

Ground water quality in Karikal during Post Monsoon January - March 2017					
Sl.No	Parameters	T.R.Patinam	Vadamattam	Acceptable Limit	Permissible limit
1	Dt.of Sampling	30.01.2017	30.01.2017		
2	Time	10.30	16.30		
3	Temperature °C	25	26.5		
4	pH	8.1	8.2	6.5 - 8.5	NR
5	Conductivity µmho/cm	1915	1575		
6	BOD (mg/l)	BDL	BDL		
7	Nitrate -N (mg/l)	0.349	0.166		
8	Nitrate (mg/l)	1.545	0.735	45	NR
9	Nitrite-N (mg/l)	0.17	0.0469		
10	Turbidity NTU	0.2	0.3	1	5
11	Bi- Carbonate as CaCO ₃ (mg/l)	444	425	200	600
12	Chloride (mg/l)	424	348	250	1000
13	COD (mg/l)	Nil	Nil		
14	Hardness as CaCO ₃ (mg/l)	144	104	200	600
15	Calcium as CaCO ₃ (mg/l)	104	88		
16	Calcium as Ca ⁺⁺	42	35	75	200
17	Magnesium as CaCO ₃ (mg/l)	40	16		
18	Magnesium as Mg ⁺⁺	9.72	3.8	30	100
19	Sulphate (mg/l)	6.90	6.0	200	400
20	Sodium (mg/l)	343	286		
21	TDS (mg/l)	985	811	500	2000
22	TSS (mg/l)	1.0	1.0		
23	Orthophosphate (mg/l)	0.068	0.039		
24	Potassium (mg/l)	5.7	4.7		
25	% Sodium	83	85		
26	SAR	12.42	12.1		
27	Total Coliform MPN/100	–	–		
28	Fecal Coliform MPN/100	–	–		
29	Arsenic(as AS) mg/l	0.009	0.003	0.01	0.05
30	Cadmium(as CD)mg/l	ND	ND	0.003	NR
31	Copper (as Cu) mg/l	ND	ND	0.05	1.5
32	Chromium as (Cr) mg/l	0.006	0.005	0.05	NR
33	Iron (as Fe) mg/l	0.077	0.064	0.3	NR
34	Lead (as Pb)mg/l	ND	ND	0.01	NR
35	Nickel (as Ni) mg/l	ND	ND	0.02	NR
36	Zinc (as Zn) mg/l	ND	ND	5	15
37	Alpha BHC mg/l	BDL	BDL	0.01	
38	Beta BHC mg/l	BDL	BDL	0.04	
39	Gama BHC (Lindane) mg/l	BDL	BDL	2	
40	OP DDT mg/l	BDL	BDL	1	
41	PP DDT mg/l	BDL	BDL	1	
42	Alpha Endosulphan mg/l	BDL	BDL	0.4	
43	Beta Endosulphan mg/l	BDL	BDL	0.4	
44	Dieldrin mg/l	BDL	BDL	0.03	
45	Carboryl (Carbamate) mg/l	BDL	BDL		
46	24-D mg/l	BDL	BDL	30	
47	Malathian mg/l	BDL	BDL	190	
48	Methyl Parathian mg/l	BDL	BDL	0.3	
49	Anilophos mg/l	BDL	BDL		
50	Chloropyriphos mg/l	BDL	BDL	30	
NR - No Relaxation Ab – Absent		ND- Not Detected BDL - Below Detectable limit			