

E.G.Lab

NO	Name of Equipments	Quantity
1	Dissected model set of 4	1
2	Non dissected model set of 4	1
3	Model of dissected solids (set of 8)	1
4	Geometrical model kit	1
5	Interpentantion of solid wooden	1
6	Projection of straight line appratus	1

COMPUTER LAB

NO	Name of Equipments	Quantity
1	Computer Desktop	290
2	Printer	32
3	Projector	4

Design of Machine Elements

NO	Name of Equipments	Quantity
1	Double speed belt drive	1
2	Single speed belt drive	1

Refrigeration and air conditioning

NO	Name of Equipments	Quantity
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1	Vapour compression Refrigeration Trainor	1
2	Vapour absorption Refrigeration Trainor	1
3	Window air conditioning Testing	1

Dynemics of Machine

NO	Name of Equipments	Quantity
1	Static and dynamic Balancing Appartus	1
2	Vibration Lab	1

Internal Cumbution Engine

NO	Name of Equipments	Quantity
1	Whirling Of shaft	1
2	Petrol Engine Two stroke In cut section	1
3	Petrol EnginFour stroke In cut section	1
4	Actual cut section model of multicylinder Disel Engine	1

POWER ELECTRONICS-1

NO	Name of Equipments	Quantity
1	V-I Characteristics of Thyristor	1
2	V-I Characteristics of MOSFET	1
3	R Triggering circuit	1
4	RC Triggering circuit	1
5	UJT Triggering circuit	1
6	Thyristor commutation circuits.	1
7	Performance of 1-phase semiconverter and 1-phase fully controlled converter with R load and RL load	1
8	3-Phase Half Wave & Full Wave Bridge Rectifier	1
9	Chopper(DC-DC) (step up and step down) with TRC	1

10	Chopper(DC-DC) (step down) with TRC	1
11	Speed control of SEDC motor with phase controlled converter or DC-DC converter	1

POWER ELECTRONICS-2

NO	Name of Equipments	Quantity
1	SCR based 1-ph AC voltage controller	1
2	SCR based 1-ph AC Cycloconverter working on the principle of integral half cycle control	1
3	Performance of 1-ph bridge inverter with R and RL load	1
4	Performance of 3-ph bridge inverter operating with 120 degrees and 180 degrees	1
5	AC drive demonstrator	1

HIGH VOLTAGE ENG.

NO	Name of Equipments	Quantity
1	Impulse generator	1
2	Hv tester, sphere gap , rod gap apparatus	1
3	corona discharge set up	1
4	solid insulator tester	1
5	horn gap	1
6	electrolytic tank	1
7	transformer oil testing kit	1

Heat Transfer

NO	Name of Equipments	Quantity
1	Emissivity measurement apparatus	1
2	Forced convection heat transfer apparatus	1
3	unsteady state heat transfer apparatus	1
4	stefan-boltzman measurement apparatus	1
5	Thermal conductivity of composite wall apparatus	1

6	Thermal conductivity of the metal rod apparatus	1
7	Natural convection heat transfer in heated vertical cylinder apparatus	1
8	Pin fin losing heat in natural-forced convection apparatus	1
9	Thermal conductivity of the insulating powder apparatus	1

Fluid Power Engineering

NO	Name of Equipments	Quantity
1	Pelton wheel turbine test rig	1
2	Two stage air-compressor test rig	1
3	Centrifugal pump test rig	1
4	Kaplan turbine test rig	1
5	Francis turbine test rig	1

Theory of machine

NO	Name of Equipments	Quantity
1	Porter governor	1
2	Hartnell Governor	1
3	Watt Governor	1

WORKSHOP

NO	Name of Equipments	Quantity
1	Vernier height gauge 12"	01 NO.
2	Vernier dial caliper 300 mm	01 NO.
3	o/s Micrometer 0-25 mm	01 NO.
4	Dial indicator with stand 0-10x0.001 mm	01 NO.
5	Mechanical comparator with stand 4 dial	01 NO.
6	Dial thickness gauge 0-10 mm	01 NO.

7	Inside micrometer 50-250 mm	01 NO.
8	Surface roughness chwd rubbers	01 NO.
9	Hand shear blade 8"	01 NO.
10	Hammer ball pin 200 gm	13 Nos.
11	Hammer cross pin 200 gm	03 Nos.
12	Hammer cross pin 450 gm	11 Nos.
13	Hammer ball pin 450 gm	15 Nos.
14	Steel rule 12"	28 Nos.
15	Tin cutter 8"	06 Nos.
16	Center punch	06 Nos.
17	Cheasel 102	12 Nos.
18	Anvil 25 gm	01 NO.
19	Swadge block 12"x12"x4"	01 NO.
20	Air blower 1 h.p.	01 NO.
21	Hammer 750 gm	01 NO.
22	Sledge hammer 5 kg	01 NO.
23	Sledge hammer 10 kg	01 NO.
24	Chipping hammer 300 gm	6 Nos.
25	Hand screen with glass	3 Nos.
26	Electric hand grinding machine bosch	01 NO.
27	C clamp 3"	01 NO.
28	C clamp 6"	01 NO.
29	Depth gauge 12"	01 NO.
30	Oil can 1/2 ltr.	02 Nos.
31	Steel rule 6"	12 Nos.

