



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal - 500 043, Hyderabad, Telangana

ELECTRICAL AND ELECTRONICS ENGINEERING

LABORATORY DETAILS OF EQUIPMENT AND SOFTWARE

S No	Name of the Laboratory	Details		Invoice No.	Cost (Rs)
1	Programmable Logic Controllers Laboratory	Equipment	DELTA PLC Units – 10 i) DVP 14SS2 ii) DVP 16 SP iii) DVP06XA-S iv) DELTA HMI - 7" v) VFD 0.5 HP DELTA DiaVIEW SCADA Software (64 tags)	HR/1101286 31-08-2017	6,95,510
2	High Voltage Engineering and	Equipment	100 kV, 50mA cascaded testing transformer	025 06-09-2016	2,35,000
		Equipment	100 mm sphere gap assembly with water resistor and micrometer scale 100 kV, 50mA cascaded testing transformer with rod gap and uniform, non-uniform electrodes	025 06-09-2016	1,51,400
3	Power Systems and Protection Lab	Equipment	Three Phase Generator protection simulation unit with various protection relays	P SO – 0022 26-07-2016	3,97,000
			Fault analysis of 3-phase Alternator	P SO – 0022 26-07-2016	2,29,500
			IDMT Over Current Relay, Microprocessor based over current relay, Horn Gap, Earth Megger, Milli Volt Drop Test (50A)	P SO – 0022 26-07-2016	2,37,069
			Transmission line simulation unit	P SO – 0022 26-07-2016	3,69,000
			Radial feeder protection simulation unit with different numerical relays	P SO – 0023 26-07-2016	3,88,100
			Single phase Transformer Protection by Merz price	GINV – 11 21-12-2017	2,92,000
			String Efficiency a) 11 KV DSC Insulator String(5Discs) b) Efficiency Jig c) 100kv capacitance Divider with Meter	GINV – 11 21-12-2017	1,05,700
4	Internet of Things (IoT) Lab	Equipment	I. Arduino UNO II. Raspberry pi 3 model B III. Ethernet Shield IV. Media Tek – Linkit ONE,	SB – MAT - 00018 12-09-2016	2,67,500

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			V. Raspberry Pi camera module VI. Humidity Sensor Module (DHT11) VII. PIR Motion Sensor (HC-SR501) VIII. Ultrasonic Sensor (HC-SR04) IX. Micro Servo Motor, X. Sensor Kit – 37, XI. RGB LED's		
5	Electrical Simulation Lab		PSCAD (Power System Computer Aided Design)	0278 26-08-2015	4,48,125
		Software	I. MATLAB 50 Users II. Signal Processing Toolbox 15 Users III. Control Systems Toolbox 15 Users IV. SIMULINK, Sim power Systems 15 Users V. Symbolic Math Toolbox 15 Users VI. Image processing 10 user VII. Simscape tool 10 users	BLR 1516/1002046 24-07-2015	24,86,239
			NI-Academic Site license – LABVIEW core license software (30 users)	17 06-07-2016	8,96,815
			NI LabVIEW Graphical System Design Software-30 users Up Gradation	PI-007 30-06-2018	12,00,000
		Equipment	NI myDAQ hardware bundle (11 Units) NI myRIO hardware bundle (11 Units) NI USRP 2901 bundle with required accessories and cables	17 06-07-2016	18,65,325
6	Solar Laboratory	Equipment	Solar PV Training and Research System	ASES – 16-0001 17-10-2016	2,52,225



Kuprannu

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