

LIST OF EQUIPMENTS IN CARPET MECHANICAL LAB

S. No.	Equipment Name	Quantity	Make	Object
1.	Electronic Twist Tester	02	SDL & MAG	Determination of twist of textile yarn.
2.	Motorized Wrap Reel	02	ALKA & MAG	Preparation of skein of textile yarn.
3.	Martindale Abrasion Tester	01	SDL	Determination of abrasion loss of textile fabrics.
4.	ICI Pilling Tester	01	SDL	Determination of pilling in textile fabrics.
5.	Universal Tensile Tester	01	SDL	Determination of strength of textile fabrics & textile yarns.
6.	Auto Sorter Balance	01	Mettler Toledo	Determination of weight of textile fibers, yarns & fabrics.
7.	Projection Microscope	02	Projectina & Erma	Identification of textile fabrics.
8.	XenoTester Alpha	01	ATLAS	Determination of color fastness to light with the help of xenon arc fading lamp.
9.	WIRA Fibre Fineness meter	01	WIRA	Determination of Fibre diameter of textile fabrics.
10.	Bayer Sorter	01	MAG	Determination of Fibre length of cotton fibers.
11.	Wrap Block	02	MAG	preparation of lea for yarn count.
12.	MAG Lea Strength Tester	01	MAG	Determination of count strength products of textile yarns.
13.	Device for Preparation for Yarn Appearance Board	01	MAG	Determination of defects in textile yarn.
14.	Fabric Stiffness Tester	02	MAG	Determination of stiffness of textile fabrics.
15.	MAG Crease Recovery Tester	01	MAG	Determination of crease angle of textile fabrics.
16.	Indigenous Pilling Tester	01	MAG	Determination of pilling in textile fabrics.
17.	Condition Chamber	01	PRECISION	For conditioning of textile materials.
18.	Fabric Tearing Strength Tester	01	MAG	Determination of tearing strength of textile fabrics.
19.	ATIRA Air Flow Meter	01	---	Determination of maturity & fineness of textile fibers.
20.	Stelometer	01	----	VP Foundry Coimbatore
21.	Floor radiant Pannel Tester	01	FNA Instruments Faridabad	Determination of critical heat flux in W/Cm ² of textile floor coverings and building materials.

22	Fabric Flammability Tester	02	----	Determination of greatest effected area using small source of ignition on textile floor coverings.
23	Fabric Bursting Strength Tester	01	MAG	Determination of air pressure strength of fabrics & packaging materials.
24	Single Yarn Strength Tester	02	---	Determination of single yarn strength of textile yarns.
25	Quadrant Balance	01	MAG	Determination of direct count of textile yarns.
26	Mechanical Twist Tester (Single Yarn)	01	---	Determination of twist in single yarn of textile yarns.
27	Mechanical Twist Tester (Double Yarn)	01	---	Determination of twist in plied yarn of textile yarns.
28	Single Pan Digital Balance (0-210 gram)	01	----	Determination of weighing of textile materials.
29	Single Pan Digital Balance (0-30 Kg.)	01	---	Determination of weighing of textile materials.
30	Bundesman Water Repellency Tester	01	----	Determination of water repellency of textile materials.
31	WIRA Fiber Diagram Machine	01	WIRA	Determination of mean Fibre length of textile fibers with respect in HAUTER & BARBE
32	Drape Meter	01	----	Determination of drape properties of textile materials.
33	Muffle Furnace (0-1200 °C)	01	BABA GURDITTA	Used for heating the hexagonal nuts at 900°C, for hot metal nut method flammability test of textile floorcoverings.
34	SDL & WIRA Carpet Wear & Abrasion Tester	02	SDL & WIRA	Determination of weight loss of textile floorcoverings.
35	Carpet Dynamic Loading Machine	01	SDL	Determination of thickness loss under dynamic loading of textile floor coverings.
36	Carpet Flammability Tester	02	---	Determination of flammability properties of textile materials under vertical and inclined condition.
37	Carpet Static Loading Machine	01	SDL	Determination of thickness loss after prolonged, heavy static loading on textile floor coverings.
38	SDL & WIRA Carpet Thickness Gauge & Compressibility Tester	02	SDL & WIRA	Determination of thickness, compression and recovery characteristics of textile floor coverings.
39	WIRA Hexapod Tumbler Tester	01	WIRA	Determination of production changes in appearance by mean of hexapod tumbler

				of textile floor coverings.
40	SDL Carpet Pill Fuzz Tester	01	SDL	Determination of pilling and fuzzing characteristic of textile floor coverings.
41	WIRA Tuft Withdrawal Tensile Strength Tester	01	WIRA	Determination of tuft withdrawal and tuft bind force of textile floor coverings.
42	IWS Pile Height Gauges	01	IWS	Determination of pile height of textile floor coverings.