

LABORATORY MANUAL FOR HYDRAULICS

(for Diploma in Civil Engineering)

List of Experiments

- i. To verify Bernoulli's Theorem.
- ii. To find out Venturimeter coefficient.
- iii. To determine coefficient of velocity (C_v), coefficient of discharge (C_d), coefficient of contraction (C_c) and verify the relation between them.
- iv. To perform Reynolds Experiment.
- v. To determine Darcy-Weisbach coefficient of friction for flow through pipes.
- vi. To verify loss of head due to
 - (a) Sudden enlargement and (b) Sudden contraction.
- vii. To determine velocity of flow of an open channel by using a current meter.
- viii. To determine coefficient of discharge of a rectangular/triangular notch.
- ix. Study of the following
 - (i) Reciprocating pumps or centrifugal pumps.
 - (ii) Impulse turbine or reaction turbine
 - (iii) Pressure gauge/water meter/mechanical flow meter/Pitot tube.