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मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर (राष्ट्रीय महत्व का संस्थान)
Malaviya National Institute of Technology Jaipur (*An Institute of National Importance*)



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Department of Civil Engineering

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Facilities

Major facilities available in Civil Engineering Department

[Computer Lab](#)

Server, 25 High End Pentium IV Desktops, Laptop and Desktop to every Faculty Member, Color and A3 size Laser Printer, Plotter, Scanner, Office Suites, OS, Programming Tools and Software.



Environmental Engg. /Public Health Engg. Lab

Ion Analyzer with ion selective electrode, UV-Visible Spectrophotometer, Atomic Absorption Spectrophotometer, Ozone Generator, Auto Exhaust Analyzer, Particle size analyzer, Toxic gas analyzer, High volume sampler Diesel Smoke Meter, Noise Meter, Potable lab for complete physical and chemical analysis of water & waste water.

TOC analyzer



Incubator



Conductivity Meter

**Survey Lab**

Build Auto Reduction, Digital Planimeter, Total Station, Self Reduction Theodolite, Electronic Distance Measuring Instrument, GPS.

Road Material Testing Lab

Nuclear Density Gauge, CBR Apparatus, Digital Benkelmen Beam, Core Cutter, Marshall Apparatus, Roughometer, Bump Integrator & Viscometers.

Asphalt Content Oven



Automatic Soil Compactor



Bitumen Extractor





Bitumen Penetrometer



California Bearing Ratio



Crushing Value Apparatus with CTM



Los Angeles Abrasion Testing Machine



Theoretical Maximum Specific Gravity Apparatus



Hydraulics Lab

DISA Hot Wire Anemometer, Wind Tunnel, Rigid and Tilting Bed Flumes, Francis Turbine, Pelton Wheel Turbine, Centrifugal Pump, Kaplan Turbine.

Notches Apparatus**Francis Turbine**



Multistage Centrifugal Pump Test Rig



Orifice and Mouthpiece Apparatus



Impact of Jet Apparatus

**Remote Sensing/GIS Lab**

Digital Camera, Mapping Software such as ArcGIS University Education Kit with extensions, GeoMedia Professional, GRID, ERMapper, AutoCAD Educational Solution Set (Civil Engineering), Groundwater Modelling System (GMS), Watershed Modelling System (WMS).

Geology Lab

Clinometer, Microscope, Hardness Box, Samples of Rocks.

Soil/ Geotechnical Engineering Laboratory

Soil Drilling, Sampling & SPT Machine, Direct Shear Box test apparatus 2 kN, Triaxial test, Un-Confined compressive strength, Static cone penetrometer 100 kN capacity Engine Driven, Plate load test, Direct Shear Box test setup for rocks, Vane Shear Test Setup.

Automatic Consolidometer



Compression Test Apparatus



Direct Shear Test Apparatus



Field Vane Shear Test



Large Scale Settlement Test Apparatus





Slake Durability Test Apparatus



Triaxial Test



Unconfined Compression Test Equipment

**Concrete Lab**

The laboratory is one of the largest laboratories for evaluation of concrete durability and is also equipped with a 42 m long Gantry Girder with a 7.8 m span for shifting heavy equipments/specimens. Some of the important equipments are ???Electronic Universal Testing Machine, Rebound Hammer, Digital Compressive Testing Machine, Ultra-sonic Pulse Velocity Apparatus, Concrete Core Cutter, Carbonation Chamber, Autoclave Machine, Abrasion Testing Machine, Water Permeability Apparatus (DIN 1048), Autoclam Permeability System, Freeze-thaw Chamber, Salt Spray Chamber, Chloride Ion Diffusion Set-up, Corrosion Monitoring System, Vacuum Impregnation Machine, and Temperature controlled curing tanks.

