

GOVT. POLYTECHNIC COLLEGE, BUDGAM (J&K)

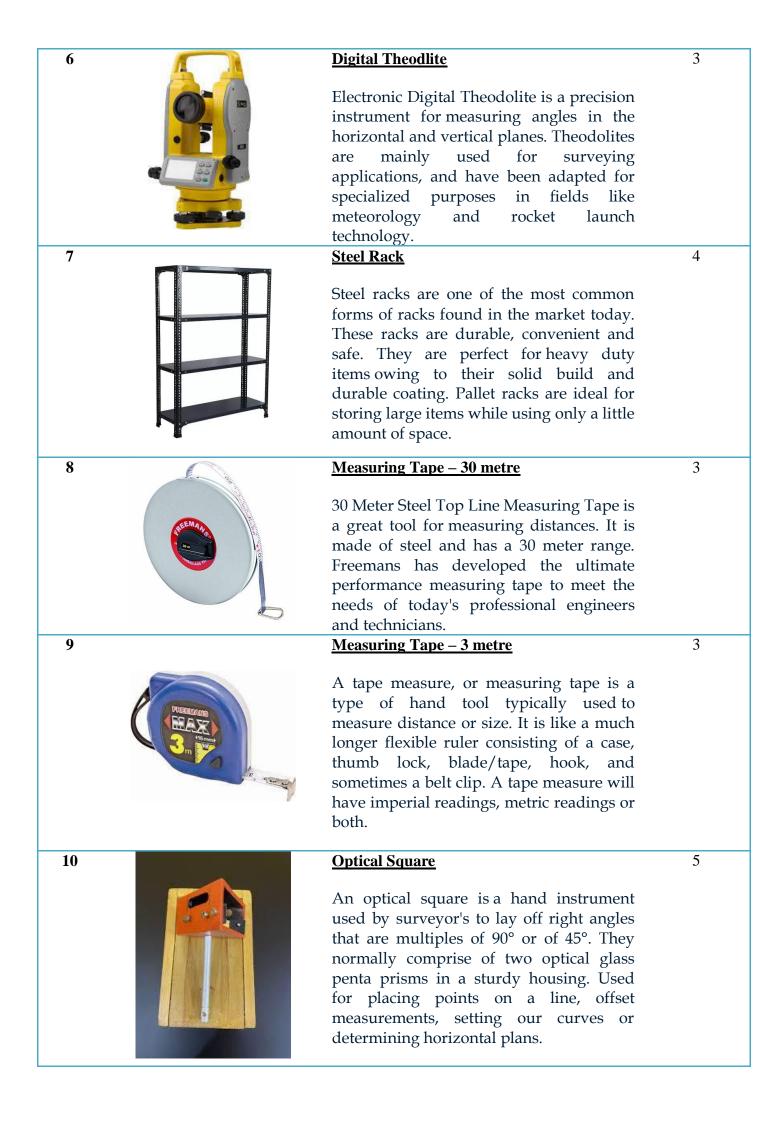
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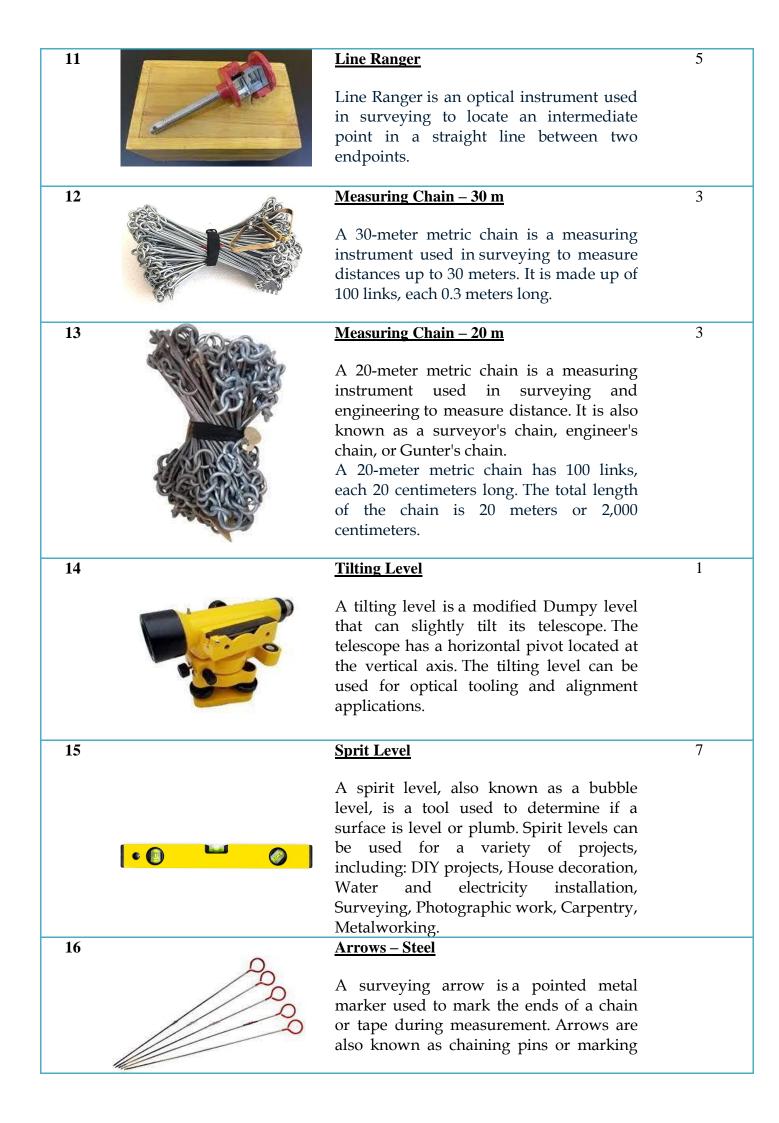


