

TECHNICAL SPECIFICATIONS :

1) Bernoulli's Theorem Apparatus :

The apparatus consisting of a conduit test section of convergent and divergent type. Piezometers tubes suitably provided over the test section. The test section will be in between inlet and outlet tanks. Level indicator is provided over the inlet tank. Flow control valves at inlet and outlet, stop watch and measuring tank with level indicator are also provided. F.H.P pump, measuring tank, sump tank and control panel with LED indicators and switches are also fitted over three rigid M.S. Structure.



2) Reciprocating Pump Test Rig:

Reciprocating pump of size $\frac{3}{4}$ " X $\frac{3}{4}$ " connected with 1 HP, A C motor and speed control driver for changing the speed of the motor. Pressure gauge is at the discharge of the pump and vacuum gauge is at the suction of the pump. Energy meter is for measuring motor input. Sump tank, measuring tank and control panel are mounted over rigid M.S. structure.

3) Centrifugal Pump Test Rig:

Centrifugal pump of size $\frac{3}{4}$ " X $\frac{3}{4}$ " connected with 1 HP, 3 phase motor and cone pulley having three pulley of different size (for three different speed). Pressure gauge is at the discharge of the pump and vacuum gauge is at the suction of the pump. Energy meter for measuring motor input. Sump tank, measuring tank, recirculation arrangement, necessary pipings and control panel are mounted over rigid M.S. Structure.

4) Multistage Centrifugal Pump Test Rig :

Multistage pump of size 2" X 2" connected with 3 HP, 3 phase A.C. motor having cone pulley of three different sizes. Foot valve will be connected in the suction side and gate valve is to control the flow rate of the discharge side. Pressure gauge is at the discharge of the pump and vacuum gauge is at the suction of the pump. Energy meter is for measuring motor input. Sump tank, measuring tank, control panel are mounted over rigid M.S. structure.

5) Fluid properties & Hydrostatic Bench :

A test table of size 2000mm x 1250mm x 800mm consists of one sump tank of 100 lts. capacity and one measuring tank of 50 lts capacity. One $\frac{1}{2}$ hp pump is for circulation of water and another f.h.p pump is to recirculate water from measuring tank to sump tank. Hydraulic bench consists of following experiments. A manometer is also placed to measure pressure drop.

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| i) Bernoulli's Apparatus, | ii) Impact Jet Apparatus, | iii) Reynold's Apparatus, |
| iv) Orificemeter Apparatus, | v) Pipe friction Apparatus, | vi) Losses in pipe fittings, |
| vii) Venturimeter Apparatus, | viii) V Notch Apparatus. | |

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