INTEGRATED DEVELOPMENT OF LEATHER SECTOR (IDLS) SCHEME

LIST OF FOOTWEAR AND FOOTWEAR COMPONENTS MAKING MACHINES APPROVED FOR XII FIVE YEAR PLAN

SI. No.	Sub SI. No.	APPROVED FOR XII FIVE YEAR PLAN NAME OF THE MACHINES
Α	Machnies for	footwear manufacturing
	DESIGNING	AND PATTERN MAKING
'	1	CAD System
	2	Plotter & Cutter
1	3	Digitizer
	4	Hand-operated cutter
	5	Electric pantograph
	6	Numeric control for fibred cardboard series cutting
-	7	Micro-clicking press with turning arm Computer aided cutting table
	8 9	Shoe last thermoforming machine
	10	Model area measuring machine
	11	Patiern Shear
	12	Rapid prototyping m/c
	13	Software - Corel Draw, Adobe Photoshop, Auto CAD 3D MAX
•	14	ERP software
	15	Desktop Computers with color Monitors & CD writers
	16	Color Printers
l II	CUTTING	
	1	Sewing arm clicking press Arm-type clicking press with automatic movement
1	2	
	3 4	Beam press Traveling head press
	5	NC die-cutting system
	6	Nesting and dieless cutting system
	7	Area Measuring machine
	8	Welding-shearing die-cutting machine
4	9	High-frequency type machine
	10	Strip cutter machine
	11	Multi-cutting machine
	12	Laser Etching / Engraving machine
	13	Crimping machine
HI	MACHINES	O 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
1	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
1	9	Plating machine to emboss or print leather Perforating machine to make shoe lace holes
	10	Perforating and decorating machine
1	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
ļ	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 Post bed single needle sewing machine with or without thread cutter
1	24	Post-bed double needle sewing machine.
	25	Prost-ped double fleetile sewing finactime.

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43 Heel nailing machine			
		43	Heer naming machine

	44	Gang nailing machine Channeling machine for lasted shoes and soles
	45	
	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
		DIP Moulds (Top and bottom)
	73	UV activation chamber
	74	Spray booth
	75	
	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
В	MACHINES	TO PREPARE FOOTWEAR COMPONENTS
ŀ	Toe Caps	
	1	Skiving machines with cutting lubrication
Ħ	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
[]]	Insoles	1
***	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
		Matrix Skiving machine for fiberboard
	5	Machine to fit metal shanks to board shanks
	6	
	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

Ì	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
Ϊ́	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
1	7	Lift flaring machine
ĺ	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
l	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
1	22	Super flow machines for pigment dispersion
	23	A.T.T machine with carbon balls for synthetic heel finishing
V	Out Sole	
1	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 Trimming machine for soles or foam half soles
	8	dge trimming machine
	9	Trimming machine to make antistip lines
1	10	Roughing machine
	11	Edge roughing and growing machine
-	12	Heel seat roughing machine
	13	Roughing machine for half sole
1	14	Halogenating machine for rubber soles and similar materials
1	15 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
		Workbench with adhesive spraying (water-based and Polyurethane adhesive)
ŀ	22	Injection press for top pieces
	23	Sole edge cementing machine
	24	Welt attaching machine
	25	Welt chamfering at the beginning and at the end of application
	26	Halogenating machine for rubber soles and similar materials
	27	Stamping machine to print brand and number
	28	Stamping machine for identification through processing cycle
	29	Decoration machine for stitch separation and grooving
1	30	Topside cementing machine with soft roller
1	31	Topside detricting fracting with our foliar
		IComenting machine With pressure roller, for pre-ligisticulatic cuuc
	32	Cementing machine with pressure roller, for pre-finished sole edge
	32 33	Pressurized tank for cement spreading with gun and brush
	32	Pressurized tank for cement spreading with gun and brush Workbench with adhesive spraying (water-based and Polyurethane adhesive) Injection press for top pieces

