

**Government Polytechnic, Ratnagiri**  
**Department of Mechanical Engineering**  
**Name of Laboratory: POWER ENGINEERING AND THERMAL ENGINEERING**

SR NO	DSR NO. & PAGE NO.	NAME OF EQUIPMENT	AUTHORITY FOR PURCHASE & DATE OF PURCHASE	QUANTITY	Value (Rs.)
<b>POWER ENGINEERING</b>					
1	1, 2-4	Experimental type 2 stage reciprocating air compressor	A/T NO SPA/421/66-67/SSI/243 FROM CSPO DATE-18/08/1967	1	16253.67
2	1, 7	Triple Multy cylinder four stroke Ambassador petrol engine test rig with Electrical Generator	AT NO WBP/22/EQUIP/94-95/3008 DATE-09/12/94	1	116844.00
3	1, 4	Model of swinging field dynamometer	GPR/MECH/2769 DATE-6/12/1975	1	1404.00
4	1, 25	Vertical Diesel Engine	GPR/EQP/HE LAB/179 DATE-2/1/71	1	6466.00
5	1, 28	Kirloskar make AV2 twin cylinder water cooled vertical four stroke cycle Diesel engine	GPR/MECH/EQP/7299 DATE-23/12/72	1	4820.40
6	1, 30	Petrol engine with hydraulic dynamo-meter & Test Rig	GPR/HE LAB/3991 DATE-23/09/69	1	12280.37
7	1, 31	Labreta scooter Petrol engine single cylinder two stroke ,forced air cooled	GPR/MECH/PE/511 OF 76 DATE-12/02/1976	1	2444.08
8	1, 54	FERRET Engine Diagnostic Analyser	ATNO4/DIIC/WBP/COFMOW/EQP/97-98/1336 DATE-6/12/97	1	547010.00
9	1, 59	Speedometer Revolution counter	GPR/HE LAB/EQP/5696 DATE-26/11/69	1	113.30
10	1, 62	Exhaust Gas Analyser(Petrol)	AT NO COFMOW/HRD/IC/003/TECH/ELD/II/S/7054 DTAE-7/10/98	1	66268.00
11	1, 63	One cylinder four stroke engine test rig	AT NO COFMOW/HRD/ICB/023/TEP-/II/98/5/7074 DTAE-16/12/98	1	129024.00
12	1, 64	One cylinder two stroke petrol engine kit	AT NO COFMOW/HRD/ICB/023/TEP-/II/98/5/7074 DTAE-16/12/98	1	116593.00
13	2, 83	Model of actual compressor	GPR/HE LAB/EQP/2616DATE-1/10/73	1	334.75
<b>Thermal Engineering</b>					
14	1, 20-21	Bomb calorimeter	SPA/1375/76/61-62/4754 DATE-9/3/62	1	3391.50
15	1, 49	Doubbie McInnes separating and throttling calorimeter	A/T. NO. SPA/227/62-63/KH/14693 DATE:20.9.62	1	6383.50
16	1, 60	Heat trasfer in nature convection	11/DTE/CCHA/75/98-99/NEWC/R/8929/DATE-30/3/99	1	16514.00

17	1, 61	Experimental cooling tower with detail instruction manual 1) Cooling tower with wave type meshing 2) Rotameter with needle valve -2No 3) Wet & Dry bulb Thermometer-2No 4) Thermometer-2No 5) Air blower-1No 6) PVC Pipe -10feet	AT NO WBP/22/EQUIP/94-95/628 DATE-09/2/95	1	51548.00
18	1, 93	Flash point fire point Apparatus	GPR/MECH/501 DATE-2/2/88	1	4656.00
19	1, 94	Thermometer for Red wood viscometer 1) IP8C Range 0 ° c to 82°C	GPR/MECH/501 DATE-2/2/88	1	110.00
	1, 94	2) IP9c R-37.8°C to 82°C	GPR/MECH/501 DATE-2/2/88	1	110.00
20	1, 94	3) IP10c R-76°C to 122°C	GPR/MECH/501 DATE-2/2/88	1	110.00
21	2, 4	Model of Lancashire boiler	SPA/1284/61-62/3986 DATE-28/2/62	1	
22	2, 5	Model of Wilcox and Bab cock boiler	SPA/1284/61-62/3986 DATE-28/2/62	1	865.00
23	2, 6	Model of Locomotive boiler	SPA/1284/61-62/3986 DATE-28/2/62	1	865.00
24	2, 7	Model of Hapinson stop valve	SPB/1375/76-PART III/61-62 /6107 DATE-13/11/62	1	275.00
25	2, 8	Fusible plug in 1/4 section cut set of three	SPB/1375/76-PART III/61-62 /6107 DATE-13/11/62	1set	195.00
26	2, 9	Feed check valve	SPB/1375/76-PART III/61-62 /6107 DATE-19/03/62	1	330.00
27	2, 10	Steam trap expansion type	GPR/HELAB/EQP/4684 DATE-15/11/62	1	315.00
28	2, 11	E-1649 greens economizer 14"X8"X9"	GPR/HELAB/EQP/4684 DATE-15/11/62	1	525.00
29	2, 12	Blow off cock	SPB/1375/76-PART III/61-62 /6107 DATE-19/03/62	1	42.00
30	2, 13	Steam trap float type section model (Meatl)Size 6"X5"	GPR/HELAB/EQP/4684 DATE-15/11/62	1	288.75
31	2, 14	E-1646 antipriming pipe 1x1/2" dia 12" long complete with part of boiler shell and sealing for stop valve	GPR/HELAB/EQP/4684 DATE-15/11/64	1	94.50
32	2, 15	E-1650 sugden's super heater model	GPR/HELAB/EQP/4684 DATE-15/11/62	1	551.25
33	2, 16	stuffing box	GPR/HELAB/EQP/3320 DATE-09/07/62	1	44.00
34	2, 17	Bolts 4 type set	GPR/HELAB/EQP/3319 DATE-09/07/62	1set	65.00
35	2, 55	Model of safety valve lever type	SPA/1375/76-PART III/61-62 /6099DATE-6/9/62	1	110.00
36	2, 56	Model of safety valve spring loaded type	SPA/1375/76-PART III/61-62 /6099DATE-6/9/62	1	110.00
37	2, 67	Mayer expansion valve	SPA/1375-76-PART III/61-62 /6099DATE-19/3/62	1	425.00
38	2, 71	Model of drop valve steam engine	GPR/HE LAB/EQP/145 DATE-11/1/65	1	456.00

39	2, 72	Model of steam engine D slide valve	GPR/HE LAB/EQP/1478DATE- 11/1/1965	1	969.00
40	2, 73	Section model of compound steam engine with piston valve	SPB/1375-76/PART-III/61- 62/6107 DATE-6/9/62	1	588.00
41	3, 29	Copper tensile (A-Z & 0-9)	AMD DATE-17/10/88	1	8.40
42	3, 39	Thermal conductivity of metal rod	GPR/STR/09/4199 DATE- 01/09/09	1	40500.00
43	3, 40	Stefan Boltzmann law setup	GPR/STR/420 DATE- 01/09/09	1	38500.00
44	3,41	Cut section model of lp/hp cut outer	GPR/STR/4202 DATE- 1/9/09	1	1500.00
		Cut section model of thermostat	GPR/STR/4202 DATE- 1/9/09	1	750.00
		Cut section model of overload protector	GPR/STR/4202 DATE- 1/9/09	1	750.00