

J.T.MAHAJAN POLYTECHNIC NHAIVIMARG, FAIZPUR.

DEPARTMENT OF ELECTRICAL ENGG.

NAME OF LAB:- ELECTRICAL MACHINERY LABORATORY LIST

Built Up Area 164.85 sqm

SR. NO	Description Of Equipments	Total Available	COST	
			Rs	Ps
1	Hand Tachometer	02	5,601	=85
2	Three Phase Varaic 440v,30 Amp	03	23,145	=00
3	Single Phase Varaic 230v, 15 Amp	04	12,786	=00
4	Wattmeters			
	A) Wattmeter Dynamometer 2.5 Amp/ 5 Amp, 250 / 500 V	02	1,604	=50
	2.5 Amp , 75 / 150 / 300 V	01	810	=50
	2.5amp/10 Amp, 150 / 300 / 1000v	01	779	=00
	2.5 Amp/ 5 Amp , 75 / 150 / 300 V	01	1539	=16
	10 Amp, 75 /300 / 600 V	01	816	=25
	B) Two Element Wattmeter	02	5639	=20
B) Three Phase Two Element Type Wattmeter	02	5709	=00	
5	Measuring Devices-			
	A)Ammeter (M.I.) 0-500 Ma	01	120	=00
	0-5 Amp	10	2165	=00
	0-25 Amp	02	388	=00
	C) Voltmeter (M.I.) 0-150-300 V	02	679	=00
	0-300-600 V	02	713	=00
0-150-300-600 V	01	349	=20	
6	Rheostats			
	10 Ohms, 8 Amp	02	588	=00
	22 Ohms , 8 Amp	02	588	=00
	86 Ohms, 2.8 Amp	03	867	=00
	420 Ohms , 1.2 Amp	03	823	=20
	500 Ohms , 1 Amp	03	823	=20
	1000 Ohms , 0.5 Amp	02	4179	=00
	220 Ohms , 1.8amp	02	1814	=28
	58 Ohms , 3.3 Amp	03	1821	=40
7	Startersthree Point Starter (230v,5hp)	01	1250	=00
	ii) Four Point Starter (230v,5hp)	01	1390	=00
8	Multimeter (Digital)	02	2000	=00
9	Dc Regulated Power Supply 30 V , 2 Amp	02	7000	=00
10	Wattmeter(Spse) 2.5/5 A , 75/150/300 V	02	3520	=00
11	Wattmeter (Spse, Cnter Zero) 10 A , 75/150/300 V	03	5280	=00
12	Wattmeter (Spse , Lpf) 5/10 A, 75/150/300v	02	6080	=00
13	Wattmeter 2.5/5 A , 150/300/600 V	02	6320	=00
14	Tong Tester (Digital)	01	2280	=00
15	Voltmeter Portable (M.I.) 0 – 75 /150/300 V	05	5425	=00
	0 – 150/300/600 V	05	5425	=00

SR. NO	DESCRIPTION OF EQUIPMENTS	TOTAL AVAILABLE	COST	
			Rs	Ps
16	AMMETER (M.I.) 0-500 Ma 0-1 AMP 0-10 AMP 0-20 AMP 0-2 AMP	02	1870=00	
		04	3740=00	
		02	1870=00	
		03	2805=00	
		04	3740=00	
17	Volmeter Portable (M.C.) 0-30 V 0-60 V 0-150/300 V	02	1870=00	
		02	1870=00	
		04	4080=00	
18	Power Factor Meter(Spse) 5a/440 V	01	2240=00	
19	Phase Sequence Indicator	01	450=00	
20	Dc Shunt Motor 3 Hp, 230v, Coupled To Dc Shunt Generator 2 Kw	01	25840=00	
21	Dc Shunt Motor 3 Hp, 230 V , Coupled To Series Generator 2kw	01	27840=00	
22	Three Phase Induction Motor 5 Hp, 415 V Coupled Dc Shunt Generator 2 Kw	01	23460=00	
23	Single Phase Induction Motor 2 Hp , 230 V Coupled To Dc Shunt Generator 1 Kw	01	18780=00	
24	Dc Shunt Motor 5 Hp ,230 V Coupled With 3.5 Kva ,415 V Three Phase Alternator	01	32840=00	
25	Synchronous Motor 3 Hp, 3 Ph , 415 V, 50 C/S Coupled To Dc Shunt Generator 2 Kw	01	26680=00	
26	Synchronous Motor Starter/ Exciter	01	3800=00	
27	Three Phase Induction Motor 3 Hp, 415 V With Pony Brake Arrangement	01	8880=00	
28	Synchronous Panel With Double Volt/ Double Frequency Meter & Lamps	01	6500=00	
29	Dc Series Motor With Pony Brake Arrangement 2kw, 230v	01	18680=00	
30	Dc Shunt Motor 3 Hp , 230 V Coupled To Dc Compound Generator	01	25840=00	
31	Dc Shunt Motor 3 Hp,230 V With Pony Brake Arrangement	01	16860=00	
32	Slipring Induction Motor 3 Hp,415v	01	10810=00	
33	Resistive Load , 3 Phase With Star/Delta Arrangement	01	17840=00	
34	Demonstration Model Of Star/Delta Starter	01	4000=00	
35	Tachometer Digital (Contact Type)	02	4280=00	
36	Single Phase Induction Motor 1hp, 230 V	01	4780=00	
37	Rotor Resistance Starter 3hp	01	3200=00	
38	Dc Regulated Power Supply 10 Kw,230v Dc , Input 415 V , Three Phase	01	59680=00	
39	Panel Suiatble For Dc/Ac Set Consist Of Switch Ac/Dc Starter& Terminals	12	50400=00	

SR. NO	DESCRIPTION OF EQUIPMENTS	TOTAL AVAILABLE	COST	
			Rs	Ps
40	Single Phase Transformer	02		6520=00
41	Three Phase Transformer 415v, 2 Kva	02		17680=00
42	Analoge Multimeter With Leads	02		2000=00
43	Rheostats-			
	10 Ohms , 8 Amp	02		1720=00
	22 Ohms , 8 Amp	02		2480=00
	86 Ohms , 2.8 Amp	01		1020=00
	500 Ohms , 1 Amp	02		1440=00
	1000 Ohms, 0.5 Amp	02		920=00
	220 Ohms , 1.8 Amp	04		3900=00
	6 Ohms , 10 Amp	04		1920=00
	12 Ohms , 10 Amp	03		3780=00
	3 Ohms , 20 Amp	01		1380=00
	50 Ohms , 5 Amp	02		2160=00
	30 Ohms , 6.5 Amp	01		1060=00
	250 Ohms , 5 Amp	01		3660=00
	210 Ohms , 1.8 Amp	02		1950=00
	500 Ohms , 1 Amp	01		740=00
44	Inductive Load ; Three Phase 5 Amp Variable With 6 Terminals Arrangement	01		16820=00
45	Capacitive Load ; Three Phase ,	01		14600=00
46	Stroboscope :- Digital Flash Light Manually Operated	01		8250=00
	Page Total			94000=00
	Grand Total			629843=74

LABORATORY:- POWER ENGINEERING LAB.

Built Up Area 114.37 sqm

SR. NO	DESCRIPTION OF EQUIPMENTS	QTY AVAILABLE	COST	
			Rs	Ps
1	Cable Demonstration Kit	01		400=00
2	Circuit Breaker Charts	04		400=00
3	Relay Charts	04		400=00
4	Insulator Set	01		1000=00
5	Ceiling Fan Kit	01		600=00
6	Single Phase Choke Coil	01		2000=00
	GRAND TOTAL			4800=00