Phone: +91-0171-2643080, 2601773 Email: sales@naugraexport.com

Product Name:

Pelton Wheel Turbine Test Setup

Product Code:

HML0002



Description:

Pelton Wheel Turbine Test Setup

Technical Specification:

Pelton Wheel Turbine is only impulse water turbine now in common use named in honor of Sir L.A. Pelton (1829-1908) of California, USA. It is a tangential flow impulse turbine. The water strikes the buckets along the tangent of the runner. The energy available at the Inlet of the Turbine is only kinetic energy. The Pressure at the Inlet and Outlet of the atmospheric. This turbine is used for high heads. The Present Set-up consists of a runner. The buckets are mounted on the runner. The water is fed to the turbine, through SS nozzle with a SS spear, by means of Centrifugal Pump, tangentially to the runner. Row of water into turbine is regulated by adjusting the spear position by the help of a given hand wheel the runner is directly mounted on one end of a central SS shaft and other end is connected to a brake arrangement. The circular window of the turbine casing is providing with a transparent acrylic sheet for observation of flow on to the buckets. This runner assembly is supported by rigid MS structure. Load is applied to the turbine with the help of this brake dynamometer so that the efficiency of the turbine can be calculated. Pressure Gauge is fitted at the Inlet of the turbine to measure the total supply head to the turbine.

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EXPERIMENT:-

- 1.To study the operation of a Pelton Wheel Turbine
- 2.To determine the Output Power of Pelton Wheel Turbine
- 3.To determine the Turbine Efficiency

UTILITIES REQUIRED:-

- Water Supply and Drain.
- Electricity 15 kW, 440V AC, Three Phase

MODEL

20.643941P/ **39.654546**44W

BOSOCHEM

(Approx.)

2661 propoly

Head

Bainapa@00 Bannanke Dy

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Capacity

360k

Liters.

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\$peedRPM (approx.)

Matellial Brass, Bucket type

Mazziel Stainless Steel/Mild

Steel

Spatarial Stainless Steel/Mild

Steel

DitathEurbe with Manometer

e Measur

ement

Stant Doelta Starter, Mains

Predicentor, MCB for overload

protection

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The whole set-up is well designed and arranged in a good quality painted structure., Civil Engineering Laboratory Equipments Suppliers, Mechanical Engineering Laboratory Equipments Suppliers

, Engineering Teaching Aids, Models Equipments Theory of Machine Lab Suppliers, Hydraulics Laboratory Equipment and Apparatus

Naugra Export

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