

In the recent years Vaiseshika Electron Devices has concentrated on research and development and has focussed on indigenization and production of High-Value Addition Instruments. Vaiseshika has manufactured sophisticated electronics and scientific instruments in technical collaboration with the National Research Laboratory of the Council of Scientific and Industrial Research namely the Central Scientific Instruments Organization, Chandigarh and through Vaiseshika's own engineering capabilities. Here is a glimpse :



Micro-hardness Tester

**Micro hardness Tester** has been manufactured for the First-Time -in- India having measurement range from 85 Vickers to 850 Vickers. This Micro-hardness Tester is an import substitute and is available to the Indian Industry at 25% cost of a similar instrument available from an overseas manufacturer.

**Digital Cereal /Grain Analyser** is computer-based Data Acquisition System to determine the percentage constituents of oil/fats, protein and moisture in oil and grain seeds. The instrument has been developed under the Technology Modernization Programme for the Oil and Pulses Industry at CSIO, Chandigarh.

This is an import substitute and is available to the Indian farmer and oil and pulses refineries in India at 50 % cost of a similar overseas instrument.



Digital Cereal /Grain Analyser



Megohm Resistance Standard Simulator

Vaiseshika undertook the installation and commissioning of 50KN **Morehouse Dead Weight Calibrator**, manufactured by the Morehouse Instrument Co., York, Pennsylvania, USA **at the National Physical Laboratory, New Delhi. This is now a Primary National Standards Facility in India to calibrate Load Cells and Proving Rings with an uncertainty of 30ppm .**



Mr. Sunil Kumar, Quality Assurance Manager, Vaiseshika Electron Devices, Ambala Cantt. is busy with the final test and trial run of 50-KN Morehouse Dead Weight Load Cell Calibrator at the National Physical Laboratory, New Delhi

Vaiseshika has designed and manufactured a High Stability **Megohm Resistance Standard Simulator** upto the value of 1000 Gigaohm at an accuracy of  $\pm 5\%$ . The Simulator can withstand 5000 Volt DC and is having versatile applications for the calibrations of Insulation Testers, Meggers and High Voltage Breakdown Testers. This instrument has been designed For-the-First-Time in India by an Indian Company.

Vaiseshika has manufactured **Digital Iodine Value Meter and Digital Oil Spectrophotometer** to determine the Iodine Value Number in Edible Oils and to determine the contaminations of iron, copper, nickel and phosphorus in samples of edible oils.

These instruments are import substitutes and are available to the Indian farmer and edible oil industry at 25% cost of a similar imported instrument from any other overseas manufacturer.



Digital Iodine Value Meter



Digital Oil Spectrophotometer