HINDUSTAN PREFAB LIMITED

(A Govt. of India Enterprise)
Jangpura, New Delhi-110014

CONSTRUCTION OF 150 BEDDED ESIC SUPER SPECIALTY HOSPITAL AT PANDEYPUR, VARANASI.

TECHNICAL SPECIFICATIONS OF LAUNDRY EQUIPMENTS

ANNEXURE ‘A’

TECHNICAL SPECIFICATION FOR LAUNDRY

DETAILED TECHNICAL SPECIFICATIONS OF
Barrier Washer Extractor (High Spin)
Specially Designed For Use In Hospitals, Nursing Homes
And Other Hygienic Applications, Heavy-Duty Design And Construction
60 Kg Capacity (Electric Heated)

SL. NO.	FEATURES	DESCRIPTION
1	Capacity - kg	60
2	Inner Drum & Basket	* Stainless Steel drum and basket * Automatic drum positioning
3	Drum Volume	663 Ltrs.
4	Drum Diameter	2x Φ75
5	Wash Speed	41 RPM
6	Highest Spin Speed	915 RPM
7	G-Force	360
8	Water Inlet	3/4"
9	Water Inlet Valve Count	3 No's
10	Minimum Drain Size	76 mm
11	Electric Heating	54 KW
12	Overall Dimensions	1650 mm x 2160 mm x 1170 mm HxWxD

DETAILED TECHNICAL SPECIFICATIONS OF

Barrier Washer Extractor (High Spin)
Specially Designed For Use In Hospitals, Nursing Homes
And Other Hygienic Applications, Heavy-Duty Design And Construction

30 Kg Capacity (Electric Heated)

SL. NO.	FEATURES	DESCRIPTION
1	Capacity - kg	30
2	Inner Drum & Basket	* Stainless Steel drum and basket * Automatic drum positioning
3	Cylinder	Diameter 750 mm, Volume: 280 Ltr
4	Door	Door Dimension H 325 / W 496 MM * Opposed (180°) doors for loading and unloading * Automatic door locking/unlocking
5	Wash Speed	42 RPM
6	Extract Speed	914 RPM
7	G-Force	350
8	Motor	2.2 KW
9	Water Inlet	¾"
10	Water Inlet Valve Count	3 No's
11	Minimum Drain Size	76 mm
12	Electric Heating	21.9 KW
14	Overall Dimensions	1240 mm x 1235 mm x 1610 mm (W x D x H)

TECHNICAL SPECIFICATIONS OF
DRYING TUMBLER 30 Kg Capacity (Electric Heated)

SL. NO.	FEATURES	DESCRIPTION
1	Inner Basket	Densely perforated SS AISI 304 quality used. Argon Arc Welding, single and un-visible joint, 1 mm thick sheet used.
2	Sides of Basket Material & Thickness	1.6 mm Stainless Steel, AISI 304 Quality
3	Basic Structure	Double walled glass wool insulated, 1.25 mm to 3 mm thick CRC sheets used & M.S. plates 5 mm to 8 mm thick used.
4	Size of the Basket	950 Dia X 950 Depth, Volume 670 Ltrs.
5	Volume	670 Ltrs.
6	Loading Ratio	1:20
7	Door	Die pressed door M.S. 2.5 mm thick PU painted with toughened glass.
8	Door Opening	Ø 640 MM
9	Drive	Idler type system used 0.75 KW, 6 Pole Motor Crompton Greaves/ABB/BBL/Siemens or Equivalent Make., Main taper lock bush, with 18” x 2A pulley duly taper lock bush run through motor pulley of 3” x 2A size
10	Electric Heating	24 KW, finned type heaters tubular heating elements used made out of S.S pipes. Long life heaters double protection given through digital temperature controller & Imported Italian thermostat.
11	Suction Blowers	1 No. Alu. Centrifugal blowers directly mounted on 0.75 KW 4 Pole motor BBL or equivalent make, duly statically as well dynamically balanced.
12	Painting	PU paint done after complete rust removal through rust removal chemicals prior to epoxy priming & knifing putty base.
13	Control Panel	Switch gear used with motor protection relays, single phasing preventer, reverse phasing, Auto timed, Auto reverse with indicators etc. D.O.L
14	MCB	Provided at back side of Machine for Electric incoming connection to the Machine.
15	Overall Dimensions	1050 x 1540 x 1980 (W x D x H)

DETAILED TECHNICAL SPECIFICATIONS OF
FLAT WORK IRONER
SIZE 20 X 120 (Single Roller) (Steam Heated)

