

## PITOT TUBE SET-UP (EE-1531)

Present set-up is self-contained water re-circulating unit, provided with a sump tank and a centrifugal pump etc. A Pitot tube is provided on flow line to measure the discharge. Pressures tapping from the Pitot tube are taken to differential manometer to measure pressure difference. Flow control valve and by-pass valve are fitted in water line to conduct the experiment on different flow rates. Flow rate of water is measured with the help of measuring tank and stop watch.

### SCOPE OF EXPERIMENTATIONS:

- ) To determine the co-efficient of velocity by using Pitot tube set-up.
- ) To plot the velocity profile curve.

### UTILITIES REQUIRED:

- ) Water Supply.
- ) Drain
- ) Electricity 0.5 Kw, 220V AC, Single Phase.
- ) Floor Area 1.5 x 0.75 m.



### TECHNICAL DETAILS:

- |                     |   |  |
|---------------------|---|--|
| ) Pitot tube        | : | Material Copper with Clear Acrylic (Compatible to 1. Dia. Pipe.) |
| ) Water Circulation | : | FHP Pump, Kirloskar make.  |
| ) Flow Measurement  | : | Using Measuring Tank with Piezometer Capacity 25 Liters.         |
| ) Sump Tank         | : | Capacity 50 Liters.  |
| ) Stop Watch        | : | Electronic.  |
| ) Control Panel     | : | Standard make On/Off Switch, Mains Indicator, Etc.               |

Tanks will be made of Stainless Steel. The Whole set-up is well designed and arrangement in good quality painted structure