

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

Lab Manual Turbo Machinery

Tobias Bleicker

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Lab Manual Turbo Machinery:

The Enigmatic Realm of **Lab Manual Turbo Machinery**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Lab Manual Turbo Machinery** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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