

**INTEGRATED DEVELOPMENT OF LEATHER SECTOR (IDLS) SCHEME 2017-2020
LIST OF TANNERY MACHINES - ELIGIBLE FOR ASSISTANCE**

Sl.No	Name of Machines	Main Specifications	Imported or Indigenous
1	Unhairing machine (for skins)	w/w:1200-1400mm w/w:1400-1650mm	Indigenous/Imported Indigenous/Imported
2	Sulphide Applicator, hydraulic	w/w:1400-1650mm	Imported
3	(a)Fleshing machine	w/w:1600-3000mm	Imported
	(b)Fleshing machine	w/w:1200-1800mm w/w:2100-2700mm	Indigenous Indigenous
4	Scudding machine, hydraulic	w/w:1200-1400mm w/w:1450-1650mm	Indigenous Indigenous
5	(a)Hydraulic Throughfeed Wetblue Sammying machine	w/w:2100-2700mm w/w:3000-3400mm	Imported Imported
	(b)Sammying machine (ordinary type)	w/w:2100-2400mm w/w:2700-3200mm	Indigenous Indigenous
6	(a)Hydraulic Bandknife splitting machine	w/w:1500-2100mm w/w:2400-3000mm	Imported Imported
	(b)Bandknife Splitting machine	w/w:1800-2700mm	Indigenous
7	(a)Hydraulic Wet Shaving machine	w/w:1800-3600mm	Imported
	(b)Hydraulic Dry Shaving machine	w/w:1300-	Imported
	(c)Hydraulic Shaving machine	w/w:800-1000mm w/w:1300mm	Indigenous Indigenous
	(d)Shaving machine (mechanical)	w/w:300-600mm	Indigenous
8	(a)Hydraulic Throughfeed Sammying -cum-Setting machine	w/w:1600-2100mm w/w:2400-3200mm	Imported Imported
	(b)Hydraulic Reversible Setting machine	w/w:1500-1600mm	Imported
	(c)Hydraulic Reversible Setting machine	w/w:1200-1800mm w/w:2100-2550mm	Indigenous Indigenous
9	Wet Stretching machine	w/w:3200-3400mm	Imported
10	Vacuum Dryer of Table size 2400 x 4700mm/ 2500x5000/3000 x 6000/ 3000 x 4000mm/3200 x 7000mm, etc.	Tables 2-3nos. Tables 4-6nos. Tables 7 nos. Tables 7 nos.(Spl.category)	Imported Imported Imported Imported
11	(a)Conveyor system for leather drying with standard accessories	200m	Imported

11	(b)Overhead Drying Conveyor, with brackets,Gearbox, hangers, Structural support & accessories.(Of varying lengths)	50-80m 80-120m 120-150m	Indigenous Indigenous Indigenous
11A	Paste Drying unit with std.accessories.		Imported
12	(a) Throughfeed Vibration Staking machine of varying Heads + jaws	w/w:1600-2100mm w/w:2400-3000mm w/w:3200-3400mm	Imported Imported Imported
	(b)Throughfeed Vibration Staking machine	w/w:1650-2400mm	Indigenous
	(c)Horizontal Rotary Staking machine	w/w:1600mm	Imported
	(d)Vertical Staking machine (Schoedel type)	w/w:1200-1300mm	Imported
	(e)Slocomb Staking machine	Jaw type	Indigenous
13	(a) Auto Toggling machine, throughfeed with accessories	160 special-3 EMMEZETA MS Frames 3400x2800mm -4000x1800mm (Quick 18 super)	Imported Imported Imported
	(b)Auto Toggling machine, conveyorised, with Drying chamber	Size:1400mm x 15m. -2200mmx18m	Indigenous
	(c)Toggle Dryer (ordinary type) with heaters, motor with blower, thermostat assembly, control panel, toggle clips, etc.	10 Frames 20 Frames Frame sizes: 8'x6',8'x8',9'x7',9'x8',etc	Indigenous Indigenous
14	Tumble Drier / Drum Drier	Capacity:50kg-60kg Capacity:100kg-150kg Capacity:200kg-250kg	Indigenous Indigenous Indigenous
15	(a)Throughfeed Lightning Buffing machine	w/w:1300-1800mm w/w:2100-2400mm w/w:2700-3050mm	Imported Imported Imported
	(b) Throughfeed Buffing machine (Hydraulic/Preumatic)with Dust extractor, etc.	w/w:1300-1600mm	Indigenous
	(c)Buffing, Double width	w/w:600mm	Indigenous
	(d)Buffing machine, Single width	w/w:300mm/300mm. High speed	Indigenous
16	(a)Airblast Dedusting machine	w/w: -3200mm	Imported
	(b)Dedusting machine (ordinary type) with brush, centrifugal Blower (c) Dedusting machine (Special type-M73.10) with Twin lobes Rotary Blower	w/w:1200-1500mm w/w:1500-1600mm	Indigenous Indigenous

17	Briquetting /cake making machine/ Buffing Dust compacting machine		Imported
18	(a)Combined Throughfeed Lightning Buffing machine with Airblast Dedusting machine, Dust collector & Briquetting machine	w/w:1800-2400mm w/w:2700-3200mm	Imported Imported
	(b)Combined Airblast Dedusting machine Blower, Dust Collector & Briquetting machine	w/w:1800-2100mm	Imported
	(c)G.I. Fabricated Dust Collector with Pneumatic cylinder, Vibration system, Filter bags, MS centrifugal blower, motor, Ducting, etc.		Indigenous
19	(a)Polishing machine, Hydraulic - with Stone & Felt rollers	w/w600mm w/w:800mm	Imported Imported
	(b)Polishing machine, Hydraulic-with wool cloth roller, green type	w/w600-	Imported
	(c)Polishing machine, hydraulic/ Mechanical, with Stone (Amber)/Felt rollers	w/w600-800mm	Indigenous
20	Rotary Pigment Coating machine (Roller Coating machine) with syncro and reverse rotation, coating rollers, roller heating system &accessories	w/w:1800-2200mm w/w:2600-3400mm	Imported Imported
21	Curtain Coating machine with std. accessories	w/w:1800mm x3/3	Imported
22	(a)Autospray comprising Electronic Rotary Spraying cabin + 16/12/8/4 spray guns (imported or indigenous) + Drying chambers + Ventilator + accessories (Exhaust Ducting & Chimney)	w/w1000mm./1200mm.x4. 5m w/w:1800mm w/w:2400mm w/w:3000mm	Indigenous Indigenous Indigenous Indigenous
	(b)Autospray, with spraygun model MCR BA-PE(24LVHP guns)	Rotary Device Model:SP-100	Imported
	(c)Autospray (Head only)with spares	w/w1800-2400mm	Imported
	(d)Autospray - Spraying cabin only with spray guns + accessories.	w/w:2400-3000mm	Indigenous
	(e)Autospray- Drying chambers only with heaters + accessoies	w/w:1800-3000mm	Indigenous
	(f)Handspray Booth with expandable metal top, exhaust system (blower & motor)&spray gun.	8'x6'/9'x6' 2400x1350mm(HiTech) 1800x1350mm(HiTech)	Indigenous Indigenous Indigenous

