

Name of the Trade		Spining Technician		
S.No.	Name of the item	Std List No.	Type of the item (Tool / Equipment / Machinery )	Specifications
(i)	(ii)	(iii)	(iv)	(v)
1	Combination Plier 200 mm insulated	1	Tool	Combination Plier 200 mm insulated
2	Screw Driver 200 mm	2	Tool	Screw Driver 200 mm
3	Screw Driver 100 mm	3	Tool	Screw Driver 100 mm
4	Terminal Screw Driver	4	Tool	Terminal Screw Driver
5	Hammer Ball Pein (0.25 kg)	5	Tool	Hammer Ball Pein (0.25 kg)
6	Try Square (200 mm)	6	Tool	Try Square (200 mm)
7	File round (half) 2nd cut 250 mm	7	Tool	File round (half) 2nd cut 250 mm
8	File round 150 mm	8	Tool	File round 150 mm
9	Plumb Bob 115 gm.	9	Tool	Plumb Bob 115 gm.
10	Bar wood Mallet 1 kg (75 mm x 150 mm)	10	Tool	Bar wood Mallet 1 kg (75 mm x 150 mm)
11	Knife	11	Tool	Knife
12	Wood rasp file 250 mm	12	Tool	Wood rasp file 250 mm
13	Firmer chisel 12 mm	13	Tool	Firmer chisel 12 mm
14	Firmer chisel 6mm	14	Tool	Firmer chisel 6mm
15	Neon Tester	15	Tool	Neon Tester
16	Tenon saw 250 mm	16	Tool	Tenon saw 250 mm
17	File flat 25 cm. 2nd cut	17	Tool	File flat 25 cm. 2nd cut
18	File flat 25 cm. Smooth	18	Tool	File flat 25 cm. Smooth
19	Steel Rule 300mm to read Metric	19	Tool	Steel Rule 300mm to read Metric
20	Test lamp	20	Tool	Test lamp
21	Circlip Opener	21	Tool	Circlip Opener
22	Continuity Tester	22	Tool	Continuity Tester
23	Glouse	23	Tool	Glouse
24	Insulating Tape	24	Tool	Insulating Tape
25	Electrical Soldering Iron	25	Tool	Electrical Soldering Iron
26				
LIST OF SHOP OUT FIT				
1	Pliers side cutting 200 mm	1	Tool	Pliers side cutting 200 mm
2	Pliers flat nose 150 mm	2	Tool	Pliers flat nose 150 mm
3	Pliers round nose	3	Tool	Pliers round nose
4	Pliers long nose	4	Tool	Pliers long nose
5	Screw driver heavy duty 250 mm	5	Tool	Screw driver heavy duty 250 mm
6	Screw driver 7 mm x 300 mm square blade	6	Tool	Screw driver 7 mm x 300 mm square blade
7	Firmer Chisel 25 mm	7	Tool	Firmer Chisel 25 mm

8	Firmer Chisel 10 mm	8	Tool	Firmer Chisel 10 mm
9	Marking Gauge	9	Tool	Marking Gauge
10	Combination bevel Protractor	10	Tool	Combination bevel Protractor
11	Cold Chisel Flat 25 x 200 mm	11	Tool	Cold Chisel Flat 25 x 200 mm
12	Cold Chisel flat 18 x 200 mm	12	Tool	Cold Chisel flat 18 x 200 mm
13	Hammer Ball Pein 0.5 kg	13	Tool	Hammer Ball Pein 0.5 kg
14	Hammer Ball Pein 0.75 kg	14	Tool	Hammer Ball Pein 0.75 kg
15	Hammer Ball Pein 1 Kg	15	Tool	Hammer Ball Pein 1 Kg
16	Hammer Cross Pein 0.5 kg	16	Tool	Hammer Cross Pein 0.5 kg
17	Wall jumper octagonal 37mmx450mm, 37 mm x 600 mm	17	Tool	Wall jumper octagonal 37mmx450mm, 37 mm x 600 mm
18	Centre punch 100 mm	18	Tool	Centre punch 100 mm
19	File Flat 300 mm rough	19	Tool	File Flat 300 mm rough
20	File Flat 300 mm 2nd cut	20	Tool	File Flat 300 mm 2nd cut
21	File Flat 250 mm Bastard	21	Tool	File Flat 250 mm Bastard
22	File flat 250 mm smooth	22	Tool	File flat 250 mm smooth
23	File half round 300 mm 2nd cut	23	Tool	File half round 300 mm 2nd cut
24	File triangular 150 mm 2nd cut	24	Tool	File triangular 150 mm 2nd cut
25	Spanner double ended set of 6	25	Tool	Spanner double ended set of 6
26	Adjustable Spanner 350 mm	26	Tool	Adjustable Spanner 350 mm
27	Foot Print grip 250 mm	27	Tool	Foot Print grip 250 mm
28	Allen keys (Metric & Inches)	28	Tool	Allen keys (Metric & Inches)
29	Steel rule 300 mm	29	Tool	Steel rule 300 mm
30	Steel Measuring Tape (2m)	30	Tool	Steel Measuring Tape (2m)
31	Steel Measuring Tape (20 m)	31	Tool	Steel Measuring Tape (20 m)
32	Hacksaw frame Adjustable 200 mm to 300 mm	32	Tool	Hacksaw frame Adjustable 200 mm to 300 mm
33	Spirit level 300 mm	33	Tool	Spirit level 300 mm
34	Bench vice 150 mm	34	Tool	Bench vice 150 mm
35	Bench vice 100 mm	35	Tool	Bench vice 100 mm
36	Pipe Wrench (300 mm)	36	Tool	Pipe Wrench (300 mm)
37	Spanner (up to 32 mm)	37	Tool	Spanner (up to 32 mm)
38	Vernier Caliper	38	Tool	Vernier Caliper
39	Ring spanner	39	Tool	Ring spanner
40	12" grip Plier	40	Tool	12" grip Plier
41	Inner caliper	41	Tool	Inner caliper
42	Outer caliper	42	Tool	Outer caliper
43	Box spanner	43	Tool	Box spanner
44	Torque spanner	44	Tool	Torque spanner
45	File Swiss type needle set	45	Tool	File Swiss type needle set
46	Shore hardness tester for	46	Tool	Shore hardness tester for

