

In-Situ Vane Shear Test Apparatus

Make: LabTek

Model: SUN-SL-034

Origin: India

Standards: IS 4434-1967

The apparatus is designed for conducting in situ vane shear test from bottom of a bore hole in saturated cohesive deposits for determining their in place shearing resistance.

The equipment consists of a torque applicator assembly mounted on a base, a gear wheel, which is marked in degrees, holds a torque ring and is geared to a crank, the torque ring is a split ring & deforms as torque is applied & the deformation is indicated by a dial gauge. A calibration chart to convert dial gauge readings to torque force in kgs/cm² is supplied. A pointer is provided.

For registering the rotations of the vane, a detachable stand is provided to anchor the instrument an attachment to securely hold the string of rods is provided the equipments comprises of the following :

Torque applicator assembly capacity 2000kg/cm² with split proving ring & dial gauge 0.002 x 5mm complete with stand.

Vane (with vane rod) 37.5mm dia x 75mm high : 1 no.

Vane (with vane rod) 50.0mm dia x 100mm high : 1 no.

Torque rod (square cross section) 0.6mts long : 1 no.

Rods quick couplind type, 1 mtr. long : 1 no.

Rods quick coupling type, 1 ½ mtr. long : 1 no.

Dummy rod, corresponding to 37.5mm dia vane : 1 no.

Dummy rod , corresponding to 50.0mm dia vane : 1 no.



Laboratory Vane Shear Apparatus (Motorised)

Make: LabTek

Model: SUN-SL-035

Origin: India

Standards: IS 4434-1967

Consists of a torque head adjustable in height by means of a lead screw rotated by a drive wheel to enable the vane to be lowered into the specimen. Rotation of the vane is by means of an electrically operated rate of rotating is 1/60 R.P.M. Suitable for operation on 230 V A.C. Single Phase which operates a worm gear arrangement turning the upper end of a calibration torsion spring, vane dia, rod dia, vane size & vane height are as per IS specifications.

The vane shaft is attached through the hollow upper shaft to a resettable pointer, which indicates the angle indicates the angle of torque on a dial graduated in degree the dial reading multiplied by spring factor gives the torque a container for soil sample is also supplied & a sampling tube of 38mm. i.d. & 150mm long can also be used as container . Supplied with set of four springs, one each of approx. 2 kgs/cm², 4kgs/cm², 6 kgs/cm² & 8kgs/cm² complete as above in a wooden carrying case.



Water Level Indicator

Make: LabTek

Model: SUN-SL-036

Origin: India

L 3025A Water level indicator 50 m cable length

SL 3025B Water level indicator 100 m cable length

SL 3025C Water level indicator 150 m cable length

SL 3025D Water level indicator 200 m cable length

The water level indicators (electric contact meters) are portable, easy-to-use and reliable instruments for measuring water level and total depth in bore holes, wells, observation pipes, reservoirs, as well as control of pumping tests. As soon as the measuring probe electrode touches the water surface, the signal indicator on the instrument lights up with an audible alarm. The water level can be read on the measuring tape in meters (m) and centimeters (cm).

