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Product Name :

Field CBR test set

Product Code :

SLE/CE/64



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Description :

Field CBR test set (Product Code: SLE/CE/64) is a portable mechanical jacking and load-measuring kit used to determine the California Bearing Ratio of soils in place on road construction sites. Highway engineers and civil engineering colleges use its 50 kN mechanical jack and 40 kN load ring in the field, or assemble the frame in the laboratory as a hand-operated CBR machine. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM laboratory equipment manufacturer in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Test locations	In-situ on site, or in the laboratory when the frame is assembled with the main components as a hand-operated CBR machine
Field application	Used with a vehicle bracket for in-situ bearing capacity of soils used in road construction
Mechanical jack	50 kN capacity
Load ring	40 kN capacity
Slotted surcharges	One 9 kg and one 4.5 kg
Penetration piston	Adjustable CBR penetration piston
Penetration dial gauge	30 x 0.01 mm, with adjustable dial gauge holder
Extension rods	Set of 3 extension rods with adapters
Datum bar assembly	Two tripod stands and a 1220 mm long aluminium bar
Spare parts	Every component can be purchased individually as a spare
Product code	SLE/CE/64
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Field CBR Test Set Used For?

On site, a loaded vehicle gives the reaction: the mechanical jack is fixed beneath it through the vehicle bracket, and the extension rods carry the force down to the penetration piston resting on the prepared subgrade. Slotted surcharge weights placed around the piston stand in for the pavement layers above, the jack is turned steadily, and the load ring shows the force while the dial gauge on the aluminium datum bar records penetration.

Testing in place avoids disturbing the soil and shows how the subgrade actually behaves at its natural moisture and density, which helps engineers confirm a pavement design. Colleges can move the same parts indoors and build a hand-operated laboratory CBR machine, so one purchase of engineering lab equipment in India covers both site and classroom work. Level the tripod

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