



**A panoramic view of Vaiseshika Calibration Laboratory**

Calibration Standards are manufactured at Vaiseshika Electron Devices with the active support of in-house calibration standards. We maintain calibration protocol in our laboratory traceable to NPL and as per NABL guidelines. We adhere to 1:4 ratio between the test unit and the calibration standard. Following calibration standards are maintained in our company to provide you state-of-the-art resistance calibration standards.

### **TINSLEY STABAUMATIC POTENTIOMETER**

This instrument is manufactured by H. Tinsley & Co. Ltd., Croydon, UK. The instrument is having four ranges for measuring voltages from 2 volt in steps of 1 microvolt on the highest range to 2 millivolt in steps of 1 nanovolt on the lowest range, thereby providing an accuracy of 0.001% to the measuring system. The resistance bridge is having a measurement range from 0.01 ohm to 21 Megohm having limit of error of 0.005% on the lowest range.

The Potentiometer employs two standard cells and one current controller duly assisted by Galvanometer Amplifier to provide very accurate null detection and precision measurement of resistance/voltage values.

The instrument is calibrated against the calibration standards maintained at the Electronics Regional Test Laboratory, Government of India, New Delhi having traceability to the National Physical Laboratory, New Delhi.

|                  |  |          |           |
|------------------|--|----------|-----------|
| Resistance Range | : 0 to 10 Megohm                           | Accuracy | : ±0.005% |
| Voltage          | : 0 to 2 Volts                             | Accuracy | : ±0.003% |
| Traceability     | : National Physical Laboratory, New Delhi. |          |           |



**Stabaumatic Potentiometer Test Bench in Vaiseshika Calibration Laboratory**



### **TINSLEY PRECISION NON-INDUCTIVE STANDARD RESISTORS**

Tinsley Standard Resistors ranging from 0.0001 ohm to 10 megohm have been maintained in our laboratory to support the calibration sanctity. The 0.0001 ohm resistance is a motorized resistance and is having an accuracy of 0.05%. The other standard resistors are Wilkins four terminal standard resistors designed by F.J. Wilkins of the National Physical Laboratory, Teddington, Middlesex, England and are accompanied by NAMAS Calibration Standards.

|                     |  |
|---------------------|--|
| Resistance Range    | : 0.0001 Ohm to 10 Mohm                    |
| Calibrated Accuracy | : ±0.002% to 1%                            |
| Traceability        | : National Physical Laboratory, New Delhi. |