

PLATE LOAD TEST

BE 24

A Plate Load Test Apparatus this test is carried out to determine the bearing capacity of the ground on Road Structures, Road foundations, Road Infrastructures, Bridge, Airport and Highway Pavements. The plate bearing test is essentially a model test of foundations which projects the stress and strain characteristics for evaluating the ultimate bearing capacity of foundations. This technique is a standard one for estimating the bearing value of soil in-situ. The results of other methods are always compared with the values obtained by the plate load test. In this method, a steel plate of a certain dimension is subjected to gradually increasing loads and the corresponding settlement is noted. The ultimate bearing capacity is taken as the load at which the plate starts sinking continuously at a rapid rate.

STANDARD FOLLOWING

IS 1888-1982, ASTM D1194, ASTM D1195

DESCRIPTION

BE 24-01	Hand Operated Hydraulic Jack	Capacity 500 kN (50,000 kgf)
BE 24-02	Hydraulic Hand Operated Pump	with 200 mm Dia Load Gauge capacity 500 kN (50,000 kgf)

BE 24-03	High Pressure Flexible Metallic Hose	5 m long
BE 24-04	Ball and Socket Arrangement	consisting of two steel plates, with one steel ball in-between the plates
BE 24-05	Extension Rod	12 mm dia x 25 cm long, for taking Dial Gauge readings
BE 24-06	Magnetic base	with female thread on top, for holding extension rod
BE 24-07	Top End Plate	50 mm dia with male thread, for fitting on to the Extension Rods and positioning the Dial Gauge Plunger
BE 24-08	Column	15 cm dia x 25 cm long, with flanges, complete with four bolts and nuts
BE 24-09	Column	15 cm dia x 50 cm long, with flanges, complete with four bolts and nuts
BE 24-10	BE 15708 Datum Bar	light weight, portable, total span 5 m,height approx. 30 cm, mounted on two removable legs. (It is made in two parts. Provision exists for Datum Bar of 2.5 m span to be used. A spare leg is provided for the purpose. Complete with two quick release clamps for Positioning and holding the dial gauge brackets)
BE 24-11	Dial Gauge	25 mm travel, 0.01 mm least count Four
BE 24-12	Anchor Spike	for plate bearing test apparatus
BE 24-13	Quick Release Clamp	for positioning dial gauge bracket
BE 24-14	Grooved MS Plate	30 cm x 30 cm square x 25 mm thick
BE 24-15	Grooved MS Plate	45 cm x 45 cm square x 25 mm thick
BE 24-16	Grooved MS Plate	60 cm x 60 cm square x 25 mm thick
BE 24-17	Grooved MS Plate	75 cm x 75 cm square x 25 mm thick
BE 24-18	Plain MS Plate	30 cm x 30 cm square x 25 mm thick
BE 24-19	Plain MS Plate	45 cm x 45 cm square x 25 mm thick
BE 24-20	Plain MS Plate	60 cm x 60 cm square x 25 mm thick
BE 24-21	Plain MS Plate,	75 cm x 75 cm square x 25 mm thick

BALAJI ENTERPRISES