23	(a) Throughfeed Ironing & Embossing machine with embossing rollers & accessories	w/w: 2400-3000mm (with 4-5 rollers)	Imported
	(b) Engraved Embossing Roller for Throughfeed Embossing machine	Different Designs	Imported
	(c) Hydraulic Ironing & Embossing Press (d) Hydraulic Ironing & Embossing Press	Thrust: 850 Tons Platen size: 1370x1000mm Thrust: 600 Tons Platen size: 1370x660mm -850T/1370x1000mm -600T/1370x660mm	Imported (Thai) Imported (Italian) Imported (Thai) Imported (Italian) Indigenous Indigenous
	(e) Embossing Plates for Hydraulic Press. Size: 1370x1000x10mm. & 1370x660x10mm.	Special Designs (UNGRICHT/DORNBUSCH) Other Designs Plain Plate Other Designs	Imported Imported Indigenous Indigenous
24	Automatic Throughfeed Ironing & Plating machine with Aspirator & Dust Collector	w/w: 1700-1850mm w/w: 2100-3000mm	Imported Imported
25	Finiflex type Ironing machine	w/w 1500-1800mm	Indigenous
26	(a) Glazing machine (b) Glazing machine	900mm (LISSA) 900mm	imported Indigenous
27	(a) Area Measuring machine for Wetblue, microprocessor-based, with Printer, etc. (Feeding & Receiving end in s.s.)	w/w 1400-2400mm w/w: 2400-3200mm	Indigenous Indigenous
	(b) Pattern Scanning machine for finished leather (Area Measuring, etc)	w/w 1600-1800mm	Imported
	(c) Area Measuring machine for finished leather	w/w: 1400-3000mm	Indigenous
28	Steam Boiler/Thermic Fluid Heater with fittings, pump assembly, valves, blowers, centrifugal fans, gauges, insulation & refractories, structural support, ducting, chimney, etc.	Capacity: 2 lakh k.cal/hr-5 lakh k.cal/hr 5 lakh k.cal/hr -7 lakh k.cal./hr	Indigenous Indigenous
29	(a) Air Compressor with all accessories- ELGI/ATLAS COPCO/KAESAR, etc.	ELGI TS03120H, 3HP 7.5HP/20HP 30HP/40HP 7.5bar/8.0bar	Indigenous Indigenous Indigenous
	(b) Air Receiver	0.5M ³ 7kg/cm ² (500l)	Indigenous

30	Genset with Alternator & accessories	62.5KVA 82.5KVA / 125KVA 180.0KVA 200/250.0KVA 600.0KVA(VOLVO) Any other capacity	Indigenous Indigenous Indigenous Indigenous Indigenous
31	Lab. Testing Equipment (a) Electronic Weighing Scales	3kg/100mg accuracy	Indigenous
	(b) Incubator double walled chamber innerwall s.s., Digital Temp. Controller-cum.indicator + accessories.		Indigenous
	(c) VESLIC Rub Fastness Tester with 4 stations + white felts (1000pcs/pack) + Black felts (1000 pcs/pack) for testing.		Imported
	(d) VESLIC Rub Fastness Tester		Indigenous
	(e) Electrical Waterbath, double-walled with thermostatic control 14"x10"x4" with 6 holes; Digital pH meter (complete unit); Glass Double Distillation unit 1.5l/hr; Electronic Relay Unit for the above.		Indigenous
	(f) Soxhlet Extraction apparatus with r.b.flask 250ml, Allihu condenser & Extractor, Cap.100ml; Retort stand with condenser clamp; Heating mantle with energy regulator, cap:250ml; Fume hood cupboard 4'x2'x2', Remi make model 1ML magnetic stirrer with Digital speed indicator; Infrared moisture balance, cap.25ml; Electronic Timer 0-30 min for the above.		Indigenous
	(g) Hot plate, without Model IMLM Magnetic stirrer (Remi make)		Indigenous
32	Electro magnetic Flowmeter (Krohne Marshall)	1"/1.5"/2"/3"/4"	Indigenous
33	Thickness Measuring Gauges	Throat size 300mm/450mm	indigenous
34	Data Color Matching System comprising Datacolor 110LAV spectrophotometer & Data color Tools Basic software		Imported
35	Effluent Treatment Plant consisting of (1) Pre-Treatment Plant(PTP) & (2) chrome Recovery Unit (CRU) (cost roughly 50%each)	<2Tons/day of Raw wt. of hides/skins 3-5 Tons/day 5-10 Tons/day	Indigenous Indigenous Indigenous
36	ETP-R.O.Plant		Indigenous

37	Material Handling Equipment (mechanised) (Forklift, Goods lift, etc.)	Lower capacity Higher capacity	Indigenous Indigenous
38	Workers' Health & Safety -Wind Ventilators for factory building including FRP Base for fixing, and assembly	SRJ 22"	Indigenous
39	(a)Specialised Technical Services Software (Licences, Blue prints, Implementation)	ANT ARA-ERP	Imported
	(b)ERP Tannery Modernisation Software Leather Link TMS to achieve Productivity improvement, cost saving &improving customer service		Indigenous
40	(a) Sample Drum (wooden) of Malaysian salwood or similar with motor & accessories	3'x3'/1m.x1m 4'x3'/4'x4'/4.5'x4.5' 5'x4'	Indigenous Indigenous Indigenous
	(b)Sample Drum (S.S) for Tanning /Dyeing, with accessories.	3'x3'/4'x4' 800mm x400mm (RAMSONS) 1200x600mm 1000mmx500mm (SIVTECH) 3.60'x2.4'(RAMS INDIA)	Indigenous Indigenous Indigenous Indigenous
	(c) Sample Drum (S.S.)with accessories	1500mm x1200mm 1200mm x600mm	Imported (Italian) Imported (Italian)
41	(a)Wooden Drum of Malaysian Salwood or similar, with gear box, motor & accessories (for Liming)	10'x8' 10'x10' 12'x10'	Indigenous
	(b)Wooden Drum for Liming with all accessories	4000 x 4000mm (PAJUSCO)	Imported (Italian)
42	(a)Wooden Drum of Malaysian Salwood or similar, with motor & accessories-for Tanning/Dyeing &Fathiquoring	6'x4' 8'x6'/8'x7' 8'x8'/8'x8.5' 9'x9'/10'x8'	Indigenous Indigenous Indigenous Indigenous
	(b) Wooden Drum for Tanning & Dyeing with accessories.	3000x3000mm Model:ZLXC 3500x3500mm Model:ZLXC 300x2500mm(PAJUSCO) 3500x2500mm(PAJUSCO)) CANGLIONS, 3000x2500mm (OLCINA) 4000 x 4000mm(PAJUSCO)	Imported (Chinese) Imported (Chinese) Imported (Italian) Imported (Italian) Imported (Spanish)

