

Annexure : A

List of Machine / Equipment / Tools Facility				
Sr. No.	Name of Machine / Equipment	Make / Model No.	Machine Specification	Process / Operation
Digital & Electronics				
1	3D Printer - 250i (ABS, PLA Carbon, PETG, HIPS)	DBZ Tech 250i	Build Size -300x250x200 mm (L x W x H)	Product Modelling
2	3D Printer - 400V3 (ABS, PLA Carbon, PETG, HIPS)	DBZ Tech 400V3	Build Size -400x300x300 mm (L x W x H)	Product Modelling
3	3D Scanner	Shining 3D Ein Scan -SE	Table Size-200x200x200 mm (L x W x H)	Scanning
4	PCB Design Software (TINA) PCB Prototyping Machine	Everprecision EP420 Auto	Table Size -320X230X50 mm (L x W x H)	PCB Design
				PCB Fabrication
				PTH Electroplate
5	Handheld Multimeter	Keysight U1232A	Digits of Resolution-3.5 Digit	Testing
6	Handheld LCR Meter	Keysight U1733C	Test frequencies -100Hz, 120Hz and 1kHz, 10kHz 100kHz	Testing
7	Handheld Clamp Meter	Keysight U1211A	Digits of Resolution-3.5 Digit	Testing
8	Digital Multimeter	Keysight 34461A	Digits of Resolution-6.5 Digit	Testing
9	Triple O/P DC power supply	Keysight U8031A	Output 1&2 - 0 to 30V, 6A - 2X Output 3 fixed - 5V / 3A -1	Testing
10	Arbitrary Function Generator	Tektronix AFG3022C	Arbitrary waveforms- 14 bits, 250 MS/s, 1or2 GS/s,	Testing
11	Mixed Signal Oscilloscope	Keysight MSOX3024T	Bandwidth-100 to 200 MHz,	Testing
12	Voltage Differential Probe	Keysight N27918	Bandwidth - 25 MHz	Testing

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13	Rework Station Set (3 Channel)	Weller WR300M	Channel Power - 360 W for horizontal applications	Rework
Design Center - Software				
14	Design Software AutoCAD, SolidAorks			3D Modelling 2D Drafting
15	Design Software Ansys, Cadence			3D Modelling Simulation
Mechanical / Fabrication - Machine				
16	Laser Machine (MDF, Acralic, Cardboard)	SIL-1290 AccuCut	Table Size-1220x915x15 mm (L x W x H)	Cutting Engraving
17	Geared Lathe Machine (Metal & Non Metal)	MACpower Turbo LX-175	Length of Bed - 1375 mm Height of center - 175 mm Dist Btw Centre - 530 mm	Turning Parting/Facing Boring/Drilling Threading
18	Radial Drilling Machine (Metal & Non Metal)	SM Machine RC 25	Table - 205x205x285 mm Spindle Travel - 230 mm Max Drill - 30 mm	Drilling
19	Wooden Lathe Machine (Wood & Non Metal)	Jai Industry J-921	Length of Bed - 1829 mm Height of center - 203 mm	Turning Carving Boring/Drilling
20	CNC Lathe Trainer- (Acralic, Aluminium)	Square System SSMT-100	Cross Travel(x axis) - 80mm, Long Travel (z axis)-200mm,	Turning Parting/Facing Boring/Drilling
21	CNC Milling Trainer- (Acralic, Aluminium)	Square System SSMM-200	Cross Travel(x axis)-200mm, Y axis -150mm, Longi (z axis)-175mm,	Milling Engraving
22	Arc Welding Machine	JK ARC MMA QN5.0 T	Current Output - 400 A Rod can be Used - 2 to 5 mm	Welding
Mechanical / Fabrication - Power Tool				
23	Hand Drill Machine	Bosch	RPM- 2600 Drill Size - 13 mm	Drilling
24	Metal Cut-off Saw	Bosch	RPM- 32800 Blade dia 355 + 25.4 mm	Cutting
25	Portable Jig saw	Bosch	Stroke Length - 20mm Cutting size - 70 mm (wood), 13mm (Al)	Cutting

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26	Portable Angle Grinder	Bosch	RPM- 11000 Disc dia - 102 mm	Grinding
27	Die/Straight Grinder	Bosch	RPM- 28000 Collet Dia - 8 mm	Grinding
28	Wheeled Bench Grinder	Bosch	RPM- 3000 Grindig Weel Size -	Grinding
29	Portable Impact Wrench	Lepon	Torque - 300 Nm Socket Size - M10 to M18	Tighting

