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LABORATORY CALIFORNIA BEARING RATIO APPARATUS, MOTORISED AZA0912

The AZA0912 Laboratory California Bearing Ratio (CBR) Apparatus, Motorised from Azalab is a precision-engineered testing system designed for the accurate determination of CBR values of compacted and undisturbed soils. This parameter is fundamental in the design of flexible pavements for roads, highways, and airport runways.

Unlike manual systems, the AZA0912 incorporates a motorised loading mechanism that maintains a constant penetration rate, ensuring high repeatability, reduced operator influence, and full compliance with international testing standards.

Motorised Loading Frame

- Heavy-duty steel construction
- Electric motor with reduction gearbox
- Fixed penetration rate: 1.25 mm/min
- Power supply: 230V AC, 50 Hz, Single Phase
- Integrated limit switches for safety



Load Measurement System

- Proving ring capacity: 50 kN or 100 kN
- High-resolution dial gauge
- Supplied with calibration certificate

Penetration Measurement

- Dial gauge range: 25 mm
- Least count: 0.01 mm
- Supplied with rigid tripod stand



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TECHNICAL SPECIFICATION

Feature	Specification
Model	AZA0912
Product Type	Motorised Laboratory CBR Apparatus
Loading Capacity	50 kN / 100 kN
Penetration Speed	1.25 mm/min (fixed)
Penetration Piston	50 mm diameter, hardened steel
Penetration Measurement	Dial gauge, 25 mm travel, 0.01 mm LC
Load Measurement	Proving ring with dial gauge
Power Supply	230V AC, 50 Hz, Single Phase
Mould Size	150 mm dia × 175 mm height
Construction	Heavy-duty steel, corrosion-resistant
Origin	Made in India

Standard Accessories

- 50 mm hardened steel penetration piston
- CBR mould (150 mm dia × 175 mm height)
- Spacer disc
- Slotted surcharge weights (2.5 kg, 5 kg, 10 kg)
- Cutting collar and perforated base plate
- Swell plate (for soaked testing where required)

Standards Compliance

- IS 2720 (Part 16):1987 (Reaffirmed 2021)
- ASTM D1883
- BS 1377 (Part 4)