

Surface Water Quality Data in Puducherry for JAN - MAR 2023 Quarter

Sl. No.	Parameters	Chunnambar River	Ousteri Lake	Bahour Lake	Kanagan Lake
	Station Code	1689	1396	1686	4634
1	Latitude	11.883585 N	11.950528 N	11.829944 N	11.935104 N
2	Longitude	79.787326 E	79.746583 E	79.743139 E	79.798522 E
3	Dt.of Sampling	30.01.2023	02.02.2023	09.02.2023	14.02.2023
4	Time	4.00 PM	11:30 AM	5.15 PM	11.00 AM
5	Temperature °C	29 °C	28 °C	31 °C	29 °C
6	DO mg/l	9.2	6.8	9.3	5.5
7	pH	8.42	8.61	7.88	7.48
8	Conductivity µmho/cm	1378	418	1320	1235
9	COD (mg/l)	24.2	32.3	40.0	20.1
10	BOD (mg/l)	2.5	5.0	2.5	BDL (DL: 1.0)
11	Turbidity NTU	4.5	BDL (DL : 1.0)	2.5	3.1
12	Nitrate -N (mg/l)	BDL (DL : 0.3)			
13	Nitrite-N (mg/l)	BDL (DL : 0.02)			
14	Nitrate (mg/l)	BDL			
15	Carbonate (mg/l)	8.4	6.0	BDL (DL : 3.0)	
16	Bi- Carbonate (mg/l)	209.84	101.26	283.04	93.94
17	P. Alkalinity (mg/l)	14	10	BDL (DL : 5.0)	
18	Total Alkalinity (mg/l)	186	93	232	77
19	M. Alkalinity (mg/l)	172	83	232	77
20	Chloride (mg/l)	145.78	43.05	126.06	177.67
21	Ammonia -N (mg/l)	BDL (DL : 0.4)			
22	Total Hardness as CaCO ₃ (mg/l)	204.0	94.0	238.0	146.0
23	Calcium Hardness as CaCO ₃ (mg/l)	112	60	128	94
24	Magnesium Hardness as CaCO ₃ (mg/l)	92	34	110	52
25	Calcium as Ca ⁺⁺ (mg/l)	44.8	24	51.2	37.6

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	Station Code	1689	1396	1686	4634
26	Magnesium as Mg ⁺⁺ (mg/l)	22.36	8.26	26.73	12.64
27	TDS (mg/l)	591.0	261.0	515.0	684.0
28	TSS (mg/l)	18.0	20.0	BDL (DL : 10.0)	28.0
29	FDS /TFS (mg/l)	232.0	122.0	243.0	341.0
30	Sodium (mg/l)	103.31	22.13	71.50	76.93
31	Potassium (mg/l)	5.51	2.79	6.82	3.17
32	Hexavalent Chromium	BDL			
33	Sulphate (mg/l)	23.95	BDL (DL : 5.0)	24.05	38.98
34	Ortho phosphate (mg/l)	BDL (DL : 0.05)	0.34	0.16	BDL (DL : 0.05)
35	% Sodium	51.51	32.93	38.52	52.6
36	SAR	3.13	1.0	2.0	2.8
37	Copper (mg/l)	BDL (DL : 0.01)	0.014	BDL (DL : 0.01)	BDL (DL : 0.01)
38	Nickel (mg/l)	BDL (DL : 0.01)	0.11	BDL (DL : 0.01)	BDL (DL : 0.01)
39	Cadmium (mg/l)	BDL (DL : 0.001)			
40	Lead (mg/l)	BDL (DL : 0.005)			
41	Total Chromium (mg/l)	BDL (DL : 0.01)			
42	Iron (mg/l)	0.08	0.13	0.06	0.082
43	Zinc (mg/l)	BDL (DL : 0.01)	0.16	BDL (DL : 0.01)	BDL (DL : 0.01)
44	Arsenic (mg/l)	BDL (DL : 0.005)			
45	Mercury (mg/l)	BDL (DL : 0.0005)			
46	Total Coliform MPN/100 ml	280	210	170	140
47	Faecal Coliform MPN/100ml	84	63	47	33
48	Faecal Streptococci MPN/100ml	38	<1.8	<1.8	<1.8

BDL - Below Detectable Limit; DL - Detection Limit