

Sanjivani College of Engineering, Kopargaon

(An Autonomous Institute) Affiliated to Savitribai Phule Pune University.

At Sahajanandnagar, Post Shingnapur-423603, Ta.: Kopargaon, Dist.: Ahmednagar (MS)

Approved by AICTE, ISO 9001-2015 Certified, Accredited by NBA, Accredited 'A' Grade by NAAC,

Website: www.sanjivanicoe.org.in, Email: principalcoe@sanjivani.org.in,

Ph.No.: (+91) 9130191301, Fax: (02423)-222682



Department of Civil Engineering

Surveying Laboratory Details



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Surveying Laboratory



List of Major Equipment

- Total Station
- Digital Level
- Digital Planimeter
- Theodolite 1 sec
- Theodolite 20 sec
- Auto Level
- Dumpy Level

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Major Equipment



Total Station

Manufacturer-Lawrence and Mayo PVT.LTD.

Cost- Rs. 2,52,000/-

Application- Total stations are used in surveying, construction, and engineering. They measure angles and distances to determine precise locations, elevations, and boundaries. This data is crucial for creating maps, planning infrastructure, and ensuring accuracy in construction projects.

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Digital Level

Manufacturer-Lawrence and Mayo PVT.LTD.

Cost- Rs. 1,28,781/-

Application- Digital levels are used in construction and surveying for precise height measurements. They determine elevations, transfer heights, and ensure level surfaces. Their digital display minimizes human error and speeds up the levelling process compared to traditional levels.

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Digital Planimeter

Manufacturer-Lawrence and Mayo PVT.LTD.

Cost- Rs. 52,210/-

Application- Digital planimeters are used to measure the area of irregular shapes.

They are commonly used in surveying, cartography, and engineering to determine land area, map features, or areas on plans. Their digital interface provides accurate and efficient area calculations.

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Theodolite 1 sec

Manufacturer-National Instrument LTD. Calcutta.

Cost- Rs. 1,87,515/-

Application- 1-second theodolites offer highly precise angle measurements crucial in surveying, construction, and engineering. They establish accurate baselines, set out precise angles for structures, and monitor deformations, demanding sub-second accuracy for critical projects.

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Theodolite 20 sec

Manufacturer-Lawrence and Mayo PVT.LTD.

Cost- Rs. 19,295/-

Application- 20-second theodolites are used for general surveying, construction, and setting out. They measure horizontal and vertical angles with moderate precision, suitable for tasks like establishing lines, setting building corners, and determining slopes where high accuracy isn't critical.

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Auto Level

Manufacturer-Lawrence and Mayo PVT.LTD.

Cost- Rs. 16,144/-

Application- Auto levels are used in construction and surveying to establish and transfer levels. They quickly determine relative heights, ensuring level foundations, floors, and other surfaces. Their self-levelling feature simplifies operation and increases efficiency on site.

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Dumpy Level

Manufacturer-National Instrument LTD. Calcutta.

Cost- Rs. 2,200/-

Application- Dumpy levels are used in surveying and construction for establishing horizontal lines and transferring elevations. They are suitable for general leveling tasks like site preparation, road construction, and determining relative heights where high precision isn't crucial.