

Product Name :
TILTING FLUME (6 Meter)

Product Code :
NLAB-ENGINEERINGLB16013



Description :

TILTING FLUME (6 Meter)

Technical Specification :

DESCRIPTION:-

The Tilting flume consists of a channel of size as in specifications. At the inlet a flow steadying section is provided so that there will be fewer disturbances at the test section. The gates provided at the upstream & downstream of the test section help to regulate the depth of flow. Depth measurements can be achieved with the help of a hook or point gauge mounted on a trolley which gives longitudinal and transverse movement. The slope of the bed can be adjusted to give positive or negative slopes.

RANGE OF EXPERIMENT:-

- Study of open channel flow with slope
- Study of specific energy curve

- Study of hydraulic jump
- Study of Nappe profiles over a sharp crested weir
- Calibration of sharp crested, Broad crested and ogee weir
- Calibration of a Venturiflume
- Study of flow under the sluice gate

SPECIFICATION:-

- A hydraulic flume of c/s 200x300 mm & 6000 mm length with transparent window on either sides of 1800 mm length.
- Sliding gates one at upstream and other at the downstream side.
- Screw jack for change of the slope of the flume.
- A Sump tank of sufficient capacity.
- Supply tank with waves damping arrangement.
- A 3 H.P. centrifugal monoblock pump.
- An Orifice meter with manometer to measure the discharge. Inlet/throat dimensions: 50/25 mm respectively.
- Trolley with point gauge for level measurement.
- Models supplied:
 - Sharp crested weir (crest length 200 mm)
 - Broad crested weir
 - Ogee weir or spillway.
 - Venturi flume

SERVICE REQUIRED:-

- Suitable Water supply.
- Suitable floor space to mount apparatus.
- 15 amps Single Phase Electrical Connection.

Naugralabequipments

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