

Appendix 1:

Module 1: Physical/Chemical Quality Assessment

Test Description	Unit	Recommended Limit (WHO)	BH1	BH2	BH3	BH4
1. Temperature	oC	Ambient	29.4	29.4	29.3	29.37
2. Turbidity	NTU	0.5-5	1.9	0.5	0.8	1.07
3. Conductivity	µs/cm	0-1000	3150	3030	3075	3085
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	2079	1999.8	2030	2036.3
9. Alkalinity	Mg/l	200-600	106.8	106.8	106.8	106.8
10. Dissolved Oxygen	Mg/l	10-May	4.7	4.4	4.6	4.57
11. Carbon dioxide	Mg/l	Not Mentioned	-	-	-	-
12. pH	Nil	6.5 - 7.5	7.5	7.4	7.4	7.43
13. Hardness	Mg/l	150 - 250	249.2	249.2	249.2	249.2

Module 2: Positive Ions (Cations) Assessment

Test Description	Unit	Recommended Limit (WHO)	BH1	BH2	BH3	BH4
1. Zinc (Zn)	Mg/l	0-3	0.12	0.13	0.12	0.123
2. Lead (Pb)	Mg/l	0-0.01	0.003	0.003	0.003	0.003
3. Iron (Fe)	Mg/l	0.2-1.0	0.31	0.31	0.31	0.31
4. Copper (Cu)	Mg/l	0-2.0	0	0	0	0
5. Cadmium (Cd)	Mg/l	0-0.03	0	0	0	0
6. Sodium (Na)	Mg/l	0-200	23.4	24.1	23.5	23.67
7. Chromium (Cr)	Mg/l	0-0.05	0.01	0.015	0.012	0.0123
8. Nickel (Ni)	Mg/l	0-0.02	0.23	0.23	0.24	0.233
9. Manganese (Mn)	Mg/l	0-0.05	0.047	0.048	0.048	0.0477
10. Mercury (Hg)	Mg/l	0-0.001	-	-	-	-

Module 3: Negative Ions (Anions) Assessment

Test Description	Unit	Recommended Limit (WHO)	BH1	BH2	BH3	BH4
1. Zinc (Zn)	Mg/l	0-3	0.12	0.13	0.12	0.123
2. Lead (Pb)	Mg/l	0-0.01	0.003	0.003	0.003	0.003
3. Iron (Fe)	Mg/l	0.2-1.0	0.31	0.31	0.31	0.31

4.	Copper (Cu)	Mg/l	0-2.0	0	0	0	0
5.	Cadmium (Cd)	Mg/l	0-003	0	0	0	0
6.	Sodium (Na)	Mg/l	0-200	23.4	24.1	23.5	23.67
7.	Chromium (Cr)	Mg/l	0-0.05	0.01	0.015	0.012	0.0123
8.	Nickel (Ni)	Mg/l	0-0.02	0.23	0.23	0.24	0.233
9.	Manganese (Mn)	Mg/l	0-0.05	0.047	0.048	0.048	0.0477
10.	Mercury (Hg)	Mg/l	0-0.001	-	-	-	-

Module 4: Microbiological/Other Assessment

Test Description	Unit	Recommended Limit (WHO)	BH1	BH2	BH3	BH4
1. Escherichia Coli	Ml	0 in 250ml	-	-	-	-
2. Total Coliform	Cfu	0 in 100ml	Good	Good	Good	Good
3. Total Hydrocarbon	Mg/l	0	0.034	0.035	0.036	0.035