



# D.N.R. COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

(Accredited with A<sup>++</sup> Grade by NAAC)

Balusumudi, BHIMAVARAM – 534 202. W.G. Dist., (A.P.)



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## ELECTRICAL MACHINES LAB

### List of Equipment

As on 31<sup>th</sup> Oct 2023

S. No	Name	Make	Date	Unit Cost	Quantity	Total Cost in Rs.
1	DC Rectifier 220V/100A	I.T. L	2-7-2011	1,30,000-00	1	1,30,000-00
2	Lab Machines Control Panels	SRI SRR	2-7-2011	73,500-00	1	73,500-00
3	Machine panel steel structure and table panels	SRI SRR	2-11-2011	6300-00	7	44100
4	Machine panels	SRI SRR	10/11/2011	5250-00	5	26250-00
5	Alternator Panel	SRI SRR	10/11/2011	8400-00	1	8400-00
6	Machine panels and tables	SRI SRR	25/3/2012	12075-00	6	72450-00
7	Motor Panel (Brake Test)	SRI SRR	10/11/2011	6300-00	1	6300-00
8	5HP,220V,1500RP M, DC Shunt motor coupled to 3KW,220v,1500rpm, DC Shunt generator	BENN	2-7-2011	59258-00	1	59258-00
9	3-Point Starter,3HP,220DC	SRI SRR	28-6-2011	2633-00	5	13,165-00
10	3-Point Starter	SRI SRR	5-5-2012	2415-00	1	2415-00
11	Digital Tacho meter	SYSTEMS	28-6-2011	2290-00	3	2290-00
12	Digital Tacho meter	SYSTEMS	28-6-2011	2519-00	1	2519-00
13	SPST knife switches		28-6-2011	400-00	2	800-00
14	SPST Knife Switches	SRI SRR	21-9-2011	367-00	3	1101-00
15	5HP/220V/1500RP M/DC shunt motor coupled with 3KVA/415V/50Hz/1 500RPM Alternator	BENN	28-6-2011	77225-00	1	77225-00
16	5HP/220V/1500RP M/DC shunt motor	BENN	5-5-2012	79275-00	1	79275-00

	coupled with 3KVA/415V/50H/15 00 RPM Alternator					
17	3HP/220V/1500RP M DC Shunt motor with base plate	BENN	2-7-2011	32142-00	2	64284-00
18	3HP/220V/1500RP M, DC Shunt motor with brake drum	BENN	2-7-2011	38108-00	1	38108-00
19	Digital Clamp Meter	MECO	28-6-2011	3062-00	1	3062-00
20	5HP/415V/1500RP M/3Ph Squirrel cage IM, with brake drum	KIRLOSKAR	2-7-2011	46483-00	1	46483-00
21	3Ph Star -Delta Starter	L&T	2-7-2011	6412-00	1	6412.00
22	1-Ph Transformer 2KVA,230V/400V	LOKESH ELE.TECH	2-7-2011	9160-00	1	9160.00
23	1-Ph Transformer 2KVA,230V/115V	LOKESH ELE.TECH	2-7-2011	9160-00	1	9160.00
24	1-Ph Auto Transformer 2KVA,230V/0- 270V,8A	LOKESH ELE.TECH	28-6-2011	6274-00	1	6274.00
25	1- Ø Resistive Load Boxes 230V/10A	SRI SRR	2-7-2011	17747-00	2	35494.00
26	1-Ø Resistive Load Box 230V/0-10A	SRI SRR	20-11-2011	16275-00	1	16275.00
27	DPST Knife switches	SRI SRR	26-11-2012	916-00	3	2748.00
28	Megger 1000V,1000MΩ	WACO INST	2-7-2011	4122-00	1	4122.00
29	3-Ø Resistive Load Box 415V/0-7A	SRI SRR	20-11-2011	18600-00	2	37200.00
30	3HP/220V/1500RP M, DC Shunt motor coupled to 1.8KW/220V/1500R PM DC Shunt Generator &3-point Starter	BENN	26-11-2011	68900-00	1	68900.00
31	3HP/220V/1500 RPM, DC Shunt motor coupled to 1.8KW/220V/1500R PM DC Series Generator&3-point Starter	BENN	26-11-2011	68900-00	1	68900.00
32	3HP/220V/1500 RPM, DC Shunt	BENN	26-11-2011	69960-00	1	69960.00

