IS 14573 : 1998
IS0 1086 : 1985

Indian Standard

LIQUID FLOW MEASUREMENT IN OPEN CHANNELS – VELOCITY-AREA METHODS – COLLECTION AND PROCESSING OF DATA FOR DETERMINATION OF ERRORS IN MEASUREMENT

1 Scope and field of application

This International Standard specifies a standard basis for the collection and processing of data for the determination of individual components of the total error in the measurement of liquid flow in open channels by velocity-area methods.

For determining the discharge in open channels by the velocity area method, components of the flow need to be measured. The total uncertainty in discharge is a combination of the uncertainties in these components. This International Standard specifies a standard basis for collecting and processing the data required to compute the component uncertainties for determining the total uncertainty in discharge, This International Standard may be used when carrying out an investigation of component uncertainties from data taken from a large sample of rivers in a basin or in a country or for international investigations.

2 References

IS0 748, *Liquid flow measurement in open channels – Velocity -area methods.*

ISO 772, *Liquid flow measurement in open channels - Vocabulary and symbols.*

ISO 4363, *Liquid flow measurement in open channels - Methods for measurement of suspended sediment.*

ISO 4364, *Liquid flow measurement in open channels – Bed material sampling.*

ISO 5168, *Measurement of fluid flow - Estimation of uncertainty of a flow rate* measurement

ISO/TR 7178, *Liquid flow measurement in open channels - Velocity-area methods - Investigation of total error.*