

## Water Testing

Sl	Test Parameter	Test Method	Instrument
<b>Physical Tests</b>			
1.	Colour	Visual Comparison	NA
2.	Odour and Taste	Observation	NA
3.	Temperature	Thermometer	Thermometer
4.	Turbidity	Bottle Test	Plastic Bottle
<b>Chemical Tests</b>			
5.	pH and Alkalinity	Electrometric Determination/ Test Kit/ Titrimetric	Digital pH Meter/ Digital Burette
6.	Hardness	Titrimetric/Test Kit	Digital Burette
7.	Total Dissolved Solids	Electrometric/ Evaporation	Digital meter/ Oven, Evaporatory dish, Desiccators, Analytical balance
8.	Electrical Conductivity	Electrometric Determination	Digital Conductivity Meter
9.	Major Cations (Ca, Mg, Na, K)	Photometrically/ Flame atomic absorption spectrophotometry	Flame Photometer/ Atomic Absorption Spectrometer
10.	Major Anions (NH <sub>3</sub> , CO <sub>3</sub> , HCO <sub>3</sub> , Cl <sup>-</sup> , F <sup>-</sup> , NO <sub>3</sub> -N, NO <sub>2</sub> -N, PO <sub>4</sub> <sup>3-</sup> , SO <sub>4</sub> <sup>2-</sup> )	Titrimetric/ Spectroquant Test	Digital Burette/ UV- VIS Spectrophotometer
11.	Organic materials (DO, BOD, COD)	Titrimetric/ Spectroquant kit Test	Digital Burette/ UV- VIS Spectrophotometer
12.	Elemental materials (As, Cd, Cr, CO, Cu, Fe, Pb, Mn, Ni, Zn)	Flame atomic absorption spectrophotometry / Spectroquant Test	Atomic Absorption Spectrometer/ UV- VIS Spectrophotometer

\*Minimum Quantity of the compound required, running cost of the assay and time required for the assay shall be communicated on request.