		Any other capacity shall also be allowed	
	(c)S.S.Drum for Tanning & Dyeing/ Leather Dyeing machine, with accessories.	1200x900mm(RAMSONS) Loading Cap:40kg 775x400mm (RAMSONS) Loading Cap:5kg OPTOMIX 1000x500mm (TECHNO CONCEPTS) (25kg) OPTOMIX 1200x600mm (40kg) OPTOMIX 1500x800mm(60kg) 1500x850mm(RAMSONS)	Indigenous Indigenous Indigenous Indigenous Indigenous Indigenous
	(d)S.S.Drum with 3 Compartments & accssories	UNIMATIK 4000 UNIMATIK 6000 UNIMATIK-SOMAC 204/205/206	Imported(Italian) Imported(Italian) Imported(Italian)
	(e)Polypropylene (PPH) Tanning & Dyeing machine (Drum) with accessories	Small capacity-15kg.W.b. Shaved wt/5kg.crust wt.(RAMSONS) 1600mm x1130mm PLC & PID (RAMSONS) 2400mm x 2000mm PLC & PID (RAMSONS) 1700mm x 1200mm (HUNI) 2500mm x 2000mm (HUNI) 3000mm x 2500mm (HUNI) 3500mm x 3500mm (ITALPROGETTI Engg.) 3000mm x 2000mm (ITALPROGETTI Engg.) 2500mm x 2000mm (ITALPROGETTI Engg.) 2500mm x 1500mm (HUNI)	Indigenous Indigenous Indigenous Imported (Italian) Imported (Italian) Imported (Italian) Imported (Italian) Imported (Italian) Imported (Italian) Imported (Italian)
43	Process Control System (a) Water Mixing & Dosing system (AQUAMIX type) + accessories	For 6-8 Drums	Imported (Swiss/HUNI)

	(b) Chemical Mixing & Dosing system (PRODOMIX type + accessories PRODODOS type, with fittings)	For 6-8 Drums PD STP/4F/4C/IM	Imported (Swiss/HUNI) Imported (Italian/HUNI)
44	(a) Milling / Dry Drum (Wooden) of Salwood or similar with accessories	8'x6' /8'x7' 8'x8'/10'x4'/10'x6' 12'x9'/10'x8'/10'x7'	Indigenous Indigenous Indigenous
	(b) Milling / Dry Drum (Wooden)	2000 x 1000mm, AMC / 2400 x 1800mm, AMC	Imported (Italian)
	(C) S.S. Dry Milling Drum with filtration of dust, control of temperature & humidity & chemical injection + other accessories	2600 x 1800mm	Indigenous (SIVTECH/ TECHNO CONCEPTS/RAMS INDIA/SIVAGAMI)
	(d) S.S. Dry Milling Drum with kit for chemicals inflow & other special features + accessories	2500 x 1650mm INOX 2500 Low Classic 3000 x 2000mm (ext.meas) PAJTEC "X-MILLING"	Imported (Italian/ERRETRE S.P.A) Imported (Italian/PAJUSCO TECHNOLOGIE)

NB: Any machine other than those appearing in the above List, can be considered by Steering Committee on the recommendations of the PIUs.

NB: Self-fabricated drums and paddles are not recommended for inclusion in the List of Machinery.

INTEGRATED DEVELOPMENT OF LEATHER SECTOR (IDLS) SCHEME 2017-20

**LIST OF FOOTWEAR AND FOOTWEAR COMPONENTS MAKING MACHINES -
ELIGIBLE FOR ASSISTANCE**

Sl. No.	Sub Sl. No.	NAME OF THE MACHINES
A	Machnies for footwear manufacturing	
I	DESIGNING AND PATTERN MAKING	
	1	CAD System
	2	Plotter & Cutter
	3	Digitizer
	4	Hand-operated cutter
	5	Electric pantograph
	6	Numeric control for fibred cardboard series cutting
	7	Micro-clicking press with turning arm
	8	Computer aided cutting table
	9	Shoe last thermoforming machine
	10	Model area measuring machine
	11	Pattern Shear
	12	Rapid prototyping m/c
	13	Software – Corel Draw, Adobe Photoshop, Auto CAD 3D MAX or Any Other 3D Software (20.00 lacs - 30.00 lacs)
	14	ERP software
	15	Desktop Computers with color Monitors & CD writers
	16	Color Printers
	17	Last Scanner (7.00 lacs - 15.00 lacs)
II	CUTTING	
	1	Sewing arm clicking press
	2	Arm-type clicking press with automatic movement
	3	Beam press
	4	Traveling head press
	5	NC die-cutting system
	6	Nesting and dieless cutting system
	7	Area Measuring machine
	8	Welding-shearing die-cutting machine
	9	High-frequency type machine
	10	Strip cutter machine
	11	Multi-cutting machine
	12	Laser Etching / Engraving machine
	13	Crimping machine
III	MACHINES TO PREPARE AND STITCH UPPER SHOES	
	1	Leather splitting machine
	2	Embossing / Stamping machine for linings/uppers (manual of automatic type)
	3	Socks stamping machine
	4	Skiving machine for upper components