Digital Sieve Shaker**Compressive Testing Machine**



Flexural Testing Machine**Loadframe****Moulds**



OwenDry



OwenDry1



Universal Testing Machine





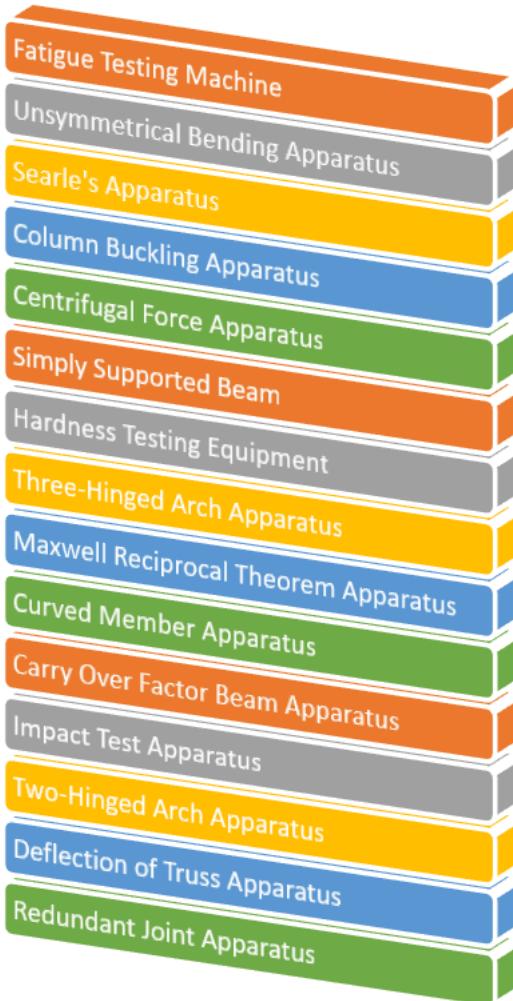
Structural Dynamics Lab

The Lab has an electrodynamics shaker of 600 kg(f) pay load capacity and maximum acceleration up to 75g, and a frequency range of 1 to 3500Hz, with microprocessor controlled data acquisition (accelerometers, having frequency range of 1Hz to 6kHz, having nominal sensitivity of 10 to 30 pC/g) and control system. Besides that the Lab has two horizontal and one vertical electromechanical shaker, vibration absorber and various size building models meant for imparting fundamental understanding of concepts of structural dynamics.

Material Testing Laboratory/ Structural Analysis Laboratory

Major equipment in the Material Testing Laboratory / Structural Analysis Laboratory:

