

Surface Water Quality Data in Puducherry for JAN - MAR 2021 Quarter

Sl.No.	Parameters	Bahour Lake	Chunnambar River	Kanagan Lake	Ousteri Lake
	Station Code	1686	1689	4634	1396
1	Latitude	11° 49' 47.8"N	11° 52' 59.9"N	11° 56' 50.4"N	11° 57'01.9" N
2	Longitude	79° 44' 35.3"E	79° 47' 57.0"E	79° 45' 58.9"E	79° 44' 47.7" E
3	Dt.of Sampling	27.01.2021	27.01.2021	27.01.2021	02.02.2021
4	Time	12.00 P.M	01.45 P.M	02.45 P.M	03.00 P.M
5	Temperature °C	30.0	32.0	32.0	29.0
6	DO mg/l	5.2	7.0	14.1	6.9
7	pH	7.37	8.11	8.92	6.30
8	Conductivity µmho/cm	249	553	1682	283
9	COD (mg/l)	20.0	24.0	96.0	20.0
10	BOD (mg/l)	1.8	2.8	30.0	2.3
11	Turbidity NTU	1.2	7.2	10.0	1.8
12	Nitrate -N (mg/l)	1.2	1.2	3.0	0.8
13	Nitrite-N (mg/l)	BDL (DL-0.02)		1.3	BDL (DL-0.02)
14	Nitrate (mg/l)	5.4	5.5	13.4	3.6
15	Bi- Carbonate (mg/l)	101.0	202.2	254.1	112.2
16	P. Alkalinity (mg/l)	Nil	22.2	34.3	Nil
17	Total Alkalinity (mg/l)	82.8	187.9	242.4	92
18	Chloride (mg/l)	19.9	70.3	331.6	19
19	Ammonia -N (mg/l)	BDL (DL-0.01)	0.02	0.66	BDL (DL-0.01)
20	Total Hardness as CaCO ₃ (mg/l)	54	176	296	74.7
21	Calcium Hardness as CaCO ₃ (mg/l)	30	100	200	54.5
22	Magnesium Hardness as CaCO ₃ (mg/l)	24	76	96	20.2
23	Calcium as Ca ⁺⁺ (mg/l)	12	40	80	21.8

Sl.No.	Parameters	Bahour Lake	Chunnambar River	Kanagan Lake	Ousteri Lake
	Station Code	1686	1689	4634	1685
24	Magnesium as Mg ⁺⁺ (mg/l)	5.8	18.5	23.3	4.91
25	TDS (mg/l)	147	353	1051	187
26	TSS (mg/l)	BDL (DL-10)	20	40	BDL (DL-10)
27	FDS /TFS (mg/l)	77	153	637	72
28	Sodium (mg/l)	26.7	45.5	340.4	11.4
29	Potassium (mg/l)	1.58	4.14	16.4	3.4
30	Hexavalent Chromium (mg/l)	BDL			
31	Sulphate (mg/l)	10.1	30.4	74.8	18.8
32	Ortho phosphate (mg/l)	0.1600	0.1600	BDL (0.05)	0.090
33	% Sodium	50.80	35.17	69.94	23.82
34	SAR	1.60	1.50	8.60	0.60
35	Gamma BHC µg/L	BDL(DL-0.05)			
36	OP DDT µg/L	BDL(DL-0.05)			
37	PP DDT µg/L	BDL(DL-0.05)			
38	PP DDD µg/L	BDL			
39	PP DDE µg/L	BDL(DL-0.05)			
40	Alpha Endosulphan µg/L	BDL(DL-0.05)			
41	Beta Endosulphan µg/L	BDL(DL-0.05)			
42	Chloropyriphos µg/L	BDL(DL-0.50)			
43	Butachlor µg/L	BDL(DL-0.01)			
44	Alachlor µg/L	BDL(DL-0.01)			
45	Atrazine µg/L	BDL(DL-0.01)			
46	Aldrin µg/L	BDL(DL-0.05)			
47	Dieldrin µg/L	BDL(DL-0.05)			
48	Monochorotophos µg/L	BDL			

Sl.No.	Parameters	Bahour Lake	Chunnambar River	Kanagan Lake	Ousteri Lake
	Station Code	1686	1689	4634	1685
49	Ethion µg/L	BDL(DL-0.50)			
50	Phorate µg/L	BDL			
51	2,4-D µg/L	BDL(DL-1.52)			
52	Isoproturon µg/L	BDL			
53	Methyl Parathion µg/L	BDL(DL-0.50)			
54	Malathion µg/L	BDL(DL-0.50)			
55	Heptachlor µg/L	BDL			
56	Chlorandane µg/L	BDL			
57	Carbaryl (Carbamate) µg/L	BDL(DL-0.01)			
58	Alpha HCH µg/L	BDL (DL-0.05)			
59	Beta HCH µg/L	BDL (DL-0.05)			
60	Copper (mg/l)	BDL (DL-0.01)	0.031	0.036	0.085
61	Nickel (mg/l)	BDL (DL-0.01)			
62	Cadmium (mg/l)	BDL (DL-0.001)			
63	Lead (mg/l)	BDL (DL-0.005)			
64	Total Chromium (mg/l)	BDL (DL-0.01)			
65	Iron (mg/l)	0.28	0.37	1.69	0.12
66	Zinc (mg/l)	BDL (DL-0.1)			
67	Arsenic (mg/l)	BDL (DL-0.005)			
68	Mercury (mg/l)	BDL (DL-0.0005)			
69	Total Coliform MPN/100 ml	1600	1600	1600	1600
70	Faecal Coliform MPN/100ml	<2	350	500	<2
71	Faecal Streptococci MPN/100ml	<2	<2	<2	<2

BDL - Below Detectable Limit; DL - Detection Limit

