

MECHANICAL ENGG. BRANCH(EQUIPMENT LIUST)

LIST OF APPARATUS TO BE USED IN MECHANICAL ENGINEERING LAB INCLUDING ENERGY CONVERSATION LAB.

Sl. No.	Name of Apparatus	Remarks
01	Universal Testing Machine	
02	B.H.N. Testing Machine	
03	R.H.N. Testing Machine	
04	Relative Humidity Measurement	
05	Lancashire Boiler	
06	Babcock Nilcox Boiler	
07	Locomotive Boiler	
08	Cocfiran Boiler	
09	Experimental type Steam Turbine	
10	Two Stroke Petrol Engine (Model asking type)	
11	Four Stroke Diesel Engine (Model asking type)	
12	Two Stroke Diesel Engine (Model asking type)	
13	Four Stroke Petrol Engine (Model asking type)	
14	Four Stroke Petrol Engine (Test ring with full accessories)	
15	Impact Testing Machine	
16	Torsion Testing Machine for M-S. rod	
17	Solar Street light system	
18	Solar pumping system	
19	Solar drier system	
20	Gobar Gas Plant	
21	Refrigerator	

**LIST OF APPARATUS TO BE USED IN
ENGG.MECHANICS LAB**

Sl. No.	Name of Apparatus	Remarks
01	SEARLS APPARATUS TO MEASURE THE ELONGATION OF WIRE	
02	COMPRESSION TESTING M/C (1 TONNE CAPACITY)	
03	REACTION AT SUPPORT APPARATUS	
04	ROOF TRUSS APPARATUS (TO MEASURE REACTION AT SUPPORT)	
05	DEFLECTION OF BEAM (SIMPLY SUPPORTED BEAM APPARATUS)	
06	POLYGON LAW OF FORCES (VERIFICATION MG)	
07	TRIANGLE LAW OF FORCES (VERIFICATION APPARATUS)	
08	MOMENT OF INERTIA OF FLYWHEEL APPARATUS	
09	COEFFICIENT OF FRICTION OF INCLINED PLANE APPARATUS	

LIST OF MACHINES / EQUIPMENTS FOR WORKSHOP

I - MACHINE SHOP

SL. NO.	NAME OF ITEM	REQUIREMENTS	SPECIFICATION
01	CENTRE LATHE	05 Nos.	See Page-01
02	MILLING MACHINE	01 No.	See Page-02
03	SHAPER MACHINE	02 Nos.	See Page-03
04	GRINDING MACHINE	02 No.	See Page-04
05	DRILL MACHINE	02 No.	See Page-05
06	SLOTTER MACHINE	01 No.	See Page-06
07	PLANNER MACHINE	01 No.	See Page-06
08	POWER HACKSAW	02 No.	See Page-07

II - WELDING SHOP

SL. NO.	NAME OF ITEM	REQUIREMENTS	REMARKS
01	OXYGEN CYLINDER	01 No.	
02	ACETYLENE CYLINDER	01 No.	
03	PRESSURE GAUSES	02 Nos	
04	PRESSURE REGULATOR	02 Nos.	
05	WELDING TORCH	01 No.	
06	GOGGLES	10 Nos.	
07	HOSE PIPES	10 Meters	
08	AC WELDING TRANSFORMER SET	01 No.	
09	CHIPPING BRUSH	02 Nos.	
10	WIRE BRUSH	02 Nos.	
11	ARC SHIELD (EYE PROTECTOR)	05 Nos.	

