



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)
Dundigal, Hyderabad-500043

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ELECTRICAL MEASUREMENTS AND INSTRUMENTATION LABORATORY

This laboratory provides all hardware and software required to measure the characteristics of various electrical components.

S.No	Item	Make	Quantity	Cost per unit(Rs.)	Total cost (Rs.)
1	Desktop computer systems, Intel i3-4150core processor, 4 GB RAM, 500 GB hard disk	Dell Vostro 3902	03	21,154	63,462
2	Lab VIEW system design software	Tech fluent Solutions Pvt. ltd	03	19,774	59,322
3	Capacitance trainer module UITM - 18; Vibration generator, 5 N, power amplifier:0~10VP-Pvariable,vibrationsensor,4½ digit LCD display	Future Tech Instruments Pvt.Ltd	01	29,920	29,920
4	Temperature measurement trainer kit 1-2.5A,115-230V,4analog inputs	Future Tech Instruments Pvt.Ltd	01	24,640	24,640
5	Encoder strainer module Built-in power supply:+5VDC Fixedclocks:upto100KHz,20pin,switches:8	Future Tech Instruments Pvt.Ltd	01	23,320	23,320
6	Current Transformer Ratedburden5.00VA,3KV	Physitech Power Systems Pvt.Ltd	02	23,076	23,076
7	Speed measurement trainer module Speed range:upto1400rpm,magnetic pickup	Future Tech Instruments Pvt.Ltd	01	21,560	21,560
8	MATLAB 9.0	Math Works, USA	03	6,284	18,852
9	Energy meter currentrating:5-30A,10-60A;240V	Physitech Power Systems Pvt.Ltd	01	16,350	16,350
10	Pressure measurement Model:UITM-18;5N,poweramplifier:0~10VP-P, 50 to 1000 Hz; Sensor accelerometer, 4½ digit LCD	Future Tech Instruments Pvt.Ltd	01	14,520	14,520
11	Transformer turns ratio Ratorange:1-200.0/1-2000.0	Physitech Power Systems Pvt.Ltd	01	10,800	10,800
12	LVDT trainer kit 31/2 digit LED display with polarity indicator, displacement measurement jig with micrometer.	Future Tech Instruments Pvt.Ltd	01	10,000	10,000
13	Kelvin's double bridge trainer kit	S.S Lab Equipments	01	10,000	10,000
14	Three phase netmeter,3phase,50Hz,440V	S.P. Electricals	01	7,459	7,459
15	Schering bridge kit ±12V DC at 100mA,1KHz sine wave oscillator	S.S Lab Equipments	01	6,100	6,100
16	Anderson's bridge kit Built in DC power supply, headphone ,patch cords	S.S Lab Equipments	01	6,100	6,100
Three lakhs forty five thousand four eighty one.					3,45,481

Date:

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