

Department of Chemical Engg.

Details of Equipments for the Fluid and Particle Mechanics Laboratory

tem	Specification	Quantity
PITOT TUBE	Material Copper/SS of compatible size fitted with vernies scale. Test Section: Material Clear Acrylic, compatible to 1" Dia. Pipe. Water circulation - FHP pump, Standard make Flow measurement - Using measuring tank with Piezometer (capacity approximately 25 L) and electronic stop watch Sump Tank - Capacity approximately 50 L Control panel comprises of standard make ON/OFF switch, mains indicator etc. Tanks - Stainless steel Whole set-up must be arranged on a rigid structure painted with industrial PU paint. English instruction manual with experimental procedures, block diagrams etc.	1
PRESSURE DROP THROUGH FLUIDISED BED	Packed Column : Material Borosilicate Glass with both end made of Stainless Steel Packing : Glass Beads. Water tank : Material Stainless Steel, Capacity 30 Ltrs. Water Circulation : FHP Pump Crompton/Sharp makes. Flow Measurement : Rotameter for water Pressure Drop Measurement : Manometer. Tanks - Stainless steel Whole set-up must be arranged on a rigid structure painted with industrial PU paint. English instruction manual with experimental procedures, block diagrams etc.	1
ROTAMETER TEST RIG	Water circulation - FHP pump, Standard make Provision for gas line along with water line must be included Flow measurement - Using measuring tank with Piezometer (capacity approximately 25 L) and electronic stop watch Sump Tank - Capacity approximately 50 L Control panel comprises of standard make ON/OFF switch, mains indicator etc. Tanks - Stainless steel Whole set-up must be arranged on a rigid structure painted with industrial PU paint. English instruction manual with experimental procedures, block diagrams etc.	1
PRESSURE DROP THROUGH PACKED BED	Packed Column : Material Borosilicate Glass with both end made of Stainless Steel Packing : Rasching rings- Size 8-10mm approx. Water tank : Material Stainless Steel, Capacity 30 Ltrs. Water Circulation : FHP Pump Crompton/Sharp makes. Flow Measurement : Rotameter for water Pressure Drop Measurement : Manometer. Tanks - Stainless steel, Whole set-up must be arranged on a rigid structure painted with industrial PU paint, English instruction manual with experimental procedures, block diagrams etc.	1



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