

*Indian Standard*

**SPECIFICATION FOR  
VELOCITY RODS**

**1. SCOPE**

**1.1** This Standard specifies the functional requirements, test to be carried out, and materials to be used, for both single tube rigid velocity rods and telescopic (adjustable) velocity rods. Typical examples are provided in Appendix A.

**FOREWORD**

**0.1** This Indian Standard was adopted by the Indian Standards Institution on 23 July 1968, after the draft finalized by the Fluid Flow Measurement Sectional Committee had been approved by the Civil Engineering Division Council.

**0.2** While current meters should be used as far as possible for the measurement of velocity of flow in open channels, under certain circumstances it may not be possible or advisable to use a current meter and in such circumstances surface floats and velocity rods may have to be used. While the surface floats give only surface velocity and the mean velocity has to be deduced with some consequential inaccuracy, velocity rods directly give the mean velocity to a fair degree of accuracy. However, the use of velocity rods is restricted to sites where the bed of the stream is uniform and free of large humps, that is for measurement of velocities in regular canals.

**0.3** In the formulation of this standard due weightage has been given to the practices in the field in this country.

**0.4** Assistance has also been derived from the Ganga Discharge Circle, Ministry of Irrigation & Power.

**0.5** This standard is one of a series of Indian Standards on the instruments used in the measurement of flow in streams and sediment. Other standards published so far in the series are:

IS : 3910-1966	Specification for current meter (cup type) for water flow measurement
IS : 3911-1966	Specification for surface floats
IS : 3912-1966	Specification for sounding rods
IS : 3913-1966	Specification for suspended sediment load samplers
IS : 3917-1966	Specification for bed material samplers (scoop type)
IS : 3918-I 966	Code of practice for use of current meter (cup type) for water flow measurements
IS : 4073-1967	Specification for fish weights
IS : 4080-1967	Specification for vertical staff gauges

**0.6** For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS: 2-1960\*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard,