INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)
Dundigal, Hyderabad - 500 043

COMPUTER SCIENCE AND ENGINEERING

Laboratory Equipment - Big Data and Business Analytics

This laboratory provides all hardware and software required to learn Linux commands and develop shell programming on process management and communication, memory management and file systems automation. The configuration of hardware and software used details are as follows:

1. **Server Configuration:** HP Proliant ML10, Form Factor: Micro ATX Tower (4U), Processor Series: Xeon E1220 V2 Product Family, Processor Sockets: 2, Max Memory Capacity: 8 GB DDR4, Max Storage Capacity: 1 TB HDD, Supports Intel C204 series chipset, Supported Power Supplies: 300W.
2. **Operating System:** Microsoft – Windows 11 / Linux – UBUNTU.
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	Desktop Computer Systems: Vostro 3902 / Intel core i3-4150@3.50 GHz / 4 GB DDR3 RAM / 500GB SATA HDD /Keyboard/Mouse/18.5" Monitor	Dell	36	24,500	8,82,000
2	Linux Server (Hadoop setup): OPTIPLEX 3070 Intel Core i5-9500 3.60Ghz / 4GB DDR4 – 2600Mhz / 1TB HDD	Dell	3	Sharing	–
3	Cloud Computing Environment (Open Source)- VMWare 2.0	Dell EMC			–
4	Distributed Environment (Open Source) - Apache Hadoop 2	Apache	36		–
5	Modular Computer Workstations		36	3,200	1,15,200
6	Computer Chairs		36	900	32,400
7	Single I/O Outlets	D-Link	36	140	5,040
8	LCD Projector with 1 Screen and One Mount Kit	EPSON	01	32,000	32,000
9	Air Conditioner (1.5 ton)	Panasonic	02	32,500	65,000
10	UPS - 20 KVA Capacity	Access	01	Sharing	-
				Total Cost	**10,99,640**
	(In Words Rupees - Ten lakhs ninety nine thousand six hundred forty only)				

Date:

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Computer Science and Engineering