

## **BOY'S GAS CALORIMETER**

**AIM:-** To determine the calorific value of the gaseous fuel.

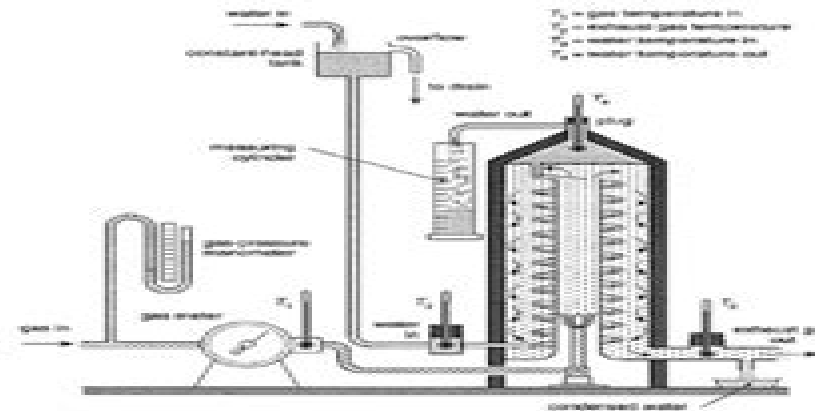
**THEORY:-** calorific value of solid fuel is the amount heat released when 1kg of fuel is burnt, completely expressed in K.J/kg (complete combustion of fuel)

Calorific value of gaseous fuel is the amount heat released by 1 m<sup>3</sup> of gaseous fuel at NTP when it is burnt (complete combustion of fuel) expressed K.J/m<sup>3</sup>at NTP

**APPARATUS:-** It consists of a central funnel in the middle of which, and at the bottom, is filled with burners. The funnel is fitted with cooling coil around it. The cooling water inlet passes through the calorimeter at the bottom and the outlet is at the top. Thermometers are installed to measure the inlet and outlet temperature of water. The gas is supplied at the bottom and the outlet is at the top. Water is circulated through the coil at constant head. Gas governor is provided to supply the gas at constant pressure

### **PROCEDURE:-**

- Check the flow rate of water and gas.
- Allow the gas through the burner for initial value by adjusting the control valve.
- Put on the burner and raise the burner into the calorimeter. Allow the gas to burn until steady state is reached.
- Note down the temperature of the water at inlet and outlet



# Energy Conversion Lab Manual Soft Copy

**Yan Bai**



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