

# SOIL MECHANICS LAB PROCTOR COMPACTION TEST APPARATUS

## SOIL MECHANICS LABORATORY

1. LIQUID LIMIT DEVICE
2. SHRINKAGE LIMIT DEVICE
3. PLASTIC LIMIT DEVICE
4. CONSOLIDATION TEST APPARATUS
5. TRIAXIAL CELL
6. DIRECT SHEAR APPARATUS



### *Introduction:*

#### **\* 1000 cc:**

It will be made of Mild steel having capacity of 1000 cc with an internal diameter of  $100 + 0.1$  mm and an internal effective height of  $127.3$  cm +  $0.1$  mm. The mould will be fitted with a detachable base plate and removable extension collar approximately 60 mm high. The internal surface of the mould will be smooth.

#### **\* Light Rammer:**

2.6 Kg x 310 mm fall. A metal chrome plated rammer having 50 mm dia. Circular and weighing 2.6 kg. The rammer will be equipped with a suitable arrangement for controlling the drop to the specified height of 310 mm.

#### **\* 2250 cc:**

It will be made of Mild steel having capacity of 2250 c.c with an internal diameter of  $150 + 0.1$  mm and an internal effective height of  $127.3$  cm +  $0.1$  mm. The mould will be fitted with a detachable base plate and removable extension collar approximately 60 mm high. The internal surface of the mould will be smooth.

#### **\* Heavy rammer:**

4.89 Kg x 450 mm fall. A metal chrome plated rammer having 50 mm dia. Circular and weighing 4.89kg. The rammer will be equipped with a suitable arrangement for controlling the drop to the specified height of 450 mm.



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