

Appendix 3:

Module 1: Physical/Chemical Quality Assessment

Test Description	Unit	Recommended Limit (WHO)	BH9	BH10	BH11	BH12
1. Temperature	oC	Ambient	32.1	31.9	32.1	32.03
2. Turbidity	NTU	0.5-5	0.01	0	0	0.0033
3. Conductivity	µs/cm	0-1000	2840	2900	2840	2860
4. Resistivity	Ω.m	0-1000	-	-	-	-
5. Colour/Clarity	Nil	Colourless	Colourless	Colourless	Colourless	Colourless
6. Odour	Nil	Odourless	Odourless	Odourless	Odourless	Odourless
7. (TSS)	Mg/l	0	0	0	0	0
8. (TDS)	Mg/l	0-500	1874.4	1914	1874.4	1887.6
9. Alkalinity	Mg/l	200-600	178	178	178	178
10. Dissolved Oxygen	Mg/l	10-May	5.5	5.4	5.4	5.433
11. Carbon dioxide	Mg/l	Not Mentioned	-	-	-	-
12. pH	Nil	6.5 – 7.5	6.3	6.6	6.6	6.5
13. Hardness	Mg/l	150 - 250	249.2	212.3	249.2	236.9

Module 2: Positive Ions (Cations) Assessment

Test Description	Unit	Recommended Limit (WHO)	BH9	BH10	BH11	BH12
1. Zinc (Zn)	Mg/l	0-3	0.15	0.15	0.15	0.15
2. Lead (Pb)	Mg/l	0-0.01	0.024	0.023	0.0230.0	0.0233
3. Iron (Fe)	Mg/l	0.2-1.0	0.05	0.05	0.05	0.05
4. Copper (Cu)	Mg/l	0-2.0	0.021	0.022	0.023	0.022
5. Cadmium (Cd)	Mg/l	0-0.03	0	0	0	0
6. Sodium (Na)	Mg/l	0-200	24.7	24.4	24.3	24.47
7. Chromium (Cr)	Mg/l	0-0.05	0	0	0	0
8. Nickel (Ni)	Mg/l	0-0.02	0.009	0.009	0.009	0.009
9. Manganese (Mn)	Mg/l	0-0.05	0.05	0.051	0.052	0.051
10. Mercury (Hg)	Mg/l	0-0.001	-	-	-	-

Module 3: Negative Ions (Anions) Assessment

Test Description	Unit	Recommended Limit (WHO)	BH9	BH10	BH11	BH12
1. Chloride	Mg/l	0-250	17.7	17.6	17.8	17.7
2. Nitrate	Mg/l	0-50	0	0	0	0
3. Nitrite	Mg/l	0-0.5	0	0	0	0
4. Sulphate	Mg/l	0-250	3.51	3.52	3.52	3.517
5. Phosphate	Mg/l	0-0.03	0.52	0.52	0.52	0.52
6. Fluoride	Mg/l	0-1.5	-	-	-	-

Module 4: Microbiological/Other Assessment

Test Description	Unit	Recommended Limit (WHO)	BH9	BH10	BH11	BH12
1. Escherichia Coli	Ml	0 in 250ml	-	-	-	-
2. Total Coliform	Cfu	0 in 100ml	Good	Bad	Good	Good
3. Total Hydrocarbon	Mg/l	0	0.034	0.034	0.034	0.034