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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  $\text{kgs/cm}^2$  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  $2000\text{kg/cm}^2$  with split proving ring

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

Vane ( with vane rod )  $37.5\text{mm}$  dia x  $75\text{mm}$  high : 1 no.

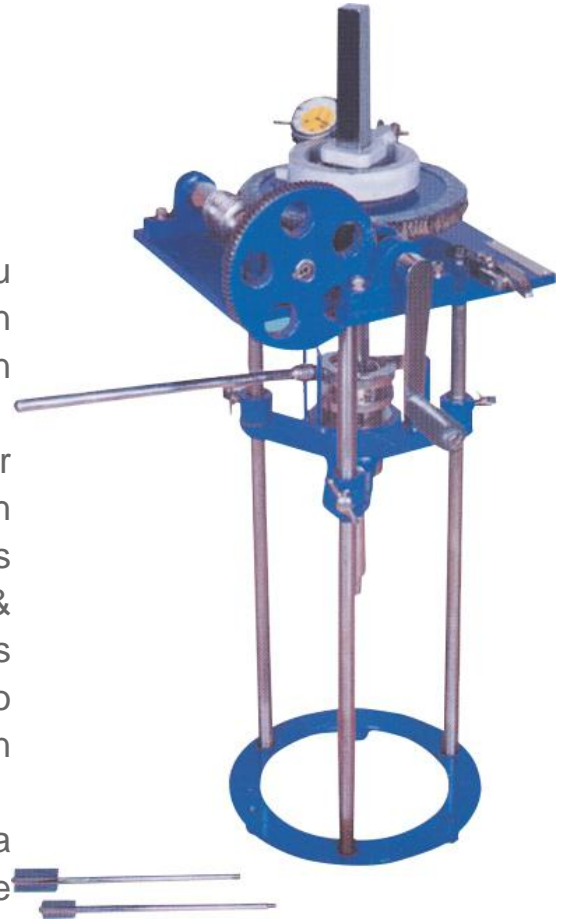
Vane ( with vane rod )  $50.0\text{mm}$  dia x  $100\text{mm}$  high : 1 no.

Torque rod ( square cross section)  $0.6\text{mts}$  long : 1 no.

Rods quick couplind type,  $1\text{ mtr.}$  long : 1 no.

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

Dummy rod, corresponding to  $37.5\text{mm}$  dia vane : 1



no.

Dummy rod , corresponding to 50.0mm dia vane :

1 no.