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	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
1	45	Automatic heel nalling 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
		Rubber mixing mill
1	62	
	63	Kneader
	64	Calendering
	65	Rubber extruder
	66	Bale cutter
	67	Ultrasonic rubber cleaner
	68	Rheometer
	1	
VI	Leather Welt	
VI	1	Machine to square various material
VI	1 2	Machine to square various material Machine to blunt joints
Vi	1 2 3	Machine to square various material Machine to blunt joints Roughing machine
VI	1 2 3 4	Machine to square various material Machine to blunt joints Roughing machine Channeling machine
VI	1 2 3 4 5	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application
VI	1 2 3 4 5 6	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine
VI	1 2 3 4 5	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Stitch separating machine
VI	1 2 3 4 5 6	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine
VI	1 2 3 4 5 6	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Stitch separating machine Cementing machine Seam press
VI	1 2 3 4 5 6 7	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Stitch separating machine Cementing machine
VI	1 2 3 4 5 6 7 8	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Stitch separating machine Cementing machine Seam press
VI	1 2 3 4 5 6 7 8 9	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Sittch separating machine Cementing machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine
VI	1 2 3 4 5 6 7 8 9	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Sittch separating machine Cementing machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine Machine to wrap and count meters
VI	1 2 3 4 5 6 7 8 9 10 11	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Sittch separating machine Cementing machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine
VI	1 2 3 4 5 6 7 8 9 10 11 12	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Sittch separating machine Cementing machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine Machine to wrap and count meters
VI	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Stitch separating machine Cementing machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Plotter to write and engrave
VI	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Stitch separating machine Cementing machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Plotter to write and engrave Varnishing tank
VJ	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Stitch separating machine Cementing machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Plotter to write and engrave
V	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Sittch separating machine Cementing machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Plotter to write and engrave Varnishing tank Edging shear for shaping the steel Sharpening machines
V	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Sittch separating machine Cementing machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Plotter to write and engrave Varnishing tank Edging shear for shaping the steel Sharpening machines Welding bench
VI	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Sittch separating machine Cementing machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Plotter to write and engrave Varnishing tank Edging shear for shaping the steel Sharpening machines
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VI	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Machine for	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Stitch separating machine Cementing machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Plotter to write and engrave Varnishing tank Edging shear for shaping the steel Sharpening machines Welding bench Sundry accessories Manufacturing Shoe Last
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	1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Machine for 1 2	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Stitch separating machine Cementing machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Piotter to write and engrave Varnishing tank Edging shear for shaping the steel Sharpening machines Welding bench Sundry accessories Manufacturing Shoe Last Machines for making plastic blocks Machines for sizing of plastic blocks
	1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Machine for 1 2 3	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare wells for Goodyear application Grooving machine Sitch separating machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Plotter to write and engrave Varnishing tank Edging shear for shaping the steel Sharpening machines Welding bench Sundry accessories Manufacturing Shoe Last Machines for making plastic blocks Machines for sizing of plastic blocks Machines for turning of plastic blocks both mechanical as well as CAD/CAM including computer systems
	1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Machine for 1 2 3 4 4	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare wells for Goodyear application Grooving machine Sitich separating machine Cementing machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Plotter to write and engrave Varnishing tank Edging shear for shaping the steel Sharpening machines Welding bench Sundry accessories Manufacturing Shoe Last Machines for making plastic blocks Machines for straing of plastic blocks Machines for turning of plastic blocks both mechanical as well as CAD/CAM including computer systems Machines for making hinges
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Machine for 1 2 3 4 5	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Stitch separating machine Stitch separating machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Plotter to write and engrave Varnishing tank Edging shear for shaping the steel Sharpening machines Welding bench Sundry accessories Manufacturing Shoe Last Machines for making plastic blocks Machines for sizing of plastic blocks Machines for turning of plastic blocks Machines for making hinges Machines & jigs & fixtures for fixing of hinge assembly in plastic turned block
	1 2 3 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 Machine for 1 2 3 4 5 6	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Sitich separating machine Seam press Sewing machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Plotter to write and engrave Varnishing tank Edging shear for shaping the steel Sharpening machines Welding bench Sundry accessories Machines for making plastic blocks Machines for stzing of plastic blocks Machines for stzing of plastic blocks both mechanical as well as CAD/CAM including computer systems Machines & jigs & fixtures for fixing of hinge assembly in plastic turned block Machines for digitising lasts by CAD/CAM including software including computer systems