5	Fusing machine
6	Seam pressing and taping machine
7	Vamp pre-forming machine
8	Modular system to hot-print mock-stitching, patterns and relief, high-frequency type
9	Plating machine to emboss or print leather
10	Perforating machine to make shoe lace holes
11	Perforating and decorating machine
12	Edge folding machine
13	Thermo cement and folding machine with reinforcing tape
14	Machine to make thermoplastic toe puffs on uppers
15	Thermo adhesive toe puff attaching machine
16	Cement spraying machine for vamps to couple uppers, lining and toe puffs
17	Thermoplastic cementing machine
18	Pleating machine for uppers
19	Zig-Zag sewing machine
20	Chording machine
21	Arm-type rotary sewing machine for edgings and profiling (long-arm type)
22	Flat-bed sewing machine, 1 needle with or without thread cutter.
23	Flat-bed sewing machine, 2 needle
24	Post bed single needle sewing machine with or without thread cutter
25	Post-bed double needle sewing machine.
26	Cylinder bed binding machine
27	Heavy duty single needle flat bed sewing machine
28	Machine to sew imitation moccasin
29	Spot lining machine for stitching of moccasin aprons
30	Upper lining trimming machine
31	Strobel type overlock stitching machine
32	Gathering machine
33	Automatic sewing machine (Microprocessor controlled)
34	Computerized sewing machine for embroidery
35	Eyeleting machine (manual or automatic type)
36	Riveting machine (manual or automatic type)
37	Hook, eyelet applying machine
38	Machine to apply decoration onto uppers
39	Upper lacing machine
40	Machine to apply snap fasteners
41	Roller cementing machine for zippers
42	Belt dispenser (plain, automatic or computer aided type)
43	Wooden conveyor (readymade)
44	Mechnized Upper conveyor
45	Special sewing machine
46	Shoe-repairing sewing machine

	47	Hammering machine
IV	SOLE UNIT ASSEMBLY AND MACHINING EQUIPMENT	
	1	Insole tacking machine by tacks
	2	Insole trimming machine
	3	Insole applying machine, pressure type
	4	Insole applying machine, cement type
	5	Rib laying machine
	6	Backpartmoulding machine
	7	Backpartmoulding machine for moccasins
	8	Backpartmoulding machine for stitch down/ideal applications
	9	Upper edge roughing machine
	10	Moccasin forming and ironing machine
	11	Steamer for toe caps and/or heel seat and stiffeners
	12	Whole upper conditioning machine
	13	Toe forming machine
	14	Pulling-over and cement lasting machine
	15	Heel seat and side lasting machine
	16	Heel lasting machine
	17	Machine to pull and fix lining
	18	Thermoplastic side lasting machine
	19	Waist lasted, hook or tack type
	20	Goodyear inseam trimming machine
	21	Inseam stitching machine
	22	Rough Rounding machine
	23	Seat lasting for cemented and/or tacks Seat lasted for Goodyear applications
	24	Heel crowning machine
	25	Lasted shoe pounding machine for bottom leveling
	26	Heat setter to ironing and conditioning shoes and boots lasted on last
	27	Wrinkle chaser
	28	Heel-seat beater Manual machine to roughen assembled edges
	29	Automatic programmable roughing machine for lasted shoe & also with grinding device
	30	Automatic cementing machine for lasted shoe
	31	Semi-automatic rotary brush machine for water-dispersed adhesives
	32	Cementing machine for soles
	33	Tower dryer
	34	Drying and activating machine
	35	Flash activator
	36	Universal type Sole press equipped with self-shaping pads
	37	Automatic press with lower water pad-box
	38	Balloon press (Dr. Funk type)
39	Chill setter with conveyor	

40	Brushing machine for the removal of remains of glue along the edge last
41	Last pulling machine
42	Heel pre-fixing machine
43	Heel nailing machine
44	Gang nailing machine
45	Channeling machine for lasted shoes and soles
46	Channel opening machine
47	Channel closing machine
48	Stitch-marking machine
49	Trimming cleansing machine for edges of sole and heel (with or without nebulizer)
50	Manual trimming machines for heels
51	Edge trimming machine
52	Manual ornamental ribbing machine for soles
53	Manual band scouring machine for sole and heel already applied Lockstitch side wall sewing machine
54	Lockstitch sole swing machine for blake work (Mckay stitch)
55	Lockstitch sole sewing machine for direct seam of upper and sole
56	High-speed welt sewing machine for Goodyear applications
57	High-speed outsole stitcher
58	Soft-roller cementing machine for soles
59	Halogenating machine for rubber soles and similar materials
60	Top lift nailing machine
61	Vulcanizing machine with autoclave incorporated in the conveyor
62	Extruder for multicolor rubber foxing (PVC, TR, rubber) welt extruders, one and two colours
63	Manual conveyor, push-type
64	Electromechanical conveyor with variable speed or temporized stops
65	Loading/unloading robot
66	Rubber extruder
67	DMS plant
68	Flash trimming machine
69	PU/TPU DIP machine
70	PU pouring machine
71	PU pouring machine conveyour
72	Verticle/ horizontal DIP machine for PVC sole
73	DIP Moulds (Top and bottom)
74	UV activation chamber
75	Spray booth
76	Top line forming machine
77	SATRA sole adhesion tester
78	Toe cap impact tester
79	Flexometer
80	Tensile tester

	81	Rub fastness tester
	82	Color matching chamber
	83	Polishing and brushing machine
B	MACHINES TO PREPARE FOOTWEAR COMPONENTS	
I	Toe Caps	
	1	Skiving machines with cutting lubrication
II	Stiffeners	
	1	Wetting machine
	2	Skiving machine with cutting lubrication
	3	Automatic machine for skiving, stamping and knurling
	4	Machine to finish edge pitching of leather board material
	5	Rolling machine
	6	Rough scouring machine, wheeled, with pad
	7	Dual station manual, pre-forming machine
	8	Automatic heel sock performing machine
	9	Heel sock cementing machine
	10	Heel sock drying oven
	11	Heating and moulding machine for thermoplastic counter stiffener
III	Insoles	
	1	Travelling head insole cutting machine
	2	Machine for sandwich cutting of insole heel sock
	3	Hole making machine for insoles of seat straps (sandals)
	4	Insole grooving machine for notches to seat straps
	5	Matrix Skiving machine for fiberboard
	6	Machine to fit metal shanks to board shanks
	7	Cementing machine with or without dryer
	8	Edge Cementing machine
	9	Stamping machine
	10	Silk-screen printing machine for decoration of clearing insole, insole to board shank assembly machine
	11	Insole Moulding m/c
	12	Insole Bevelling m/c
	13	Profiling and pitching trimming machine (with or without sharpening machine)
	14	Folding machine
	15	Shank rivetting m/c
IV	Heel	
	1	Guillotine cutter for leather bands
	2	Machine for covering and pressing cork and leather heels
	3	Machine for pressing the anterior part of heel
	4	Machine to make holes and C-line of heel breast
	5	Machine to cut heel performs off strips
	6	Evening to cut heel performs off strips
	7	Lift flaring machine

