

Surface Water Quality Data in Puducherry - December 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	01.12.2025	01.12.2025	01.12.2025	01.12.2025
4	Time	10.30 AM	12.00 PM	12.45 PM	01.45 PM
5	Temperature °C	25.0	25.0	25.0	25.0
6	DO mg/l	7.3	8.1	5.4	6.0
7	pH	8.05	7.73	7.81	7.83
8	Conductivity µmho/cm	381	732	620	495
9	COD (mg/l)	32.0	24.0	20.0	32.0
10	BOD (mg/l)	2.4	3.8	1.6	1.0
11	Turbidity NTU	2.8	8.3	5.8	2.0
12	Nitrate -N (mg/l)	BDL (DL:0.3)			
13	Nitrite-N (mg/l)	BDL (DL:0.02)	0.05	BDL (DL:0.02)	
14	Nitrate (mg/l)	BDL			
15	P. Alkalinity (mg/l)	BDL (DL: 5.0)			
16	Total Alkalinity (mg/l)	134	132	178	176
17	Fluoride (mg/l)	0.33	0.21	0.44	0.55
18	Chloride (mg/l)	42.1	133.1	81.2	47.0
19	Ammonia -N (mg/l)	BDL (DL: 0.4)			
20	Total Hardness as CaCO ₃ (mg/l)	104.0	148.0	168.0	88.0
21	Calcium Hardness as CaCO ₃ (mg/l)	64.0	110.0	108.0	58.0
22	Magnesium Hardness as CaCO ₃ (mg/l)	40.0	38.0	60.0	30.0
23	Calcium as Ca ⁺⁺ (mg/l)	25.6	44	43.2	23.2

Sl. No.	Parameters	Ousteri Lake	Kanagan Lake	Chunnambar River	Bahour Lake
	Station Code	1396	4634	1689	1686
24	Magnesium as Mg ⁺⁺ (mg/l)	9.7	9.2	14.6	7.3
25	TDS (mg/l)	210	442	382	253
26	TSS (mg/l)	BDL (DL : 10)	25	10	BDL (DL:10)
27	FDS /TFS (mg/l)	113	225	176	153
28	Sodium (mg/l)	32.35	91.06	71.93	77.77
29	Potassium (mg/l)	3.58	6.94	5.23	3.00
30	Sulphate (mg/l)	7.58	27	22.55	7.31
31	Ortho phosphate (mg/l)	BDL (DL: 0.05)		0.3567	BDL (DL: 0.05)
32	% Sodium	39.2	55.7	47.1	64.7
33	SAR	1.40	3.20	2.40	3.60
34	Hexavalent Chromium (mg/l)	BDL (DL:0.05)			
35	Total Coliform MPN/100 ml	430	170	220	350
36	Faecal Coliform MPN/100ml	220	49	79	170
37	Faecal Streptococci MPN/100ml	130	46	70	94

BDL - Below Detectable Limit; DL - Detection Limit