	Name of the Trade		Textile Wet Processing Technician	
S.No.	Name of the item	Std List No.	Type of the item (Tool / Equipment / Machinery)	Specifications
(i)	(ii)	(iii)	(iv)	(v)
1	Cement or iron tanks for storing water (1200x1200x1200mm)	1	Tool Eq./ Machinery	Iron tanks Size Length 1200 xWidth1200 xHieght1200mm with lid,Iron sheet 4mm thick ,fitted with 1.5"angle frame.
2	Thermometer ranging 0-110°C and 0-300QC	2	Tool Eq./ Machinery	0 -110° C,With Enviro-Safe Fill, -10 to 110°C, 200mm Length, Full Accurate & clear glass. 0-300O C Total length 300mm.Graduation: 1 °C. Full Accurate & clear glass.
3	Wooden vats 2100x750x600mm height	3	Tool Eq./ Machinery	Height - 2100x750x600mm(inside size) Made from Sheesham wood 1.5" thick to used.
4	Electric water/heater (GiserJ 45 litres	4	Tool Eq./ Machinery	Star Rating:5 Star Rated , Installation:Horizontal , Body Type:Metal , Element Wattage:2 Kw , Tank Capacity:50 L Height:350 , Width:950 , Depth:370 , Rated Pressure:0.7 MPA
5	Water bath for 6 dye pots with electrical heating and temperature control	5	Tool Eq./ Machinery	High precision, Thermostatically controlled, Double walled. Glass window on two opposite sides contact thermometer with relay, complete with stirrer.Working chamber size Brass/ Stainless1.425x250x225mm (17"x10"x9")2.450x375x375mm (18"x15"x15")3.600x450x450mm(24"x18"x18")
6	Stainless steel dye pots of 500 ml each (40 Pes)	6	Tool Eq./ Machinery	Made of stainless steel 316, Capacity 500ml
7	Yam reeling arrangement (one big and one small)	7	Tool Eq./ Machinery	1.Wrapping simultaneously 7 or 10 yarn hanks. Complete with support creel and double-bar tensioner. Equipped with pre-determined digital counter (reel turns from 1 to 999). Speed 150 mt/min. The moveable arm. Steel-Aluminium frame. **DESCRIPTION :-** Electronic Wrap Reel for yarns with 1 metre reel circumference, equipped with digital speed counter. Automatic stop of the test. 2.Operation at the same time, 4 threads. Counter: 0-9999 times, reads the revolutions directly Circumference: Generally 1 M or 1.5 Yard per one turn, adjustable , Dimensions:80 x 43 x 65 cm.
8	Electronic Weighing balance with capacity 1 gm to 200gm and 5gm to 1kg.	8	Tool Eq./ Machinery	Rated Load: 200g ; Accuracy: 0.01g ; Power Supply: 2 x AAA batteries ; Display Type: LCD ; Type: Pocket Scale 2.Rated Load: 5g-5kg; Accuracy: 0.05g; Power Supply: With Adapter ; Display Type: LCD ; Accuracy Adjustable

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(i)	(ii)	(iii)	(iv)	(v)
9	Kit boxes with locks for keeping cloth /dyes etc.	9	Tool Eq./ Machinery	16 kit boxes per box size should be(Length 24",height 18",Depth 24" railing and handle) made of sheesam wood,1.5" thick to used
10	Prepared Screens for Printing for single colour with rubber squeeze	10	Tool Eq./ Machinery	Screen size 28 " x 39" 1.5" tick wood with screen printing cloth.Rubber squeezer 23" with wooden handle.
11	Small Capacity Electrode boiler (lab model)	11	Tool Eq./ Machinery	Optimum quality electrode steam boiler , fully automatic and equipped with special ampere-based water level controller, pressure controller and automatic blow-down.Safe to operate . 4ft (L) X 7 ft (H)With Low noise, Easy to clean and maintain, Easy to install.
