

**DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

ELECTRICAL MEASUREMENTS & INSTRUMENTATION LAB

Electrical Measurements Lab

LIST OF EQUIPMENT

S.No	Name of Equipment	Unit Price	Quantity	Cost
1	Resistance for kelvin Double Bridge 0.1 ohms, 5A and 1 ohms, 3 A	1280	2	2560
2	Choke coil 11mH 10A	9904	1	9904
3	Power factor meter (10/20)A, 150/300/600	2975	1	2975
4	5kVA Servo stabilizer	4000	1	4000
5	3ph variable inductor 440V 10A	9303	1	9303
6	1 ph energy meter	34800	1	34800
7	Crompton DC Potentio meter	1440	1	1440
8	Electronic standard cell of 1.018V	5952	1	5952
9	Voltage ratio BOX extended the range from 0.00to 300V	928	1	928
10	Galvanometer with desk stand	3720	1	3720
11	Portable kelvin double bridge	400	1	400
12	Choke coil 11mH 10A	6576	1	6576
13	Schering Bridge with accessories	6824	1	6824
14	Anderson bridge for self inductance with accessories	6704	1	6704
15	Fixed inductive load	4480	1	4480
16	Capacitive load variable 3 ph	19336	1	19336
17	Stop watch digital	1440	1	1440
18	LVDT Module	9904	1	9904
19	Wheat stone Bridge	6200	1	6200
20	Transformer oil test kit	23520	1	23520

21	1-Ph Auto transformer(0-270)V,20A	8429	1	8429
22	1-Ph Auto transformer(0-270)V,20A	9008	1	9008
Total Cost				178403

LIST OF EXPERIMENTS

S No	Name of the Experiment
1	Calibration of dynamometer wattmeter using phantom loading
2	Calibration of LPF wattmeter by direct loading
3	Determination of the characteristics of LVDT
4	Calibration of single phase energy meter
5	Calibration of DC Ammeter and Voltmeter using Crompton DC potentiometer
6	Measurement of Resistance using Kelvin's double bridge
7	Measurement of Capacitance using Schering bridge
8	Measurement of Inductance using Anderson bridge
9	Measurement of single-phase power using three voltmeter and three Ammeter method
10	Discriminate the breakdown strength of oil using H.T. testing Kit

Signature of Lab Incharge

Signature of HOD