KFM-16 Reciprocating Pump Test Rig.

Specifications:

- Reciprocating pump set suitable for pump test at variable
- Speeds size 1/2 " X ¾ " to discharge 220 GPH at 40m. head, (approx.) electric motor of capacity 1 HP A.C. OR D.C. motor single phase drive from the motor to pump is given by a variable reduction pulley belt drive OR Dimmer Stat
- Special arrangement for quick Alteration of speed. Additional special large air vessel is provided.
  i) Variable speed arrangement by reduction Pulley.
  ii) Pressure gauge, Vacuum gauge, foot valve,
  iii) Energy meter. Switch, starter, and stop clock.
  iv) Measuring tank of size 300 mm x 300 mm x 500mm with scale Fitting and I "drain valve
  v) Sump Tank of 1000 mm x 300 mm x 400 mm
  vi) Instruction manual

Range of Experiments:

- To find out efficiency of reciprocating pump at Different discharges.

KFM-17 Pelton Wheel Turbine Test Rig.

Specifications:

- Sump Tank : 1200mm x 600mm x 600mm
- Specific Speed : Approx. 19 RPM
- Net Head : 45m Approx.
- Discharge : Approx. 820 LPH approx.
- Normal Speed : 750 RPM.
- Power : 1kw (5HP motor)
- Runner Diameter: 250 mm.
- Number Of Buckets : 16
- Brake Drum Diameter : 200 mm.
- Centrifugal Pump set suitable for supply of water of size coupled to 5 HP induction motor 3 phase 400 V. A. C. supply.
- Flowing Measuring Unit : A 2' inch venturi meter OR Orifice meter OR Manometer with two pressure gauges on a Panel board to measure the differences of pressure.
- Starter switch, piping, foot valve, gate valve.
- Spring Balance 10Kg- 1 No., 25Kg-1 No.

Range of Experiments:

- Demonstrating the operating characteristics i.e. power efficiency and torque of a Pelton Wheel at various speeds.
- Determining the performance characteristics and effect of discharge and velocity of impinging water on Turbine operation.