	8	Sanding machine for leather-covered heels
	9	Rough-scoring machine for heel covings
	10	Machine to cement heel covers and heels
	11	Press to assemble lifts
	12	Heel pretrimming machine
	13	Heel digging machine
	14	Automatic abutting digging machine
	15	Spraying machine with or without device for leather stripes effect
	16	Automatic machine for heels milling, inclination and depth making
	17	Vertical dryer
	18	Tool sharpening machine
	19	Injection Moulding machine and water bath.
	20	Top lift fixing machine
	21	Veneer leather Cutting machine
	22	Super flow machines for pigment dispersion
	23	A.T.T machine with carbon balls for synthetic heel finishing
V	Out Sole	
	1	(CAD-CAM) working center for soles making
	2	Die-cutting, marking machine (automatic type)
	3	Blade-type pre-evening machine
	4	Roughing leveling machine
	5	Buffing-souring machine
	6	Manual pretrimming machine
	7	Automatic pretrimming machine
	8	Trimming machine for soles or foam half soles
	9	dge trimming machine
	10	Trimming machine to make antislip lines
	11	Roughing machine
	12	Edge roughing and growing machine
	13	Heel seat roughing machine
	14	Roughing machine for half sole
	15	Halogenating machine for rubber soles and similar materials
	16	Stamping machine to print brand and number
	17	Stamping machine for identification through processing cycle
	18	Decorating machine for stitch separation and grooving
	19	Topside cementing machine with soft roller
	20	Cementing machine with pressure roller, for pre-finished sole edge
	21	Pressurized tank for cement spreading with gun and brush
	22	Workbench with adhesive spraying (water-based and Polyurethane adhesive)
	23	Injection press for top pieces
	24	Sole edge cementing machine
	25	Welt attaching machine

26	Welt chamfering at the beginning and at the end of application
27	Halogenating machine for rubber soles and similar materials
28	Stamping machine to print brand and number
29	Stamping machine for identification through processing cycle
30	Decoration machine for stitch separation and grooving
31	Topside cementing machine with soft roller
32	Cementing machine with pressure roller, for pre-finished sole edge
33	Pressurized tank for cement spreading with gun and brush
34	Workbench with adhesive spraying (water-based and Polyurethane adhesive)
35	Injection press for top pieces
36	Sole edge cementing machines
37	Welt chamfering at the beginning and at the end of application
38	Managed rotation performing machine
39	Managed rotation edge-setting machine
40	Scouring machine for sole grain side
41	Scouring machine, sole edges and welt
42	Scouring machine to profile heels and soles
43	Press to fit welt or midsole to sole
44	Press for heel-sole fitting
45	Automatic heel nailing machine for pre-finished shoe
46	Connection rotary belt
47	Sole turning belt
48	Automatic collector
49	Vertical dryer
50	Electromechanical conveyor with variable speed or temporized stops
51	Manual conveyor, push-type
52	Stitch-separating machine
53	Automatic spraying machine
54	Machine to wrap and count meters
55	Automatic cementing-winding for welt (with counter)
56	PU pouring machine
57	PU sole roughing machine
58	PVC/TPR Vertical or horizontal Injection moulding machine
59	Outsole making mould
60	EVA injection moulding machine
61	Pre heating oven
62	Rubber mixing mill
63	Kneader
64	Calendering
65	Rubber extruder
66	Bale cutter
67	Ultrasonic rubber cleaner

	68	Rheometer
VI	Leather Welt	
	1	Machine to square various material
	2	Machine to blunt joints
	3	Roughing machine
	4	Channeling machine
	5	Machine to prepare welts for Goodyear application
	6	Grooving machine
	7	Stitch separating machine
	8	Cementing machine
	9	Seam press
	10	Sewing machine for decorations
	11	Stitch-separating machine
	12	Automatic spraying machine
	13	Machine to wrap and count meters
	14	Automatic cementing-winding for welt (with counter)
	15	Plotter to write and engrave
	16	Varnishing tank
	17	Edging shear for shaping the steel
	18	Sharpening machines
	19	Welding bench
	20	Sundry accessories
VII	Machine for Manufacturing Shoe Last	
	1	Machines for making plastic blocks
	2	Machines for sizing of plastic blocks
	3	Machines for turning of plastic blocks both mechanical as well as CAD/CAM including computer systems
	4	Machines for making hinges
	5	Machines & jigs & fixtures for fixing of hinge assembly in plastic turned block
	6	Machines for digitising lasts by CAD/CAM including software including computer systems
	7	Machines for making patterns by CAD including software & computer systems
	8	Machines, jigs & fixtures & gadgets to check last structure
	9	Machines for finishing of last both mechanical as well as CAD/CAM including software & computer systems
	10	Machines for preparing, fixing & finishing of iron plates on last
	11	Machines for fixing thimble
	12	Machine for fixing back height
	13	Machines for repairing of lasts
	14	Machines & equipments for final finishing of plastic last
	15	Machines, tools, jigs & fixtures for sharpening of tools
	16	CNC laser and plasma steel sheet metal cutting machines
17	Last scanner.	

	18	Foot scanner for customization of last for the handicapped, orthopaedic and normal last.
	19	Software for last modification and development of last out of foot scanned data.
	20	Computerised Toe and Heel finishing m/c.
	21	Machines for making hardware used in Last making.
	22	Foundry equipment for Aluminium Last making.
	23	Direct Injection Last making and equipment.
viii	ACCESSORIES –DIE CUTTER	
	1	Pattern circumference measuring machine
	2	Punching machine (for saddles and steel strips)
	3	Equipment to applying piercing devices and prick
	4	Broaching machine
	5	Shears for steel or iron
	6	Chafing machine with copy
	7	Folding machine
	8	Belt grinder
	9	Drilling machine
	10	Marking machine
	11	Notch indicator
	12	Plotter to write and engrave
	13	Varnishing tank
	14	Edging shear for shaping the steel
	15	Sharpening machines
	16	Welding bench
	17	Sundry accessories

NB: Any machine other than those appearing in the above List can be considered by Steering Committee on the recommendations of the PIUs.

