

Sanjivani College of Engineering, Kopargaon

(An Autonomous Institute)

Affiliated to Savitribai Phule Pune University.

At Sahajanandnagar, Post Shingnapur-423603, Tal: 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 Structural Engineering Structural Engineering Research Laboratory Details



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Department of Structural Engineering Structural Engineering Research Laboratory



List of Major Equipment

- Universal Testing Machine (UTM)-Analogue
- Universal Testing Machine (UTM)-Computerized
- Compression Testing Machine (CTM)
- Horizontal and Vertical Shake Table
- Concrete Permeability Apparatus
- Pneumatic Operated Cylinder Press

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Department of Structural Engineering Universal Testing Machine (UTM)-Analogue



Manufacturer

• Fuel Instruments & Engineers Pvt. Ltd. (FIE)

Model

• UTN-40

Maximum Capacity

• 400 kN

Application

• Tension Test on Mild and TMT Steel, Compression Test on Bricks, Timber etc., Bending Test on Timber, RCC beam etc., Single and Double Shear Test on Mild Steel.

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Department of Structural Engineering Universal Testing Machine (UTM) - Computerized



Manufacturer

- Fine Spavy Associates & Engineers Pvt. Ltd. (FSA)

Model

- TUF-C-1000

Maximum Capacity

- 1000 kN

Application

- Tension Test on Mild and TMT Steel, Compression Test on Bricks, Timber etc., Bending Test on Timber, RCC beam etc., Single and Double Shear Test on Mild Steel, Bend Re-bend Test of Mild Steel Bars

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Department of Structural Engineering Compression Testing Machine (CTM)



Manufacturer

- Associated Instrument Manufacturers (INDIA) Pvt. Ltd. (AIMIL)

Model

- AIM.311

Maximum Capacity

- 2000 kN

Application

- Compression Test on Bricks, Concrete Cubes, Mortar Cubes, Cylinder, Metal Block etc.

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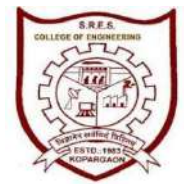
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Department of Structural Engineering Horizontal & Vertical Shake Table



Manufacturer

- Milenium Technologies (I) Pvt. Ltd.

Model

- Horizontal & Vertical Shake Table

Maximum Pay Load Capacity

- 30 kg

Application

- **Horizontal**-To read the effect of vibrations and earthquake on different structures and building models.
- **Vertical**- To simulate the condition of the earthquake with known frequency and amplitude of vibrations

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Department of Structural Engineering Concrete Permeability Apparatus



Manufacturer

- Hydraulic & Engineering Instruments (HEICO)

Model

- HC 49.30

Maximum Capacity

- Maximum pressure head of 1.5 Mpa

Application

- Used to determine the permeability of cement mortar and concrete specimens either cast in laboratory or obtained by cutting out cores from existing structures.

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Department of Structural Engineering Pneumatic Operated Cylinder Press



Manufacturer

- Assembled (Fabricated Manually)

Model

- Pneumatic Operated Cylinder Press

Maximum Capacity

- Maximum pressure head of 2 Mpa

Application

- Used to cast press mud blocks, bricks