	motor coupled to 1.8KW/220V/1500R PM DC Compound Generator&3-point Starter					
33	2KW/220V/1500RP M Identical DC Shunt Machines with 3-point starter	BENN	26-11-2011	68900-00	1	68900.00
34	2KW/220V/1500RP M Identical DC Series Machines with 3-point starter	BENN	26-11-2011	68900-00	1	68900.00
35	3HP/220V/1500RP M, DC Compound motor with brake Drum	BENN	26-11-2011	45580-00	1	45580.00
36	Distribution board main switches 3 H.P 440V	L&T	21-9-2011	1000-00	12	12000-00
37	1-Ø Transformers 1KVA,230V/115V	LOKESH ELE.TECH	5-5-2012	7350-00	2	14700.00
38	1-Ø Transformers 1KVA,230V/115V with 50% & 86.6% Tapings	LOKESH ELE.TECH	5-5-2012	8400-00	2	16800.00
39	3HP/415V/1500RP M/50Hz, Star Connected, Salient pole SYNCHRONOUS Motor	BENN	5-5-2012	52500-00	1	52500.00
40	DOL Starter for Synchronous moto		5-5-2012	12600-00	1	12600.00
41	1HP/230V/1440RP M/50HZ 1-Ø Motor	CROMPTON GREEVES	5-5-2012	18900-00	1	18900.00
42	Phase Sequence Meter	AE	5-5-2012	1260-00	1	1260.00
43	MC Ammeters, 0-2A	AE	28-6-2011	1465-00	3	4395.00
44	MC Ammeters, 0-2A	MECO	26-11-2011	1545-00	6	9270.00

45	MC Ammeters, 0-2A	MECO	21-9-2011	1344-00	6	8064.00
46	MC Ammeters, 0-2A	MECO	28-6-2011	1465-00	1	1465.00
47	MC Ammeters, 0-6A	MECO	28-6-2011	1465-00	1	1465.00
48	MC Ammeters, 0-20A	MECO	28-6-2011	1465-00	1	1465.00
49	MC Ammeters, 0-10A	MECO	26-11-2011	1545-00	1	1545.00
50	MC Ammeters, 0-10A	MECO	26-11-2011	1545-00	4	6180.00
51	MC Ammeters, 0-10A	MECO	7-4-2017	1538-00	2	3076.00
52	MC Ammeters, 0-150mA	MECO	7-4-2017	1338-00	3	4615.00
53	MI Ammeters, 0-6A	MECO	28-6-2011	1362-00	2	2724.00
54	MI Ammeters, 0-10A	MECO	28-6-2011	1362-00	2	2724.00
55	MI Ammeters, 0-10A	MECO	7-4-2017	1435-00	3	4306.00
56	MI Ammeters, 0-20A	MECO	28-6-2011	1362-00	1	1362.00
57	MI Ammeters, 0-2A	MECO	7-4-2017	1435-00	3	4306.00
58	MI Ammeters, 0-5A	MECO	7-4-2017	1435-00	3	4306.00
59	MC Voltmeters, 0-300V	AE	28-6-2011	1465-00	6	8790.00
60	MC Voltmeters, 0-300V	MECO	26-11-2011	1545-00	8	12360.00
61	MC Voltmeters, 0-600V	MECO	26-11-2011	1545-00	2	3090.00
62	MI Voltmeters, 0-80V	MECO	28-6-2011	1362-00	1	1362.00
63	MI Voltmeters, 0-250V	MECO	28-6-2011	1362-00	1	1362.00
64	MI Voltmeters, 0-300V	MECO	28-6-2011	1362-00	1	1362.00
65	MI Voltmeters, 0-500V	MECO	28-6-2011	1362-00	1	1362.00
66	MI Voltmeters, 0-500V	MECO	17-7-2011	1465-00	1	1465.00
67	MI Voltmeters, 0-500V	MECO	5-5-2012	1312-00	1	1312.00
68	MI Voltmeters, 0-500V	MECO	5-5-2012	1312-00	2	2624.00
69	MI Voltmeters, 0-500V	MECO	5-5-2012	1365-00	1	1365.00
70	MI Voltmeters, 0-300V	MECO	5-5-2012	1365-00	2	2730.00
71	MI Voltmeters, 0-300V	AE	25-7-2013	1660-00	2	3320.00
72	MI Voltmeters, 0-	MECO	7-4-2017	1435-00	3	4306.00

