxyacetic acid(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
45	Aldrin/Dieldrin (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
46	Alpha HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
47	Beta HCH (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
48	Chlorpyrifos (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
49	Gamma-HCH (Lindane) (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
50	Malathion (mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	
51	Methyl parathion(mg/L)	BDL	-	-	-	-	-	BDL	-	-	-	-	-	