

Product Name :
Francis Turbine Test Rig

Product Code :
DM748



Description :

Francis Turbine Test Rig

Technical Specification :

The water enters the turbine through the outer periphery of the runner in the radial direction and leaves the runner in axial direction and hence it is called a mixed flow turbine. As the water flows to the runner, a part of pressure energy goes on changing into kinetic energy.

Thus the water through the runner is under pressure. The runner is completely enclosed in a air tight casing and the casing & runner is always full of water. The present set-up consists of a runner. The water is fed to the turbine by means of Centrifugal Pump, radially to the runner. The runner is directly mounted on one end of a central SS shaft and other end is connected to a loading dynamometer arrangement.

The circular window of the turbine casing is provided with a transparent acrylic sheet for observation of flow on to the runner. This runner assembly is supported by thick cast iron pedestal. Load is applied to the turbine with the help of loading dynamometer arrangement so that the efficiency of the turbine can be calculated. A draught 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. A venturi meter with differential pressure manometer is provided to measure the discharge of water through the nozzle of turbine.

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