	300V					
73	MI Voltmeters,0-150V	MECO	7-4-2017	1538-00	3	4615.00
74	LPF Wattmeters,500V/5 A	MECO	21-11-2011	4410-00	3	13230.00
75	LPF Wattmeters,500V/10 A	AE	5-5-2012	3885-00	2	7770.00
76	LPF Wattmeters,300V/10 A	MECO	25-7-2013	4351-00	1	4351.00
77	LPF Wattmeters,300V/10 A	MECO	25-7-2013	4351-00	1	4351.00
78	LPF Wattmeters,600V/10 A	MECO	7-4-2017	6371-00	2	12743.00
79	UPF Wattmeters,600V/10 a	MECO	21-11-2011	2415-00	1	2415.00
80	UPF Wattmeters,600V/10 A	AE	5-5-2012	2310-00	1	2310.00
81	UPF Wattmeters,600V/10 A	MECO	7-4-2017	3292-00	2	6585.00
82	UPF Wattmeters,600V/20 A	MECO	21-11-2011	2415-00	2	4830.00
83	UPF Wattmeters,300V/10 A	MECO	7-4-2017	3416-00	2	6832.00
84	Rheostate,35ohms/5 A	STEAD	26-11-2011	3326-00	1	3326.00
85	Rheostate,220ohms/1.8A	STEAD	26-11-2011	2116-0	3	6348.00
86	Rheostate,600ohms/1.7A	STEAD	26-11-2011	5244-00	1	5244.00
87	Rheostate,750ohms/1.7A	VEPL	2-7-2011	5244-00	1	5244.00
88	Rheostate,250ohms/2A	VEPL	2-7-2011	2156-00	2	4312.00
89	Rheostate,50ohms/5 A	VEPL	26-11-2011	4923-00	5	24615.00
90	Rheostate,50ohms/5 A	VEPL	21-11-2011	4389-00	3	13167.00
91	Rheostate,100ohms/5A	VEPL	26-11-2012	5733-00	4	22932.00

92.	Rheostate,360ohms/ 1.2A	VEPL	26-11-2012	1312-00	3	3936.00
93.	Rheostate,1500ohms /1.2A	VEPL	26-11-2012	8925-00	3	26775.00
94	Rheostate,300ohms/ 1.7A	STED	5-5-2012	1365-00	1	1365.00
95	Rheostate,1500ohms /1.7A	STED	26-11-2012	8925-00	1	8925.00
96	Distribution panel main switches and accessories	SRI SRR	26-07-23	10409-00	1	10409-00
<b>NEW EQUIPMENT</b>						
96	1KVA 1Ø Transformers, 230/115V	L A	15-12-2022	19293-00	2	38586.00
97	Ammeters MI(0- 2.5/5A)	MECO-V	15-12-2022	1840-00	4	7360.00
98	Ammeters MI(0- 5/10A)	MECO-V	15-12-2022	1840-00	2	3680.00
99	Ammeters MI(0- 10/20A)	MECO-V	15-12-2022	1840-00	2	3680.00
100	Voltmeters MI(0- 250/500V)	MECO-V	15-12-2022	1840-00	2	3680.00
101	Voltmeters MI(0- 150/300V)	MECO-V	15-12-2022	1840-00	2	3680.00
102	Voltmeters MI(0- 75/150V)	MECO-V	15-12-2022	1840-00	3	5520.00
103	Voltmeters MI(0- 300/600V)	MECO-V	15-12-2022	1840-00	1	1840.00
104	Ammeters MC(0- 5/10A)	MECO-V	15-12-2022	2572-00	1	2572.00
105	Ammeters MC(0- 10/20A)	MECO-V	15-12-2022	2572-00	1	2572.00
106	LPFWattmeters,150/ 300/600V,2.5/5A	MECO-V	15-12-2022	8142-00	1	8142.00
107	UPFWattmeters,75V /150/300V, 5/10A	MECO-V	15-12-2022	4071-00	1	4071.00
108	UPFWattmeters,150/ 300/600V, 5/10A	MECO-V	15-12-2022	4071-00	2	8142.00
109	UPFWattmeters,150/ 300/600V, 2.5/5A	MECO-V	15-12-2022	4071-00	1	4071.00
<b>TOTAL COST</b>						<b>1815165.00</b>

  
**Head**  
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