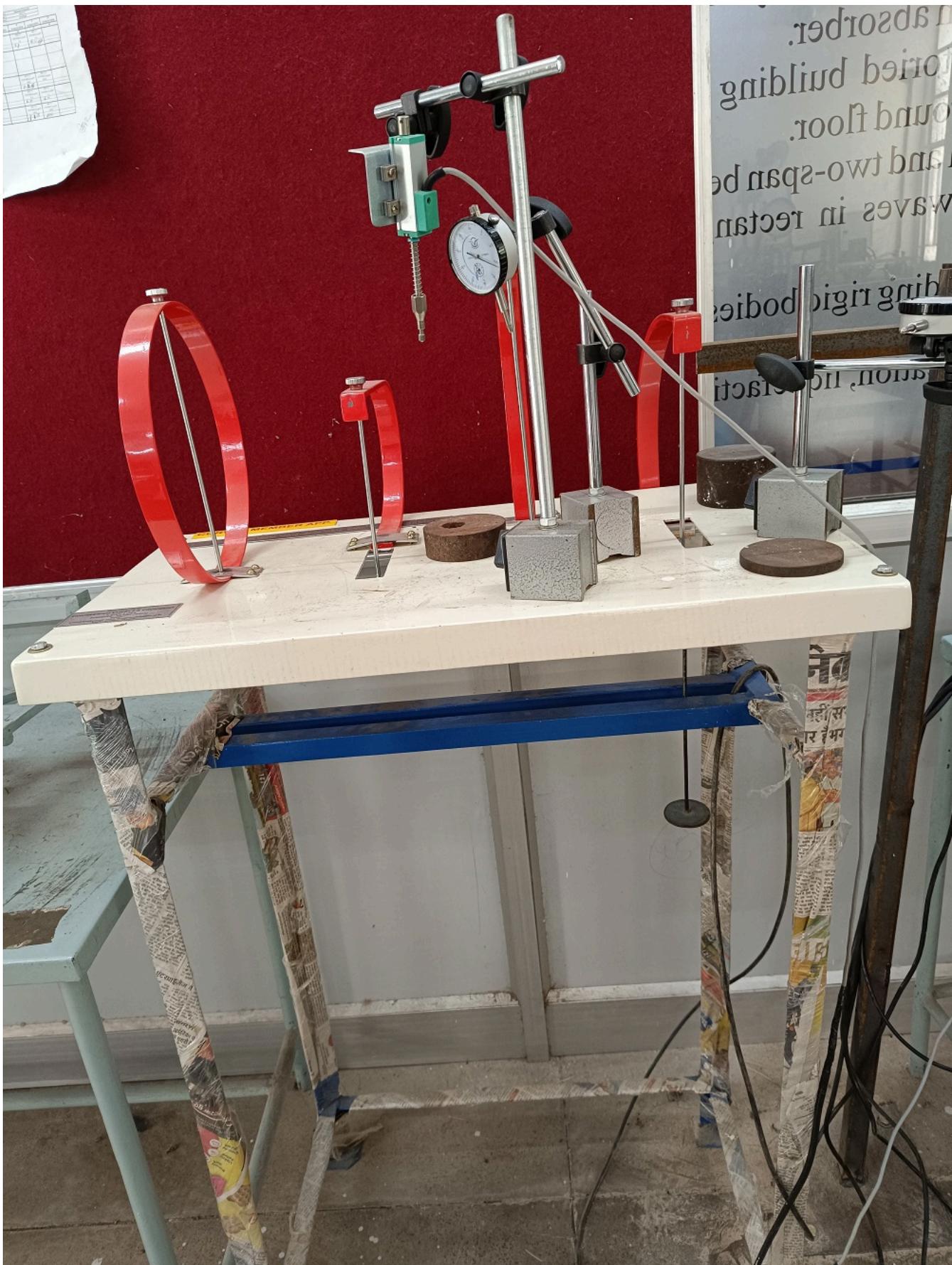
1. Fatigue Testing Machine
2. Unsymmetrical Bending Apparatus
3. Searle's Apparatus
4. Column Buckling Apparatus
5. Centrifugal Force Apparatus
6. Simply Supported Beam
7. Hardness Testing Equipment
8. Three-Hinged Arch Apparatus
9. Maxwell Reciprocal Theorem Apparatus
10. Curved Member Apparatus
11. Carry Over Factor Beam Apparatus
12. Impact Test Apparatus
13. Two-Hinged Arch Apparatus
14. Deflection of Truss Apparatus
15. Redundant Joint Apparatus