12	Buckets (enamelled and plastics) 6 each, 10 litres	12	Tool Eq./ Machinery	1.Made from Sintex Fiber /First Class Plastic (No any Effect of Acid or Alkline) Capacity 10 Litre 2.Heavy Duty Enameled (No any Effect of Acid or Alkline) Capacity 10 Litre
13	Basins (enamelled and plastics) 4 in each lab.	13	Tool Eq./ Machinery	Heavy Duty Enameled (No any Effect of Acid or Alkline) Capacity 10 Litre 2.Made from Sintex Fiber /First Class Plastic (No any Effect of Acid or Alkline) Capacity 10 Litre
14	Wooden Almirah for dyes and chemicals	14	Tool Eq./ Machinery	Almirah size 72" x 36" x 20" with 5 selves made of sheesam wood,1.5" thick to used.
15	Scissors, Measuring Tape, Transparency Sheet	15	Tool Eq./ Machinery	Scissors size 10" with brass handles , Measuring tape 10' length., Transparency sheet size A4.
16	Inclined Table (1.5m length x 1.5 breadth 0.75 m depth) for screen and spray printing covered with PVC sheet and padded cloth	16	Tool Eq./ Machinery	Inclined Table (1.5m length x 1.5 breadth 0.75 m depth) for screen and spry printing covered with PVC sheet and padded cloth top made of wood and plain surface. Base frame made of steel (heavy duty)
17	Instructor's table and chair 1Set	17	Tool Eq./ Machinery	Instructor's table size 2.5' x 5' with 3 drawer one size with sun mica top base made of steel and cushion chair with arms
18	Scientific microscope (10 to 200 magnification)	18	Tool Eq./ Machinery	Scientific microscope (10 to 200 magnification),with double eye piece three adjustable lens reflection with electrical bulb.
19	Fibre staining solution and solvents for solubility tests for fibre identification	19	Tool Eq./ Machinery	Consumeable Item

S.No.	Name of the item	Std List No.	Type of the item (Tool / Equipment / Machinery)	Specifications
(i)	(ii)	(iii)	(iv)	(v)
20	Electric oven/ air circulating drying woven	20	Tool Eq./ Machinery	Temperature range ： 50～300℃ 2. Temperature Control Precision ： ±1℃ 3. Heating Apparatus ： 2 sets 4. Working Voltage ： AC220V/60HZ 5. Dimensions of working room ： 450×550×550mm(L×W× H) 6. Power: 6kw 7. Oven's dimensions: 600×920×820mm(L×W× H) 8. Weight: about 65kg 9. 4 shelf, stainless steel inner case. With blast drying device, Digital temperature controller, PID controlling temperature , Stainless steel inner working room
21	Lab model jigger machine	21	Tool Eq./ Machinery	Must be ideal for applications like scouring, bleaching and dyeing.Working width: 450 mm. , Suitable up to temperature of 95°C. ,Automated through Microprocessor Controller. Results can be reproduced and transferred on production machines. ,Dye liquor trough with 2 compartments for comparative results available as an option
22	Lab model padding mangle with one chamber hot air drying machine	22	Tool Eq./ Machinery	Can be used for dyeing, printing and finishing trials. Working width: 450 mm. Automated through Microprocessor Controller. Pneumatic loading of the bowl. Nip padding trough and doctor blades available as standard accessories. With Compensator for use in conjunction with Drying Curing and Setting Chamber , bowl padding mangle with central bowl of stainless steel (304 & 316) and coated with synthetic rubber of hardness 65/70, Bowl dia 120X500mm.Electric supply : 230V AC single phase, Load 1kg
23	High temperature (i.e. 130 degree C) glycerin bath lab dyeing machine for polyester dyeing with the dye pots.	23	Tool Eq./ Machinery	• Must be easy in operations, sophisticated in technology. • Ideally suited for dyeing up to temperature of 140°C., can also be used for dyeing under atmospheric conditions. • Must be easy in insertion and removal of beakers. • Must be easy closing and opening of beakers. • M:L ratio of 1:6. • Automated through Microprocessor . • Suitable for all types of fabrics and dyes. • Beakers available in 200ml. • Heating medium glycerin.

