



The Set-up is designed to study the performance of Multi Stage Centrifugal Pump. The Set-up consists of a Multi Stage Centrifugal Pump coupled with DC motor & drive, supply tank, measuring tank & pipe fittings for closed loop water circulation. There are 2 separate pumps connected to DC Motor and drive and can be connected in series and parallel to stimulate different combinations. Pressure and Vacuum Gauge are connected on delivery and suction side of each pump for the purpose of measurement. Swinging Field Dynamometer arrangement for direct torque measurement using dial type spring balance is made for individual pump. The flow rate of water is measured using measuring tank and stop watch provided.

#### EXPERIMENTS:

1. Speed Vs Discharge
2. Head Vs Discharge at various speeds
3. Efficiency curves at various speed and heads

#### FEATURES:

1. Closed loop water circulation
2. Compact & stand alone set-up
3. MS Excel sample calculation program on demand
4. Stainless Steel tanks and wetted parts
5. Superb painted structure
6. Simple to Operate & Maintain

#### TECHNICAL SPECIFICATIONS:

1. Pump (2 Nos.) : Kirloskar, Capacity 1 HP Speed 2800 RPM (max.) Head 12 m (max.)
2. Drive : DC Drive along with non-contact type Digital RPM Indicator
3. Supply Tank : Capacity 150 Ltrs.
4. Measuring Tank : Capacity 100 Ltrs. fitted with Piezometer Tube & Scale
5. Piping : GI / PVC
6. Stop Watch : Electronic
7. Control Panel : With required electrical instrumentation

The whole Set-up is well designed and arranged in a good quality painted structure.

#### UTILITIES REQUIRED: -

1. Electric Supply: - Provide 230 +/- 10 VAC, 50 Hz, Single Phase Electric Supply with proper earthing. (Neutral - Earth voltage less than 5 VAC), 5 A, three pin socket with switch for pump.
2. Water Supply: Tap water connection ½" BSP. Distilled water @ 80 Ltrs. (Optional extra cost)

Note: Specifications are subject to change.

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