

Request For Budgetary Estimate of furniture work for 50 Bedded Critical Care Block,
Himachal Pradesh

HSCC/CCB Himachal/Furniture/2025

Date: 02/12/2025

HSCC (India) Ltd. intends to invite on-line budgetary estimate from eligible bidders for supply, Installation testing and commissioning of furniture work for 50 Bedded Critical Care Block, Himachal Pradesh.

Technical specifications and bill of quantity proposed for furniture items are annexed herewith. It is requested to submit the budgetary quotation of the furniture items with inclusive of all taxes & duties, 3 Years warranty and freight from warehouse to consignee location i.e. CCB, Himachal Pradesh.

The quotation should be on Company Letter Head with sign and stamp as per the BOQ format enclosed and should be submitted in both Hard & Soft Copy within 15 days of issue of this Notice at the following address:

Procurement Department

HSCC (India) Ltd.,

E-6(A), Sector-1,

Noida (U.P.) - 201301.

Soft copy may please be sent to: ak_nema@hsccltd.co.in, l_singh@hsccltd.co.in

Procurement Department,
HSCC (India) Ltd.

Technical Specification for 50 Bedded critical care Unit, (Himachal Pradesh)
(ALL Images are indicative Only)

1. Bed Side Stool



Supply and Installation of Bed side Stool: The Four legs with M.S. base should be fitted with PVC Stumps/Shoes.

The Height should be adjustable by machine screw from 460mm to 655mm

The Foot rest ring support should made of MS Tube.

The SS top should be supported with MS sheet.

M.S. tubular parts, linkages, flats are to be pre-treated and Epoxy powder coated with coating thickness 50 to 100 microns.

The Overall Size (Approx.) should be 480mmLx480mmW x500Hmm.

Should conform to ISO quality standards.

SS Stool as approved by engineer in-charge/employer.

2. Bedside Locker



Supply and installation of bed side locker with Overall Size:410mmL×410mmW×840mmH. Drawer having in built sliding channel connected from bottom (no ball bearing channels allowed). Should be provided with recess to serve as handle
Locker box made from machine pressed 0.8mm CRCA M.S. Sheet. Should be provided with recess to serve as handle
Fitted with single piece die pressed, Seamless, Stainless-Steel top with raised edges on three sides.
Open Storage Space should be provided between the Drawer and Cabinet
Legs frame made of 25mm square × 1.2mm thick CRC tube fitted with 2 pcs PVC stumps/Rubber shoe in front and 2 pcs wheel at rear.
Locker should be provided with two buffers at the back side.
Finishing&workmanshipinthemedicalfurnitureisofprimeimportanceandmustbeofhigh standard. All corners shall be rounded off so that there shall be no sharp corners and holes should be burr free.
All Mild Steel parts should be In-house, pre-treated and Epoxy powder coated with coating thickness 50 to 100 microns.
Should conform to ISO quality standards.
Locker as approved by engineer in-charge/employer

3. Bio Medical waste Bin- Small set of 4



The Bins should be made up of plastic.
The Frame work should be made up of SS tubes.
The Bins should be foot operated.
It should have a capacity of 20Ltrs.
There should be Sets of 4 bins / 3 bins/2 bins that can be altered as required, standard is 4 bins in 1 set
It should be Available in red/blue/black/yellow/white/green colours.
Should conform to ISO quality standards.
Bins as approved by engineer in-charge/employer

4. Crash Cart



Supply and installation of trolley with The Frame work should be made of S.S. Tubes
There should be Two light weight polystyrene boxes each with three drawers.

The Upper drawer should be provided with medicine container of different sizes

The Provision to hold oxygen cylinder must be made of M.S.

It should be Provided with Sliding Writing board and which can be used as CPR board
For cardiac patient.

The Six Number colour hand out small bins should be at eye level

There should be Total three S.S. Shelves with raise edges to carry Medical Equipment

It should be Provided with S.S. I.V. Rod & Corner Buffers.

The Cart should be mounted on 125mm (5") Diagonal locking castors.

The Overall Size (Approx.) should be 960mmLx480mmW x1545mmH.

Should conform to ISO quality standards.

Trolley as approved by engineer in-charge/employer.

5. Dressing Trolley



Supply and installation of trolley with the Frame work should be made of S.S. tubes, 18G

There should be Two S.S. Shelves with S.S. railing on all four sides

The trolley should be fitted with S.S. bucket and S.S bowl.

The trolley should be mounted on 100 mm (4") diagonal locking Castors

It should be supplied in Knockdown construction.

The trolley should be finished with S.S. Frame, S.S. shelves with S.S. Basin & Bucket.

The Overall Size (Approx.) should be 30"L x 18" W x 32"H

Thickness should be at least 1 mm.

Should conform to ISO quality standards.

Trolley as approved by engineer in-charge/employer

6. Drug Trolley/ Medicine Trolley



Supply and installation of trolley with Frame work 18G made of MS tube mounted on 100mm (4") Diagonal Locking Castors
Two shelves with three side railing on top shelf
Two M.S. Drawer under each shelf
Finish: Pretreated & Epoxy Powder Coated
Overall Size (Approx.):760Lx460Wx950Hmm.
Top Size (Approx.):710Lx460Wmm
Thickness should be at least 1 mm.
Should conform to ISO quality standards.
Trolley as approved by engineer in-charge/employer

7. ECG Machine Trolley



Supply and installation of trolley, The Frame work should be made of 1"x18G vertical S.S. Tubes

There should be Two 22G S.S. Shelves with three sides railing

The trolley should be mounted on 100mm (4") Diagonal Locking castors

It should be Supplied in Knockdown construction.

