Annexure -VIII

.Name of laboratory : Drawing Lab

Sr. No.	Name of Equipt./Machinery	Technical Specifications	Minimum Qtty./Nos. Required	Remark if any
1	Charts showing Auxiliary views of any three object.	With first angle method of projection.	03 set	
2	Models of Intersection of solids	 i) Cylinder to cylinder penitration. ii)Cylinder to prism. iii)Cone to Cylinder iv) prism to prism. 	02 Each	
3	Model & charts of Developments of Surfaces.	Developments of Lateral surfaces of cube, prisms, cylinder, pyramids & cone	02 Each	
4	Standard chart for Conventional Representation	 i) Materials ii) break in pipe, rod and shaft. iii) Ball and Roller bearing, pipe joints, cocks, valves, internal / external threads. iv) Various sections- Half, removed, revolved, offset, partial and aligned sections v) Knurling, serrated shafts, splined shafts , and chain wheels. vi) Springs with square and flat ends, Gears, sprocket wheel vii) Countersunk & counterbore. viii) Tapers 	02 Each	
5	Standard chart for Limits, Fits and Tolerances	Standard chart	2	
6	Model & charts of Assembly	 Couplings – Universal couplings & Oldham's Coupling Bearing – Foot Step Bearing Pedestal Bearing Lathe tool Post Machine vice & Pipe Vice 	02 Each	

7	Model & charts of Assembly to Details	 Pedestal Bearing Lathe Tail Stock Drilling Jig Piston & connecting rod Gland and Stuffing box Assembly Valve – Not more than eight parts Fast & loose pulley 	02 Each
8	Cut section model of 3D object	3D object having slot, circular hole, etc.	10 different model
9	Model & charts of Solids	of Prism, Pyramid, Cone, Cylinder, Tetrahedron & Cube	02 Each
10	Model & charts of Sections of Solids	Sections of Solids Prism, Pyramid, Cone, Cylinder, Tetrahedron & Cube	02 Each
11	Model & charts of Developments of Surfaces.	Developments of Lateral surfaces of cube, prisms, cylinder, pyramids & cone	02 Each
12	Model & charts of Free hand sketches	Free hand sketches of nuts, bolts, rivets, threads, split pin, foundation bolts, keys and couplings.	02 Each
13	Auto CAD Software	Auto CAD 2007	Any 1 SHEET with 10 Users lience.
14	working models of i) Cotter Joint, ii)Knuckle Joint, iii)Bell Crank Lever, iv)Turn Buckle, v)Off – Set link, vi)Pulley	working models / Acrylic / Aluminium Cast	01 each
15	Working models of Shaft,(solid,hollow,spline) Keys,(parrallel ,taper,feather,tangent ,woodruff etc.) Power Transmission devices:-belt drive,Chain drive.Gear drive, Clutches, gear trains,Coupling(rigid,Flexible).	working models / Acrylic / Aluminium Cast	01 each
16	Working models of Bearings	Ball,Roller,Taper roller,Pedastal.,Journal,Pivot,etc	
17	wall charts	Tolarences,Surface finish,Limits,Fits	
18	Models of Lead screw of lathe, feed screws of machine tools, Clamping screws, Toggle Jack screw, Screw jack	Metallic models	
19	Helical Springs, Screwed joints, Welded joints	Plastic coated Wall Charts of helical compression and Leaf Springs of different types,different types of screw joints and welded joints	