III - CARPENTRY SHOP

SL. NO.	NAME OF ITEM	REQUIREMENTS	REMARKS
01	STEEL RULE (SCALE) 1 Meter	10 Nos.	
02	SCRIBER	10 Nos.	
03	MARKING GAUGE	05 Nos.	
04	MORTISE GAUGE	05 Nos.	
05	TRY SQUARE	10 Nos.	
06	DIVIDERS	10 Nos.	
07	RIP SAW	10 Nos.	
08	COPING SAW	10 Nos.	
09	FIRMAR CHIESEL	10 Nos.	
10	GAUGE CHIESEL	02 Nos.	
11	IRON JACK PLANE	02 Nos.	
12	TRYING PLANE	05 Nos.	
13	RASP	05 Nos.	
14	HAND DRILL	05 Nos.	
15	GIMLET DRILL	02 Nos.	
16	CLAMPING VICE	10 Nos.	
17	C-CLAMP	05 Nos.	
18	CROSS PEAN HAMMER	05 Nos.	
19	CLAW HAMMER	10 Nos.	
20	MALLET	05 Nos.	
21	WOOD WORKING LATHE	01 No.	
22	CIRCULAR SAW	01 No.	

IV - FITTING SHOP

SL. NO.	NAME OF ITEM	REQUIREMENTS	REMARKS
01	BENCH VICE	20 Nos.	
02	PIPE VICE	04 Nos.	
03	TRY SQUARE	10 Nos.	
04	SCRIBER & SURFACE GAUGE	10 Nos.	
05	DOT PUNCH	10 Nos.	
06	CENTRE PUNCH	10 Nos.	
07	SURFACE PLATE	01 No.	
08	ANGLE PLATE	01 No.	
09	STEEL RULE	10 Nos.	
10	VERNIER CALLIPERS	05 Nos.	
11	MICROMETRE	05 Nos.	
12	DIVIDERS	10 Nos.	
13	OUTSIDE CALLIPERS	10 Nos.	
14	INSIDE CALLIPERS	05 Nos.	
15	FEELER GAUGE	01 No.	
16	VERNIER HEIGHT GAUGE	01 No.	
17	HACKSAW (FIXED FRAME)	10 Nos.	
18	ROUND FILE	10 Nos.	
19	SINGLE CUT FILE	10 Nos.	
20	DOUBLE CUT FILE	10 Nos.	
21	BALL PEAN HAMMER	05 Nos.	
22	TAP WRENCH	01 No.	
23	HAND DRILLING M/C	01 No.	
24	PORTABLE GRINDER	01 No.	

V - BLACK SMITY SHOP

SL. NO.	NAME OF ITEM	REQUIREMENTS	REMARKS
01	FURNACE OF HEARTH (WITH CENTRE BLOWER)	05 Nos.	
02	SHOWEL	05 Nos.	
03	POKER	05 Nos.	
04	ANVIL	05 Nos.	
05	SCEDGE HAMMER	05 Nos.	
06	PICK UP TONG	10 Nos.	
07	CHIESEL TONG	05 Nos.	
08	CLOSE FLAT TONG	05 Nos.	
09	PINUR TONG	05 Nos.	
10	HOT CHIESEL	05 Nos.	
11	COLD CHIESEL	05 Nos.	
12	DRIFT	02 Nos.	
13	SWAGE BLOCK	01 No.	
14	BALL PEAN HAMMER	05 Nos.	
15	CROSS PEAN HAMMER	05 Nos.	

VI - FOUNDRY SHOP

SL. NO.	NAME OF ITEM	REQUIREMENTS	REMARKS
01	SHOWEL	02 Nos.	
02	TROWELS	10 Nos.	
03	LIFTER	10 Nos.	
04	RIDDLE	01 No.	
05	VENT VICE	10 Nos.	
06	DRAW SPIKE	10 Nos.	
07	REAMMER	05 Nos.	
08	SMOOTHERS	10 Nos.	
09	SLICKES	05 Nos.	
10	COPE & DRAG	10 Set	
11	MALLET	05 Nos.	
12	SWAB	05 Nos.	
13	SPRUE CUTTERS	05 Nos.	
14	SINGLE PLATE PATTERNS	10 Nos.	
15	LOOSE PIECE PATTERNS	05 Nos.	
16	PATTERN HAVING CORES (WOODEN)	10 Nos.	