The trolley should be Finished with S.S. Frame with S.S. Shelves

The Overall Size (Approx.) should be 30" Lx18" Wx32"H

Should conform to ISO quality standards.

Trolley as approved by engineer in-charge/employer

8. Instrument Trolley



Supply and installation of trolley with following specification.

There should be Two 18G S.S. Shelves with three sides railing

The trolley should be mounted on 100mm (4") Diagonal Locking castors

It should be Supplied in Knock down construction.

The trolley should be Finished with S.S. Frame with S.S. Shelves

Thickness of the sheet at least 1 mm and grade SS 304

The Overall Size (Approx.) should be 30" L x 18" W by 32" H

Should conform to ISO quality standards.

Trolley as approved by engineer in-charge/employer

9. IV Stand with SS Rod and Castor Base



Supply and installation of saline stand with Stainless Steel Vertical tube made of 31mm dia. X1.2mm thick (304G).

Height adjustable SS IV Rod made of 12mm dia. SS rod (304G) with two hooks made of 8mm SS (304G) rod.

Approx. adjustable height 1280mm to 2220 mm.

Strong SS tubular frame work (304G).

Base constructed with five rectangular 40mmx20mmx1.2mm thick SS tubes (304G).

Base fitted with five synthetic body twin wheels castors, without brake.

Stainless steel rod with two hooks lockable with knob.

Should conform to ISO quality standards.

Saline stand as approved by engineer in-charge/employer

10. LDR BED



Supply and installation of LDR Bed, The LDR bed should be electro-mechanically controlled.

It should have three sections and seamless joint in each part

With minimal gap between sectional mattresses and the seat section should have a large perineal cut.

Mattresses cover should be non-slippery, washable and waterproof.

The foam density of the mattresses should be of Minimum 60kg/m³ and thickness of minimum 3-4 inches.

The mattress should be fixed with high grade adhesive Velcro tape for proper fixing on the bed top.

Removable SS (304)/ABS head and leg bows with padded panel.

The unit should have provision for Trendelenburg and reverse Trendelenburg positions (minimum 15 degree or more) and Reclinable adjustable back rest angle of 60 degree or more All positions should be achievable by both mechanically and electronically.

Should have control device for back and height

Adjustments through remote control as well as manually operable.

Pre-fitted SS-304 grade adjustable/collapsible side rails.
Push grip handle (grab bars) with soft cushion padding on both sides of the bed.
Should have foot support for nursing staff.
Frame should be of epoxy powder coated steel.
Should be easy to clean, sterilize (especially blood stains) and maintain.
Should have catheter bag holder which can be attached on either side of bed.
Should have infusion rods (made of SS-304 grade) which have adjustable heights, quick release and attachable to all corners of the bed.
Should have retractable foot section (section can be telescoped under) so as to convert bed into table.
To and from formation of the leg section should be very smooth.
Should be able to hold minimum 150 Kg of load.
Caster: Should have minimum 100mm or more heavy duty roller wheels with ball bearing and with central & directional locking mechanism.
Should have rectangular sliding/detachable SS-304 tray at perineal part of table.

User's Interface: Electro-mechanical

Dimensions (in mm): Overall approximate size 1880-2160mm(L)*900-1010mm(W)*550mm to 880mm(H) (With option of manual adjustable height of the bed)

Noise: Less than 50 db.

Power input: 220-240VAC, 50Hz fitted with Indian plug
4.2 Battery backup 1. Battery backup of minimum 30 minutes operation time
Within built battery charger shall be provided. The handset shall have indications for power on and battery charge.
2. Should have facility to operate manually in case of power failure.

Accessories, (mandatory, Standard, operational); Spare parts (main ones)
Consumable/reagents (open, closed system): 1. All consumables required for installation and Standardization of the system should be provided free of cost.

Minimum 60 mm thick kg/m³ high density foam
Mattress washable and water proof and detachable in three parts.
Should be provided with extra one pair of largest.
Should be provided with minimum four infusion rods (SS 304) with hook for hanging IV fluids.

Atmosphere/Ambiance (air conditioning, humidity, dust...): Capable of operating continuously in ambient temperature of- 10 to 60 deg C and relative humidity of up to 90% in ideal circumstances.

User's care, Cleaning, Disinfection & Sterility Issues: Parts of the Device that are designed to come into contact with the patient or the operator should be compatible with medical grade disinfectant solution.

Certificates (premarket, sanitary); Performance and safety standards (specific to the device type); Local and/or international: 1. Should comply with USFDA/CE/BIS Standards. 2. Should be CDSCO/SLA approved, as applicable.

Pre-installation requirements: nature, values, quality, tolerance: To be specified by manufacturer and compatible electrical accessories as per Indian standard set-up.

Requirements for sign-off: Supplier to perform safety and operation check before handover.

Training of staff (medical, paramedical, technicians): 1. Hands on training to be provided to healthcare professionals on using the equipment, day to day maintenance/cleaning.

2. Hand on training for in-house (Biomedical engineers) for preventive and Corrective maintenance.

Warranty: 01years all spares parts, battery and other accessories.

Operating manuals, service manuals, other manuals: Should provide 2sets (hard copy and softcopy) of: User, technical and maintenance manuals should be supplied in English/Hindi language along with machine diagrams.

Service and operation manuals (original and Copy) to be provided.

