

Quality of open well water in Mahe region - 2022

Sl. No .	Parameters	Pallur open well	Pandakkal open well	Acceptable limit	Permissible limit
	Station Code	2446	2447		
1	Latlong Value	11.732794 N	11.761178 N		
		75.538042 E	75.53695 E		
2	Dt.Of Sampling	02.08.2022	02.08.2022		
3	Time	10:30 AM	11:30 AM		
4	Temperature °C	27.5	27.0		
5	pH	5.44	5.40	6.5 - 8.5	NR
6	Conductivity µmho/cm	344.0	102		
7	BOD mg/l	BDL (DL - 1.0)			
8	Turbidity NTU	BDL (DL - 1.0)		1	5
9	Total Alkalinity mg/l	22	BDL (DL - 20)	200	600
10	Bi- Carbonate as HCO ₃ ⁻ mg/l	26.57	24.16		
11	P. Alkalinity mg/l	BDL (DL - 5.0)			
12	Carbonate as CO ₃ ²⁻ mg/l	BDL (DL - 3.0)			
13	Chloride mg/l	45.99	16.63	250	1000
14	COD mg/l	BDL(DL - 5.0)			
15	Total Hardness as CaCO ₃ mg/l	66.0	16.0	200	600
16	Calcium as CaCO ₃ mg/l	40.0	12.0		
17	Calcium as Ca ⁺⁺ mg/l	16.0	4.8	75	200
18	Magnesium as CaCO ₃ mg/l	26.0	BDL (DL - 4.0)		
19	Magnesium as Mg ⁺⁺ mg/l	6.318	0.972	30	100
20	TDS mg/l	270.0	50.0	500	2000
21	TSS mg/l	BDL (DL - 10)			
22	FDS / TFS mg/l	46.0	29.0		
23	Sodium mg/l	27.8	9.2		
24	Potassium mg/l	5.8	BDL (DL - 1.0)		
25	% Sodium	45.04	53.84		
26	SAR	1.5	1.0		
27	Nitrite Nitrogen as NO ₂ - N mg/l	BDL (DL - 0.02)			
28	Nitrate Nitrogen as NO ₃ - N mg/l	3.87	1.18		
29	Nitrate as NO ₃ ⁻ mg/l	17.6	5.24		
30	Ammonical Nitrogen as NH ₃ -N mg/l	BDL (DL - 0.4)			
31	Phosphate as PO ₄ ³⁻ mg/l	BDL (DL - 0.05)			
32	Sulphate as SO ₄ ²⁻ mg/l	9.64	8.92		

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33	Hexavalent Chromium as Cr ⁶⁺ mg/l	BDL (DL - 0.05)			
34	Arsenic mg/l	BDL (DL -0.00049)		0.01	0.05
35	Cadmium mg/l	BDL (DL - 0.00042)		0.003	NR
36	Copper mg/l	BDL (DL - 0.00035)		0.05	1.5
37	Lead mg/l	BDL (DL - 0.00031)		0.01	NR
38	Total Chromium mg/l	BDL (DL - 0.00056)		0.05	NR
39	Mercury mg/l	BDL (DL - 0.00052)		0.001	NR
40	Nickel mg/l	BDL (DL - 0.00054)		0.02	NR
41	Zinc mg/l	BDL (DL - 0.00059)		5	15
42	Iron mg/l	BDL (DL - 0.00067)		0.3	NR

BDL - Below Detectable Limit; DL - Detection Limit; NR - No Relaxation