Brinell Hardness Test Apparatus



Curved Member Apparatus



Deflection of Truss Apparatus



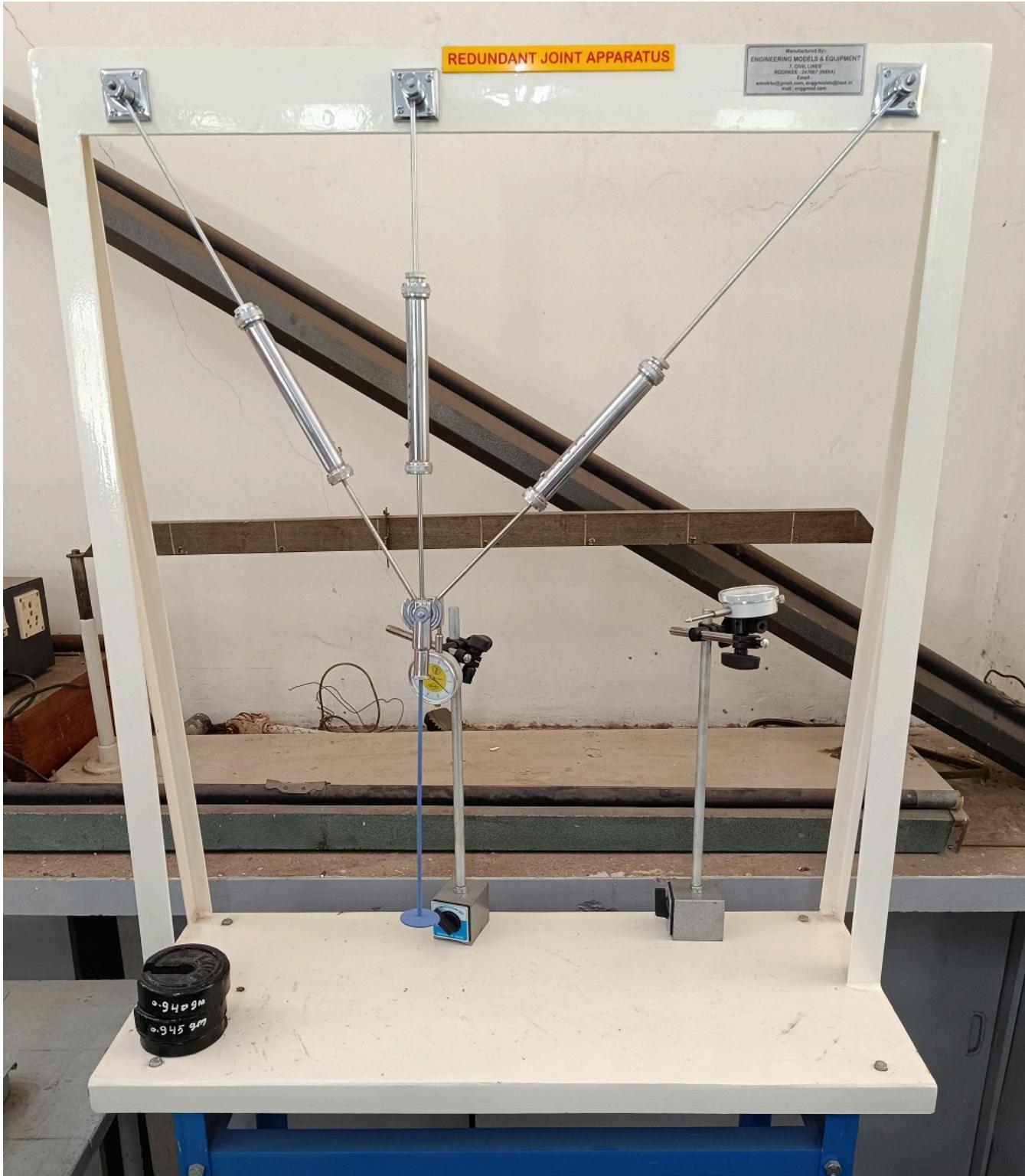
Fatigue Testing Machine



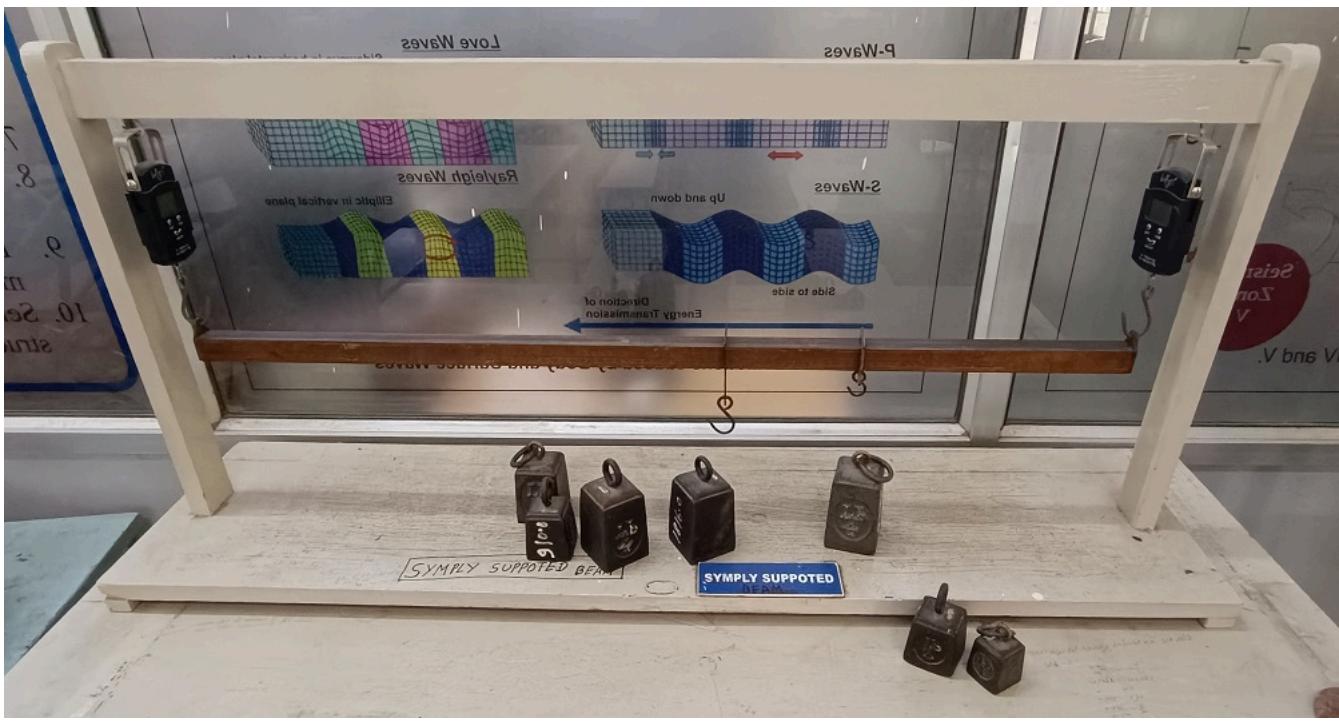
Material Testing Machine



Redundant Joint Apparatus



Simply Supported Beam Apparatus



Three Hinges Arch Apparatus



Universal Testing Machine



Vickers Hardness Test Apparatus





White Deflected Beam Apparatus



Waste to Resource and Sustainable Construction Lab

Department of Civil Engineering at MNIT Jaipur took a green initiative based on a novel approach- integration of academic and research activities with on field demonstration of Construction products using waste by introducing "Waste to resource and sustainable construction lab," in the domain of Construction materials, technology & management. In addition to holding academic and research activities for UG and PG students, the lab, with its available equipment and machinery developed technology to used campus C&D waste in making useful products like Interlocking tiles for campus parking, footpath, and park areas. The lab hosts tile and brick making equipment with routine lab testing equipment for academic and training purposes. It trains UG/PG students, researchers and visitors on the concept of Sustainable Construction and provides space and facility for developing understanding in the field of construction practices. It is providing routine labs for UG/PG courses and research facilities to UG/PG and PhD scholars. It has produced many research publications, submitted patents. The lab further aims to develop facility for extensively exploring sustainable materials, technology, management practices under Construction domain of Civil Engineering.

Available Equipment:

1. Brick Making Machine
2. Paver Block Making setup
3. Vibration Table
4. Pan Mixer
5. Tilting Mixer
6. Colour Mixer
7. Ribbon Mixer
8. Marsh Cone
9. Thermocol-Plastic tile Casting unit
10. Jaw Crusher
11. Mini Pulveriser
12. Oven
13. Humidity Chamber
14. Sieve Shaker set

Water Resource Engineering Laboratory**Related Links**

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