Satisfactory certificate for any existing installation from government hospital

Other accompanying documents: List of essential spares and accessories with their part number and cost. As approved by engineer in-charge/employer

11. MANUAL Bed 4 Section with Mattress



GENERAL		
1.USE		
	Clinical Purposes	ICU beds are special hospital beds designed for ICUs to take care of critical patients. ICU beds facilitate comfortable transfer to and fro and has a provision of bedside diagnostic including X-ray investigations. Thus, they provide safety, comfort and convenience to the patients and caregivers alike.
	Used by clinical department/ward	ICU (Intensive Care Unit)
TECHNICAL		
2.TECHNICALCHARACTERISTICS		
	Technical Characteristics	1) Should have 4 sections and sectional mattress with perforated top.

		2) Should have 4 separate mechanical operating function (Screw Lever mechanism) for Height adjustment (Hi-Low), Back rest, Knee rest and Trendelenburg/Reverse Trendelenburg. 3) Should have PPE head and foot board fixed/detachable on the bed frame; 4 PPE side boards with 360-degree swivel mechanism/push button mechanism for operation. 4) Should have four section lying surface, three made of robust materials and having micro be free material& joined by corrosion resistant joineries. 5) The bed frame should be made of stainless-steel SS (304) with epoxy coating and should be easy to disinfect and maintain. 6) The bed should be radiolucent for using portable X- rays and supporting accessories like attaching urine bags and bed pans. 7) Should have indicator for correct height to operate Trendelenburg/Reverse Trendelenburg. 8) Clearance between Bed Base frame and Floor surface should be having adjustable range in mm: 120-150 mm. 9) Should have Back Rest angular movement in range from 0-70°(degree) and Knee rest angular movement in range from 0-45 degree 10) Should have Ergonomically designed detachable plastic/Stainless steel handles having outward locking mechanism. Handles are self-locking with a knob with a Nylon grip. 11) Should have therapeutic Weight bearing upto 150-200Kg. 12) Should have heavy duty roller casters made up of Stainless Steel (304) ball bearing/ABS/Polyester with dual locking arrangement. 13) High density foam mattress washable and detachable in 4 parts.
	User's	Manual

	Interface	
	Software and/or	NA
3. PHYSICAL CHARACTERISTIC		
	Dimensions (in cm)	NA
	Weight	To be specified by the Manufacturer/Supplier;
	Noise	NA
	Heat Dissipation	Not applicable
	Mobility/Portability	Should be easily movable with minimal physical effort.
4 ACCESSORIES, SPARE PARTS AND CONSUMABLES		
	Accessories, (mandatory, Standard, operational); Spare parts (main ones) Consumable/reagents (open, closed system)	1. Should be provided with Saline Stand made of Stainless-Steel SS (304) grade. 2. Telescopic Saline Stand with two hooks with a provision to fix on all four corners of the beds and also in the middle of the bed on either side. 3. Mattress with cross sectional thickness of (100mm-250mm) with rexin cover as per the specs specified in Section (2.1) 4. Oxygen Cylinder holder should be provided detachable handles of plastic/SS (304) material/ABS with a Nylon grip.
5. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS		
	Atmosphere /Ambiance (air conditioning, humidity, dust...)	NA

	User's care, Cleaning, Disinfection & Sterility issues	Easy to clean and disinfect.
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6 STANDARDS & SAFETY

	Certificates (pre-market, sanitary); Performance and safety standards (specific to the device type); Local and/or international	1. Should comply with USFDA/CE/BIS Standards. 2. Should be CDSCO/SLA approved, as applicable.
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7. TRAINING AND INSTALLATION

	Pre-installation requirements: nature, values, quality, tolerance	NA
	Requirements for sign-off	Supplier to perform safety and operation check before handover.
	Training of staff (medical, paramedical, technicians)	Training of User on operation and basic maintenance.

8. WARRANTY AND MAINTENANCE

	Warranty	3 year including all spare parts and accessories.
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9. DOCUMENTATION

	Operating manuals, service manuals, other manuals	Should provide 2 sets (hard copy and soft copy) of: 1. User, technical and maintenance manuals should be supplied in English/Hindi language along with machine diagrams. 2. Service and operation manuals (original and Copy) to be provided.
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		3. Satisfactory certificate for any existing installation from government hospital
	Other accompanying documents	List of essential spares and accessories with their part number and cost.
10.NOTES		
	Service Support Contact details (Hierarchy Wise ; including a toll free/landline number)	Contact details of manufacturer and supplier to be provided.
	Recommendations or warnings	Any warning sign should be adequately displayed.

12. MAYO TROLLEY



Mayo's Trolley

Supply and installation of mayo trolley, the trolley Should be made of Strong Stainless-Steel tubular frame Work approx. Dimension (37x1.25 mm.)

Mounted on Min 50mm swivel castors.

Removable Stainless-Steel tray.

Tray size approx.: 550(L)x400(W)mm, Thickness of the sheet at least 1mm.

Should conform to ISO quality standards.

