**Development of Virtual lab :Round 3 -Lab Manual - Template (Worksheet)**

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**Round 2**

**1. Aim and Objective**

**To study the applications of the Bernoulli’s equation**

**a) Venturimeter**

**2. Theory**

**Venturimeter: is a device used for measuring the rate of flow of a fluid**

**flowing through a pipe. It consists of three parts:**

**• A short converging part**

**• Throat**

**• Diverging part**

**Let d1 = diameter at the inlet**

**p1 = pressure at section 1**

**v1 = velocity at section 1**

**A1= area at section1**

**d2, p2, v2, A2 are the corresponding values at the throat.**

**A1\*v1=A2\*v2**

**H={(v2+v1)(v2-v1)}/2g**

**coefficient of discharge=(coeficient of venturimeter)\*A1\*A2(2gh/A12-A22)1/2**

**3.Procedure**

PLANING------SKETCHING OF VENTURIMETER TUBE-----USE HTML/CSS/JAVASCRIPT------DONE



**4.Pre test Assessments**

* Which among the following is the cheapest device for measuring flow discharge rate
* Odometer
* Speedometer
* Venturimeter
* **Orificemeter**

5. **Post test Assessments**

For Learning Objective 1

* Venturimeter can be used for maeasuring the flow rate of:
* Liquid only
* Gas only
* **Both a and b**
* None of these

For Learning Objective 2

* Constant coefficient of discharge for Venturimeter connected to 2 to 8' pipe diameter is approximately around :
* 0.2
* 1
* **0.98**
* 0.6