

Surface Water Quality Data Puducherry for Oct - Dec Quarter 2023

Sl. No	Parameters	Chunnambar River	Bahour Lake	Ousteri Lake
	Station Code	1689	1686	1396
1	Latitude	11.883585	11.829944	11.950528
2	Longitude	79.787326	79.743139	79.746583
3	Dt.of Sampling	07.12.2023	07.12.2023	07.12.2023
4	Time	10.30 AM	11.40 AM	12.35 PM
5	Temperature °C	30.0	30.0	30.0
6	DO mg/l	9.5	5.7	7.1
7	pH	8.14	7.91	8.28
8	Conductivity μ mho/cm	856	883	440
9	COD (mg/l)	12.0	16.0	8.0
10	BOD (mg/l)	3.7	2	BDL (DL:1.0)
11	Turbidity NTU	2.9	3.8	2.5
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)	12.0	8.0	20.0
16	Total Alkalinity (mg/l)	192	184	200
17	Chloride (mg/l)	136.97	126.21	56.74
18	Ammonia -N (mg/l)	BDL (DL-0.4)		
19	Total Hardness as CaCO ₃ (mg/l)	194	182	94

Sl. No	Parameters	Chunnambar River	Bahour Lake	Ousteri Lake
	Station Code	1689	1686	1396
20	Calcium Hardness as CaCO ₃ (mg/l)	116	116	54
21	Magnesium Hardness as CaCO ₃ (mg/l)	78.0	66	40
22	Calcium as Ca ⁺⁺ (mg/l)	46.4	46.4	21.6
23	Magnesium as Mg ⁺⁺ (mg/l)	18.95	16.03	9.72
24	TDS (mg/l)	454.0	458.0	199
25	TSS (mg/l)	15.0	BDL (DL:10.0)	18.0
26	FDS /TFS (mg/l)	314	333	37
27	Sodium (mg/l)	86.54	93.12	42.47
28	Potassium (mg/l)	5.5	5.59	3.59
29	Hexavalent Chromium (mg/l)	BDL		
30	Sulphate (mg/l)	37.4	33.3	BDL (DL:5.0)
31	Ortho phosphate (mg/l)	BDL (DL-0.05)		
32	% Sodium	48.2	51.59	48.23
33	SAR	2.7	3.0	1.9

BDL - Below Detectable Limit

DL - Detection Limit

Note: Water was not available in Kanagan Lake. Hence water sample was not collected.