

## **ANALYTICAL METHOD FOR WATER ANALYSIS**

Sr.No	Parameters	Instruments
1	Acidity	pH meter, Potentiometry, Titrimetry
2	Alkalinity (M-Alkalinity, P-Alkalinity, Total)	pH meter, Potentiometry, Titrimetry
3	Ammonia	UV Visible Spectrophotometer, Kjeldahl analyzer
4	Calcium	AAS, ICP, UV Spectrophotometer, XRF, OES
5	Magnesium	AAS, Flame Photometer, ICP, XRF, OES
6	Hardness (Ca & Total)	AAS
7	Chloride	UV Visible Spectrophotometer, Potentiometer
8	Residual free Chloride	Potentiometer
9	Chromium (Cr <sup>6+</sup> , Total)	AAS, Potentiometry, ICP, UV-Spectrophotometer, XRF, OES
10	Copper	AAS, ICP, UV Spectrophotometer, XRF, OES
11	Cyanide	UV Spectroscopy, GC
12	Iron	AAS, ICP, UV Spectrophotometer, XRF, OES
13	Manganese	AAS, ICP, UV Spectrophotometer, XRF, OES
14	Nitrates	UV Spectrophotometer, Kjeldahl analyzer, Potentiometer
15	Phenols	UV Spectrophotometer, GC, GC/MS
16	Phosphates	UV Spectrophotometer
17	Sulphate	UV Spectrophotometer
18	Sulphide	UV Spectrophotometer
19	Zinc	AAS, ICP, UV Spectrophotometer, XRF
20	Oil & Greeze	Fluorescence Spectrophotometer, GC, GC/MS, HPLC, Flame Photometer
21	Coliform	PCR, Elisa reader
22	TSS	Spectrophotometer
23	TDS	Conductivity meter
24	Fluoride	UV Visible Spectrophotometer, Potentiometer
25	Nickel	AAS, ICP, UV Spectrophotometer, XRF, OES
26	Potassium	AAS, ICP, UV Spectrophotometer, XRF, OES
27	Sodium	AAS, ICP, UV Spectrophotometer, XRF, OES