

LIST OF LABS (DAE Wool Tech.)

LIST OF MACHINERY / EQUIPMENT TOOLS

Important Note: Preferably, all the equipment and machines should be small/lab scale/Models

Textile Spinning Lab

Sr. No.	Items	Quantity
1	Wool sorting machine	1
2	Wool scouring and drying machine	1
3	Wool carbonizing and drying machine	1
4	Wool mechanical carbonizing machine	1
5	Bale/fiber opening machine	1
6	Medium Opening & Cleaning machine	1
7	Fine Opening machine	1
8	Dust cleaning machine	1
9	Waste filter setup	2
10	Chute Feed Line	1
11	Fiber & Impurity Analyzer	1
12	Flat Grinding Machine	1
13	Carding machine	2
14	Wool tandem card machine	2
15	Drawing Finisher single delivery	1
16	Wool Gilling machine	1
17	Lap Former	1
18	Comber	1
19	Simplex Frame	1
20	Simplex Frame for woolen	1
21	Ring frame with all attachments	1
22	Ring frame for woolen	1
23	Cone Winding	1
24	Doubling & Twisting machine	1
25	Rotor Spinning Frame	1
26	Air vortex spinning frame	1
27	Cots Grinding machine	1
28	Top Roller Eccentricity Tester	1
29	Weight Balance (Mechanical)	1
30	Weight Balance (Electronic)	1
31	Hardness meter	2
32	Compressed air meter	2
33	Pneumatic pressure meter	2
34	Stroboscope	1
35	Specialty yarn machines	2

36	Laces formation machine	1
37	Elastic formation machine	1
38	Air covering machine	1
39	Compressor 10 KW	1

Textile Weaving & Knitting Lab

Sr. No.	Items	Quantity
1	Fabric Cutter	1
2	Tensioner Meter	1
3	Refracto meter	1
4	Hygro meter	10
5	Techo meter digital	1
6	Vibration meter	1
7	Knotting M/c	2
8	Splicing machine	2
9	Water jet loom	1
10	Air blower	1
11	Grinder small	1
12	Vacummax	1
13	Projection microscope	1
14	Shuttle loom Dobby	1

15	Power Loom (Lab Model required) Semi Automatic	1
16	Power Loom(Lab Model Required) Automatic with Speed adjustable	1
17	Jacquard machine	1
18	Sizing machine	1
19	Card Punching Machine	1
20	Lacing Machine	1
21	Projectile Loom	1
22	Rapier Loom	1
23	Air Jet Loom	1
24	Paper punching for Rapier	4
25	Leno winder for Air Jet	2
26	Knitting Machine Interlock	1
27	Knitting Rib Latest	1
28	Knitting Jacquard	1
29	Flat Knitted machine	1
30	GSM cutter	1
31	Pick glass	25
32	Micro Profile Projector	1
33	Reeds	15
34	Trolley for Yarn movement	1
35	Dobby Box	1
36	Warp Knitting Machine for Narrow Fabric	1
37	Lab scale woolen knitting machine	1
38	Braiding machine	1

39	hand Flat knitting machine	1
40	Gloves knitting machine	1
41	Socks knitting machine	1
42	Compressor 20 KW	1

Textile Dyeing & Finishing Lab

Sr. No.	Items	Quantity
1	Mechanical stirrer	1
2	Lab scale heating bath	1
3	lab scale weighing balance	1
4	lab scale padder	1
5	lab scale steamer	1
6	Lab scale oven	1
7	H / T Sample Dying Machine	1
8	Jigger dyeing machine	1
9	Winch dyeing machine	1
10	Jet dyeing machine	1
11	Lab Scale Blocks for printing	1
12	Lab Scale Printing Table	1
13	Package dyeing machine	1
14	Lab Scale Light Box	1
15	Flat bed screen printing machine	1
16	Digital Printing Machine	1
17	Lab scale stenter machine	1
18	Lab scale calendaring machine	
19	Lab scale coating machine	1
20	Lab Scale Sanforizing Machine	1
21	Lab Scale raizing Machine	1
22	lab scale weighing balance	1
23	Digital Lux Meter	1
24	Viscometer	1
25	pH meter	1
26	Thermometer	1
27	Fire extinguisher	1
28	Lab scale woolen milling machine	1
29	Lab scale woolen fabric washing machine	1
30	Lab scale tumble dryer machine	1
31	Lab scale woolen fabric drying machine	1

32	Lab scale woolen dyeing machine	1
33	Lab scale woolen raising machine	1
34	Lab scale woolen fabric pressing machine	1
35	Lab scale fabric stitching machine	1
36	Cone dyeing machine	1
37	Compressor 10 KW	1
38	Hotplate magnetic stirrer	5

