

# K.S.R. COLLEGE OF ENGINEERING, TIRUCHENGODE - 637 215

## Department of Civil Engineering

### Special Research Laboratories

Sl.No.	Name of the Laboratory	Name of the Special Equipment	Use/ Application of the Equipment/Software for research activities
1	Concrete Laboratory	Accelerated curing tank	Used to get early high compressive strength in concrete. This method is also used to find out 28 days compressive strength of concrete in 28 hours.
		Universal Testing Machine 600 kN capacity	Used to determine the tensile stress and compressive strength of materials.
		Automatic Compression Testing Machine	Used to find the compressive strength of concrete bricks and paver blocks; split tensile strength of concrete.
		Steam Curing Chamber	Used for heat curing of geopolymer concrete specimens
		Industrial Oven	Used for drying, and curing of concrete specimens
		Pan Mixer	For mixing dry and wet materials for concrete mix preparation
		Hydraulically Operated concrete block making machine	To produce hollow block, solid blocks and bricks
		High density hydraulic paving block machine	To produce paver blocks
		Tile abrasion Testing machine	Used to measure The wear of the tile
2	Environmental Engineering Laboratory	Atomic Spectrometer	Atomic spectroscopy is used for the determination of trace metals in many types of samples composed of organic or inorganic matrices.
3	Structural Engineering Laboratory	100 Ton Loading Frame With Strong Floor	Used for testing structural elements like beam, columns, portal frames, wall panels etc.
		Data Acquisition System	Stores the data from the receiver for a period of time which records and analysis the data.
		Ultrasonic Pulse Velocity	The strength and quality of concrete is assessed by measuring the velocity of an ultrasonic pulse passing through a concrete structure.

**K.S.R. COLLEGE OF ENGINEERING, TIRUCHENGODE - 637 215**  
(Autonomous)

**DEPARTMENT OF CIVIL ENGINEERING**

**Special Research Laboratory Equipment**



**Accelerated Curing Tank**



**Automatic Compression Testing Machine**



**Steam Curing Chamber**



Vivo V15  
AI Triple Camera

2023.09.14 10:09

**Universal Testing Machine**



Vivo V15  
AI Triple Camera

2023.09.14 10:14

**Industrial Oven**



Vivo V15  
AI Triple Camera

2023.09.14 10:12

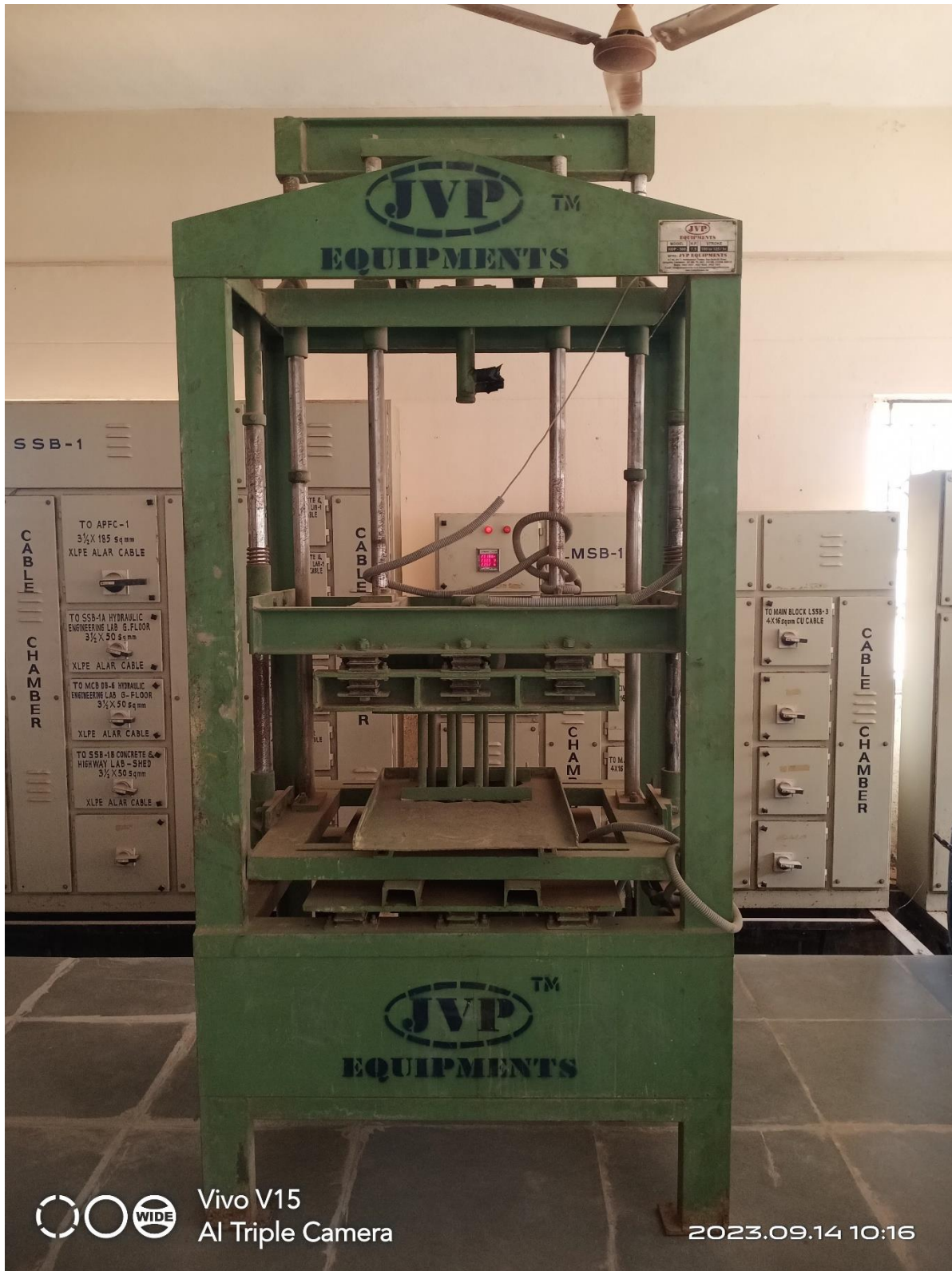
**Pan Mixer**



Vivo V15  
AI Triple Camera

2023.09.14 10:19

**Hydraulically Operated Concrete Block Making Machine**



Vivo V15  
AI Triple Camera

2023.09.14 10:16

**High Density Hydraulic Paving Block Machine**



Vivo V15  
AI Triple Camera

2023.09.14 10:10

**Tile Abrasion Testing Machine**



**Atomic Spectrometer**



**Structural Engineering Laboratory**



**Loading Frame**