

**Approval Date: 07 April 1999****Reviewed on : 23 October 2007****Version: 2****Purpose**

The boat outfit is to suspend current meters and samplers from a boat into a river or canal.

**Conditions & Requirements**

- The boat outfit shall be of such a design that it operates reliably and safely under the prevailing environmental conditions.
- The boat outfit shall be easy to operate and maintain.
- The boat outfit shall be supplied with the accessories as needed for effective deployment.
- All materials on the boat outfit exterior shall be non-corrosive.
- The boat outfit shall have an expected technical lifetime of not less than 10 years.
- The equipment shall consist of a crane and a winch arrangement.
- The current meter shall be lowered by a hand driven winch.
- The boat outfit shall be provided with a clamping facility to hold the cable at any desired position.
- While hoisting the current meter the cable shall be wound gradually guided from the one drum end to the other and vice versa, to lay the windings tidily next to each other.
- The winch system shall have a re-settable depth counter.
- The winch and its attachments such as crank, brake, ratchet/catch shall be assembled in a compact unit.
- Provisions to mount this assembly to a survey boat shall be part of the delivery.
- The cable from which the current meter is suspended shall have an incorporated insulated electrical conductor. The conductor connects the flow sensor/revolution sensor to the pulse counter. The electrical connection should pass through a slip-ring assembly on the winch.
- The suspension cable shall match the current meters.
- An A-frame at the bow of the survey boat shall be included in the delivery.
- The boat outfit shall generally comply with IS 6064-1971.

**Specifications**

**material** as per IS 6064-1971

**mass of current meter** up to 100 kg

**maximum load** 2,000 Newtons

**cable length** max. 30 m

**cable torque** torque free suspension cable

The suspension cable should not exert any torque that may adversely affect the alignment of the flow sensor into the direction of flow. In particular in case a heavy suspension weight is used, there is a risk of cable induced torque.

**flow velocity** max. 5 m/s

**mounting** the boat outfit details have to match the boat on which it is to be used.

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