SL. NO.	FEATURES	DESCRIPTION
1	Roller Size (Padded)	508 Dia x 3048 Length
2	Roller	Rolled & fabricated in Boiler quality steel plates, precision machined with drilled perforations. Runs on self aligning roller bearings. One side has hollowed shaft for moisture suction & the other side is solid for drive.
3	Overall Dimensions	Width: 3500mm Depth: 1500mm Height: 1350
4	Ironing Chest	Fabricated in boiler quality steel plates duly annealed. Stepless machining & Grinding. Ground smooth and polished in the direction of flow of linen. Suspended at four corners on large pneumatic cylinders. 180° contact angle with the roller. Adjustable & uniform ironing pressure across the entire roll. Chest lowers automatically at the time of power failure or when the machine is stopped.
5	Type of Lowering & Lifting of Chest	Pneumatically Operated
6	Main Body	Made out of Steel plates & channel base frame, Shot Blasted & Hot Painted. Stainless steel feed & collection trays.
7	Drive	Single Motor with Gear Box and Variable Frequency Drive for variable roller & feed conveyor speeds.
8	Switchgear	All L&T Motor through AC inverter
9	Drive Motor	2.2 KW 415V, 3 Phase, AC, Crompton Greaves / Bharat Bijlee or Equivalent
10	Blower Motor	0.75KW (1 HP) 415V, 3 Phase, AC Crompton Greaves / Bharat Bijlee or Equivalent
11	Suction Blower	Direct mounted centrifugal blower on the roller. Heavy duty 1 HP blower driven by independent blower motor. Air flow 80 cubic meter per minute.
12	Gears	Helical Gears for Final and Positive drive, Helical Gear and Pinion used. (90MM to 100 MM)
13	Conveyor Feed Roller	Rubberised with Air Blow feeding for perfect linen edge hold.
14	Conveyor Belts	100% polyester with welded seam of thickness of 2mm & width of 50mm with S.S. comb hooks.
15	Exhaust	100mm dia
16	Controls	Digital control. Auto digital temperature control, Rocker switch for forward-reverse chest rotation, Emergency stop. Auto cut off for false feeding & finger safety.
17	Air Connection	15mm dia (0.5” BSP) with Miniature, Filter, Lubricator & Pressure Regulator.

18	Electric Consumption	24 KW
19	Electric Supply	415V 10%, 3 Phase + N, 50 Hz AC
20	VFD	Denfoss / Delta Make

TECHNICAL SPECIFICATIONS OF VACCUM IRONING TABLE

SL. NO.	FEATURES	DESCRIPTION
1	Table Top Size	1220 mm x 750 mm
2	Main Body	Formed out of steel sheets, Powder Coated painted, all components easily accessible.
3	Table Top	M.S. sheet (powder coated) of minimum 1.5 mm thickness perforated flat top padded with high porosity & heat resistant silicon padding & final cover.
4	Suction Blower	Heavy duty 1 HP centrifugal blower driven by independent blower motor activated by spring loaded full length foot pedal work in conjunction with study micro switch.
5	Heater	Full stainless steel in-built heater of minimum 1 KW capacity.
6	Electric Supply	230 V ± 10%, Single Phase

STEAM IRON, ATTACHMENTS & ACCESSORIES:

1	Electric Steam Iron	Die cast sole plate built in moisture traps, 100% Dry steam, rubberized handle with concealed soft micro switch, thermostatically heated element.
2	Teflon Shoe, Aluminium Armoured & spring loaded.	

ELECTRIC STEAM GENERATOR, 08 KW

SL. NO.	FEATURES	DESCRIPTION
1	Pressure Vessel	Boiler quality steel construction. S.S. heavy duty electric heaters, imported water level regulator, electric solenoid steam release safety valve, water into the vessel.
2	Rating	08 KW
3	Steam Output	8 Kg. / Hr.
4	Suitable for No. of Irons	2
5	Body	2 MM, M.S. Powder coated.
6	Pressure Vessel	Boiler quality construction 10 MM thick seamless
7	Heaters	S.S. Heavy duty Electric Heaters used.
8	Pump	Water feeding pump of 1 HP capacity
9	Control Panel	Contactors 1. 25 AMP 1 No 2. 16 AMP 1 No
10	Electric Pressure	Imported Italian
11	Mechanical Safety Valve	Imported Italian
12	Water Level Controller	Imported Italian

TECHNICAL SPECIFICATIONS OF AIR COMPRESSOR 3HP CAPACITY

Air Compressor designed for reciprocating type, tank capacity 160 Liters, fully automatic, complete with driving mechanism with matching electric motor, three phase, 415 volts, 50 cycle, V belts mounted on common base frame, on cushy foot pads including control valves, piping, DOL starter, isolator etc including MS XPM protection guard for belt drive all as specified.