INTEGRATED DEVELOPMENT OF LEATHER SECTOR (IDLS) SCHEME 2017-20

LIST OF MACHINES FOR LEATHER GARMENTS INDUSTRY- ELIGIBLE FOR ASSISTANCE

Sub Sl. No.	NAME OF THE MACHINES
1	Flatbed feed single needle
2	Flat bed drop feed double needle
3	Post bed single needle – lower & needle feed
4	Post bed Double needle m/c
5	Button holing machine
6	Bar taking machine
7	Pocket welting machine
8	Eyelet button hole machine
9	Electronic pattern sewing machine (computerized)
10	Octognale knife cutting machine
11	Basting machine
12	Cylinder bed sewing machine
13	Decorative stitching machine
14	Fusing machine
15	Thread burners
16	Button stitching m/c
17	Drying tumbler 50 kg
18	Water Extractor
19	Button wrapping m/c
20	Snap attaching machine
21	Button riveting m/c
22	Creasing machine
23	Hydro Extractor - Motor 2HP to 15HP
24	Tumble Dryer - Motor 1 HP to 13HP
25	Down Filling Machine
26	Digitizer
27	Pattern Cutter Machine

NB: Any machine other than those appearing in the above List, can be considered by the Steering Committee on the recommendations of PIU

INTEGRATED DEVELOPMENT OF LEATHER SECTOR (IDLS) SCHEME 2017-20**LIST OF MACHINES FOR LEATHER GOODS INDUSTRY- ELIGIBLE FOR ASSISTANCE**

Sl. No.	NAME OF THE MACHINES
1	Splitting Machine
2	Skiving Machine Standard
3	Skiving Machine equipped with joint Skiving kit
4	Computerised skiving machine
5	Travel Head Clicking machine
6	Clicking Machine
7	Spray Gluing Machine
8	Strap Cutting Machine
9	Hydraulic Embossing Machine
10	Logo Stamping / Embossing Machine
11	Straight Edge Folding & Creasing Machine
12	Vertical Edge Dyeing & Polishing Machine
13	Horizontal Edge Dyeing Machine
14	Edge Dyeing Machine with Dryer
15	Edge Polishing Machine
16	Edge Buffing Machine
17	Edge folding machine
18	Button, Eyelet & Rivet Fixing Machine with multiple tooling for different sizes
19	Frame Fixing Machine
20	Piping Machine
21	Sewing M/c Flat Bed
22	Sewing M/c Cylinder Bed with attachments
23	Sewing M/c Post Bed
24	Sewing M/c Twin Needle (Disengagable)
25	Sewing M/c Heavy Duty # 10 Thread
26	Sewing M/c Heavy Duty # 2 Thread

27	Sewing M/c ZigZag
28	Stitch Flattening M/c
29	Interlocking Sewing Machine
30	Computerised Sewing machine
31	Embroidery Machine
32	Roto press machine
33	Heat Setter machine
34	Dieless cutting machine
35	Leather Printing Machine
36	Automatic Computerised Rivet Fixing Machine
37	Lazer Machine Multi material
38	Rope Handle Preparing machine
39	Rope Handle Trimming machine
40	Automatic Cementing, folding, pressing machine (combination of 3 machine with 1 operator)
41	Roller Gluing Machine with Latex
42	Leather measuring machine
43	Flat Plating Machine
44	Brushing & Finishing Machine
45	Dehumidifier
46	Cement spraying m/c with tank
47	High Frequency Machine
48	Bandknife cutting Machine

NB: Any machine other than those appearing in the above List, can be considered by the Steering Committee on the recommendations of PIU

INTEGRATED DEVELOPMENT OF LEATHER SECTOR (IDLS) SCHEME 2017-20**LIST OF MACHINES FOR SADDLERY & HARNESS- ELIGIBLE FOR ASSISTANCE**

Sl. No.	NAME OF THE MACHINES
1	Edge Trimming m/c
2	Automatic edge inking m/c
3	Pneumatic strap end scarfing m/c
4	Blade sharpening and end thinning m/c
5	Clicking m/c pneumatic
6	Splitting m/c
7	Strap cutting m/c
8	Stamping m/c
9	Edge grinding and finishing m/c
10	Cementing (gluing)
11	Hot air thread burner
12	Hot creasing m/c
13	Double eyeleting m/c
14	Riveting m/c
15	Automatic hole punching m/c
16	Edge folding m/c
17	Clicking m/c manual
18	Hole punching m/c
19	Sewing m/c manual (Flat bed)
20	Skiving heavy duty m/c
21	Sewing m/c manual (Cylinder arm)
22	Sewing m/c 1-needle cylinder bed
23	Sewing m/c 1-Needle cylinder bed
24	Sewing m/c 1-Needle Flat bed
25	Sewing m/c 1-Needle Flat bed
26	Sewing m/c (Pneumatic)
27	Skiving m/c
28	Embossing m/c (Hydraulic) Beam press
29	Embossing m/c (Hydraulic)
30	Clicking m/c (Hydraulic) Beam press
31	Traveling head clicking press
32	Double Eyeleting m/c
33	Double Feed Riveting m/c

NB: Any machine other than those appearing in the above List, can be considered by the Steering Committee on the recommendations of the PIU

INTEGRATED DEVELOPMENT OF LEATHER SECTOR (IDLS) SCHEME 2017-20

LIST OF AUXILIARY ITEMS- ELIGIBLE FOR ASSISTANCE

Sl. No.	NAME OF THE MACHINES
1	DG Set
2	Oil injected Rotary Screw Compressor
3	Stationery Air Compressor
4	Air dryier
5	Air reciever Tank
6	Mechanized Fork Lift/ Hand pallet Truck
7	Boiler
8	Bar code printer
9	Bar code generator
10	Sewage Treatment Plant
11	Solar Panels Captive use

NB: Any machine other than those appearing in the above List, can be considered by the Steering Committee on the recommendations of the PIU

INTEGRATED DEVELOPMENT OF LEATHER SECTOR (IDLS) SCHEME 2017-20

LIST OF ADDITIONAL MACHINERY PROPOSED FOR INCLUSION

Sl.	Name of Machine	Normative Prices (Rs. in Lakhs) (Min.-Max.)
1	SeamTape Machine (Imported)	
2	CNC Milling Machine (Indian)	5.0 - 10.0
3	CNC Milling Machine (Imported)	20.0 - 25.0
4	Hydraulic Press (Eva Premoulding Machine)	
5	Eva Hot & Cold Moulding Machine	
6	Robotic Leather Cutting Machine	
7	SCATTER COATING MACHINES for mking INTERLINING/RE-INFORCEMENT FABRICS for footwear, leather garments / Leather Goods & Other LAMINATION MACHINES	
8	EXTRUDER HOTMELT COATING MACHINES to manufacture TOE-PUFF (Ping-pong sheet) and COUNTER SHEET for Footwear	
9	SLIVER KNITTING MACHINES for manufacturing PILE FABRIC to be used as Lining for Shoes & Garments	
10	SHOE UPPER KNITTING MACHINE to manufacture FLYKNIT UPPERS	
11	Color Matching Instruments/Equipments	
12	EVA Splitting & Slope Splitting of EVA Sheets and Plates Footbed	
13	Emulsions dipping plant for non woven with stenter & drying chamber	
14	Extruder Hotmelt Coating Machines	
15	Hot Melt adhesive & coat plant	
16	Desalting Machine 6000 Steel with Accessories (Imported)	
17	Desalting Drum Complete with Loading Conveyor, Stainless Tank with wheel & Fort Lift Guide	60.00 - 90.00
18	Multi Effect Evaporator/Forced Evaporator with Centrifuge	150.00 - 220.00
19	Fleshing Removal System directly hooked to the Flashing Machine	60.00 - 90.00
20	Laser Cutting Machine, computerised	50.00 - 75.00
21	Slip Resistant Tester	80.00 - 100.00
22	Water Vapour permeability & coefficient tester	.00 - 1.50
23	Water Absorption Tester	1.20 - 2.00
24	Condition chamber for temperature & humidity	8.00 - 10.00
25	Abrasion Resistance Tester	0.7 - 1.00
26	Cold Flexing Machine for Hydrolysis	2.50 - 3.50
27	Universal Tensile/Compression Machine with Plotter	60 - 80
28	Latex Spray Machine for Lining & Upper	0.7 - 0.8