SURVEYING LABORATORY

DEPARTMENT OF CIVIL ENGINEERING

| S. No | Equipment | Description | Quantity |
|-------|-----------|---|----------|
| 1 | | Total Station A total station is a surveying instrument that uses electronics to measure distances and angles. It combines the functions of a theodolite, transit level, and electronic distance meter (EDM). Total stations are used in modern surveying and building construction. | 2 |
| 2 | | Electronic Theodolite Electronic Digital Theodolite is a precision instrument for measuring angles in the horizontal and vertical planes. Theodolites are mainly used for surveying applications, and have been adapted for specialized purposes in fields like meteorology and rocket launch technology. | 2 |
| 3 | // | Ranging Rod A ranging rod (or range rod) is a surveying instrument used for marking the position of stations, and for sightings of those stations, as well as for ranging straight lines. | 30 |
| 4 | | Prismatic Compass A prismatic compass is a navigation and surveying instrument which is extensively used to find out the bearing of the traversing and included angles between them, waypoints (an endpoint of the lcourse) and direction. | 5 |
| 5 | | Plane Table A plane table (plain table prior to 1830) is a device used in surveying site mapping, exploration mapping, coastal navigation mapping, and related disciplines to provide a solid and level surface on which to make field drawings, charts and maps. Accessories : Drawing Board, Spirit level, Trough Compass, Plumbing Fork, Plumb Bob & Tripod. | 5 |







pins Wooden Pegs

Survey pegs are used to mark the position of a point, line or feature on the ground. They're also known as surveyors' pins or surveyors' stakes in some parts of the world. Survey pegs made from wood, come in a variety of shapes and sizes.

Surveyor's compass

Also known as a circumferentor, is used to measure horizontal angles and the bearing of a line of sight. It's also used to determine the horizontal direction of a line with reference to the direction of a magnetic needle.

Auto Level

An optical instrument used to establish or verify points on the same horizontal plane. It's also known as a self-leveling level or builder's auto level.

Levelling Staff

A levelling staff, also known as a level staff or levelling rod, is a rectangular rod with graduations used to determine the difference in height between points. It is used with a levelling instrument.