

Surface Water Quality Data in Puducherry - Febuary 2026

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	02.02.2026	02.02.2026	03.02.2026	03.02.2026
4	Time	11.00 A.M	12.15 P.M	11.15 A.M	12.30 P.M
5	Temperature °C	28.0	28.0	29.0	29.0
6	DO mg/l	7.4	11.1	5.3	4.1
7	pH	8.82	8.99	7.99	7.44
8	Conductivity µmho/cm	589	1308	1070	525
9	COD (mg/l)	28.0	56.0	16.0	32.0
10	BOD (mg/l)	2.0	6.5	2.0	2.5
11	Turbidity NTU	3.0	20.2	BDL (DL:1.0)	1.9
12	Nitrate -N (mg/l)	BDL (DL: 0.3)			
13	Nitrite-N (mg/l)	BDL (DL:0.02)	0.04	BDL (DL:0.02)	
14	Nitrate (mg/l)	BDL			
15	P. Alkalinity (mg/l)	48	52	BDL (DL:5.0)	
16	Total Alkalinity (mg/l)	128	134	296	242
17	Fluoride (mg/l)	0.19	0.09	0.58	0.39
18	Chloride (mg/l)	54.0	308.6	159.1	54.0
19	Ammonia -N (mg/l)	BDL (DL: 0.4)			
20	Total Hardness as CaCO₃ (mg/l)	132.0	218.0	264.0	128.0
21	Calcium Hardness as CaCO₃ (mg/l)	70.0	110.0	106.0	54.0
22	Magnesium Hardness as CaCO₃ (mg/l)	62.0	108.0	158.0	74.0
23	Calcium as Ca⁺⁺ (mg/l)	28.0	44.0	42.4	21.6

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24	Magnesium as Mg ⁺⁺ (mg/l)	15.1	26.2	38.4	18.0
25	TDS (mg/l)	354	816	621	307
26	TSS (mg/l)	BDL (DL: 10.0)	58.0	BDL (DL: 10.0)	
27	FDS /TFS (mg/l)	197	548	368	145
28	Sodium (mg/l)	34.27	227.4	150	78.63
29	Potassium (mg/l)	3.60	11.20	3.66	1.28
30	Sulphate (mg/l)	5.92	46.64	46.46	8.09
31	Ortho phosphate (mg/l)	0.07	0.27	0.14	0.8
32	% Sodium	35.16	67.95	54.65	56.69
33	SAR	1.29	6.68	4.0	3.01
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	0.33	1.98	0.23	0.54
40	Zinc (mg/l)	BDL (DL:0.05)			
41	Arsenic (mg/l)	BDL (DL:0.005)			
42	Mercury (mg/l)	BDL (DL:0.0005)			
43	Total Coliform MPN/100 ml	350	540	430	350
44	Faecal Coliform MPN/100ml	140	94	120	94
45	Faecal Streptococci MPN/100ml	110	<1.8	140	170
46	Alpha HCH µg/l	BDL			
47	Gamma HCH µg/l	BDL			
48	Delta 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