

CENTRIFUGAL PUMP TEST RIG EE-1537A (WITH A.C. MOTOR, 3 SPEEDS WITH STEP CONE PULLEY)

Centrifugal Pump Test Rig consists of a sump, a centrifugal pump, an AC motor and measuring tank. To measure the head, Pressure and Vacuum gauges are provided. To measure the discharge, a measuring tank is provided. Flow diversion system is provided to divert flow from sump tank to measuring tank and from measuring tank to sump tank. A valve is provided in pipeline to change the rate of flow.

SCOPE OF EXPERIMENTATIONS:

- To determine the overall efficiency of centrifugal pump
- To Plot Head Vs. Discharge, Pump efficiency Vs. Discharge

UTILITIES REQUIRED:

- Water Supply.
- Drain
- Electricity 220V AC, Single Phase.
- Space required: 1.6 x 0.6 m.



TECHNICAL DETAILS:

- Pump : 1 HP, 2800 RPM
- Drive : AC Motor with step cone pulley arrangement for 3 Prefixed speeds.
- Supply Tank : Capacity 60 Ltrs.
- Measuring Tank : Capacity 40 Ltrs.
- Control panel : with required electrical instrumentation
- Stop Watch : Electronic
- Tanks will be made of Stainless Steel.
- The whole set-up is well designed and arranged in a good quality painted structure.