Quotation Invited

(for setting-up an "**Advanced Apparel Manufacturing & Testing Laboratory")**

Dear Vendor,

Our institute primarily focuses on women-oriented vocational trades, with the **apparel sector** being one of the leading and rapidly growing areas of employment and entrepreneurship.

To ensure that our trainees acquire **up-to-date, industry-relevant skills and practical knowledge**, the institute intends to upgrade its existing Apparel Lab with the latest machinery, tools, and equipment used by the industry. This initiative will enable our trainees to gain hands-on experience with modern technologies and enhance their confidence and employability.

Accordingly, the institute has identified and listed the required machinery, tools, and equipment for establishing an **Advanced Apparel Manufacturing Lab**.

You are requested to submit your **detailed quotation, technical specifications, and recommendations/suggestions** for the proposed machinery, tools, and equipment at the earliest on or before 31-08-2026

Your valuable suggestions and technical inputs will also be appreciated in helping us establish a modern, industry-oriented training facility.

Dated: 19-08-2026

Principal/HOO
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Apparels Lab Setup Machine Details

S.No.	Item	Description	Quantity	Use of Machine / Working
1	Premium Fully Pinnable Female Dress Form Size 8	Dummy	3 Pcs	Standard baseline female dummy for draping and medium fitting sample preparation. Cast iron base with rollers.
2	Premium Fully Pinnable Female Dress Form Size 12	Dummy	1 Pc	Standard large size female dummy for plus-size garment pattern grading and silhouette variations.
3	Premium Fully Pinnable Male Dress Form Size 38	Dummy	1 Pc	Studio-grade pinnable male dummy with canvas cover for men's wear fitting and styling prototypes.
4	Premium Fully Pinnable Kids Dress Form Size 6	Dummy	1 Pc	Pinnable foam child dummy for kid's wear line measurements and pattern adjustments.
5	Vacuum Table + Press Table + Iron	Equipments	1 Sets	Industrial steam line pressing station that quickly extracts moisture and creases from finished garments.
6	5 HP Silent Air Compressor with fitting	Equipments	1 Pc	As per specification
7	Industrial Sewing Folders & Work Tools	Equipments	5 Sets	As reqd.
8	Pick glass	Equipments	10pcs	Manually counts the exact number of warp/weft yarns or stitch loops per inch in a fabric.
9	Instructor Table, 2 Ergonomic Chair, visitor chairs 3 pcs	Furniture	One set	As reqd.
10	Industrial Heavy Duty Sewing Stools	Furniture	20 Pcs	As reqd.
11	Heavy Double-Door Storage Almirahs	Furniture	2 Pcs	As reqd.
12	Pattern Plotter 1300mm with software and 4 licence	IT items	1 Pc	Prints full-scale digital marker layouts and garment patterns up to 1300mm width continuously.
13	Computer set with highend graphic card	IT items	8 pcs	Workstation designed to smoothly process and render heavy apparel CAD graphics and pattern software.
14	Epson SureColor SC-F530 Sublimation Printer	IT items	1 Pc	Compact 24-inch professional textile desktop printer with PrecisionCore head for fabric design transfers. Warranty supported when using genuine ink.
15	Smart Digital Overhead Projector/Intractive panel	IT items	1 Pc	As reqd.
16	Strength Tester	Mach	1 Pc	Measures the breaking strength and durability of yarn and fabric samples.
17	Tensile Tester	Mach	1 Pc	Tests fabric elongation, elasticity, and maximum load-bearing limits.

18	Burst Tester	Mach	1 Pc	Determines the multi-directional bursting strength and limit of knitted fabrics.
19	Pilling Tester	Mach	1 Pc	Evaluates fabric resistance to forming fuzz balls and surface pills due to friction.
20	Fabric Inspection machine 48" to 54" width	Mach	1 Pc	Unrolls, inspects, and flags weaving or knitting defects within 48" to 54" fabric rolls.
21	Colour Tester (Spectrophotometer) with 1 computer set, software and 1 licence	Mach	1 Pc	Digitally measures, analyzes, and matches exact fabric color shades with software precision.
22	GSM Checking Machine	Mach	1 Pcs	Precisely cuts and calculates fabric weight per square meter using a GSM cutter and weighing scale.
23	Crockmeter	Mach	1 Pc	Tests color fastness and dye transfer when fabric is subjected to dry or wet rubbing.
24	Digitizer Board	Mach	1 Pc	Converts physical hard-paper garment patterns into accurate digital blocks on a computer.
25	Fusing Machine 450 mm	Mach	1 Pc	Thermally bonds fusible interlining sheets to garment parts like collars and cuffs up to 450 mm width.
26	Computerized 12-Needle Embroidery Machine with computer set and 2 licence	Mach	1 Pc	Executes multi-colored, complex embroidery designs automatically based on programmed computer data.
27	Pattern Machine	Mach	1 Pc	Stitches complex programmable structural paths, decorative shapes, and brand labels automatically.
28	Direct Drive Single Needle Machine	Mach	5 Pcs	Performs high-speed plain lockstitch garment assembly with low vibration and high energy efficiency.
29	Double Needle Lockstitch	Mach	1 Pcs	Stitches two perfectly parallel lines simultaneously for pockets, seams, and reinforcement.
30	2 Needle, 4 Thread Overlock	Mach	1 Pcs	Seams, overlocks, and joins stretchable knit panels safely with flexible edge-finishing.
31	2 Needle, 5 Thread Overlock	Mach	1 Pcs	Seams and trims heavy woven denim or twill panels simultaneously with a secure chain stitch.
32	SNLS Machine with Edge Cutter	Mach	1 Pcs	Sews a single needle lockstitch while cleanly shaving excess fabric seam allowance in one step.
33	Chain Stitch Machine	Mach	1 Pcs	Produces strong, highly flexible multi-loop chain-like stitches for denim and activewear.
34	Zigzag Machine	Mach	1 Pcs	Performs intricate decorative stitch paths, appliqué seals, and elastic binding attachments.
35	Feed off the Arm Machine	Mach	1 Pc	Creates specialized lap-felled circular seams on heavy tubular parts like jeans and shirt side seams.