S.No.	Name of the item	Std List No.	Type of the item (Tool / Equipment / Machinery)	Specifications
(i)	(ii)	(iii)	(iv)	(v)
24	Crock meter	24	Tool Eq./ Machinery	Mild Steel body painted with metallic finish Diameter of Rubbing Finger : 16 mm Force on rubbing finger : 9N (917.43 g) Traverse of rubbing finger Ergonomic design for easy operation and maintenance Size of test specimen : 250 x 50 mm Size of Crocking Cloth : 50 x 50 mm With 2 Nos SS Spring Clip for holding crocking cloth With 2 Pack of Crocking Cloth (Pack of 100 Pcs) Preset counter digital type (for Motorized Model)
25	First Aid box	25	Tool Eq./ Machinery	20 individually wrapped sterile , adhesive dressings (assorted sizes) , 2 sterile eye pads , 4 individually wrapped triangular bandages (preferably sterile) , 6 safety pins , 6 medium sized individually wrapped sterile unmediated wound dressings (approx. 12cm × 12cm) , 2 large sterile individually wrapped unmediated wound dressings , (approx. 18cm × 18cm)1 pair of disposable gloves.
26	Fire extinguisher, (Acid type or as required)	26	Tool Eq./ Machinery	Capacity (in Kg) 5 , IS Specification 13849 Jet Range (In Mtrs.) 4-5 , Discharge Time (In Sec.) 15-20 Min. Discharge Quantity 85% , Seal of Aproval ISI Hydraulic Test Pressure of Cylinder (Kg./Cm2) 30 Discharge Outlet Direct Nozzle
27	Glass rods 200mm long, with ends rounded, thick quality, (10mm dia.)	27	Tool Eq./ Machinery	Length-200mm ,Dia 10mm with round ends.
28	Tables with glass top and 440-Watt tube light for exposure of Printing screen	28	Tool Eq./ Machinery	This ultra violet exposure unit has capacity for (1) 24" x 24" inch With 440 watt tube light exposer.
29	Twaddle - Hydrometers No. 1 to IV (full set)	29	Tool Eq./ Machinery	1 To 4 twaddle hydrometer made of borosilicate
30	Measuring cylinders capacity (1000, 500, 250, 100, 25, 10 ml)	30	Tool Eq./ Machinery	Made of Borosilicate Capacity: 10ml, 25ml, 100ml, 250ml, 500ml, 1000ml.
31	Monopan Lab-model Electronics balance having 200grm Capacity, With Accuracy of minimum: O.lgm	31	Tool Eq./ Machinery	With LCD screen display with a cover, easy to use Automatic calibration, count function, fault display function Accurate, rapid and steady weighing Capacity: 200gram with 0.1g accuracy.

S.No.	Name of the item	Std List No.	Type of the item (Tool / Equipment / Machinery)	Specifications
(i)	(ii)	(iii)	(iv)	(v)
32	Precision electronic weighing balance Accuracy minimum : 0.0 lgm	32	Tool Eq./ Machinery	With accuracy 0.01g., With LCD digital display, Easy to use.
33	Stainless steel vessels capacity (2 lits., 3 lits., 5 lits. With cover) 2 Nos.	33	Tool Eq./ Machinery	Made of Stainless steel 316 Capacity: 2ltr, 3ltr, 5ltr with covers.
34	34 Kerosene stoves (industrial types) - 4 in each lab. Or Gas cylinder and Gas Burners	34	Tool Eq./ Machinery	1.Capacity : 19 Kg commercial LPG filled with regulator and pipe 2.With 4 burners. S.S body,Stain proof, burners made of brass
35	Stainless steel rods 12 mm thickness with wooden handle 300mm length	35	Tool Eq./ Machinery	Made of S.S. 316, 12 mm thick, Length 300mm, With wooden Handle.
36	Bowls with rods for mixing dyes (Stainless steel) 500 ml	36	Tool Eq./ Machinery	1.Made of S.S. 316, Dia 6 inch Approx , Depth 3 inch Approx., 2. Made of S.S. 316, 3mm Thick, 300mm Long
37	Glass beakers capacity 100,250,400,500 ml. (Thick glass quality) Corning / Borosil	37	Tool Eq./ Machinery	Made of Borosilicate, Capacity: 100,250,400,500, ml
38	Steaming Chest (Cotteage type) Lab model 500 X 500 X 500 mm, or Lab model steamer	38	Tool Eq./ Machinery	1. Made of stainless steel except main frame. 2. P.I.D control temperature controller with digital indicator. 3. One set of hot air circulation fan and cooling fan. 4. Timer with digital indicator up to 9999 seconds. 5. Electrical heating speed 8°C/min 6kw. 6. Power connection 220V×50HZ×1Phase. 7. Steam consumption about 5KG/HR (indirect feeding to 15KG/HR direct feeding). 8. Dimension of tested sample 350×400mm. 9. With 4 sets of pin frames.
