



WATER PACKAGES

Parameters	Technique
MICROBIOLOGY	
Potable water, Swimming pool, Waste water, Processed water, etc.	
Total Plate Count (TPC at 22 °C)	Membrane filtration/pour plate
Total Plate Count (TPC at 37 °C)	Membrane filtration/pour plate
Total Coliforms (TC)	Membrane filtration
Escherichia Coli (E-Coli)	Membrane filtration
E-coli 0157:H7/NM (25ml)	Magnetic beads
Faecal Streptococci	Membrane filtration
Pseudomonas aeruginosa	Membrane filtration
Pseudomonas spp	Membrane filtration
Clostridium Perfringens	Membrane filtration
Clostridium spp	Membrane filtration
Salmonella	Membrane filtration
Vibrio Cholera	Membrane filtration
Sulphite Reducing Anaerobes (SRA)	Membrane filtration
Faecal coliforms	Membrane filtration
Staphylococcus Aureus	Membrane filtration
Staphylococcus Coagulase	Membrane filtration
Sulphite Reducing Anaerobes	Membrane filtration
Total Anaerobic Count	Membrane filtration
Total Anaerobic Mesophylic Count	Membrane filtration
Total Anaerobic sporulated Count	Membrane filtration
Yeast and Moulds	Membrane filtration
Enterobacteraceae	Membrane filtration

CHEMISTRY

Package 1 - Physiochemical

pH	Potentiometry
Conductivity	Potentiometry
Dissolved oxygen	Potentiometry
Temperature	Potentiometry
Turbidity	Spectrophotometry
Apparent color	Lovibond
Odour	Physical
Total Hardness	Titrimetry
Total Acidity	Titrimetry
Total Alkalinity	Titrimetry
Alkalinity as CaCO ₃	Titrimetry
Bicarbonates as CaCO ₃	Titrimetry
Free residual Chlorine	Colourimetry

Total Chlorine	Colourimetry
Combined (bound) Chlorine	Colourimetry
UV Absorbance at 254nm	Spectrophotometry
Total Suspended Solids (TSS)	Gravimetry
Total Dissolved Solids (TDS)	Gravimetry
Oils and grease	Gravimetry
Chloride	Spectrophotometry
Ammonia-N	Spectrophotometry
Nitrates-N	Spectrophotometry
Nitrites-N	Spectrophotometry
Phosphate (Soluble PO ₄ ³⁻)	Spectrophotometry
Sulphates	Spectrophotometry
Kjeldah Nitrogen (Kj-N)	Titrimetry
Total Nitrogen	Calculation
Fluoride	Spectrophotometry
Chemical Oxygen Demand (COD)	Spectrophotometry
Biochemical Oxygen Demand (*BOD)	
Total Organic Carbon (TOC)	Spectrophotometry
Package 2 - Elemental analysis	
Aluminium (Al)	MP-AES
Arsenic (As)	GF-AAS
Antimony (Sb)	MP-AES
Beryllium (Be)	MP-AES
Boron (B)	MP-AES
Cadmium (Cd)	GF-AAS
Calcium (Ca)	MP-AES
Chromium (Cr)	MP-AES
Cobalt (Co)	MP-AES
Copper (Cu)	MP-AES
Iron (Fe)	MP-AES
Lead (Pb)	GF-AAS
Magnesium (Mg)	MP-AES
Manganese (Mn)	MP-AES
Mercury (Hg)	FIMS
Nickel (Ni)	MP-AES
Phosphorous (P)	MP-AES
Potassium (K)	MP-AES
Selenium (Se)	MP-AES
Silver (Ag)	MP-AES
Sodium (Na)	MP-AES
Tin (Sn)	MP-AES
Zinc (Zn)	MP-AES
Package 3 - Persistent Organic Pollutants (POPs)	
Organochlorine pesticides (OCPs)	GC-MSMS
Organophosphorous pesticides (OPP)	GC-MSMS
Pyrethroids	GC-MSMS
Polycyclic Aromatic Hydrocarbons (PAH)	GC-MSMS
PolyChlorinated Biphenyls (PCBs)	GC-MSMS
Package 4 - Others	
Cyanide	Spectrophotometry