32	Triangular file j.k.	12 Nos.
33	Half round file 8"	6 Nos.
34	Screw driver 8"	01 NO.
35	Screw driver 10"	01 NO.
36	Pipe vice 2"	02 Nos.
37	Pipe die stock with die 1/2",3/4"	01 set
38	pipe wrench 12"	01 NO.
39	Pipe wrench 18"	01 NO.
40	Pipe wrench 24"	01 NO.
41	water pupmp plier 1225	02 Nos.
42	Carpentry vice 10"	20 Nos.
43	Surface plate 1'x1'	01 NO.
44	Drill machine vice 4"	01 NO.
45	Hand drill machine 13 mm	01 NO.
46	File flate rough 10"	25 Nos.
47	File flate smooth 10"	25 Nos.
48	Dot puch 4"	12 Nos.
49	v' block 50x38x38 mm	01 NO.
50	Hand hacksaw frame 12"	20 Nos.
51	Number puch 3/16"	01 set
52	Letter punch 3/16"	01 set
53	Right angle 4"	20 Nos.
54	Depth gauge 6"	01 NO.
55	Bench vice 4"	20 Nos.
56	Hand saw 12"	15 Nos.

57	Firmer chiesel 3/8",1/2"	20 Nos.
58	Firmer chiesel 3/4"	20 Nos.
59	Mortise chiesel 3/8",1/2"	20 Nos.
60	Right angle 6"	20 Nos.
61	Claw hammer 450 gm	02 Nos.
62	Smoothing plane 9"	10 Nos.
63	File flate 8" smooth	10 Nos.
64	File flate 8" morfa	10 Nos.
65	File flate 8" rough	10 Nos.
66	Steel tap 3 mtr.	01 NO.
67	Hand drill 1/4"	01 NO.
68	Jumoro plier 8"	01 NO.
69	Wooden handle for chiesel & file	90 Nos.
70	Victor brand precision lath machine with accessories	01 NO.
71	Drilling machine cap. 20 mm	02 Nos.
72	Techmec ele. Motor 1hp/3ph./1440 rpm.	03 Nos.
73	Hacksaw machine	01 NO.
74	Weldind machine	02 No.
75	Bench grinder	01 No.
76	Electric motor (1 hp)	01 No.
77	Furnace	01 No.
78	China vernier caliper 150 mm	03 Nos.
79	Taparia fix spanner set	01 set.
80	Taparia ring spanner set	01 set

81	Taparia adjustable wrench 6"	01 Nos.
82	Taparia adjustable wrench 8"	01 Nos.
83	Taparia allenkey set	01 set
84	Drill shank 4 to 13 mm	01 set
85	Bharat adjustable tap wrench	01 Nos.
86	Thread gauge	01 set
87	Radius gauge 1 to 7 mm	01 set
88	Filler gauge	01 set
89	Wire gauge	01 set
90	Spirit level bottle with magnet	01 Nos.
91	Combination plier	02 Nos.
92	Nose plier	02 Nos.
93	Tap set m 10x1.5 mm	01 set
94	Vernier caliper china 300 mm	01 NO.
95	Flat tong	01 NO.
96	Inside caliper	02 Nos.
97	Divider 6"	01 No.
98	Welding holder medium	02 Nos.
99	Taparia tester	02 Nos.
100	Totem HSS. Tap set 6 mm	01 set
101	Totem HSS. Tap set 8 mm	01 set
102	Screw driver set	01 set
103	Drill chuck 1/2"	02 Nos.
104	AMW. Arbour M.T.	02 Nos.
105	Drill sleeve 1-2	02 Nos.

106	Drill slive 2-3	02 Nos.

EME LAB

NO	Name of Equipments	Quantity
1	Greens Economiser	1
2	Sudgens super heater	1
3	Combina high system & low water safety valve	1
4	Steam engine model with boiler	1
5	Single stage super gear	1
6	Simple gear train model wheel	1
7	Compound gear train wheel	1
8	Gear box with clutch & speed	1
9	Cone plate clutch	1
10	Coacharn boiler	1
11	Lancashire boiler	1
12	Locomotive boiler	1
13	Bab cock & willcox boiler	1
14	Flange coupling	1
15	Flexible coupling	1
16	Oldhalm coupling	1
17	Multi plate clutch	1
18	Band & block break	1
19	2 stroke petrol engine section model	1
20	4 stroke petrol engine section model	1
21	2 stroke diesel engine section model	1
22	4 stroke diesel engine section model	1
23	Reciprocating pump	1
24	Centrifugal pump	1