Trolley as approved by engineer in-charge/employer

13. MOTORIZED ICU BED 4 SECTION WITH MATTRES



MOTORIZED ICU BED		
1. USE		
	Clinical Purposes	ICU beds are special hospital beds designed for ICUs to take care of critical patients and can be operated electro-mechanically. ICU beds facilitate comfortable transfer to and from and has a provision of bedside diagnostic including X-ray investigations. Thus, they provide safety, comfort and convenience to the patients and caregivers alike.
	Used by clinical department/ward	ICU (Intensive Care Unit)
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		
	Technical Characteristics	1. Should have fully motorized 4 sections and sectional mattress. 2. Should have 4 separate electrically operating function

		through embedded control panel/handheld wired remote control for Height adjustment (Hi-Low), Back rest, Knee rest and Trendelenburg/Reverse Trendelenburg. 3. The bed frame should be made of Stainless-steel SS (304) with epoxy coating. 4. Should have ABS/polymer moulded head and foot board panels detachable. 5. Should have ABS/polymer moulded swing down safety side railing on both sides. 6. Should have a provision for carrying out whole body X-ray at the bedside. 7. Should have digital/analog indicators for angle display.
		8. Should have one touch key provision on control panel for CPR position and manual CPR option in case of automatic system failure. 9. Bed position adjustments should have: i) Back Rest angular movement in range from 0-70 degree or more. ii) Knee rest angular movement in range from 0-45 degree or more. iii) TrendelenburgandReverseTrendelenburg:0-12 degree or more. 10.Should have a therapeutic Weight bearing upto 150-200 Kg 11.Should have heavy duty casters made up of Stainless-Steel (304) ball bearing/ABS/Polyester with dual locking arrangement. 12.Should have provision for holding IV pole on four corners. 13.High density foam mattress washable and detachable in 4 parts 14.Shouldhavebatterybackupofatleast1hour 15.Clearance between Bed Base frame and Floor surface in adjustable range from mm: 120-150 mm

	User's Interface	Electro-mechanical (motorized)
3.PHYSICALCHARACTERISTIC		
	Dimensions (in cm)	1. Length:2100-2300mm 2. Width:900-1100mm
	Weight	To be specified by the Manufacturer/Supplier;
	Noise	Less than 50dB;
	Heat Dissipation	Not applicable
	Mobility/Portability	Should be easily movable with minimal physical effort.
4.ENERGYSOURCE (electricity, UPS, solar, \gas, water, CO2.....)		
	Power inputs	220+/-10%VAC, 50Hz
	Power consumption	To be specified by Manufacturer/Supplier;
	Battery backup	Battery backup within built charger shall be provided.
5.ACCESSORIES.SPAREPARTSANDCONSUMABLE		
	Accessories, (mandatory, Standard, operational); Spare parts (main ones) Consumable/reagen ts (open, closed system)	I. Should be provided with IV rods; II. Mattress as per the spec specified in Section (2.1) III. Siderails IV. X-ray cassette tray, Urine bottle holder and drainage bottle holder

6.ENVIRONMENTALANDDEPARTMENTALCONSIDERATONS		
	Atmosphere /Ambiance (air conditioning, humidity, dust...)	Capable of operating continuously in ambient temperature of- 10 to 60 deg C and relative humidity of upto 90% in ideal circumstances.
	User's care, Cleaning, Disinfection & Sterility issues	Easy to clean and disinfect.
7.STANDARDS&SAFETY		

	Certificates (pre-market, sanitary); Performance and safety standards (specific to the device type); Local and/or international	1. Should comply with USFDA/CE/BIS Standards. 2. Should be CDSCO/SLA approved, as applicable.
8.TRAININGANDINSTALLATION		
	Pre-installation requirements: nature, values, quality, tolerance	To be specified by manufacturer and compatible electrical accessories as per Indian standard set-up.
	Requirements for sign-off	Supplier to perform safety and operation check before handover.
	Training of staff (medical, paramedical, technicians)	Training of User on operation and basic maintenance.
9.WARRANTYANDMAINTENANCE		
	Warrant y	3 years including all spare parts and accessories.
10.DOCUMENTATION		

	Operating manuals, service manuals, other manuals	Should provide 2 sets (hard copy and soft copy) of: 1. User, technical and maintenance manuals should be supplied in English/Hindi language along with machine diagrams. 2. Service and operation manuals (original and Copy) to be provided. 3. Satisfactory certificate for any existing installation from government hospital
	Other accompanying documents	List of essential spares and accessories with their part number and cost.
11.NOTES		
	Service Support Contact details (Hierarchy Wise; Including a toll free/landline number)	Contact details of manufacturer, supplier and local service agent to be provided.
	Recommendations or warnings	Any warning sign should be adequately displayed.

14. Over Bed Table



Supply and installation of over bed table with Overall dimensions should be 1000mmL x435mmW x825mm-1180mm H.

The top should be made of ABS/Membrane Pressed MDF having size of 880L x435Wx28H mm.

Aluminum extruded telescopic section fitted with smooth gear mechanism for height adjustment

It should have MS base frame covered with durable high impact ABS Base cover.

For ease in mobility, it should have castors of 50mm dia.

Finishing & workmanship in the medical furniture is of prime importance and must be of high standard. All corners shall be rounded off so that there shall be no sharp corners and holes should be burr free.

Top:MDF top with membrane press, should give anti-scratch Property with good surface finish

M.S tubular parts, linkages, flats are to be In-house, pre-treated and Epoxy powder coated with coating thickness 50 to 100 microns

Should conform to ISO quality standards. OBT as approved by engineer in-charge/employer

15. Oxygen Cylinder Trolley



Supply and installation of oxygen cylinder trolley with Frame work made of M.S. tube dia.31.7x1.2mm mounted on 150mm castors at rear.