	1 2 3 4 5 6 7 7 8 Machine for 1 2 3 4 5 6 7 7	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare wells for Goodyear application Grooving machine Sitton separating machine Sitton separating machine Cementing machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Plotter to write and engrave Varnishing tank Edging shear for shaping the steel Sharpening machines Welding bench Sundry accessories Manufacturing Shoe Last Machines for making plastic blocks Machines for turning of plastic blocks both mechanical as well as CAD/CAM including computer systems Machines for turning of plastic blocks both mechanical as well as CAD/CAM including computer systems Machines for digitising lasts by CAD/CAM including software & computer systems Machines for making patterns by CAD including software & computer systems
	1 2 3 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 Machine for 1 2 3 4 5 6 7 8	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Sitch separating machine Cementing machine Seam press Sewing machine for decorations Stich-separating machine Machine to wrap and count meters Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Plotter to write and engrave Varnishing tank Edging shear for shaping the steel Sharpening machines Welding bench Sundry accessories Machines for making plastic blocks Machines for making plastic blocks both mechanical as well as CAD/CAM including computer systems Machines for making hinges Machines for digitising lasts by CAD/CAM including software including computer systems Machines for making plasters by CAD/CAM including software including computer systems Machines for making plasters by CAD/CAM including software including computer systems Machines for making platters by CAD/CAM including software including computer systems Machines for making patterns by CAD including software including computer systems Machines for making patterns by CAD including software & computer systems Machines, jigs & fixtures & gadgets to check last structure
	1 2 3 4 5 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Sitich separating machine Cementing machine Seam press Sewing machine for decorations Sitich-separating machine Automatic spraying machine Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Piotter to write and engrave Varnishing tank Edging shear for shaping the steel Sharpening machines Welding bench Sundry accessories Machines for making plastic blocks Machines for sizing of plastic blocks both mechanical as well as CAD/CAM including computer systems Machines for making lasts by CAD/CAM including software including computer systems Machines for digitising lasts by CAD/CAM including software including computer systems Machines for finishing of last both mechanical as well as CAD/CAM including computer systems Machines for making patterns by CAD including software including computer systems Machines for finishing of last both mechanical as well as CAD/CAM including software & computer systems Machines for finishing of last both mechanical as well as CAD/CAM including software & computer systems Machines for finishing of last both mechanical as well as CAD/CAM including software & computer systems
	1 2 3 4 5 6 7 8 9 10 10 11 10 12 13 14 15 16 17 18 19 20 10 11 10 10 10 10 10 10 10 10 10 10 10	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Stitch separating machine Seam press Sewing machine for decorations Stitch-separating machine Automatic spraying machine Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Plotter to write and engrave Varnishing tank Edging shear for shaping the steel Sharpening machines Welding bench Sundry accessories Manufacturing Shoe Last Machines for making plastic blocks Machines for sizing of plastic blocks Machines for turning of plastic blocks both mechanical as well as CAD/CAM including computer systems Machines for finishing lasts by CAD/CAM including software including computer systems Machines for making patterns by CAD including software including computer systems Machines for making patterns by CAD including software including computer systems Machines for making patterns by CAD including software & computer systems Machines for making patterns by CAD including software & computer systems Machines for making patterns by CAD including software & computer systems Machines for making patterns by CAD including software & computer systems Machines for making patterns by CAD including software & computer systems Machines for finishing of last both mechanical as well as CAD/CAM including software & computer systems Machines for preparing, fixing & finishing of iron plates on last
	1 2 3 4 5 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Machine to square various material Machine to blunt joints Roughing machine Channeling machine Machine to prepare welts for Goodyear application Grooving machine Sitich separating machine Cementing machine Seam press Sewing machine for decorations Sitich-separating machine Automatic spraying machine Automatic spraying machine Machine to wrap and count meters Automatic cementing-winding for welt (with counter) Piotter to write and engrave Varnishing tank Edging shear for shaping the steel Sharpening machines Welding bench Sundry accessories Machines for making plastic blocks Machines for sizing of plastic blocks both mechanical as well as CAD/CAM including computer systems Machines for making lasts by CAD/CAM including software including computer systems Machines for digitising lasts by CAD/CAM including software including computer systems Machines for finishing of last both mechanical as well as CAD/CAM including computer systems Machines for making patterns by CAD including software including computer systems Machines for finishing of last both mechanical as well as CAD/CAM including software & computer systems Machines for finishing of last both mechanical as well as CAD/CAM including software & computer systems Machines for finishing of last both mechanical as well as CAD/CAM including software & computer systems

	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	ACCESSOR	IES -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 the Steering Committee on the recommendations of PIU