

Pelton Wheel Turbine Test Rig



Product Categories: [Engineering Equipment](#), [Hydraulic Lab](#)

Product Page: <https://www.labappara.com/product/pelton-wheel-turbine-test-rig/>

Product Description

Pelton Wheel Turbine Test Rig

Product description:

Pelton Wheel Turbine 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. This runner assembly is supported by rigid MS structure. Load is applied to the turbine with the

help of this brake dynamo-meter 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.

Features:

- Optimum performance
- Longer service life
- Maintenance free
- Rust proof body
- Sturdy construction
- Accurate result

MODEL

A

B

C

Output Power

1.33 HP / 1 Kw

2 HP / 1.5 Kw

5 HP / 3.75 Kw

Discharge

300 LPM (Approx.)

400 LPM (Approx.)

630 LPM (Approx.)

Supply Head

25 m

40 m

45 m

Rope Brake Dynamometer

Dia 200 mm

Dia 200 mm

Dia 300 mm

Sump Tank

Capacity 150 Liters.

Capacity 200 Liters.

Capacity 300 Liters.

Water Circulation Centrifugal Pump

Capacity 5 HP, Three Phase

Capacity 7.5 HP, Three Phase

Capacity 15 HP, Three Phase