

**DEPARTMENT OF CIVIL ENGINEERING**

**Name of the laboratory: Environmental lab**

**Objectives of the lab:** The Environmental Engineering laboratory practical provides good insight into different experimental methods relevant to Environmental Engineering. In this lab we performs various test on drinker water and sewage samples to check pH value, total dissolved solids, BOD and COD, total suspended particles etc. as per BIS standard. It helps in to assess the water quality standard of the region, pollution load in sewage and working efficiency of sewage and other water treatment unit. Experiment on ambient air pollution parameter such as  $SO_x$ ,  $NO_x$  and SPM, and noise pollution measurement are also performed in this lab.

**List of the equipment:**

1. Digital-dissolved-oxygen
2. Bod-incubator
3. Conductivity-tds-meter
4. Digital-turbidity-meter
5. Combustion-and-emissions-analyzer.

**List of experiments:**

1. Determination of pH & Turbidity
2. Determination of conductivity & total D.O
3. Determination of Alkalinity and Acidity
4. Determination of chlorides
5. Determination of iron
6. Determination of D.O
7. Determination of Nitrates
8. Determination of optimum dose of coagulant
9. Determination of chlorine demand
10. Determination of Total phosphorus

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11. Determination of BOD

12. Determination of COD



Environmental engineering laboratory