



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)
Dundigal, Hyderabad - 500 043

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

POWER ELECTRONICS LABORATORY

S No	Item	Make	Quantity	Cost per unit (Rs.)	Total cost (Rs.)
1	R and RC firing unit - 230V, 2A, 50 Hz	SS Lab Equipments	01	935	935
2	UJT firing unit - 230V, 2A, 50Hz	SS Lab Equipments	01	1,622	1,622
3	Single phase AC voltage controller 230V / (30V-0 - 30V), 2A	SS Lab Equipments	01	4,950	4,950
4	Single phase full bridge converter - 30V/ (0 -15V) DC	SS Lab Equipments	01	9,652	9,652
5	Forced commutation circuits - 230V, 2A, 50Hz	SS Lab Equipments	01	7,700	7,700
6	Single phase cycloconverter 230V / (30V - 0 - 30V, 2A)	SS Lab Equipments	01	14,190	14,190
7	Single phase Series Inverter (0-15V DC/0-15AC)	SS Lab Equipments	01	7,535	7,535
8	Single phase Parallel Inverter (0-15V DC/0-15AC)	SS Lab Equipments	01	8,305	8,305
9	Single phase Semi Converter drive (30V/0-15VDC)	Powertronics	01	69,500	69,500
10	Four quadrant Chopper drive (0-15VDC, 0.5HP)	Powertronics	01	38,500	38,500
11	Synchronous motor drive (415V/ 0-415V, 50Hz)	Techno systems	01	50,600	50,600
12	Induction motor drive (230V/ 230V-0-230V, 50Hz)	SS Lab Equipments	01	10,450	10,450
13	Thyristorized drive for PMDC motor (230V / 0-15V DC, 0.5 HP)	Powertronics	01	28,000	28,000
14	Single phase isolation transformer with tapings (230V/ 0-30V, 60V, 90V, 120V, 150V, 180V)	SS Lab Equipments	03	5,500	16,500
15	Single phase midpoint transformer 230V / (230V - 0 - 230V)	SS Lab Equipments	01	7,205	7,205
16	Inductive load (0 - 50 - 100 - 150 mH / 5A)	SS Lab Equipments	03	3,025	9,075
17	Inductive load (0 - 50 - 100 - 150 mH / 2A)	SS Lab Equipments	02	935	1,870
18	Desktop computer systems, Intel i3 - 4150 core processor, 4 GB RAM, 500 GB hard disk	Dell vostro 3902	03	21,154	63,462
19	MATLAB 9.0	MathWorks, USA	03	6,284	18,852
Total cost					3,68,903
In words - rupees three lakhs sixty-eight thousand nine hundred and three only					

Date: 07 April, 2022

PRINCIPAL