INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

Electronics and Communication Engineering

Laboratory Equipment - Sensors, Instrumentation and Cyber Physical System Engineering Research Laboratory

This laboratory provides all hardware and software required to learn system-design platform and development environment for a visual programming language using LabView. The configuration of hardware and software used are detaild as follows:

1. **Server Configuration:** Dell VOSTRO 3902, Form Factor: 2U Rack Server, Processor Series: Intel® Xeon® 4150 Product Family, Processor Sockets: 2, Max Memory Capacity: 4GB DDR3, Max Storage Capacity: 160TB HDD, Supports Intel C610 series chipset, Supported Power Supplies: 495W, 750W, 1100W.

2. **Operating System:** Microsoft – Microsoft – Windows 11 &amp.

3. **Connectivity:** 1000Mbps internet and LAN connected to campus server.

4. **Laboratory Equipment:**

S.No	Item	Make	Quantity	Cost per Unit (Rs.)	Total Cost (Rs.)
1	NI LabVIEW myDAQ hardware kits	National Instruments	11	5,6525	6,21,775
2	NI LabVIEW myRIO hardware kits	National Instruments	11	5,6525	6,21,775
3	NI LabVIEW USRP 2901 hardware kits	National Instruments	02	5,6525	1,13,050
4	PCB proto typing machine	MITS Electronics	01	11,39,400	11,39,400
5	**Desktop Computer Systems:** Vostro 3250 desktop Intel core-i3-6100 processor / 4GB DDR4 -500 GB SATA HDD / keyboard and mouse / NO ODD / 22"Monitor	DELL	36	23,600	8,49,600
6	**Application software:** NI Lab VIEW academy software	National Instruments	36 Users	8,96,815	8,96,815
				Total Cost (Rs.)	**14,19,454**
	In Words- Rupees forty two lakh forty two thousand four hundred and fifteen only				

Date: **HOD**