Textile Pattern & Garments Lab

Sr. No.	Items	Quantity
1	Single Needle Lockstitch sewing machines	25
2	Vacuum Ironing Tables	3
3	Industrial Steam Iron	3
4	Single Needle Lock Stitch Machine	10
5	Double Needle Lock Stitch Machine	10
6	Over Lock Machine	10
7	Chain Stitch Sewing Machine	10
8	Bartake Sewing Machine	10
9	Button Sewing Machine	10
10	Digital Heat Press Machine	2
11	Automatic Pattern Sewing Machine	2
12	Elastic Attaching Machine	2
13	Post Bed Lockstitch Machine	2
14	1 Needle 2 Thread Lock Stitch sewing machine	3
15	2 Needle 5 Thread Safety Stitch sewing machine	1
16	2 Needle 4 Thread over lock sewing machine	3
17	1 Needle 2 Thread over lock sewing machine	1
18	3 Needle 5 Thread Interlock sewing machine	1
19	3 Needle 5 Thread Interlock sewing machine	2
20	3 Needle 5 Thread Interlock sewing machine	1
21	3 Needle 5 Thread Interlock sewing machine	1
22	12 Needle 24 Thread Chain stitch sewing machine	1
23	2 Needle 4 Thread Chain stitch sewing machine	1
24	1 Needle 1 Thread Blind Stitch sewing machine	1
25	Cloth Cutting Machine (8")	1
26	Tape cutting machine	1
27	Button Holing Machine	1
28	Sample Embroidery Machine	1
29	Buck Press Machine	1
30	Fabric Label Printer	1
31	Button Hole Machine	1
32	Unit Production System	1
33	3D Body Scanner	1
34	Female Mannequins	10

35	Male Mannequins	10
36	Inches tape	20
37	Set squares	50
38	French Curves	50
39	Pattern sheets	As per requirement
40	Needles of machines	As per requirement
41	Patten Tables	10
42	Compressor 10Kw	1
43	Light Board Tables	10

Textile Testing & Quality Control Lab

Sr. No.	Items	Quantity
1	Air Conditioner Testing Lab. 2tons	4
2	Yarn Strength Tester	1
3	Yarn Tension Meter	1
4	Lacing Machine	1
5	Martindale Pilling Tester	1
6	Light Fastness Tester	1
7	Launder-o-Meter	1
8	Washing/Laundering Machine	1
9	Spectrophotometer for whiteness measurement	1
10	Perspirometer	1
11	Crock Meter	1
12	Fabric Stiffness Tester	1
13	GSM cutter	1
14	Moisture Regain Oven	1
15	Vertical Flame Retardency Tester	1
16	Spray Rating Tester for water Repellency	1
17	Crease Recovery Tester	1
18	Day Light Box	1
19	Moisture Meter	1
20	Combined Lab Oven	1
21	Digital Lux Meter	1
22	Visco Meter	1
23	Stirrer	1
24	ICI M & S Pilling Tester	1
25	Fabric Inspection Table	1
26	Shirley 4 feet Crimp Tester	1
27	High Volume Instrument (HVI)	
28	Projection Microscope	1

29	Optical Microscope	1
30	Wrap reel Hand Operated	1
31	Wrap reel automatic	1
32	Twist Tester Hand Driven	1
33	Twist Tester Automatic	1
34	Pressley Cotton Fiber Strength Tester	1
35	Precision Balance	1
36	Wira Cotton Fineness Meter	1
37	Hatra Crimp Rigidity Apparatus	1
38	Stereo Microscope	1
39	Comb fiber Length Tester	1
40	Electric Moisture Meter	1
41	P.H Meter	2
42	Fabric Strength Tester with Computer	1
43	Yarn Quadrant Balance	1
44	Manual Fabric Sample Cutter	1
45	Tear Strength Tester	1
46	Yarn Count Balance	1
47	Burst Strength Tester	1
48	Thickness Gauge	1
49	Shore Hardness Tester	1
50	Electronic Yarn Count Balance with Computer	1
51	Uster Yarn Evenness Tester	1
52	Uster Classmate Yarn Tester (For Yarn Testing Lab) Swiss Made	1
53	Lea Tensile Strength Tester	1
54	Fire Extinguisher	1
55	Humidifier	1
56	Neps Counting Plates	2
57	Pick Counter 1" Square	10
58	Compressor 10 KW	1
59	Advance fiber investigation system	1

Computer/IT Lab

Sr. No.	Items	Quantity
1	Computer Systems	50
2	Computer Tables and Chairs	50
3	Printer (Laser)	2
4	Windows and important Softwares	50
5	Textile design softwares	50

6	Scanner (Flatbed)	2
7	Internet Connection (at least 100 MB/S)	1
8	Entry Level Server (As per TEVTA specification)	As per requirement
9	Network Equipment (As per TEVTA specification)	As per requirement
10	Wifi routers	10
11	Projectors	10
12	Laptop	As per requirement