36	Elastic Attaching Machine	Mach	1 Pc	Joins elastic rings directly onto circular activewear waistbands or underwear lines uniformly.
37	4 Needle Chain Stitch Machine	Mach	1 Pc	Applies multi-row parallel chain stitch anchoring inside wide elastic folds without fabric puckering.
38	Multi Needle Shirt Placket Machine	Mach	1 Pc	Ensures continuous uniform formation of front shirt button/eyelet bands with multiple parallel stitch lines.
39	Flat Bed Cover Stitch Machine	Mach	1 Pcs	Hems flat open edges on casual t-shirt hemlines and sleeve ends cleanly with top-cover stitches.
40	Flat Lock Cylinder Bed Machine	Mach	1 Pc	Sews flat, skin-friendly, irritation-free seams over circular sportswear and underwear joints.
41	Computer Controlled Bartack Machine	Mach	1 Pc	Applies high-density localized safety stitch reinforcement on stress points like pockets and belt loops.
42	Computer Controlled Button Stitch Machine	Mach	1 Pc	Sews various types of garment buttons automatically with uniform thread anchoring and consistency.
43	Computer Controlled Button Hole Machine	Mach	1 Pc	Cuts and sews precise high-density purl buttonholes on shirts, coats, and trousers automatically.
44	All machines amc for at least 5 years	AMC	All Equipments	Warranty+3 year AMC+2 years extended
45	Lab set up with bush bar and electrical parts	Lab setup	1 Job	Lab setup
46	Ceramic Magnetic Whiteboard	Lab setup	1 Pc	Lab setup
47	Lab AC required 2 ton	Lab setup	3 Nos	Lab setup
48	Hands-On Instructor Training	Training	1 Job	Mandate hands-on training for staff
49	Raw Material for all machines for at least 6 months	Raw Material	6mths backup	*All for the above machines/lab
	Pl. inform, if any other Machine /Tools/Equipments is also need. May visit the institute for any Query.			

***Raw materials needed appended**

*Raw Materials needed for all for the above machines/lab

Raw Material Requirement for Machines/Tools/ Lab			
S. No.	**Machine / Equipment**	**Raw Material / Consumables**	**Suggested Quantity (3 Months)**
1	Strength Tester	Standard Fabric Test Samples	100 Nos.
		Calibration Fabric	5 Sets
2	Tensile Tester	Fabric Test Samples	100 Nos.
		Grip Pads	2 Sets
3	Burst Tester	Fabric Test Samples	100 Nos.
		Rubber Diaphragm	2 Nos.
4	Pilling Tester	Standard Wool Abrasive Fabric	20 Sheets
		Polyurethane Tubes	4 Sets
5	Fabric Inspection Machine	Practice Fabric Rolls	20 Rolls (25 m each)
6	Colour Spectrophotometer	Colour Calibration Tile	1 Set
		Colour Swatch Book	5 Sets
7	GSM Checking Machine	GSM Cutter Blades	10 Nos.
8	Crockmeter	Standard Crocking Cloth	100 Pieces
		Grey Scale	2 Sets
9	Digitizer Board	Pattern Paper Rolls	20 Rolls
		Masking Tape	20 Rolls
10	Pattern Plotter	marker/Plotter Paper Rolls	10 Rolls
		Pattern Paper Rolls	10 Rolls
		Ink Cartridge Set	6 Sets
11	CAD Computers	CAD Software License	As Required
12	Fusing Machine	Fusible Interlining	100 Metres
		Teflon Sheet	2 Nos.
13	Embroidery Machine	Embroidery Thread	100 Cones
		Bobbin Thread	50 Cones
		Embroidery Needles	200 Nos.
		Backing Paper	20 Rolls
		Water Soluble Film	10 Rolls
14	Industrial Sewing Machines (15-31)	Industrial Needles (Mixed Sizes)	1000 Nos.
		Polyester Sewing Thread	300 Cones
		Bobbins	200 Nos.
		Machine Oil	21 Litres
		Overlock Knife	20 Sets
15	Button Machine	Buttons (Mixed)	5000 Nos.
16	Button Hole Machine	Needles	100 Nos.
17	Sublimation Printer	Sublimation Paper	20 Rolls
		CMYK Ink Set	12 Sets
18	Dress Forms	Dressmaking Pins	20 Boxes
19	Vacuum Press Table	Teflon Shoe Cover	2 Nos.
		Iron Cleaning Stick	10 Nos.