

## RELATIVE DENSITY APPARATUS

### BE 02

The apparatus measures the relative density of cohesion less, free-draining soils, suitable for soils with up to 12% particles passing a No. 200 (75µm) sieve, which don't respond well to standard compaction tests. It uses vibratory compaction for maximum density and pouring for minimum density. The set includes a vibrating table.

### STANDARD FOLLOWING

ASTM D4253, D4254.

IS 2720 (Part 14)

### THE EQUIPMENT INCLUDES THE FOLLOWING PARTS

BE 02-01	VIBRATING TABLE	A steel table featuring a cushioned, vibrating steel platform, designed to operate at around 3,600 vibrations per minute when loaded with 115 kg. It is built to function on a 415 V, 50 Hz, three-phase AC power supply.
BE 02-01	Cylindrical Metal Unit Weight Mould	Cylindrical Mould of 3000 cm <sup>3</sup> capacity complete with guide sleeves and clamp, assembly surcharge weight with base plate and handle is equivalent to 140 gm/cm <sup>2</sup> .
BE 02-02	Cylindrical Metal Unit Weight Mould	Cylindrical Mould of 15000 cm <sup>3</sup> capacity complete with guide sleeves and clamp, assembly surcharge weight with base plate and handle is equivalent to 140 gm/cm <sup>2</sup> .
Be 02-03	Dial Gauge Holder	Dial Gauge holder
BE 02-04	Dial Gauge	Dial Gauge 0.01mm x 50mm with travel with extension piece
BE 02-05	Calibration bar	Calibration bar 75mm x 300mm x 3mm - 1 Set



## SPEEDY MOISTURE METER

### BE 03

The Speedy Moisture Meter is a device used to quickly measure the moisture content in materials like soil, sand, and other fine-grained substances with good accuracy, following standards IS:2720 (Part 2) and IS:12175. It works by mixing the sample with calcium carbide, which reacts with the water in the sample to produce acetylene gas. The amount of gas generated is proportional to the moisture present in the sample. This gas builds up pressure inside the device, which is measured by a built-in gauge. The gauge shows the moisture content as a percentage of the sample's wet weight. You can then use a formula to convert this reading to the moisture content based on the sample's dry weight.

### STANDARD FOLLOWING

IS 2729 (PART 2)

### ITS TWO TYPE EQUIPMENT

BE 03 -01	
Range	0-25%
Gauge Division	0.5%
BE 03 -02	
Range	0-50%
Gauge Division	1%



