

SURVEY

INSTRUMENTS

Theodolite

The Theodolite is an instrument for measuring horizontal and vertical angles. It is the most precise instruments available for such observations and is of wide applicability in surveying.

Plane Table

It is a wooden board mounted on a portable tripod stand. The standard size of the Plane Table is 30" x 24" x 1". The instrument is used for Plane Table traverse work as well as detail survey.

Sight Vane

It is used for Setting rays in Plane Table Survey. It is an index ruler and also known as sight Vane or Sight Rule.

Optical Square

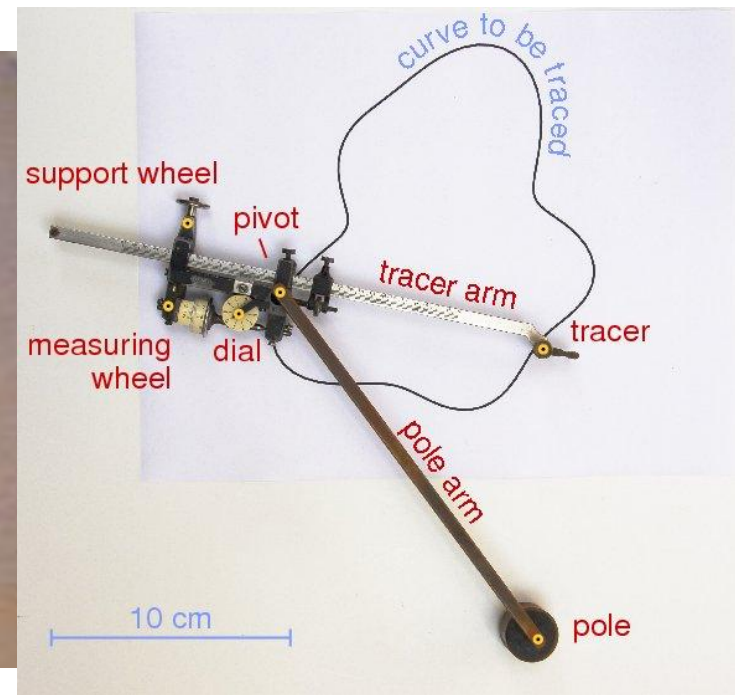
It is a compact hand instrument for setting out right angles. It is used for locating off-sets distance upto one chain from either sides of chain line.

Pantograph

It is used for copying, enlarging and reducing plans/maps to any desired scale.

Planimeter

It is an instrument used for working out the area of any figure from the map.



Chain

The Chain is used for linear measurements. It is formed of a number of pieces of straight wire called link, the ends of which are bent and connected to each other through small oval rings. The total length of a chain is the total length from outside to outside of the handle. At every tenth link or 2 metres a tag or tally is attached to help quick reading of distance when using the chain.

Magnetic Compass

It consists of a freely pivoted magnetic needle enclosed in a wooden box. It helps to indicate the direction of geographical North and is use for Rough alignment of orientation of maps.