

# DEPARTMENT OF CIVIL ENGINEERING FLUID MECHANICS LABORATORY COLLEGE OF TECHNOLOGY

# Sardar Vallabhbhai Patel University of Agriculture & Technology Meerut 250110 (UP) List of Equipment's

S. No.	Name of Equipment	Technical Specification	Figure of Equipment/Model/Device
01	Venturi Meter & Orifice Meter Setup	The Setup consists of a parallel pipe line having a Venturi Meter and Orifice Meter of size 25 mm with control valve at discharge end. A Differential manometer 50 cm size with a common manifold to measure pressure difference. Consists a Sump tank fitted with a centrifugal pump 0.5 HP to recirculation of water, a discharge measuring tank with flow diverting arrangement also supplied	
02	Bernoulli's Theorem Apparatus	The Setup consists of Two supply tanks connecting with a diverging and converging Perspex duct with 11 piezo meter tubes with a control valve at discharge end. Consists a Sump tank fitted with a centrifugal pump0.5 HP to recirculation of water, a discharge measuring tank with flow diverting arrangement also supplied.	PARTY AND



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03	Impact of Jet Apparatus	The Setup consists of a Perspex cylinder housing with a nozzle of 10 mm dia, in the bottom, on upstream side A replicable vane arrangement with force applying device (Two vanes- One Flat and other curved vane). Consists a Sump tank fitted with a centrifugal pump 0.5 HP to recirculation of water, a discharge measuring tank with flow diverting arrangement also supplied.	IMPAGT OF JET APPARATUS
04	Orifice and Mouthpiece to determine the coefficient of discharge (Orifice Experiments)	The Setup consists of a supply tank having a arrangement to fixed the Orifice and mouth pieces (Two Nos Orifice and 4 Nos Mouth pieces) with a scale sliding arrangement to measure the X-Y coordinates of Jet. Consists a Sump tank fitted with a centrifugal pump 0.5 HP to recirculation of water, a discharge measuring tank with flow diverting arrangement also supplied	



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05	Notch Apparatus	The Setup consists of a Supply tank having a arrangement to fixed the
		different notches (Rectangular and V-Notch) with a pointer gauge.
		Consists a Sump tank fitted with a centrifugal pump 0.5 HP to
		recirculation of water, a Discharge measuring
		tank with flow diverting arrangement also supplied.





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		Fist of Equipment	
06	Metacentric Height Apparatus	As per Standard	
07	Pipe Friction Apparatus	The Setup consists of a parallel pipe line of 3 pipes of 15 mm, 20 mm and 25 mm dia with control valve at discharge end. A Differential manometer 50 cm size with a common manifold to measure pressure difference. Consists a Sump tank fitted with a centrifugal pump 0.5 HP to recirculation of water, a discharge measuring tank with flow diverting arrangement also supplied	