No. IV-21011/45/2009-Prov-I Government of India Ministry of Home Affairs

26, Man Singh Road, Jaisalmer House,

New Delhi, 29.7.2010
To, 104 Illor 5/08 5/07
The DGs:Assam Rifles/BSF/CISF/CRPF/ITBP/NSG/SSB/BPR&D

Subject:-Specifications of various Medical/Hospital Equipments,Laboratory equipments and Laundry equipments -regarding

Sir,

The Specifications for the following Medical/Hospital Equipments, Laboratory equipments and Laundry equipments have been accepted and approved by the Competent Authority in MHA and the same are enclosed for information and Record:-

- 1. Condom Vending Machine- Annex-I
- 2. Flowcytometer- Annex-II
- 3. Laboratory Equipments
- a) Coagulatation Analyzer- Annex-III
- b) Glycosylated Haemoglobin/Micro Albumin/CRP/D-Dimmer Analyzer-IV
- c) Urine Analyzer Annex-V
- d) Semen Quality Analyzer- Annex-VI
- e) Auto Pipette System- Annex-VII
- f) Anaesthesia Work Station- Annex-VIII

Laundry equipments- Annex-IX

- a) Washing Machine
- b) Drier Washing Machine- 30 Kg (Moderate size)
- c) Heavy Electric Press(Hand Operated)
- d) Hydro Extractor
- e) Table for pressing hospital linen
- g) Sluice machine
- h) Laundry Trolley
- i) Bulk sterilizer electric for sterilizing linen and mattresses

2. Henceforth, all the CPMFs should procure the above items required by them strictly as per the laid down Specifications.

Yours faithfully,

Under Secretary to the Govt. of India

Encls: as above

Copy to:-DD(Procurement),MHA

Copy for information to:-PS to JS(PM),MHA



QRs/Technical specifications for laundry equipment

Washing machine

a.	Institutional type washing machine of 30 kg capacity cycle
b.	Washing machine should be front loading type (vertical spread)
c.	Should be able to wash all type of fabrics & laundry linen
d.	Method of washing should be tumble wash
e.	Machine should be made of 304 grade of stainless steel (inner cage should have
	die-sunk perforations on adequate area and thickness should be of 14 SWG SS and
	outer body thickness 16 SWG 304 SS)
f.	It should have rustproof good quality powder coating/ stainless steel body
g.	Machine should have auto-reverse/open pocket with slow spin extract
h.	Machine should have large stainless steel front door with toughened glass with
	clear view.
i.	Machine should have auto temperature control, auto stop timer, auto-reverse and
	forwarding timer with digital temperature display
j.	Machine should have auto water level control with indicator.
k.	Machine should heavy duty motor with ISI Mark (Minimum 2.2 KW) Low and
	high voltage cut-off provision should be there. Motor should operate on 3 phase
	415 V, 50 Hz.
1.	Machine should have thermal overload protection
m.	Machine should have dual operating system option i.e. both electric and steam
	heating provisions
n.	Machine should have automatic door locking system while machine is in operation
0.	Machine should have safety interlock preventing running machine while front door
1	is opened
p.	Machine should have adequate sized water inlet and drain outlet size
q.	Machine should have adequate in-built safety measures.
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2. Drier Washing Machine- 30Kg (moderate size)

a.	Should be front loading type, open pocket with fully automatic system.
b.	Should be Electrically heated.
c.	Inner basket should be of stainless steel
d.	Should be Automatic auto timed, auto reverse, auto temperature control with solenoid valves.
e.	Should be highly energy efficient with double walled glass-wool insulation & lint screen
f.	Lid should be made of toughened glass with clear view with safety inter lock to

	prevent operation when the door is in open position
g.	Capacity should be 30 kgs
h.	Basket size should be: 950 x 950 mm
i.	Drive Motor should be: 1 HP
j.	Blower motor should be: 1 HP
k.	Exhaust size should be: 300 mm
1.	Overall Dimension should be 1060* 1570*1980 mm

Heavy Electric Press (Hand Operated)

a.	Should be all steam press finishing iron
b.	Should be excellent for all flatwork, extra wide sole plate speeds ironing for large
	area
c.	Should have adjustable bolt on steam valve to adjust steam quantities
d.	Should have parallel steam holes on the edge of iron base extensively makes
	spreading stem hard to press area easy.
e.	Should be adjustable venture valve draws any condensate that may form assuring
	100% dry steam and no water spurts
f.	Long life steam valve which should be almost maintenance free

Hydro Extractor

a.	Institutional type: - top loading type, self balancing direct drive with electrically
	heated
b.	Capacity should be 30 kg per cycle
c.	Should have silent vibration less operation
d.	Should have auto timed and auto stop features
е.	Should be long lasting & rust free
f.	Should have automatic DC injection brakes
g	Hydro-Extractor should have outer body and inner drum made of heavy gauze 204
	grade stainless steel
h.	Should have in-built safety measure, to prevent operation when the lid is in open
	position
i.	Machine should have heavy duty motor of ISI mark (minimum 3.7 KW)
j.	Motor should operate on 3 phase 415 V. 50 Hz
k.	Extract speed should be 1500 RPM

Table for pressing hospital linen

a.	Should be pneumatically controlled bed type table
b.	Should be head covered with Teflon sheet and large bed having good quality
	sponge covering
c.	Should be electric heated type
d.	Should be automatic auto time release, auto temp control, powerful moisture
	suction, pneumatic raising and lowering
e.	Should be head & bed type table size 1500 x 750 mm

f.	Should be maximum safety to operations	
g.	Should be suitable for ironing of hospital linen, uniform and patient dress	

Sluice machine

a.	Capacity should be 30 kg per cycle
b.	Sluice machine should be able to wash off blood stained and foul linen
c.	Sluice machine should be front loading type with in-built drain speed extraction
d.	Outer body and inner drum should be made of heavy gauge stainless steel
e.	Sluice machine should have auto reverse controls, overflow pipes for continuous rinsing and quick drain valve for fast removal of effluents.
f.	Sluice machine should have a large single glass fitted door for loading and unloading
g.	Wash motor should be of minimum 2 HP, 3 phase 415 V 50 Hz and extract motor should be of minimum 3 HP or 2.2 KW, 3 phase 415 V 50 Hz

Laundry Trolley

a.	Should be stainless steel with heavy duty metal	
b.	Size should be approx. 900 * 600 * 800 mm	

Bulk Sterilizer electric for sterilizing linen and mattresses

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Should be made as per IS mark-3929 Part-I
Best suited for parental Solutions, injectable, mattresses & hospital dressings/linen
Operating pressure should be up to 1.76 kg/cm
All SS joints should be argon are welded
Outgoing pipes form the sterilizer should be made of SS
Vacuum breaker should be provided for entry of sterile air
Should be pressure locked device for the door
Pressure switch should be provided to prevent accidental buildup of pressure
Steam trap should be incorporated for rapid & complete elimination of air
Size should be : 1050 * 1200 * 2100 mm
Approximate overall dimensions should be 1800 (6') * 2175 (7')* 2625 (9') mm
Working space should required 8' * 10' * 18'
Heating should be piped steam/auto injector

Presiding officer

Beander.

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Remarks of ADG (Med), CPFs

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