39	Pressure cooker (domestic type) 5 &10 lit. Capacity with stainless steel container	39	Tool Eq./ Machinery	1.Capacity: 5 Ltrs , Base flat diameter: 164 mm Base thickness: 3.25 mm ,Carton dimensions (WxDxH): 420 x 235 x 200 mm 2. Capacity: 10 Ltrs ,Base flat diameter: 208 mm Base thickness: 3.25 mm , Carton dimensions (WxDxH): 455 x 265 x 270 mm

S.No.	Name of the item	Std List No.	Type of the item (Tool / Equipment / Machinery)	Specifications
(i)	(ii)	(iii)	(iv)	(v)
40	Measuring pipette (Graduated)	40	Tool Eq./ Machinery	Made of Borosilicate, Higher accuracy, Shorter drain time, with circular graduation at the main points. Capacity: 10ml, 25ml and 50ml.
41	Measuring flasks with glass cork capacity 250ml, 500ml, 1000ml (for preparing standard solutions)	41	Tool Eq./ Machinery	Made of Borosilicate, Highly accurate, with cork, Capacity: 250 ml, 500ml, 1000 ml.
42	Asbestos sheets 250x100mm or 200x200mm	42	Tool Eq./ Machinery	Dimensons: 200 X 200mm Made of Pure Asbestos.
43	Wire gauges 150x150mm or 250x250mm	43	Tool Eq./ Machinery	Dimensiond: 250 X 250mm Made of Steel.
44	Test tubes (thick class) 150mm (glass)	44	Tool Eq./ Machinery	Made of Borosilicate, Length 150mm
45	Funnels 75mm dia. (glass)& 150mm dia. (glass)	45	Tool Eq./ Machinery	Made of borosilicate, Dia: 75mm & 150mm Made of borosilicate,Dia: 75mm & 150mm
46	Watch glasses (75mm dia.) & 150mm dia. (glass) for weighing dyes etc.	46	Tool Eq./ Machinery	Made of thick glass, Dia: 75mm & 150mm Made of thick glass, Dia: 75mm & 150mm
47	Plastic Spatulas (flat type) 150mm long	47	Tool Eq./ Machinery	Flat type Length : 150mm
48	Test tube holders 32 Nos.	48	Tool Eq./ Machinery	Must accept tubes of diameter 22 to 32mm, Length: 150 to 200 mm, Wooden handle.
49	Pair of tongs (copper or stainless steels)	49	Tool Eq./ Machinery	Made of Copper or Stainless Steels
50	Brushes for cleaning apparatus	50	Tool Eq./ Machinery	Good Quality, Set of different sizes
51	Plastic bottle with nozzles (spray bottles 500ml capacity) 16 Nos.	51	Tool Eq./ Machinery	Capacity-500ml, 1st quality Plastic.
52	Reflectance Spectro-photometer & P - IV computer, printer and associated colour-matching software.	52	Tool Eq./ Machinery	Which can analyze any sample, including optical components, thin film, glass, and plastics, regardless of shape, size, or composition. Latest version of computer and software with Color Laser printer.

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(i)	(ii)	(iii)	(iv)	(v)
53	MBTF - Light fastness tester	53	Tool Eq./ Machinery	Fully automated with PLC Standard Mercury-Tungsten 400W lamp Dual line LCD display Two digital timers for test timing and total lamp timing Test length selectable up to 500 hours with minutes resolution Water circulation jackets Four sample positions Automatic lid open detection
54	SASMIRA Lander-o-meter	54	Tool Eq./ Machinery	Temperatures up to 95°C.Stainless steel rotor holds five specimen containers on each of four sides and rotates at a constant 40 rpm (±2rpm). Containers are preheated in appropriate test solution. Stainless steel balls provide agitation during rotation. Containers are sealed with either a Neoprene rubber gasket or optional Teflon gasket. Digital cycle timer with automatic shutdown and audible warning.Constant temperature bath heated by stainless steel heater that provides a temperature rise rate of 2°C per minute. Bath temperature is maintained by and indicating controlling thermostat.A temperature safety switch is located inside the control cabinet to shut down the unit in case of overheating. A door safety witch automatically stops the rotor when the door is opened.
