

Product Name :
Kaplan Turbine Test Rig**Product Code :**
ALABS-A104-045**Description :****Kaplan Turbine Test Rig**

This turbine is suitable for low head.

The power produced by a turbine is proportional to QH . As the head (H) decreases the discharge (Q) must increase to produce the same power. The present set-up consists of a scroll casing housing a runner. Water enters the turbine through the stationary guide vanes and passes through the runner axially. The runner has a hub and airfoil vanes, which are mounted on it.

The water is fed to the turbine by means of Centrifugal Pump. The runner is directly mounted on one end of a central SS shaft and other end is connected to a brake arrangement. A transparent hollow cylinder made of acrylic is fitted in between the draft tube and the casing for observation of flow. Load is applied to the turbine with the help of rope brake arrangement so that the efficiency of the turbine can be calculated. The set-up is supplied with control panel. A draft tube is fitted on the outlet of the turbine.

The set-up is complete with guide

mechanism. Pressure and Vacuum gauges are fitted at the inlet and outlet of the turbine to measure the total supply head on the turbine

Experiment:

- To study the operation of Kaplan turbine.
- To determine the Output Power of Kaplan Turbine.
- To determine the turbine efficiency

Utilities Required:

- Water Supply and Drain
- Electricity 1.5 kW, 440V AC, Three Phase
- Floor Area 1.5 x 0.75 m



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