47	Needle file	47	Tool	Needle file
48	Nylon hammer	48	Tool	Nylon hammer
49	Puller 2 arm, 3 arm	49	Tool	Puller 2 arm, 3 arm
50	Copper tube cutter	50	Tool	Copper tube cutter
51	Ratchet brace 6 mm capacity	51	Tool	Ratchet brace 6 mm capacity
52	Ratchet bit 4mm and 6 mm	52	Tool	Ratchet bit 4mm and 6 mm
53	Vernier Caliper 200mm (ordinary)	53	Tool	Vernier Caliper 200mm (ordinary)
54	Snips	54	Tool	Snips
55	Conduit Pipe die set	55	Tool	Conduit Pipe die set
<b>LIST OF EQUIPMENT SPINNING MACHINERY</b>				
1	Blow room (Miniature )	1	MACHINERY	<p>(1) Bale opener – Bale opener , suitable to open pieces of stock fibers taken from Bale and placed on feed lattice into tufts and to mix the tufts. It should consist of feed lattice, evener roller, mixing chamber spiked lattice grid bar,Nose Beater, Stripper roller etc.</p> <p>(2) Step Cleaner- It should consists of atleast 06 beating cylinders in steps at an suitable angle. for tufts upwards, removing heavier impurities by centrifugal force. It should have grid segments, micro dust exhaust attachment.</p> <p>(3) Mono cylinder- Mono cylinder should consists of beater, grids, feed rollers, feed lattice, drive motor, etc. for removing impurities from cotton.</p> <p>(4) Pneumatic Hopper Feeder – It is used to transport material pneumatically at high speed. It should consists of beater, small feed rolls, big feed rolls, drive motor, fan, chamber, etc.</p> <p>(5) Single Beater Scutcher – Scutcher is used to regulate lap weight and to form lap in compact form. It should consists of pneumatic doffing and pulling device, Consisting of lap tray, lap rollers, delivery rollers, dust cage, fan, kirschner beater, Feed rollers, pressure rollers, grids, drive motors, etc.</p> <p>(6) Control Panel – Control panel consisting of all controlling switches, indicators, Etc. complete for complete operation of blow room line.</p>

2	Carding ( Miniature )	2	MACHINERY	<p>Miniature Carding Machine, complete unit, having details as under :</p> <p>Laboratory Miniature Card of 10" size, suitable for laboratory carding, with feed apron, feed roller, feed plate, taker in cylinder, doffer and comb fitted with 8 stationary flats, take off to revolving drum to feed miniature draw frame or other tests – metallic card clotting covered to doffer &amp; cylinder. , quantity feed approx. 50 gms, total draft : about 50, max. &amp; min. speeds : cylinder 775 rpm, doffer 9 rpm, lickerin 500 rpm, with all standard accessories, ready to used condition with electricals including motor, starter, etc.</p>
3	Draw frame ( Miniature )	3	MACHINERY	<p>Miniature Draw Machine, complete unit, having details as under :</p> <p>Laboratory Draw Frame of size 10", it is a single delivery machine with a creel for accommodating a drum, from Miniature Card. Material in sheet form is passed through a 4 roller, 2 zone drafting arrangement equipped on this draw frame. The top rollers are spring weighted, and a weight releaving motion is fitted.</p> <p>After drafting, the material passes through a trumpet and calender rollers and is again wound rould on a drum, this time in sliver form. The drum can be traversed at any one of three different speeds, these being selected by a small gear lever.'</p> <p>Roller setting can be quickly and easily be accomplished without the necessity for re adjusting any gearing, since all the relevant drives are taken from a fixed gear box and transmitted through universal joints to the rollers etc.</p> <p>The equipment is in ready to use condition with electricals like motor, starter, etc.</p>

