

Surface Water Quality Data in Karaikal for JAN - Mar 2023 Quarter		
Sl.No.	Parameters	Arasalar River
	Station Code	1685
1	Latitude	10.9095 N
2	Longitude	79.817833 E
3	Dt.of Sampling	23.01.2023
4	Time	06.30 A.M
5	Temperature °C	26°C
6	DO mg/l	4.0
7	pH	7.46
8	Conductivity µmho/cm	990
9	Turbidity NTU	BDL (DL : 1.0)
10	COD (mg/l)	12.1
11	BOD (mg/l)	BDL (DL : 1.0)
12	Nitrate -N (mg/l)	BDL (DL : 0.3)
13	Nitrite -N (mg/l)	BDL (DL : 0.02)
14	Nitrate (mg/l)	0.27
15	Ammonia - N mg/l	BDL (DL : 0.4)
16	P. Alkalinity (mg/l)	BDL (DL : 5.0)
17	Carbonate as CO ₃ ²⁻ (mg/l)	BDL (DL : 3.0)
18	M. Alkalinity (mg/l)	220
19	Total Alkalinity (mg/l)	220
20	Bi-Carbonate as HCO ₃ ⁻ (mg/l)	268.4
21	Chloride mg/l	79.65
22	Total Hardness mg/l	184
23	Calcium Hardness mg/l	102
24	Calcium as Ca ⁺⁺ mg/l	40.8
25	Magnesium Hardness mg/l	82
26	Magnesium as Mg ⁺⁺ mg/l	19.926

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27	TDS mg/l	402
28	TSS (mg/l)	22.0
29	FDS/TFS mg/l	225
30	Sulphate (mg/l)	19.52
31	Ortho phosphate(mg/l)	0.23
32	Sodium mg/l	71.99
33	Potassium mg/l	3.97
34	Hexavalent Chromium mg/l	BDL
35	% Sodium	45.15
36	SAR	2.3
37	Copper (mg/l)	0.018
38	Nickel (mg/l)	0.018
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)	0.166
43	Zinc (mg/l)	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	170
47	Faecal Coliform MPN/100ml	<1.8
48	Faecal Streptococci MPN/100ml	<1.8

BDL - Below Detectable Limit DL - Detection Limit