* 3 HP Capacity

TECHNICAL SPECIFICATIONS OF GENERAL UTILITY PRESS

SL. NO.	FEATURES	DESCRIPTION
1	Head & Bed Size	350mm x 1190mm
2	Main Body	Fabricated out of steel plates with channel base frame, shot blasted & hot painted.
3	Head	Stainless Steel plate of minimum 3mm thickness duly annealed, ground smooth and polished, pneumatic raising & lowering with push buttons at front work table, spring suspended on rocker arm for self aligning with the buck.
4	Buck	Firmly padded with Heat resistant Molleton / Silicon padding.
5	Rocker Arms	Secured on to a large pneumatic cylinder with counter balanced springs, mounted on ball bearing. Cylinder Size: Bore 150mm X Stroke 300mm
6	Controls	Two green Jumbo push buttons for the lowering of head at the front work table, red jumbo push buttons for instant release.
7	Suction Blower	Heavy duty 1 HP centrifugal blower driven by independent blower motor, air flow not less than 25m3 / minute.
8	Blower Motor	0.75 KW (1 HP)
9	Exhaust	Extended exhaust duct with lighting device.
10	Electric Heated	12 KW, Dry Heaters, Homogenous, Heating.
11	Steam Consumption	24 Kg./Hr.
12	Air Connection	70 Ltrs./Min.

Note: ***Dry Air with moisture separator is required for the long life of Pneumatic Valves.***

TECHNICAL SPECIFICATIONS OF PERC DRY CLEANING MACHINE

10 Kg Capacity

SL. NO.	FEATURES	DESCRIPTION
1	Rated Capacity (dry) Kg	10 Kg
2	Washing speed	42 rpm
3	Extract speed (medium/high)	550/800 rpm
4	Solvent	Perchloroethylene
5	Control system	Computer controlled for any programme step and parameter & Full automatic operation
6	Power supply (V/Hz/phase)	415V ± 10%, 3 Phase , 50 Hz AC
7	Total installed power	10 KW (Approx)
8	Dimension (approx)	1510×1344×1850mm
9	Noise	≤ 70dB

TECHNICAL SPECIFICATIONS OF STACK WASHER / DRYER

10 Kg Capacity (Electric Heated)

SL. NO.	FEATURES	DESCRIPTION
1	Capacity of Washer In KG	10
2	Capacity of Dryer In KG	10
3	Inner Drum	Stainless Steel drum
4	Washer Drum Volume In Ltr	96.8
5	Dryer Drum Volume In Ltr	198
6	Extraction Speed Washer	1200 RPM
7	G-Force Washer	440
8	Washer Motor	0.67 KW
9	Dryer Motor	0.25 KW
10	Dryer Heating	5.2 KW
11	Water Inlet Valve	3/4"
12	Overall Dimensions	1986 mm × 683 mm × 704 mm (W x D x H)

TECHNICAL SPECIFICATIONS
OF SPOTTING MACHINE

Spotting Machine, without Compressor, Three Cold Spotting guns, one air/steam heat proof gun, Two S.S. suction tables.

SL. NO.	FEATURES	DESCRIPTION
1	Overall Dimension	1400 mm X 660 mm X 1600 mm (L X W X H)
2	Work Table Size	700 mm X 330 mm X 60 mm (L X W X H)
3	Suction Arm Size	400 mm X 130 mm X 30 mm (L X W X H)
4	No. of Chemical guns	2 + 1
5	Suction Motor	0.75 HP

NOTE: All Dimensions are in MM. Standard Machines Operate on 415+ 10%, 3 Phase, 50, CYS AC Electric Supply, Special Voltage on request.

TECHNICAL SPECIFICATIONS OF
DRY LINEN TROLLEY (PLASTIC BODY)

Overall Dimensions: 940mm (w) x 630mm (d) x 870mm (h) Fibre Body
Fibre Body, with Stainless Steel Handles and revolving wheels., fitted with 4 nos. swiveling type 150 mm dia ball bearing wheels.

TECHNICAL SPECIFICATIONS OF
WASH ROOM TROLLEY (S.S. BODY)

Full Stainless Steel, formed out of S.S. tubes & S.S. Sheet cladding, round tubular handless on both sides welded construction, fitted with 04 nos. swiveling type 150 mm ball bearing wheels.
Overall Dimensions: 940mm (w) x 630mm (d) x 870mm (h)

TECHNICAL SPECIFICATIONS OF
SHELF TROLLEY

Formed out of steel tubes, Galvanized & hot painted, round tubular handle on the side, fitted with 04 nos. nose swiveling type 150 mm dia ball bearing wheels.

TECHNICAL SPECIFICATIONS OF
SINGLE SINK SCRUBBING STATION MODEL FSS

Full Stainless Steel construction. Large deep drawn 1 Nos. stainless steel sinks of minimum size 350mm x 410mm x 210mm with Hot and Cold water mixers mounted on both sinks individually. Stainless steel scrubbing board in between and under S.S. shelf.

DETAILED TECHNICAL SPECIFICATIONS OF MOBILE TABLE

Formed out of S.S. tubes , Galvanized & hot painted, square fitted with 04 nos. swiveling type 150 mm dia ball bearing revolving wheels, **Stainless Steel top.**
Table Size 2½' X 10'.