



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

DEPARTMENT OF MECHANICAL ENGINEERING

INSTRUMENTATION AND CONTROL SYSTEMS LABORATORY

Instrumentation is the development or use of measuring instruments for observation, monitoring or control. An instrument is a device that measures a physical quantity, such as flow, temperature, level, distance, angle, or pressure. Instruments may be as simple as direct reading hand-held thermometers or as complex as multivariable process analyzers. Although instrumentation is often used to measure and control process variables within a laboratory or manufacturing area, it can be found in the household as well. The students are also conduct experiments on rotating machines to find out the vibration spectra.

List of Equipment

S. No	Item	Make	No. of Units	Cost per Unit (Rs.)	Total Cost (Rs.)
1	Vibrometer	Kosha	1	1,03,465	1,03,465
2	Mcleod pressure gauge	Metsonic Engineers	1	99,100	99,100
3	Calibration of pressure gauge	Metsonic Engineers	1	61,200	61,200
4	Calibration of photo magnetic pickups	Metsonic Engineers	1	23,364	23,364
5	Calibration of transducer for temperature measurement	Metsonic Engineers	1	14,800	14,800
6	Calibration of thermo couple	Metsonic Engineers	1	12,900	12,900
7	Calibration of capacity transducer	Metsonic Engineers	1	12,900	12,900
8	Calibration of RTD	Metsonic Engineers	1	12,900	12,900
9	Calibration of LVDT	Metsonic Engineers	1	12,900	12,900
10	Calibration of rotameter for flow measurement	Metsonic Engineers	1	12,900	12,900
11	Calibration of strain gauge	Industrial Equipment's India	1	10,413	10,413
Total Cost (Rs.)					3,76,842
<i>(In words: Rupees three Lakhs seventy six thousand eight hundred and forty two only)</i>					

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