

Surface Water Quality Data in Puducherry - January 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	05.01.2026	05.01.2026	05.01.2026	05.01.2026
4	Time	10.15 AM	11.00 AM	11.45 AM	12.30 PM
5	Temperature °C	28.0	28.0	28.0	28.0
6	DO mg/l	7.0	12.3	5.7	2.6
7	pH	8.37	8.93	8.30	7.51
8	Conductivity µmho/cm	481	1324	906	523
9	COD (mg/l)	12.0	48.0	8.0	12.0
10	BOD (mg/l)	1.3	5.3	BDL (DL: 1.0)	
11	Turbidity NTU	4.6	16.5	3.1	2.2
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)	8	26	8	BDL (DL: 5)
16	Total Alkalinity (mg/l)	137	103	275	198
17	Fluoride (mg/l)	0.2	0.3	0.6	0.5
18	Chloride (mg/l)	49.5	260.3	134.0	51.5
19	Ammonia -N (mg/l)	BDL (DL: 0.4)			
20	Total Hardness as CaCO₃ (mg/l)	119.6	182.4	237.3	103.9
21	Calcium Hardness as CaCO₃ (mg/l)	66.7	90.2	145.1	56.9
22	Magnesium Hardness as CaCO₃ (mg/l)	52.9	92.2	92.2	47.0
23	Calcium as Ca⁺⁺ (mg/l)	26.7	36.1	58.04	22.8

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24	Magnesium as Mg ⁺⁺ (mg/l)	12.9	22.4	22.4	11.4
25	TDS (mg/l)	244	716	538	304
26	TSS (mg/l)	BDL (DL: 10)	57	BDL (DL: 10)	
27	FDS /TFS (mg/l)	151	491	383	173
28	Sodium (mg/l)	100.1	1332.0	499.9	203.7
29	Potassium (mg/l)	7.7	17.51	20.03	3.7
30	Sulphate (mg/l)	6.17	41.69	37.99	6.35
31	Ortho phosphate (mg/l)	0.0750	BDL (DL: 0.05)	0.0527	BDL (DL: 0.05)
32	% Sodium	62.53	93.36	80.45	80.21
33	SAR	3.96	42.74	14.07	8.66
34	Total Coliform MPN/100 ml	280	210	220	240
35	Faecal Coliform MPN/100ml	79	84	94	110
36	Faecal Streptococci MPN/100ml	46	43	70	63

BDL - Below Detectable Limit; DL - Detection Limit