NB: Any machine other than those appearing in the above List, can be considered by the Steering Committee on the recommendations of the PIU

Annexure-II

List of additional machines approved by the Steering Committee for grant under IDLS sub-scheme of IFLDP during 2021-26

New machine list for addition in IDLSS (IFLDP 2021-2026)		
Machine for footwear making:		
S.no	Name of the machine	Description
1	Die less oscillating blade cutting machine	Use for cutting fabric/ leather without any die
2	Jacquard knitting machine	For manufacture shoes upper with spacer and without spacer and monocreeltype upper
3	Lupi folding machine	To fold back side lupi of shoes
4	Weaving machine	Waved type upper shoes making machine
5	Auto stitching machine	It is used to stitch typical designs in upper component
6	UV Curing (Reactivator) machine for Non-Leather Soles	To reactivate EVA Sole for bonding preparation
7	Toe Crowning machine	To flatten the lasting margin at the toe part to seat perfectly on the soles
8	Sole Driller	To make hole on Hawai Chappal
9	Strap Inserter	To insert strap in Hawai Chappal
10	Heat Pressing	Heat treatment process --- in attaching sole and upper
11	Scribing Machine	Machine for engraving
Machine for footwear component making:		
S.no	Name of the machine	Description
1	150 mm EVA granule line	To produce elastomers polymers granules of desired properties
2	18 colours sticker making machine	To produce two or more layers different colour silicon sticker
3	Baking line conveyor	To bake product in required temp.
4	Bits filling machine	Use for fill small balls in transparent TPU sole
5	ETPU machine	Use to produce ETPU foamed sole products
6	Frame making table	Use for frame making for screen printing
7	PVC air blow machine	Use for make PVC bond (PVC shoes) & belly
8	Rubber punching machine	To punch rubber
9	TPU vacuum fusing machine	Use for TPU component paste on upper by hot & cold process & create vacuum to remove bubbles
10	Bucket press	It used to attach and strengthen bonding , sole with upper with pneumatic pressure
11	Folding insole binding machine	The machine has function of binding of insole with delicate and fine folding
12	Sole EVA blocker pasting	Has the function of pasting of EVA sole
13	Screen stretcher	Screen stretchers stretch mesh over a screen frame with maximum accuracy in screen printing
14	Screen reflect machine	Image reflecting mc used for screen printing

15	2D transfer machine	It used to print design on the EVA sole by transferring images from stickers to sole by heating process
16	3D heat transfer printing machine	It used to print design on the EVA sole by transferring images from stickers to sole by heating process
17	Palletizing	It used make EVA/TPR granules used for making soles in raw material
18	Eva footbed moulding hot & cold press	It used make EVA footbed used in full shoe, using compression moulding process
19	Eva foaming machine – 2 colour	Eva sole making machine
20	Jointing & splitting machine	To joint and split Eva sheet
21	High speed wrapping machine	Use for thread wrapping of jacquard knitting machine
22	Carbon fibre making machine	Use for making raw material shoes upper and insole
23	Kneader	Used for kneading the EVA or Rubber raw materials to feed mixing mill
24	Flocking machine	It used to make soft surface on the sole with the help of flocks followed by gluing
Machine For Leather Goods		
1	Automatic Screen Printing	This automatic screen printing machine will run in the screen printing bed to print the design in the leather good components
2	Screen print Glass Table with equipment's	These machines are primarily utilized to fix leather components into the tables for making screen printing
3	Logo fixing machine	These machines are primarily utilized to fix the metal logo hardware in the leather components
4	Heat Included Bonding Machine, single station/dual station/rotary	A machine with a Pneumatic actuator housing a heated aluminium Plate to press and fuse the components.
5	Edge burning machine	These machines are primarily utilized to remove the burr & Smoothen the edges of the leather components
6	Hot Plate	Utilized to melt the TPU in appropriate temperature in the leather components
7.	Leather Strip Bevelling Machine	These machines are utilized to form the leather with appropriate required shape
8	Handle Roll Forming Machine	Manually operated Handle shaping machine that uses Three Custom designed Roller arranged to impart the desired shape to the handles to improve the aesthetic appearance of the Component
9	Automatic Shell Folding Machine-Light Duty	Primarily utilized to fold the shell components and used to attach the bottom of the leather bag operation
10	Computerised auto size Cutting M/c for various material	To cut the various material like (Webbing, tube, reinforcement, TPU, paper) used in various components
11	Zipper folding with Shell Attaching Machines-Light Duty	To precisely fold the zipper over the shell

12	Seam Opening Machine	To open the seam in the assembled shell leather goods.
13	TPU - Lamination sheet Auto Size Cutting Machine	to cut the Bonded Leather with like (Webbing,tube, reinforcement,Tpu paper) used in various components leather goods to the required length
14	Laser cutting machine	To cut hard goods component panel
15	Ultrasonic sealing machine	Primarily utilized to seal the leather/pu/lining panels of leather goods components
16	High Frequency Embossing Machine	To emboss the leather /pu components
17	Weaving machine	To weave leather lace
18	CNC and Punching Machine	To weave punch leather products in different shapes & sizes
19	Metal hardware Logo Fixing	To fix the metal hardware in to the leather components
20	Mignon Strap Gluing /Folding/Drying M/C	To fold the leather laces different shapes & sizes
21	Metal Hardware Grinding Machine	To grind metal hardware
22	Dual Shaft Shredder Machine (Hardware disposal M/c)	To dispose metal hardware waste
23	Edge drying conveyor	Fast dry production components for bags & leather goods
24	Automatic Belt production Line	For integrated operation for belt production
25	CMM - Coordinate Measuring Machine	To measure leather goods of different shapes and sizes in making assembly
26	Belt Softening machine	Used to softening the belt during manufacturing process.
27	Zipper teeth removing machine	Suitable for metal zipper clean and stripping.
28	X ray based inspection system	used to inspect packages for internal defects and interconnect problems.
29	Vertical sleeking machine	Used to product packaging
30	Scrap compactor	Industries have a system to help you quickly recover these metals and cost effectively gets your scrap back to the processors.
31	Compression set apparatus with cutting die	Used to Cut the sample and measure the thickness of the sample.
32	Digital Lastometer with cutting die	Testing machine
33	Collapsing load & shape retention tester	Measurement of the area shape retention and collapsing load of formed box toe (toe puff) and counter (stiffener) materials

