

RECIPROCATING PUMP TEST RIG (VARIABLE SPEED) (EE-1540B)

The setup is designed to study the performance of reciprocating pump.

Set up consists of a reciprocating pump coupled with electrical motor, supply tank, measuring tank & pipe fittings for closed loop water circulation. Pressure and Vacuum gauges are connected on delivery and suction side of pump for the purpose of measurement.

The flow rate of water is measured using measuring tank and stop watch provided.

SCOPE OF EXPERIMENTATIONS:

- To determine the overall efficiency of reciprocating 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 SPECIFICATIONS :

- Pump : Double acting, Single Cylinder, Capacity 1 HP
Speed 250 RPM
- Drive : DC Motor with arrangement variable speed arrangement
- 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.