

Surface Water Quality Data in Puducherry - Febuary 2025

Sl. No.	Parameters	Ousteri Lake	Kanagan Lake	Chunnambar River	Bahour Lake
	Station Code	1396	4634	1689	1686
1	Latitude	11.950528 N	11.935104 N	11.883585 N	11.829944 N
2	Longitude	79.746583 E	79.798522 E	79.787326 E	79.743139 E
3	Dt.of Sampling	03.02.2025	03.02.2025	04.02.2025	04.02.2025
4	Time	10.10 A.M	02.40 P.M	10.30 A.M	12.15 P.M
5	Temperature °C	29.0	30.0	30.0	29.5
6	DO mg/l	6.6	8.7	10.8	5.8
7	pH	8.10	7.71	8.29	7.35
8	Conductivity µmho/cm	342	724	787	574
9	COD (mg/l)	20.0	28	28.1	20.1
10	BOD (mg/l)	2.5	3.5	4.8	2.5
11	Turbidity NTU	2.8	6.5	19.7	3.3
12	Nitrate -N (mg/l)	BDL (DL:0.3)			
13	Nitrite-N (mg/l)	BDL (DL:0.02)			
14	Nitrate (mg/l)	BDL			
15	P. Alkalinity (mg/l)	BDL (DL: 5.0)	16	BDL (DL: 5.0)	
16	Total Alkalinity (mg/l)	83	119	135	117
17	Fluoride (mg/l)	0.63	0.77	1.03	0.68
18	Chloride (mg/l)	29.1	112.5	116.2	42.2
19	Ammonia -N (mg/l)	BDL (DL:0.4)	0.53	BDL (DL:0.4)	
20	Total Hardness as CaCO ₃ (mg/l)	106.0	158.0	192.0	128.0
21	Calcium Hardness as CaCO ₃ (mg/l)	50.0	126.0	86.0	60.0
22	Magnesium Hardness as CaCO ₃ (mg/l)	56.0	32.0	106.0	68.0
23	Calcium as Ca ⁺⁺ (mg/l)	20.0	50.4	34.4	24.0

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24	Magnesium as Mg ⁺⁺ (mg/l)	13.61	7.78	25.76	16.52
25	TDS (mg/l)	161	385	475	295
26	TSS (mg/l)	12.0	23.0	22.0	19.0
27	FDS /TFS (mg/l)	93	289	387	175
28	Sodium (mg/l)	23.07	71.9	88.47	48.32
29	Potassium (mg/l)	4.2	6.14	6.59	3.22
30	Sulphate (mg/l)	BDL	6.37	8.62	BDL
31	Ortho phosphate (mg/l)	BDL			
32	% Sodium	30.9	48.5	48.8	44.2
33	SAR	1.0	2.5	2.8	1.9
34	Copper (mg/l)	BDL (DL: 0.02)			
35	Nickel (mg/l)	BDL (DL: 0.005)			
36	Cadmium (mg/l)	BDL (DL: 0.001)			
37	Lead (mg/l)	BDL (DL: 0.005)			
38	Total Chromium (mg/l)	BDL (DL: 0.02)			
39	Iron (Total) mg/l	0.36	0.85	0.30	0.53
40	Zinc (mg/l)	BDL (DL: 0.05)			
41	Arsenic (mg/l)	BDL (DL: 0.005)			
42	Mercury (mg/l)	BDL (DL: 0.004)			
43	Total Coliform MPN/100 ml	220	130	220	540
44	Faecal Coliform MPN/100ml	220	130	220	540
45	Faecal Streptococci MPN/100ml	79	79	79	79
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			

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51	Aldrin µg/l	BDL			
52	Malathion µg/l	BDL			
53	Chlorpyrifos µg/l	BDL			
54	Alpha Endosulfan µg/l	BDL			
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			

BDL - Below Detectable Limit; DL - Detection Limit