FLUID MECHANICS AND HYDRAULIC MACHINES

OBJECTIVES:

- To provide practical knowledge in verification of principles of fluid flow.
- To impart knowledge in measuring pressure, discharge and velocity of fluid flow.
- To understand Major and Minor losses.
- To gain knowledge in performance testing of Hydraulic Turbines and Hydraulic Pumps at Constant Speed and Head.

LIST OF EXPERIMENTS:

1. Determine the Cofficient of discharge of Orificemeter.
2. Verification of Bernoulli's Theorem
3. Determine the Coefficient of impact of jet on vanes
4. Determine the overall efficiency of Francis Turbine.
5. Performance test on Multi Stage Centrifugal Pump.
6. Performance test on Reciprocating Pump.
7. Determination of Coefficient of Discharge of a Mouth Piece Apparatus.
8. Determination of friction Factor of the given pipe line.
9. Determination of Coefficient of Discharge of a Notch.
10. Performance test on Pelton Wheel.

FACILITY FOR ADDITIONAL EXPERIMENTS:

1. Performance test on Single Stage Centrifugal Pump.

2. Determine the Coefficient of discharge of Venturimeter