Finish: Pre-treated and Epoxy powder coated

Carrying Capacity – 100 Kg

Should conform to ISO quality standards

Trolley as approved by engineer in-charge/employer

16. Patient Stretcher Trolley



PATIENTSTRETCHER		
GENERAL		
1.USE		
	Clinical purpose	A patient trolley is a bed on wheels for moving patient in hospitals.
	Used by clinical department/ward	All Departments
TECHNICAL		
2.TECHNICALCHARACTERISTICS		

	Technical characteristics (specification of this type of device)	1. Overall Dimension:1985mm(L)x610mm(W)x810mm(H). (Specific to this type of 2. Framework: • Vertical member-thick ness of tube Cut size diameter of tubing pipe- 18 Gauge 31.75mm • Horizontalmember-18Gauge31.75mm 3. Removable stretcher made of curved SS Sheet 20 SWG supported on tubular frame having steel supports under the sheet. 4. Wheels: 4Nos.swivel caster wheels are fitted in front and rear side of the wheel 150mm diameter x 38mm with plug diameter 32.5mm fitted with thrust bearing and solid rubber wheels with sleeve 21mm thick for k10SWG zinc plated. Kingpin is 14.5mm; length of plug is 65mm inclusive of collar. 5.Handle should be made of SS-304. 6. All the steel components should be pre-treated for de-greasing. de-rusting and phosphating. After proper pre-treatment, the steel components should be epoxying powder coated and oven baked at temp. Above200°Ctoprovidescratchresistancesurfacecoating film thickness 45-50 microns
3.PHYSICALCHARACTERISTICS		
	Mobility, portability	Mobile
	User's care, Cleaning, Disinfection & Sterility issues	Easy to clean and maintain.
7.STANDARDSANDSAFETY		
	Certificates	1. Should comply with USFDA/CE/BIS Standards. 2. Should be CDSCO/SLA approved, as applicable.

9.WARRANTYAND MAINTENANCE		
	Warranty	03 year
10.DOCUMENTATION		
	Operating manuals, service manuals, other manuals	Should provide 2 sets (hard copy and soft copy) of: User, technical and maintenance manuals should be supplied in English/Hindi language along with machine diagrams.
	Other accompanying documents	NA
11.NOTES		
	Service Support Contact details (Hierarchy Wise; including a toll free/ landline number)	Contact details of manufacturer and supplier should be provided.
	Recommendations or warnings	Any recommendations for best use and supplementary warning for safety should be declared

Trolley as approved by engineer in-charge/employer

17. Ward Bed (2 section) with mattress



Supply and installation of ward bed, the Bed Should have Manually operated Backrest.

Bed should have two sectional mattresses with rexine cover, foam density should be 32 or more.

Bed should have 70+/-5° backrest for upright/ chest imaging.

Bed Should Laminated Back rest with X-ray Tray Provision in Backrest.

Bed Should have rounded SS Drop Down Types Rails full length (Complete Components are Made of SS 304)

Bed frame coated with anti-bacterial coating.

Bed Should have dual sided drainage bag holders.

Bed Should have castors of size 5 inches or more.

Bed provided with telescopic IV rod one piece.

Bed Should have removable ABS Head and Foot end panels without need of any tool.

The Bed Should have following Dimensions Overall Length- 220 cm or more Overall Width- 980 mm +/- 10mm

Corner bumper and IV socket should be integrated.

Bed has mattress top perform proving safety and better mattress positioning.

Should conform to ISO quality standards. Bed as approved by engineer in-charge/employer

18. Wheelchair-Foldable



Supply and installation of wheel chair, the Overall dimensions: 950L x 490W x 950Hmm.

Back support: 440W x 420Hmm.

Seat Size: 440W x 450Hmm.

Mild Steel tubular

Frame works made of 22.22mm x1.2mm(18G) round MS tube mounted on two front castor wheel having 200mm diameter and outer with solid rubber.
Frame is provided with Mild Steel (MS) Epoxy Powder Coated.
Cross bar is made of 22.22mmx1.2mm(18G) SS round tube.
Two solid rubber tyre wheels of 22.8" with brakes and provided MAG wheel type.
Seat and back are made of Rexine material.
Two Adjustable aluminium diecasted footrest with up down and swivel type adjustment.
Provided with fixed type PU molded Armrest for better arm support.
Back is provided with pocket for keeping documents and tools.
Handles provided with molded PVC grip to push the wheel chair.
Patient bearing and Weighing bearing capacity 150Kgs.
Hand brakes provided to lock the wheel chair at desired location.
Provision of extended base with molded plastic grip to lift the wheel chair front to overcome obstructions while maneuvering.
Should conform to ISO quality standards. Wheel Chair as approved by engineer in-charge/employer

Technical Specification for Admin/Office Block Furniture

1. Executive Table



Providing and fixing a high-end executive table unit comprising a main table, an extended side return unit, and one mobile pedestal drawer unit. The main table shall be of size 1500mm (W) x 900mm (D) x 750mm (H), with a top made from 36mm thick MDF board conforming to IS 12406. The surface shall be finished with decorative veneer and a polyurethane (PU) coating, offering a minimum scratch resistance of 2H. Gable ends shall be fabricated from 25mm thick MDF board of similar specification and finish. The modesty panel and internal structure shall be constructed from 18mm thick MDF board with matching veneer and PU finish. All exposed edges shall be sealed with 2mm thick PVC edge banding, and all unexposed edges with 0.6mm edge banding, applied using hot melt adhesive at a temperature of 200°C. The table shall incorporate an anodized aluminum access flap for integrated electrical cable management. The overall design of the table shall be rectangular with inward tapering at both ends. The unit shall be assembled using a knock-down system with mini fix fittings, corner brackets, and wooden dowels.