4	Simplex ( Miniature )	4	<p>MACHINERY</p> <p>Miniature Speed Frame Machine (Computerized) complete unit, having details as under:</p> <p>The Frame is equipped with 4 roller double apron High drafting system with cradles , anti friction needle bearing is fitted for all four lines of bottom fluted/ Knurled roller. Flyer is made of Aluminum alloy, dynamically balanced having mirror polish. The bobbins and flyers are driven by crossed helical gears. The spindles are fitted in the bobbin rail carrier. The upward and downward motions are given through rocking shaft, pulleys, chain and bent lever. Builder motion is provided for the same.</p> <p>The arrangement is provided for quick changing of twist, draft, break draft, coils per inch, tension, spindle speed, bobbin speed, machine speed, etc. Most of the functions are by PLC based microprocessor based controller. Also suitable software is provided for function of machine.</p> <p>Technical specifications:</p> <p>Motor : 1.5 HP or suitable (3 phase) with starter.</p> <p>Lift of bobbin : 10" approx.</p> <p>No. of spindle : 4 Nos.</p> <p>Full bobbin dia : 80 mm approx.</p> <p>Machine will be supplied with all standard accessories, suitable PC, interfacing hardware,</p> <p>Voltage stabilizer (3 Phase servo controlled) etc.</p> <p>or</p> <p>Miniature speed frame, 4 spindle, with drafting system, differential motion, builders motion, ones, cone shifting mechanism, drive to bobbin and flyers, arrangement for upward and downward traverse to bobbin rail. Frame equipped with Top Arm, 4 roller double apron high drafting system etc.</p> <p>Arrangements provided for quick changing of twist, draft, break draft, coils per inch, tension, spindle speed, bobbin speed, machine speed, etc. Machine provided with</p>
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5	Ring frame	5	<p>MACHINERY</p> <p>Laboratory Miniature ring spinning frame, with following details:</p> <ol style="list-style-type: none"> <li>1. No. of spindles : 36 spindles or 4 spindles or minimum.</li> <li>2. Ring Diameter : 42 mm.</li> <li>3. Tube Length : 8" (200 mm)</li> <li>4. Range of yarn count spun : 6s to 100s Ne.</li> <li>5. Staple length of fibre spun : up to 1</li> <li>6 Spindles : Lift-6" to 8"</li> </ol> <p>Damping type high speed spindle  Speed -10000-12000 RPM or more  Drive -tape drive, spindles/tape  Twist direction -Z&amp; S type with Changeover facility.</p> <p>7. Drafting system: Three roller double apron drafting system with spring weighting  Draft Range -10-60</p> <p>8. Creel : Bobbin holder type arrangement</p> <p>9. Cop Builder Mechanism: Cop building type</p> <p>10. Main Motor drive: Inverter type adjustable in steps</p> <p>11. Beltless Control Drive: Optional</p>
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6	TFO ( Miniature )	6	MACHINERY	<p>Laboratory Two for One Twister, complete unit, having details as under :</p> <p>Laboratory Two for One Twister 16 drums with anti plattening device with cradle lifting balloon rings, bunching device, motor &amp; panel , with</p> <ul style="list-style-type: none"> <li>• Oil immersed gear box.</li> <li>• Quick change TPI mechanism</li> <li>• S &amp; Z twist change provision</li> <li>• Flat pulley drive end system</li> <li>• Electrical panel box with electrical accessories fitted with 3 HP motor &amp; panel</li> <li>• Electronic counter displaying spindle speed, delivery speed, TPI, TPM, hour Meter, shift wise production, etc.</li> <li>• Yarn stop motion system during end breakages</li> </ul>
7	Rotor spinning machine (miniature)	7	MACHINERY	<p>Rotor Spinning Machine is used to produce yarn from sliver.</p> <p>Technical Details :-</p> <p>No. of rotor :04/08/12</p> <p>Rotor size :43/54mm approx.</p> <p>Rotor Speed :75000 / 60000 rpm</p> <p>Draft Range ; 35 to 220</p> <p>Range of draw off</p> <p>Speed :25 to150 mpm</p> <p>Drive of rotors : tangential belt with gear box.</p> <p>Finenes range :3.5 s to 20 s ne.</p> <p>Combing Roller</p> <p>Revolutions : 5000 to 9000 rpm</p> <p>Package shape : cylindrical</p> <p>The machine should include :</p> <p>Electric Motors , starter</p>

