



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

BS 1377-4, BS 1924 - DIGITAL LABORATORY CBR APPARATUS - WITH ALL ACCESSORIES



Complies with following International Standards

BS 1377-4, BS 1924

Significance & Use

This test method is used to evaluate the potential strength of sub-grade, sub-base, and base course material, including recycled materials for use in road and airfield pavements. The CBR value obtained in this test forms an integral part of several flexible pavement design methods.

Salient Features

- Electronic Unit with Microprocessor based control and Digital Display.
- Comprises a twin column frame incorporating a motorized drive system.
- Electronic, Load Transducers and Displacement Transducers in conjunction with the EIE - Electronic Control and Readout Unit
(Software at extra cost - Refer to optional accessories)
- Two speed machine (1.0mm/min for BS standard and 1.27mm/min for ASTM Standard)
- Rapid platen adjustment
- Rapid adjustment of the platen is provided, which enables daylight to be taken up quickly and also close control of application of a seating load
- Compact bench-mounting aesthetical design

Supplied Complete with following accessories and parts

1. Load frame, Motorized **5000 Kg (50 KN) capacity, With two rate of travel (1.0 & 1.27mm/min)**
2. C.B.R. Mould, 152 mm diameter x 127 mm high with extension collar & perforated base plate. Made of Mild steel.
3. Penetration Piston, face diameter (49.63 $\pm$ 0.13) mm with adjustable bracket and not less than 4 inch (101.6 mm) long
4. Penetration dial gauge - **[1 inch travel (25 mm) x 0.0005 in (0.001 mm) divisions]**. Complete with rack extensions and chisel edge anvil.
5. Perforated base plate to fit with CBR Mould
6. Solid base/Top plate to fit with CBR Mould
7. C-Spanner to mount or unmount the collar from mould body - 02 Nos
8. Base tool to remove or mount the perforated base plate/solid base plate to the mould body
9. Metal tripod stand (Swell tripod) for dial gauges.
10. Displacer block, **(Compaction plug) (150 mm) x (50 mm) high**. Plated steel with detachable handle.
11. Annular metal weight, **2 kg, plated steel**.
12. Slotted metal weight, **2 kg, plated steel**
13. Rammer **4.5 kg having 50 mm diameter face, 450 mm fall**
14. Digital controller, load cell & LVDT for measuring penetration value
15. Filter paper - 150 mm dia - Box of 100
16. With Test / Calibration Certificate.

Salient Features of Digital Readout Facility

- Indication for penetration & load simultaneously.
- Digital display of load value at required penetration value as per ASTM Standard.
- No need to observe the dial gauge separately
- Facility to read rate of loading in mm/minute.
- Tare system to nullify initial load
- Penetration range 50.00 mm by linear potentiometer.
- Load range upto 5000 kg with load transducer.
- Penetration & corresponding load value highlights for 0.50, 1.00, 1.50, 2.00, 2.50, 3.00, 4.00, 5.00, 7.50, 10.00 and 12.50 mm penetration.
- The digital LCD display will retain the peak value until it is cleared.
- With start & stop button facility.
- Auto stop at 15.00 mm penetration.
- Panel cut out size : 92 x 188 mm
- Provision for tare & calibration for penetration & load.
- Provision for default calibration.
- Load cell can also be calibrated using standard reference

Click here for working video : <https://www.youtube.com/watch?v=hCWSTXztzSw>

Corporate Office:

A-1301, BVR Ek, Opp. Hotel Inder Residency,
Near Gujarat College, Ellisbridge,
Ahmedabad-380 006.
Phone : (079) 6621 1234
Website : www.eieinstruments.com

Calibration Laboratory:

Survey No. 1098, Nr. Mahakali Temple,
Opp. Primary School, Village Kubadthal,
Tal-Daskroi, Ahmedabad-382 433.
Phone: (079)-3520 8300
E-mail : info@eieinstruments.com

GST TIN No. : 24AABCE4018L1ZU
I.T. PAN No. : AABCE 4018L
IEC No. : 0813026598 Dt. 04/03/2014
CIN No. : U29199GJ2004PTC045078
TAN No. : AHME00572F