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In-Situ Vane Shear Test ZI 3078

Standards: IS 4434-1967

Specification:

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/cm^2 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/cm^2 with split proving ring

& dial gauge $0.002 \times 5\text{mm}$ complete with stand.

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

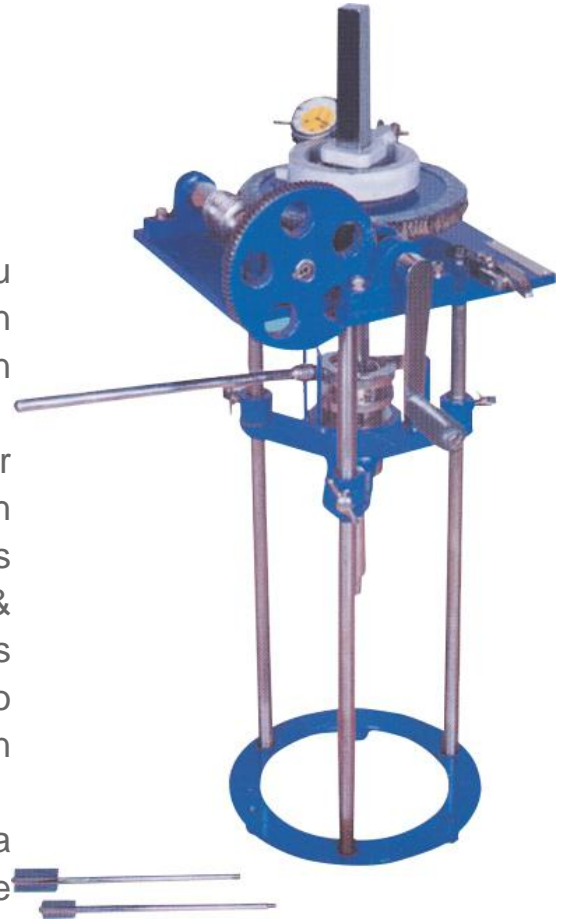
Vane (with vane rod) 50.0mm dia x 100mm high : 1 no.

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

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

Rods quick coupling type, $1 \frac{1}{2}\text{ mtr.}$ long : 1 no.

Dummy rod, corresponding to 37.5mm dia vane : 1



no.

Dummy rod , corresponding to 50.0mm dia vane :

1 no.