

**TROPICAL INSTITUTE OF ECOLOGICAL SCIENCES**  
**MEENACHIL WATER QUALITY STUDY**  
**From Malarickal to Adukkam (12.01.2023-24.01.2023)**

SL. NO.	LOCATION	SAMP LE CODE	pH	CONDUCTIVITY	TDS	SALINITY	CHLORINITY	ACIDITY	ALKALINITY	TH	Ca+	Mg+	FLUORIDE	SULPHATE	NITRATE	CHLORIDE	PHOSPHATE	MPN	FC	EC	DO	BOD	Oil Content	IRON	OC
		Desirable Limits	6.5 – 8.5	1476 µs	500 mg/L	3 ppt	250 mg/l as CaCO3	200 mg/l as CaCO3	200 mg/l as CaCO3	300 mg/l as CaCO3	75 mg/l as Ca+	80 mg/l as Mg+	1 mg/l as F	200 mg/l as SO4	45mg /l as NO3	250 mg/l as Cl	0.1 mg/l	0/100 ml	0/100ml	0/100ml	5.0 mg/l	3.0 mg/l	0.5 mg/l	0.3 mg/l as Fe	4.0 mg/l
1	Malarickal	IA	6.97	97.1	62.9	0.07	134.4	4	50	16	10	6	0.28	4.8	1.2	22	0.5	2400	1100	Present	0.2	12.5	90	0.2	4.8
2	Malarickal	IB	7.1	58.3	37.8	0.04	80.475	4	48	24	12	12	0.31	3.1	0.9	20	0.5	2400	1100	Present	0.3	12.6	80	0.23	5.16
3	Illickal	IIA	7.9	60.6	39.4	0.045	83.99	6	44	14	12	8	0.29	1.1	0.8	14	0.3	2400	1100	Present	0.48	12.9	88	0.31	4.8
4	Illickal	IIB	7.8	60.8	39.4	0.045	84.17	4	56	24	10	4	0.34	1.4	0.9	16	0.3	2400	1100	Present	0.3	12.3	90	0.32	5.52
5	Kummanam	IIIA	7.11	70.6	45.9	0.053	98.05	6	66	18	12	6	0.29	1.5	0.1	12	0.4	2400	1100	Present	0.5	10.2	60	0.39	5.16
6	Kummanam	IIIB	7.1	59.5	38.6	0.044	82.69	5	42	12	10	2	0.25	1.6	0.4	14	0.3	2400	1100	Present	0.4	9	60	0.36	5.64
7	Nagambadam temple	IVA	7.24	58.4	37.9	0.043	81.03	4	44	18	8	10	0.23	1.1	0.8	16	0.4	2400	1100	Present	0.2	11.2	150	0.26	5.4
8	Nagambadam temple	IVB	7.17	54.1	35.2	0.04	75.11	4	26	18	10	8	0.24	1.1	0.7	18	0.4	2400	1100	Present	0.3	9.6	140	0.34	6.3
9	Nagambadam railway	VA	7.15	79.7	51.9	0.06	111	10	64	22	16	6	0.23	3.3	1.4	34	0.4	2400	1100	Present	0.5	12.5	140	0.61	6.7
10	Nagambadam railway	VB	7.18	65.5	42.6	0.049	90.83	4	60	30	12	18	0.25	2.8	0.5	32	0.43	2400	1100	Present	0.7	9	140	0.6	6.5
11	Thiruvanchoor	VIA	7.01	55.7	35.9	0.04	75.66	6	70	14	6	12	0.27	0.9	0.2	8	0.3	2400	1100	Present	0.2	11.2	30	0.3	1.5
12	Thiruvanchoor	VIB	6.76	56.6	36.6	0.041	77.33	10	74	18	14	4	0.23	0.8	0.3	8	0.3	2400	1100	Present	0.3	11.6	20	0.31	1.6
13	Poovathumood	VIIA	7.32	58.3	37.6	0.043	80.29	6	80	20	10	10	0.233	0.8	0.2	8	0.3	2400	1100	Present	0.6	12.2	60	0.26	5.28
14	Poovathumood	VIIB	6.92	54.3	35.3	0.04	74.92	6	62	12	10	2	0.23	0.9	0.05	12	0.3	2400	1100	Present	0.5	12.3	54	0.21	5.52
15	Neericadu	VIIIA	6.95	57.2	36.9	0.042	78.44	8	74	24	10	14	0.21	0.8	0.1	10	0.4	2400	1100	Present	0.4	8	57	0.22	6
16	Neericadu	VIIIB	7	54.2	35.1	0.041	74.74	10	74	12	10	2	0.21	0.7	0.1	10	0.8	2400	1100	Present	0.6	9.6	57	0.22	6.84
17	Punnathura	IXA	7.01	48	31	0.035	65.86	12	76	18	10	8	0.23	0.9	0.06	8	0.5	2400	1100	Present	0.6	9	20	0.21	5.52
18	Punnathura	IXB	7.02	53.7	34.7	0.039	73.63	8	78	12	10	2	0.229	0.9	0.1	10	0.4	2400	1100	Present	0.5	9.4	35	0.21	6
19	Kidangoor	XA	6.93	62.6	40.7	0.046	86.21	14	82	22	12	10	0.255	1	0.1	14	0.7	2400	1100	Present	0.3	11.6	171	0.34	7.56
20	Kidangoor	XB	7	54.8	35.6	0.041	75.85	12	68	16	12	4	0.233	0.9	0.1	14	0.7	1100	460	Present	0.3	11.4	159	0.35	7.68
21	Adukkam	XIA	6.79	23.2	15.12	0.017	31.96	6	12	6	12	6	0.236	0.6	3.3	32	0.6	1100	460	Present	0.3	5.3	0.3	0.12	4.3
22	Adukkam	XIB	6.96	25.2	15.78	0.018	33.63	4	14	8	6	2	0.24	0.6	3.6	20	0.3	1100	1100	Present	0.4	5.9	0.3	0.12	4.6
23	Marmala waterfalls	XIIA	7.08	26.9	17.53	0.02	37.37	4	10	4	12	8	0.24	0.6	0.3	20	0.8	1100	460	Present	0.2	6.2	0	0.1	3.2
24	Marmala waterfalls	XIIB	4.83	49.6	32.9	0.038	71.04	20	12	6	3	3	0.23	1.6	0.3	38	0.3	1100	1100	Present	2.3	6.8	0.5	0.1	3.4
25	Pala	XIIIA	6.93	43.4	28	0.032	59.75	8	24	8	10	2	0.202	0.6	2.3	18	0.9	2400	1100	Present	0.4	14.2	70	0.18	55.2
26	Pala	XIIIB	7.06	41.2	26.7	0.03	56.79	6	18	8	12	4	0.225	0.7	3.8	16	0.9	2400	1100	Present	0.4	13.6	100	0.18	55.2
27	Erattupetta	XIVA	6.96	54.2	35.2	0.04	75.11	8	24	12	14	2	0.232	0.8	17	14	0.8	2400	1100	Present	0.3	9.4	158	0.26	56.4
28	Erattupetta	XIVB	7.1	53.2	34.6	0.039	73.81	6	22	12	12	0	0.229	0.6	10.1	14	0.6	2400	1100	Present	0.3	10.2	160	0.28	62.4