The extended return unit shall measure 1200mm (L) x 600mm (D) x 750mm (H), with a top made from 25mm thick MDF board, and the understructure from 18mm thick MDF board, both finished with veneer and PU coating having scratch resistance of 2H. All exposed and unexposed edges shall be finished with 2mm and 0.6mm PVC edge banding respectively, applied under similar heat-pressed conditions. The return unit shall include one cabinet with a hinged shutter and

locking arrangement, two open shelves, and one CPU compartment. All shutter and drawer pull operations shall be of groove-type design for a clean appearance.

The mobile pedestal drawer unit shall be of size 400mm (W) x 550mm (D) x 585mm (H) and shall consist of two utility drawers and one file drawer. The drawer carcass, fascia, top, and sides shall be made of 18mm thick MDF board conforming to IS 14587:1998, finished with veneer and PU coating (scratch resistance 2H), while the back panel shall be made from 9mm thick pre-laminated MDF board. Drawers shall be mounted on roller slides for smooth operation and fitted with a central locking mechanism. The unit shall be mounted on four castors (diameter 40mm, height 55mm), of which the front two shall be lockable. Handles shall be of slim D/C type, and all hardware components including slides, locks, hinges, and channels shall be of approved make, as directed by the Engineer-in-Charge.

All MDF boards, veneer, edge banding materials, and finishes shall be sourced from approved manufacturers such as Century, Action Tesa, Merino, Greenlam, or equivalent, as approved by the Engineer-in-Charge. The entire unit shall be modular, factory-finished, and supplied in knock-down condition for on-site assembly.

Should conform to ISO quality standards.

2. High-Back Executive Chair



Providing and placing in position a high-back executive chair of standard model and superior quality, designed for ergonomic comfort and long-term use. The chair shall feature a high backrest with a fixed PU foam headrest, and a seat-back assembly constructed using a combination of 15mm hot-pressed plywood and

6mm ply support for structural stability. Both the seat and back shall be upholstered with moulded high-density foam (70mm thick) and covered in premium-grade leatherette. The backrest shall measure approximately 540mm (W) x 690mm (H), and the seat shall measure 530mm (W) x 530mm (D). The chair height shall be adjustable via a pneumatic gas lift (PHA type), with a stroke of 85mm (Top Dead Centre 152mm, Bottom Dead Centre 67mm), allowing for a seating height range from 1135mm to 1220mm overall, with seat height from floor adjustable around 450mm.

The base of the chair shall be made of aluminum die-cast material with a pedestal pitch center diameter of 680mm (without casters), fitted with five twin-wheel nylon casters of 50mm diameter, each with metal bolt insertion for enhanced durability. The chair mechanism shall provide synchronized movement of the seat and back in a 1:2 tilt ratio and include an upright position locking feature for ergonomic support.

Armrests shall be ergonomically designed with soft cushioning over a 4mm thick mild steel plate mounted on a chrome-plated CRCA tubular frame. The armrests shall be connected to the seat using robust armrest brackets and shall have an approximate height of 210mm from the seat level. The overall structure shall comply with ergonomic standards for office furniture.

The chair shall be manufactured by a BIFMA member company and must carry certification from the IGBC GreenPro program for environmental compliance within the relevant product category. It shall also conform to occupational health standards, being endorsed by the All-India Occupational Therapists Association (AIOTA) for its ergonomic design. Final approval of the chair model shall be as per the direction of the Engineer-in-Charge or Employer.

Should conform to ISO quality standards.

3. Visitor Chair



Providing and placing in position a standard model, high-quality visitor chair with fixed base, designed for comfort, durability, and ergonomic support. The seat and backrest shall be constructed from 13.5mm thick hot-pressed plywood, with both components firmly joined to the understructure. The upholstery shall consist of 100mm thick moulded polyurethane (PU) foam with a density of 32 kg/m³, covered in premium-grade leatherette to ensure comfort and aesthetics. The chair shall feature a fixed base made from 40mm x 20mm CRCA rectangular metal pipe, 2mm thick, with a durable powder-coated finish to resist corrosion and wear. The overall structure shall be rigid and stable, with no provision for gas lift or reclining mechanism.

The seat and back shall be securely fixed to the metal frame to ensure structural integrity during use. The chair shall be provided with fixed armrests featuring soft cushioning over plastic handles, mounted on a chrome-plated support base. Armrests shall be connected to the seat using strong brackets and positioned at a height of approximately 190mm from the seat level. The edges and structural joints shall be neatly finished with chrome-plated beading to enhance appearance and durability.

The chair shall be manufactured by a firm that is a member of BIFMA and shall be certified under the IGBC GreenPro program for the relevant furniture product category. The design must also adhere to ergonomic standards as endorsed by the All India Occupational Therapists Association (AIOTA). Final approval of the chair model and finishes shall be subject to the direction of the Engineer-in-Charge or Employer.

Should conform to ISO quality standards.

4. Work Table with Mobile Pedestal Unit



Providing and installing a work table of size 1200mm (W) x 600mm (D) x 750mm (H), constructed from high-quality pre-laminated MDF board. The tabletop shall be made from 25mm thick pre-laminated MDF board conforming to Grade SBG II of IS 12406:2003, finished with 1mm thick laminate, E1 grade, with zero urea formaldehyde emissions ($\leq 8\text{mg}/100\text{g}$ oven-dry board, tested as per EN 120:1992). The side panels, also made from 25mm thick pre-laminated MDF board of similar grade, shall include two glide screws each for leveling adjustment. The modesty panel shall be made from 18mm thick pre-laminated MDF board of matching specification and finish. All exposed edges shall be sealed with 2mm thick PVC edge banding on the user-facing sides, while the top and bottom edges shall be sealed with 0.8mm thick edge banding, applied at 200°C using hot-melt adhesive through automated edge-banding machines. Edge finishes shall be rounded and buffed to a 1.5mm to 2mm radius, ensuring user safety and maintaining aesthetic appeal without any sharp edges or corners.

