

## Water and Wastewater Analysis Lab – Consultancy

### **1. UV-Vis Spectrophotometer**

- Make: Shimadzu
- Model: UV-1800
- Application: Measurement of % Absorbance and % Transmittance
- Sample type: Liquid

### **2. Gas chromatograph**

- Make: Centurion scientific
- Model: 5800
- Application: qualitative and quantitative analysis of sample
- Sample type: Liquid/Gas

### **3. Bioreactor**

- Make: Bio-Age
- Model: Bio spin-03A
- Application: Microbial culture
- Sample type: Bacteria/Fungi/Algae

### **4. Trinocular Microscope**

- Make: Lynx
- Model: LM-52-1803D
- Application: Observation of microorganisms
- Sample type: Bacteria/Fungi/Algae

### **5. Digital Viscometer**

- Make: Brookfield
- Model: LV DVE
- Application: Measurement of Viscosity
- Sample type: Liquid

### **6. Fluoride ion Meter**

- Make: Eutech
- Model: pH2100
- Application: Measurement of Fluoride ion content
- Sample type: Liquid

### **7. Nephelo-Turbidity Meter**

- Make: Systronics
- Model: 132
- Application: Measurement of turbidity
- Sample type: Liquid

### **8. pH Meter**

- Make: Systronics
- Application: Measurement of pH
- Sample type: Liquid

### **9. Flame Photometer**

- Make: Systronics
- Model: 128
- Application: to determine the concentrations of various metals and elements.
- Sample type: Liquid

### **10. Laboratory Centrifuge**

- Make: Kemi
- Model: C.8CAC1
- Application: Separation of mixtures
- Sample type: Liquid

### **11. Hot Air Oven**

- Make: Labtek
- Model: HAO-5S
- Application: Controlled drying/Evaporation of sample
- Sample type: Liquid/Solid

### **12. Conductivity meter**

- Make: Systronics
- Application: measurement of dissolved ions and conductivity
- Sample type: Liquid

### **13. Physical and chemical analysis of water**

1. Colour
2. Turbidity
3. Odour
4. pH
5. Electrical Conductance

6. Total Solids
7. Suspended Solids
8. Dissolved Solids
9. Total Alkalinity
10. Total Hardness
11. Total Acidity
12. Sulphates
13. Chlorides
14. Calcium
15. Magnesium
16. Dissolved Oxygen
17. Iron
18. Fluoride

**Total Charge: Rs.2500/-**

#### **14. Physical and chemical analysis of wastewater**

1. Dissolved Oxygen
2. Biochemical Oxygen Demand
3. Oil and Grease
4. Chemical Oxygen Demand
5. pH
6. Suspended solids

**Total Charge: Rs. 2000 /-**

#### **15. Microbiological analysis of water**

1. Total coliform
2. Fecal coliform
3. *E. coli*

**Total Charge: Rs.1000/-**

#### **16. Sieve analysis**

- Sample type: Solid
- Application: Particle size analysis

#### **17. Ball Milling facility**

- Sample: Solid
- Application: Size reducing of hard materials

#### **18. Soxhlet Apparatus**

- Sample type: Solid
- Application: Extraction of sample