Mechanical / Fabrication - Measurement Tool

30	External Micrometer	Baker	Range - 0-25 mm Reading -0.01 mm	Measuring
31	External Micrometer	Baker	Range - 25-50 mm Reading -0.01 mm	Measuring
32	Disc Micrometer	Baker	Range - 0-25 mm Reading -0.01 mm	Measuring
33	Depth Micrometer	Baker	Range - 0-100 mm Reading -0.01 mm	Measuring
34	Digital Vernier caliper	Baker	Range - 0-300 mm Reading -0.01 mm	Measuring
35	Plunger Dial Gauge with Magnetic stand	Baker	Range - 0-10 mm Reading -0.01 mm	Measuring
36	Vernier height gauges	Baker	Range - 0-300 mm Reading -0.02 mm	Measuring

Mechanical / Fabrication - Measurement Tool

37	Steel Rule	Kristeel	Range - 0-300 & 0-600 mm Reading -0.1 mm	Measuring
38	Measuring Tape 5M	Freeman	Range - 0-5000 mm Reading -0.1 mm	Measuring
39	Vernier bevel protractor.	Kristeel 1501	Degree 0° to 180°	Measuring
40	Thread / Screw pitch gauge	Kristeel MI No. 2309	Metric - 60° Leaves - 52	Measuring
41	Feeler gauge 10 blades	Kennedy KEN-518- 0710	No of blade - 10 blades Size - 0.05 to 0.8 mm	Measuring
42	Wire gauge, metric standard.	kristeel SWG 1505	SWG - 1 to 31 Metric - 60°	Measuring
43	V-Block Magnetic with clamps	Samrat	Size - 150 x 95 x 75 mm	Measuring
44	Angle plate	Apex	Size -200 x 150 X 125mm.	Measuring

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45	Try Square blade with scale	Samrat	Size - 150 mm	Measuring
Mechanical / Fabrication - Metal / Wooden Cutting Tools				
46	Hacksaw frame for Metal	Netco	Length - 300 mm	Cutting
47	Mini Hacksaw frame for wood	Netco	Length - 150 mm	Cutting
48	Wooden Handsaw	Metro	Length - 15" / 381 mm Length - 20" / 508 mm	Cutting
49	Bevel Edge chisel with handle	Taparia	6, 9,12, 19, 25, 30, 38, 51 mm	Cutting
50	Firmer Chisel with handle	Taparia	6, 9, 12, 16, 18, 25 mm	Cutting
51	Iron Jack Plane	Inder No.4 250 mm	Length - 10" / 254 mm	Cutting
52	Smoothing Plane	Suman No.5 355 mm	Length - 14" / 355 mm	Cutting
53	Ball pein Hammer with wood Handle	Taparia	Weight - 16oz	Fitting
54	Claw Hammer with wooden Handle	Taparia	Weight - 16oz & 20oz	Fitting
55	Soft face Hammer wooden handle,	Taparia	Size - 35 mm	Fitting
56	Needle file set (X1 & X2)	Black Decker	Size - 174 mm	Fitting
57	Flat file Bastard/second/smooth cut with handle	Taparia	Length - 8" / 200 mm	Fitting
58	Square file Bastard /second / smooth with handle	Taparia	Length - 8" / 200 mm	Fitting
59	Triangular file Bastard /second / smooth with handle	Taparia	Length - 8" / 200 mm	Fitting
60	Half Round file Bastard /second / smooth with handle	Taparia	Length - 8" / 200 mm	Fitting
61	Round file Bastard /second / smooth with handle	Taparia	Length - 8" / 200 mm	Fitting
62	Taps and Dies complete set	Apex Alps	Size - 5 to 30 mm x 1.5 mm	Drilling
63	HSS Drill bits twist Taper Shank	Addison	Size - 5 to 30 mm x 1.5 mm	Drilling

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64	Reamer Taper shank Set	Addison	Size - 5 to 25 mm	Drilling
65	"C" Clamp	Tapria 1261-4	Size - 100 & 150 mm	Fitting
Mechanical / Fabrication - Tools				
66	Nose plier straight	Tapria 1420-6	Size - 150 mm	Holding & Tighting
67	Pliers combination	Tapria 1621-6	Size - 150 mm	Holding & Tighting
68	Screw driver set flat type	Tapria 1014	Size - 150 mm	Holding & Tighting
69	Screw driver set phillips type	Tapria 1017	Size - 150 mm	Holding & Tighting
70	Allen key Set L type	Tapria	Size - 1.5 to 10 mm	Holding & Tighting
71	Allen key Set T type	Tapria TAKMG	Size - 1.5 to 10 mm	Holding & Tighting
72	Ring spanner set	Tapria 1812 N	Size - 6 to 32 mm	Tighting
73	Double open spanner set	Tapria DEP 12	Size - 6 to 32 mm	Tighting
74	Adjustable Spanner	Tapria 1171 N	Size - 200 mm	Tighting
75	Interchangeable ratchet socket	Tapria CS 14 HXL	Size - 8 to 32 mm	Tighting
<p><i>Prepared By : Lab Manager</i> <i>Approved By : CEO/Director</i></p>				