Each table shall be accompanied by a mobile pedestal drawer unit of size 400mm (W) x 550mm (D) x 585mm (H), consisting of two utility drawers and one file drawer. The drawer top, side panels, and fascias shall be made from 18mm thick pre-laminated MDF board conforming to IS 14587:1998, and the back panel shall be made from 9mm thick pre-laminated MDF board. The drawers shall be mounted on smooth-operating roller slides and provided with a central locking mechanism. The unit shall be mounted on four castors, with the front two being lockable, each castor having a diameter of 40mm and height of 55mm. D/C type slim handles shall be provided for drawers and shutters.

All joinery shall be executed using mini fix connectors and dowels, ensuring a knock-down, modular assembly. Hardware components including handles, slides, hinges, locks, and channels shall be of approved quality and make, as specified by the Engineer-in-Charge. All MDF boards and laminates shall be sourced from approved manufacturers such as Century, Action Tesa, Merino, Greenlam, or other

equivalent brands as approved by the Engineer-in-Charge. The entire table and pedestal unit shall be factory finished and delivered in ready-to-install condition.

Should conform to ISO quality standards.

5. High-Back Chair



Providing and placing in position an ergonomic high-back chair designed for comfort, support, and long-term use in professional environments. The seat shall be made of insert-moulded polyurethane foam with a density of $65 \pm 5 \text{ kg/m}^3$, upholstered with foam-laminated mesh fabric for breathability and comfort. The insert-moulded foam shall be mounted over a load-bearing plastic seat cover to ensure durability. The backrest shall include adjustable lumbar support to allow users to achieve an ergonomically correct seating posture. The back size shall be approximately 48.5 cm (W) x 62.0 cm (H), and the seat size shall be approximately 51.0 cm (W) x 52.5 cm (D).

The armrests shall be height-adjustable in three steps up to $100\text{mm} \pm 0.5\text{mm}$. Each armrest shall feature a soft polyurethane top and be mounted on an injection-moulded support structure. The chair mechanism shall be equipped with a single-point control system allowing for 360° swivel, front pivot tilt with ground contact for foot comfort, tilt tension adjustment, and a 4-position locking system including an upright lock. The mechanism shall include an anti-shock feature for user safety.

The backrest shall be connected to the seat mechanism using an aluminum die-cast spine bracket. Pneumatic height adjustment shall be provided, offering a vertical adjustment range of 10 ± 0.3 cm. The pedestal shall be constructed from die-cast aluminum, with a pitch center diameter of 66.0 ± 0.5 cm (76.0 ± 1.0 cm including castors), and shall be fitted with five twin-wheel castors made from injection-moulded black nylon for smooth mobility.

The chair shall also include an integrated neck rest made from polyurethane foam and upholstered in foam-laminated mesh fabric. The neck rest shall be mounted at the top of the backrest and shall offer vertical adjustment of 4.5 ± 0.5 cm as well as angular tilt adjustment of $30^\circ \pm 2^\circ$ to suit user preference.

The entire chair, including materials, components, and ergonomics, shall be manufactured to high standards, subject to approval by the Engineer-in-Charge or Employer.

Should conform to ISO quality standards.

6. Three-Seater Waiting Chair



Providing and placing in position a 3-seater waiting chair designed for durability, ergonomic comfort, and aesthetic appeal. Each seat and backrest shall be constructed using high-density, self-skin polyurethane (PU) foam with a thickness of 25–30mm. The foam shall be reinforced internally with a 3mm thick mild steel (MS) perforated sheet insert, ensuring long-lasting structural integrity. The PU foam shall have a density of 680 ± 10 kg/m³ and a hardness rating of 55 ± 5 for optimal seating comfort and resilience.

Each individual seat shall measure approximately 52.0 cm in width and 46.5 cm in depth, with the corresponding backrest measuring 52.0 cm in width and 51.5 cm in height. The minimum floor-to-seat height (front edge) shall be 410 mm. The overall minimum length of the full 3-seater assembly shall be 1680 mm.

The support structure shall include a robust cross beam fabricated from black powder-coated MS ERW square tube measuring 60 ± 0.05 mm x 60 ± 0.05 mm with a wall thickness of 0.4 ± 0.016 mm. This cross beam shall be securely capped with polypropylene end covers. The seat and lumbar support thickness shall not be less than 23mm to maintain user comfort and adequate back support.

The chair shall be supported on legs and fitted with armrests, all fabricated from high-pressure aluminum die-cast components. These components shall be powder-coated to a minimum thickness of 70 microns for corrosion resistance and a uniform finish. There shall be four armrests provided, two on the ends and two between each seat, each made from aluminum with a material thickness of 1.8 mm. The legs shall have a thickness of 2.0 mm and be equipped with soft-grip PVC level-adjusting shoes for stable placement on uneven surfaces.

The entire frame, including beam, legs, and armrests, shall have a consistent powder-coated finish in black or approved shade, with a minimum coating thickness of 70 microns. All materials and construction shall be of high-quality standards and the final product shall be subject to approval by the Engineer-in-Charge or Employer.

Should conform to ISO quality standards.

