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## Lab Manual Of Venturi Flume Experiment

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simulation of Venturi flume flow Lecture #1: Examples of Venturi Flume ~~Lab Manual Of Venturi Flume~~

The Venturi flume HM162.51 is the fully-functional model of a Venturi channel measuring unit for flow rate measurement of a river course. The unit is designed for installation in the Modular Flow Channel HM162. The Venturi effect is achieved by way of a horizontal constriction of the channel cross section. The measuring unit consists of two plexiglass side

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Lab Manual Of Venturi Flume Experiment RECTANGULAR VENTURI FLUME The original idea was to invent a device which would replace the ordinary rating flume, such as is used in irrigation canals. It was thought that the flume might be converted into a self-contained measuring Page 7/27.

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analog communication experiment lab manual (complete) lab manual of venturi flume experiment (complete) 428 readers feb 2015 laboratory manual for principles of HM 161.51 Venturi Flume - G.U.N.T - HM 161.51 Venturi Flume to determine the discharge of a flume. Venturi flumes are specially shaped processes in the flume. Learning Objectives / Experiments

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Fuels And Lubricants Lab Manual Venturi flume experiment manual.pdf Motorola xts manual.pdf Clinical virology manual.pdf 25dkaf generator manual.pdf Laboratory Flumes and Channels for Hydraulic - Within the limited confines of a laboratory flume it is critical that the best of practical

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Civil Engineering Lab II (Group 3) Hydraulics 1 Widening or narrowing the width of a channel has the same effect as raising or lowering the bed of the channel. Therefore the throat created by a venturi flume has the discharge of:  $Q = C_d \cdot b \cdot H \sqrt{2gH} = 1.704 b H^{3/2}$  The coefficient of discharge therefore determined as,  $C_d = \frac{\text{Actual Flow Rate}}{\text{Theoretical Flow Rate}}$

~~HD 1 R1 Civil Engineering Lab II(Group 3 Hydraulics 1...~~  
Flow-measuring flumes are used to determine the discharge of a flume. Venturi flumes are specially shaped flumes with defined lateral contraction, sometimes also with a shaped bottom. The constriction dams up the discharge. The backed-up water ensures that subcritical discharge occurs in the flume.

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Venturi Meter. The throat of the Venturi Meter is a short parallel side tube having its cross – sectional area smaller than that of the pipe. The divergent cone of the Venturi Meter is a gradually diverging pipe with its cross – sectional area increasing from that of the throat to the original size of the pipe. At the

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S-6 Tilting laboratory flume with manometer, slope adjusting scale and flow arrangement. Hook gauge (to measure depth of water) Related Theory. Flume. It is a channel supported above the ground level. Specific Energy. It is the total energy per unit weight measured relative to the channel bed.  $E = y + \frac{V^2}{2g}$

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