55	Grey scale (staining & loss of depth), and Blue wool standard cloth	55	Tool Eq./ Machinery	The color change scale consists of nine pairs of grey colored chips, from grades 1 to 5 (with four half steps). The staining scale consists of nine pairs of grey and white colored chips, from grades 1 to 5 (with four half steps).
56	Lab hank dyeing machine/Beaker dyeing open bath machine	56	Tool Eq./ Machinery	Ideal machine for dyeing of fabric.With rocking bars, apart from up-down motion, rotate at 70 RPM.Rocking bars stroke length can be adjustable between 25 mm to 50 mm.Number of beakers: 12S.S. cover plates provided for all beakers to avoid oxidation during dyeing & to prevent spillage of liquor.Automation through Microprocessor programmer.Special cages available as option for dyeing of loose stock.Dyeing temperature up to 95°C is possible.
57	Wooden A4 size frame for print screen making.	57	Tool Eq./ Machinery	Made from good Quality wood, Printing Size: A4.Screen Nylon Cloth made .
58	Nails and Coarse cotton twine threads, cello tape	58	Tool Eq./ Machinery	Consumeable Item

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(i)	(ii)	(iii)	(iv)	(v)
59	Sona-coat (Gelatin) or Polyvinyl alcohol gel	59	Tool Eq./ Machinery	Consumeable Item
60	Binder and Ammonium diachrometer (sensatizer)	60	Tool Eq./ Machinery	Consumeable Item
61	Plastic jars capacity 10-15 liters for storing chemicals	1	Tool Eq./ Machinery	Made of 1st Plastic.Good Quality with no effect of chemicals or acids, Capacity : 10-15 liter
62	2 Glass bottles with stopper 3 lit.	2	Tool Eq./ Machinery	With Tight Stopper to prevent leakage, Clear vision glass,Capaicity:3Liter
63	Glass jars with stopper 10-12 lits. 12 nos	3	Tool Eq./ Machinery	With Tight Stopper to prevent leakage,Clear vision glass,Capaicity:3Liter
64	Glass siphones for transferring acids/alkalis etc	4	Tool Eq./ Machinery	With Tight Stopper to prevent leakage, Clear vision glass,Capaicity: 10-12Litre
65	Rubber gloves (big size not medical type)	5	Tool Eq./ Machinery	Big size and long with no effect of heat & chemicals.
66	Gum boots	6	Tool Eq./ Machinery	Acid Alkali Proof, Heat Resistant, Knee Length
67	Reagent bottles capacity 200ml. with stopper for 2N standard solution on each table	7	Tool Eq./ Machinery	200ml, Transparent, Graduation 200ml, Made of Borosilicate.
68	Small water baths (copper) dia 150 - 200 mm.	8	Tool Eq./ Machinery	Digital temp. Indicator ,or Microprocessor PID Digital temp. controller.
69	Sand baths (iron) dia. 150mm (for direct heating on burner/stove etc.)	9	Tool Eq./ Machinery	Temperature-Adjustable,Latest version
70	Glass bottles (embered/dark coloured) 3 lits, (for storing chemicals which may be affected by light)	10	Tool Eq./ Machinery	Capacity: 3 lt, Color: Dark, Air tight lid
71	Pastle and mortars 150mm dia. Porcelain (for making powders 150 dia iron of solids)	11	Tool Eq./ Machinery	Dia :150mm ,Made of porcelain
72	Indicator bottles 50 ml capacity	12	Tool Eq./ Machinery	Capacity: 50mm, Made of First Class Plastic
73	Porcelain beakers 1 lit. capacity for preparing caustic soda solution	13	Tool Eq./ Machinery	Capacity: 1 Litre, Made of porcelain

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(i)	(ii)	(iii)	(iv)	(v)
74	Goggles for safety precaution while handling corrosive chemicals	14	Tool Eq./ Machinery	Good Quality With vision Clarity. Full Size.
75	Burette 50 ml capacity	15	Tool Eq./ Machinery	Made of Borosilicate, Highly accurate.,Capacity: 50 ml
76	Conical flasks 250 ml	16	Tool Eq./ Machinery	Made of Borosilicate, Highly accurate with graduation. Capacity: 250 ml