

Surface Water Quality Data in Puducherry for JUL - SEP 2023 Quarter

Sl. No.	Parameters	Chunnambar River	Bahour Lake	Ousteri Lake
	Station Code	1689	1686	1396
1	Latitude	11.883585 N	11.829944 N	11.950528 N
2	Longitude	79.787326 E	79.743139 E	79.746583 E
3	Dt.of Sampling	24.07.2023	24.07.2023	24.07.2023
4	Time	10:50 AM	11:55 AM	1:45 PM
5	Temperature °C	31.5	32	31
6	DO mg/l	8.8	2.7	5.5
7	pH	8.93	8.17	7.6
8	Conductivity µmho/cm	1442	1389	664
9	COD (mg/l)	68.0	136.0	24.0
10	BOD (mg/l)	9.0	12.0	BDL (DL - 3.0)
11	Turbidity NTU	15.6	30.5	1.1
12	Nitrate -N (mg/l)	BDL (DL - 0.3)		
13	Nitrite-N (mg/l)	BDL (DL - 0.02)		
14	Nitrate (mg/l)	BDL		
15	Carbonate (mg/l)	19.2	7.2	BDL (DL - 3.0)
16	Bi- Carbonate (mg/l)	209.84	275.72	179.34
17	P. Alkalinity (mg/l)	32	12	BDL (DL - 5.0)
18	Total Alkalinity (mg/l)	204	238	147
19	M. Alkalinity (mg/l)	172	226	147
20	Chloride (mg/l)	252.54	222.43	63.14
21	Ammonia -N (mg/l)	0.56	0.88	BDL (DL - 0.4)
22	Total Hardness as CaCO ₃ (mg/l)	176	180	106
23	Calcium Hardness as CaCO ₃ (mg/l)	76.0	100.0	70.0
24	Magnesium Hardness as CaCO ₃ (mg/l)	100.0	80.0	36.0
25	Calcium as Ca ⁺⁺ (mg/l)	30.4	40.0	28.0

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26	Magnesium as Mg ⁺⁺ (mg/l)	24.3	19.44	8.75
27	TDS (mg/l)	773.0	745.0	265.0
28	TSS (mg/l)	32.0	47.0	BDL (DL - 10.0)
29	FDS /TFS (mg/l)	594.0	450.0	73.0
30	Sodium (mg/l)	208.2	182.6	48.1
31	Potassium (mg/l)	6.34	8.94	6.3
32	Hexavalent Chromium	BDL		
33	Sulphate (mg/l)	43.35	41.52	BDL (DL - 5.0)
34	Ortho phosphate (mg/l)	BDL (DL - 0.05)		
35	% Sodium	70.94	67.35	47.72
36	SAR	6.80	5.90	2.0
37	Copper (mg/l)	BDL		
38	Nickel (mg/l)	BDL		
39	Cadmium (mg/l)	BDL		
40	Lead (mg/l)	BDL		
41	Total Chromium (mg/l)	BDL		
42	Iron (mg/l)	0.619	4.196	0.605
43	Zinc (mg/l)	0.261	0.081	0.033
44	Arsenic (mg/l)	BDL		
45	Mercury (mg/l)	BDL		
46	Alpha HCH µg/l	BDL		
47	Gamma HCH µg/l	BDL		
48	Detla HCH µg/l	BDL		
49	Methyl Parathion µg/l	BDL		
50	Alachor µg/l	BDL		
51	Aldrin µg/l	BDL		
52	Malathion µg/l	BDL		
53	Chlorpyrifos µg/l	BDL		
54	Alpha Endosulfan µg/l	BDL		

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55	Butachlor µg/l	BDL		
56	Beta Endosulfan µg/l	BDL		
57	Phorate µg/l	BDL		
58	op DDT µg/l	BDL		
59	op DDD µg/l	BDL		
60	pp DDD µg/l	BDL		
61	op DDE µg/l	BDL		
62	pp DDE µg/l	BDL		
63	Dieldrin µg/l	BDL		
64	Ethion µg/l	BDL		
65	Endosulfan sulfate µg/l	BDL		
66	pp DDT µg/l	BDL		
67	Total Coliform MPN/100 ml	1600	1600	1600
68	Faecal Coliform MPN/100ml	1600	1600	1600
69	Faecal Streptococci MPN/100ml	210	220	170

BDL - Below Detectable Limit; DL - Detection Limit

Note : Sample was not collected in Kanagan Lake due to insufficient of water