

Quality of Open Well Water in Mahe region - 2024					
Sl. No.	Parameters	Pallur Open well	Pandakkal Open well	Acceptable limit	Permissible limit
	Station Code	2446	2447		
1	Latitude	11.732794 N	11.761178 N		
2	Longitude	75.538042 E	75.53695 E		
3	Dt.of Sampling	30.07.2024	30.07.2024		
4	Time	09.15 A.M	09.50 A.M		
5	Temperature °C	26.5	27.0		
6	pH	4.97	5.64	6.5-8.5	NR
7	Conductivity (µmho/cm)	357	253		
8	COD (mg/l)	BDL (DL: 5.0)			
9	BOD (mg/l)	BDL (DL : 1.0)			
10	Turbidity NTU	BDL (DL:1.0)		1	5
11	Nitrate -N (mg/l)	4.86	3.91		
12	Nitrite-N (mg/l)	BDL (DL - 0.02)			
13	Nitrate (mg/l)	21.5	17.3	45	NR
14	P. Alkalinity (mg/l)	BDL (DL - 5.0)			
15	Total Alkalinity (mg/l)	17	52	200	600
16	Chloride (mg/l)	45.7	24.3	250	1000
17	Ammonia -N (mg/l)	BDL(DL:0.4)			
18	Total Hardness as CaCO ₃ (mg/l)	78.0	82.0	200	600
19	Calcium Hardness as CaCO ₃ (mg/l)	62.0	68.0		
20	Magnesium Hardness as CaCO ₃ (mg/l)	16.0	14		
21	Calcium as Ca ⁺⁺ (mg/l)	24.8	27.2	75	200

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	Station Code	2446	2447		
22	Magnesium as Mg ⁺⁺ (mg/l)	3.9	3.4	30	100
23	TDS (mg/l)	92.0	67.0	500	2000
24	TSS (mg/l)	BDL (DL : 10.0)			
25	FDS /TFS (mg/l)	BDL (DL :10.0)			
26	Sodium (mg/l)	29.12	12.48		
27	Potassium (mg/l)	6.43	1.03		
28	Sulphate (mg/l)	13.56	BDL (DL:5.0)	200	400
29	Ortho phosphate (mg/l)	0.13	0.28		
30	% Sodium	42.26	24.53		
31	SAR	1.4	0.6		
32	Fluoride (mg/l)	0.26	BDL(DL:0.2)		
33	Copper (mg/l)	BDL		0.05	1.5
34	Nickel (mg/l)	BDL		0.02	NR
35	Cadmium (mg/l)	BDL		0.003	NR
36	Lead (mg/l)	BDL		0.01	NR
37	Total Chromium (mg/l)	BDL		0.05	NR
38	Iron (mg/l)	0.06	0.09	0.3	NR
39	Zinc (mg/l)	BDL	0.12	5	15
40	Arsenic (mg/l)	BDL		0.01	0.05
41	Mercury (mg/l)	BDL		0.001	NR
42	Alpha HCH µg/l	BDL			
43	Gamma HCH µg/l	BDL			

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	Station Code	2446	2447		
44	Detla HCH µg/l	BDL			
45	Methyl Parathion µg/l	BDL			
46	Alachor µg/l	BDL			
47	Aldrin µg/l	BDL			
48	Malathion µg/l	BDL			
49	Chlorpyrifos µg/l	BDL			
50	Alpha Endosulfan µg/l	BDL			
51	Butachlor µg/l	BDL			
52	Beta Endosulfan µg/l	BDL			
53	Phorate µg/l	BDL			
54	op DDT µg/l	BDL			
55	op DDD µg/l	BDL			
56	pp DDD µg/l	BDL			
57	op DDE µg/l	BDL			
58	pp DDE µg/l	BDL			
59	Dieldrin µg/l	BDL			
60	Ethion µg/l	BDL			
61	Endosulfan sulfate µg/l	BDL			
62	pp DDT µg/l	BDL			

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