

### **BTN-03 STANDARD PENETROMETER**



#### **TECHNICAL DESCRIPTION:**

Used to determine grade of bitumen. The penetration tests determine consistency of bitumen for the purpose of grading. Depth in units 1/10 of millimeter to which a standard needle having a standard weight will penetrate vertically in a duration of five seconds at a temperature of 25° determines penetration for gradation.

It consists of a vertical pillar mounted on a base provided with leveling screws. The head, together with dial plunger rod a cone (or needle) slides on a pillar and can be clamped at any desired height. A rack and pinion and pointer assemble provides fine adjustment of needle or cone tip to sample. It incorporates a clutch mechanism. Which makes reading of penetration and subsequent resetting a simple and accurate operation

#### **DIMENSIONS AND WEIGHT :**

Size :0.3 m.(L)x 0.3 m(W) X 0.5m ( H )

Weight :Approx. 5 Kg

#### **SERVICE REQUIRED :**

#### **SCOPE OF DELIVERY:**

1. Experimental Setup
2. Instructional Manual