Machine for Prototyping:		
S.no	Name of the machine	Description
1	3D Printer	Used for rapid prototyping of footwear, components, accessories.
2	Laser Marking machine	to mark the metal moulds & dies used for making leather goods components
3	3D hologram projector	Photography equipment
4	EDM Wire cut Machine	Allows the wire to cut through metal by the use of heat from electrical sparks, while preventing rust
5	EDM Spark Machine	Spark machining is a subtractive machining process that attains a desired shape by producing sparks that melt tiny portions of a metal work piece.
Other machine:		
S.no	Name of the machine	Description
1	Hot melt thread making machine	Use for making thread for shoes upper
2	Rewinder	Use for winding thread in small cone
3	Bubble testing machine	It is used to check if the water proof upper
4	Metal detector	It used to detect any foreign metal material in the packed shoe boxes
5	Non-woven dipping machine	Is used for non-woven bag printing
6	Non-woven needle punching fabric making	used for production of common non-wovens such as asphalt felt substrate, shoe material , carpet, geo-textile, synthetic leather substrate ,etc.
7	Glass bead blasting machine	It used to clean the surface of sole moulds by forcibly blowing glass beads over the surface of moulds
8	LPG boiler	It is LPG fluid thermic oil boiler used for heating oil circulating the moulding machine
9	Vaporizer	It is used to vaporise LPG coming out of cylinder to feed the thermic oil boiler
10	Thread Rolling machine	For creating thread on nails
11	Cracker mixing mill	Use for recycling the waste rubber
12	Polishing Drum	Polishing nails/tacks to remove the burr.
13	Lace making machine	For weaving Laces
14	Round Chord Circular Knitting machine	To weave round lace around a chord

15	Fast Knit braiding machine for round draw chord	To manufacture round lace.
16	Lace Tipping machine	To apply plastic tip on lace.
17	High speed braiding machine	To manufacture braided lace.
18	Bobbin winder for lace making machine	A separate equipment to fill up thread cone for lace making machine.
19	High speed shuttle less needle loom	For making lace.
20	Eva powder making machine	Use to recycling of EVA products to convert into powder form for further reuse in EVA compounding
21	Eva scrap powder making machine	Use for making EVA power from scrap
22	Eva sheet jointing machine	Use for cut EVA sheet first head, trimming & jointing
23	Rubber powder making machine	Use to making rubber powder from waste material
24	Rubber slice cutting machine	Use for cut rubber sheet at required length
25	Wet powder groove machine	Use for cooling rubber sheet after passing the mixing mill
26	Crumbling machine	Used for recycling rejected rubber soles
27	Sheet curing chamber	It is used for heat treatment of the rubber sheets
28	Eva/rubber cracker machine/plant	It is used to recycle waste EVA and rubber
29	Slicing machine – rubber	It is used make the slices of rubber sheets
30	Board cutting machine	Cutting auxiliary components used for footwear
31	Hot melt film making machine	Use for TPU/EVA and other raw material lamination
32	Warp knitting machine	Used for the yarn zigzags along the length of the fabric
33	Laminating machine for technical textile	To create various appearance/ textures/design on the surface of textile by lamination.
34	Warping machine	Beam type
35	Cracker Roll machine	This machine is used for recycling waste EVA/Rubber soles to become reclaimed rubber / EVA
36	Refiner mil	This machine is used for making homogeneous sheets of reclaimed EVA / Rubber
37	Wire Nail Making machine	To manufacture various types of nail
38	Fabric Spreader Machine	For better utilization of fabric
39	Collaborative robotics machine	Inspection and picking, to help workers focus more on tasks that require problem-solving skills
40	Zipper End Y Stopper Fixing machine	to fix the zipper end
41	Zipper gapping machine	Used to cut zipper in desired length
42	Ultrasonic Piniking machine for zipper	To create zigzag in the zippers
43	7 axis Vertical Machining Center with accessories	CNC Machine to make mould and dies

44	Vacuum Palletising Machine	Used in warehouse to palletize the leather goods finished boxes
45	Automatic Carton Box Packing Machine	Used for automatic packing of goods
46	AI / Camera Vision Inspection system	Used to inspect the hardware & leather parts
47	Drum cooling for Rubber	Cooling chamber for Rubber produced material
48	Teflon Coating machine	It used make non-stick Teflon coating over the moulds
49	Pulveriser	Raw material to be pulverised before the crushing chamber
50	Metal flow index	It used to detect any foreign metal material in the packed shoe boxes
51	Manual stacker	Is used to lift the material.
52	Solvent extraction and recycling machine	A solvent re-cycler machine removes soils, debris and oils from used cleaning solvent through distillation, and allows for reuse of the cleaning solvent.
53	Fire fighting equipment	used to protect human bodies from burning.
54	Shoe lace making plant	Used for making of shoe lace.
55	Canvas shoe mould set	Used for making soles
56	Single color nursing shoe mould	Used for making soles
57	Single color kids mould set	Used for making soles
58	Hydraulic upper set	Use to get embossing like shape in upper component
59	Heated thermic oil storage tank	Used to store the heated oil in the thermic oil heating system
60	Reeling line machine	A thread winding machine
61	High speed chiller	Used to attach and strengthen bonding
62	Automatic sole surface drilling machine	Pressing machine
63	Prelathe machine-Shoe last	Used mill the PVC shoe last
64	Flocking machine spray booth set	Used to spray fine flocks.
65	Blocker machine	Used to make EVA sole from EVA granules

Laboratory and R & D Machine

1	Humidity chamber	To test ageing of components
2	Luggage Vibrant Impact Tester	Cycling Test (for Hand Bags)
3	XRF Analyser	To test heavy metal in leather and other material
4	Weatherometer	For testing impact of weather
5	Ozone chamber	For testing component
6	Water vapour permeability	To check water vapour penetration
7	Radiometer	To check the intensity of UV dosage act over the EVA soles