8	Winding machine (miniature)- Autoconer	8	MACHINERY	<p>Single Spindle Automatic Winder, having details as under :-</p> <p>Type of winding : Random Winding  Take up Package : Conical / Cheese  Take up Dia. : Max. 250mm  Power consumption : 200 Watts  Drum : 6" Traverse Bakelite  Winding Speed : 400-1200 rpm</p> <p>Features :</p> <ul style="list-style-type: none"> <li>• In built Splicer system for automatic splicing</li> <li>• Inverter drive system</li> <li>• Electronic Anti Patterning Device</li> <li>• 10 Nos. feed package</li> <li>• Universal supply package Holding System</li> <li>• Air compressor to be supplied with above for splicing system.</li> </ul>
9	Classimat/classifault system	9	MACHINERY	<p>Yarn Fault Classification System, On Line type, with length measuring and control system, incorporating yarn clearing, having details as under :-</p> <ul style="list-style-type: none"> <li>• Principal of operation : Opto Electronics</li> <li>• Count range : 6's to 120's (Nes)</li> <li>• Winding speed : 300 m/min to 1500 m/min</li> <li>• Fault eliminated : From selection of limits both classwise and curvewise</li> <li>• Fault classification : Universally accepted 23 classes of faults</li> <li>• System configuration : One control panel</li> </ul> <p>Length measurement : upto 999999 meters for each spindle</p>
D. MAINTANCE EQUIPMENT				
1	Machine leveling gauge (Spirit level)	1	EQUIPMENT	For checking and leveling of horizontal surfaces, machine tools, machine bases and horizontal shafts., CI, main vials have graduation on each side of bubbles, auilary vial shows lateral position and assists in horizontal settings, sensitivity 0.02 mm/m in 200mm length,
2	Greasing pump	2	EQUIPMENT	Basket Grease Pump with Trolley, useful for greasing of trucks & Machinery,Pump has steel constriction with cast head and solid steel pump chamber,High Pressure hand Operated portable pump,Comes complete with 2.2. meter of high pressure hose fitted with accessories
3	Spindle oil lubricating machine	3	EQUIPMENT	Spindle Oil Lubricating Machine , with auto oil level gauge system, zero leakage system, consisting of Flushing Gun fitted with SS nozzle assembly, Lubricating Gun (oiling gun) adjustable dual SS nozzle assembly with oil elvel gauge, three separate oil tanks for flushing tank 20 ltr, lubricating and topping tank 12 ltrs each, complete unit.



4	Roll trueing machine	4	EQUIPMENT	Fluted roller truing machine , suitable for rectify the eccentricity of rollers without causing damage to fluted rollers. One dial indicator fixed on an adjustable bracket moveable on the horizontal rod facilitates to check eccentricity of different types of rollers, without removing the rollers.
5	Pressure gauge	5	EQUIPMENT	As per ISI.
6	Machine pulley adopter assembly (3arm, 4arm type)	6	EQUIPMENT	Machine pulley adopter assembly (3arm, 4arm type)
7	Cots buffing machine.	7	EQUIPMENT	Cots Grinding machine, suitable for grinding all kinds of top rollers with surface finish as per IS standards, ring frame and speed frame top rollers, 200mm wide emery with centreless grinding attachment, manually operated, taper grinding system for comber detaching rollers, machine having mechanical / hydraulic table traverse, high efficient dust extraction unit, Production capacity : 250 top rollers of Ring Frame and Speed Frame per hour
8	Tachometer	8	EQUIPMENT	Digital Contact type tachometer, range 0 – 9999 rpm, accuracy 1 rpm, complete with all attachments
9	Tensionometer	9	EQUIPMENT	Digital Handheld Yarn Tensiometer, suitable for measuring yarn tension, 3 pin type sensor, battery operated unit with load capacity around 300 grms, acc. 0.1 gm, complete with covering case.
10	Computer, Printer and accessories including cartridge and paper	10	EQUIPMENT	Computer, Printer and accessories including cartridge and paper Latest Version
11	for Classifault/classimat system	11	EQUIPMENT	Yarn Fault Classification System, On Line type, with length measuring and control system, incorporating yarn clearing, having details as under :- <ul style="list-style-type: none"> <li>• Principal of operation : Opto Electronics</li> <li>• Count range : 6's to 120's (Nes)</li> <li>• Winding speed : 300 m/min to 1500 m/min</li> <li>• Fault eliminated : From selection of limits both classwise and curvewise</li> <li>• Fault classification : Universally accepted 23 classes of faults</li> <li>• System configuration : One control panel</li> </ul> Length measurement : upto 999999 meters for each spindle