

### **Experiment No. 1**

#### **Title:**

**Study and trial on Pelton wheel.**

#### **Batch**

#### **Date of Experimentation**

#### **Date of Submission**

**Batch** \_\_\_\_

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#### **Objective:**

1. Study various parts of Pelton Wheel.
2. To determine constant head and constant speed characteristic of Pelton wheel

#### **Apparatus:**

1. Pelton Wheel test rig, Centrifugal pump set, sump tank, notch tank, turbine, piping to operate the turbine on closed circuit water circulating system
2. Digital RPM indicator, pressure gauge, flow control valve, mechanical loading with Spring balance

### **Theory:**

Hydraulic (or water) Turbines are the machines, which use the energy of water (Hydro – power) and convert it into Mechanical energy. Thus the turbine becomes the prime mover to run the electrical generators to produce the electricity, viz., hydroelectric power.

The Turbines are classified as impulse & reaction types. In impulse turbine, the head of water is completely converted into a jet, which impinges on the turbine runner, it is the pressure of the flowing water, which rotates the runner of the turbine. Of many types of

# Fluid And Turbo Machinery Lab Manual

**AN Whitehead**



## **Fluid And Turbo Machinery Lab Manual:**

Uncover the mysteries within Explore with is enigmatic creation, **Fluid And Turbo Machinery Lab Manual** . This downloadable ebook, shrouded in suspense, is available in a PDF format ( \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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