

## Fluvial Hydraulics and Research Laboratory

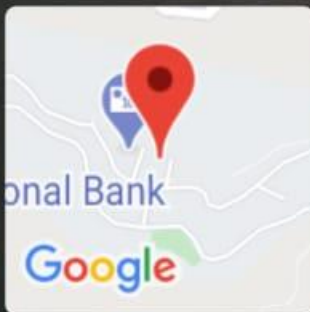
**Purpose:** To familiarize students with the flow characteristics in open channel.

The main apparatus in this lab i.e., the flume has a special facility of being able to re-

**Special Purpose:** circulate sediments that is transported to the downstream outlet during an experiment. The flume was built specifically to investigate the transport of riverbed material under uniform flow conditions.

S. No.	Experiment Name	Equipment Used
1	To find out the velocity distribution in open channel by pitot tube and Acoustic Doppler Velocimeter	<ul style="list-style-type: none"><li>• Open Channel Flume 20 m</li><li>• Acoustic Doppler Velocimeter</li><li>• Pitot Tube</li><li>• Differential manometer double column type</li></ul>
2	To study flow characteristics around Bridge pier	<ul style="list-style-type: none"><li>• Open Channel Flume 20 m</li><li>• Acoustic Doppler Velocimeter</li><li>• Bridge pier model</li></ul>
3	To study flow characteristics around Abutment	<ul style="list-style-type: none"><li>• Open Channel Flume 20 m</li><li>• Acoustic Doppler Velocimeter</li><li>• Model Abutment</li></ul>
4	Study scouring around bridge pier and Abutment	<ul style="list-style-type: none"><li>• Open Channel Flume 20 m</li><li>• Acoustic Doppler Velocimeter</li><li>• Bridge pier model</li></ul>

## OPEN CHANNEL FLUME 20 m



**Solan, Himachal Pradesh, India**

Civil Engineering Department ,JUIT-Waknaghat Rd, Himachal Pradesh 173221, India

Lat N 31° 0' 59.7744"

Long E 77° 4' 13.296"

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# ACOUSTIC DOOPLER VELOCIMETER

