



THE LAB EQUIPMENT

Email : [sales@thelabequipment.com](mailto:sales@thelabequipment.com)

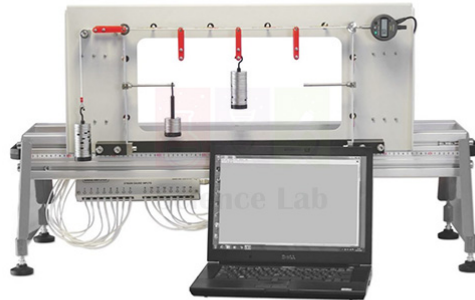
Phone: +91-8759245890

**Product Name :**

Bending Moments In A Portal Frame

**Product Code :**

SLE/EG/07



## Description :

- A precision indicator measures any horizontal deflection (sway) due to the load.
- They may also add loads to moment arms on the vertical members of the frame.
- These simulate the effect of internal and external cantilever floors of a structure.
- This product includes a Vernier caliper for accurate measurement of cross-section.
- Students add vertical or horizontal or combinational loads to a portal frame held between two fixing blocks.
- The strain gauges connect to a strain gauge amplifier which connects to the USB interface hub of the Structures platform for computer display and data acquisition.
- Students use textbook analysis methods to predict the bending moments at key positions, along with the sway magnitude.
- Strain gauges at key points around the portal measure the strains and in turn the bending moment due to the loads.
- The positions of the strain gauges and resulting measured bending moments allow students to plot bending moment diagrams for the frame for different loading conditions, allowing comparison to calculated results.

Contact Science Lab for your Educational School Science Lab Equipments. We are best engineering educational equipments, high school science lab equipment manufacturers, lab equipment exporters, lab equipments manufactruers, lab instruments manufactruers, mathematics lab equipments manufacturers.

**Website:** <https://thelabequipment.com>, **Email:** [sales@thelabequipment.com](mailto:sales@thelabequipment.com)

plot. no.296. Sector 5. Vaishali. Ghaziabad. Uttar Pradesh 201010