7. Two-Seater Sofa



Providing and placing in position a two-seater sofa designed for comfort, durability, and aesthetic appeal. The seat cushion shall be fabricated using high-resilience polyurethane (PU) foam with a density of 28 ± 2 kg/m³, overlaid with a super soft PU foam top layer of 32 ± 2 kg/m³. The total seat cushion thickness shall be approximately 150 mm, ensuring plush seating support. The backrest shall similarly comprise PU foam of 28 ± 2 kg/m³ density, further enhanced with two additional layers of super soft foam of 32 ± 2 kg/m³ density, upholstered in high-

quality fabric or leatherette. The total backrest cushion thickness shall be approximately 175 mm for superior lumbar support.

The internal understructure shall be manufactured from hot-pressed plywood of thickness 12 ± 1 mm, conforming to IS:303 standards for moisture resistance and termite resistance. Structural reinforcement shall include seasoned pinewood members free from major knots and defects, with six pinewood elements per seat section. For enhanced seating comfort, a 3.8 mm diameter zigzag spring system shall be fixed over the understructure, six springs per seat, ensuring resilient support and longevity of form.

The sofa shall be supported on a leg assembly made of welded stainless steel (grade SS 202) comprising tubular and plate elements, complete with plastic end caps to protect flooring. The overall sofa dimensions shall be approximately 1460 mm in width, 905 mm in depth, and 855 mm in height. The seating height shall be 450 mm, with individual leg height at approximately 150 mm and leg width/diameter at 40 mm. The armrests shall be ergonomically designed, measuring approximately 710 mm in height and 120 mm in width.

All materials used shall meet high-quality standards for durability and finish. Upholstery, foam density, structural components, and hardware shall be subject to approval by the Engineer-in-Charge or Employer.

Should conform to ISO quality standards.

8. Center Table



Providing and supplying a center table of dimensions 500 mm (W) × 500 mm (D) × 400 mm (H), designed for durability and contemporary aesthetic appeal. The table top shall be made from 36 mm thick Medium Density Fibreboard (MDF) conforming to IS:12406, finished with decorative natural veneer and coated with a polyurethane (PU) protective layer offering a minimum scratch resistance rating of 2H. All exposed edges of the MDF shall be sealed with 2 mm thick PVC edge banding tape, while all unexposed edges shall be sealed with 0.6 mm PVC edge banding tape, both applied using hot-melt adhesive at 200°C using precision edge-banding machinery to ensure seamless finishing and long-term durability.

The table structure shall include a box-type frame and legs made of stainless steel (grade SS 304), with each member measuring 55 mm × 55 mm and having a material thickness of 1.6 mm. The stainless steel frame shall be finely finished and corrosion-resistant to maintain structural integrity and aesthetics over time. The make of MDF board and veneer laminate shall be from approved brands such as Century, Action Tesa, Merino, or Greenlam, or as approved by the Engineer-in-Charge or Employer. All hardware, joinery, and finishes shall conform to specifications and be subject to approval by the Engineer-in-Charge.

Should conform to ISO quality standards.

9. Corner Table (For Doctor Lounge, Staff Lounge & Staff Room)



Providing and supplying a corner table of dimensions 500 mm (W) × 500 mm (D) × 400 mm (H), designed with a compact yet robust structure for versatile placement. The tabletop shall be fabricated from 36 mm thick Medium Density Fiberboard (MDF) conforming to IS:12406 standards, finished with a natural veneer and a high-quality polyurethane (PU) coating that ensures a scratch resistance rating of not less than 2H. All exposed edges of the MDF shall be sealed with 2 mm thick PVC edge banding, while the unexposed edges shall be sealed with 0.6 mm PVC

edge banding. Both edge bandings are to be applied using hot-melt adhesive at 200°C through specialized edge-banding machinery for a seamless and durable finish.

The supporting frame and legs shall be of box-type construction made from stainless steel of grade SS 304, with members measuring 55 mm × 55 mm and having a thickness of 1.6 mm, providing excellent strength, stability, and corrosion resistance. The finish of the steel components shall be smooth and consistent, aligning with the overall aesthetic of the table. The MDF board and laminate shall be sourced from approved brands such as Century, Action Tesa, Merino, or Greenlam, or as approved by the Engineer-in-Charge or Employer. All hardware and finishes used shall meet quality standards and require final approval by the Engineer-in-Charge.

Should conform to ISO quality standards.

10. Steel Almirah



Providing and placing a steel almirah of overall dimensions 916 mm (W) × 486 mm (D) × 1980 mm (H), constructed with a fully welded design using Cold Rolled Close Annealed (CRCA) 'D' grade high-yield strength steel sheets conforming to CR1 of IS 513 (Part-1):2016. The almirah shall be equipped with four adjustable shelves, each made from 1.0 mm thick sheet, with the back panel and doors also fabricated from 1.0 mm thick CRCA steel. A full-height stiffener of 115 mm width and 0.8 mm thick sheet shall be welded internally to each door to ensure rigidity and durability.

The unit shall incorporate a three-way locking mechanism operated by a Mazak handle, with shooting bolts for enhanced security. Each door shall be fitted with three hinges, made from 2 mm thick sheet for robust performance. The pedestal base shall provide a ground clearance of 125 mm (± 5 mm) and be fitted with M10 screw-type levelers featuring hex plastic bases for stability on uneven surfaces. The shelves shall support a uniformly distributed load (UDL) of 80 kg and be mounted on height-adjustable slots for flexible storage options.

All components shall be finished with epoxy polyester powder coating in a uniform layer of 50 microns ($\pm 10\%$), conforming to IS:13871. The finish shall withstand a salt spray test of over 1000 hours per IS:101, have a pencil scratch hardness of more than 2H, and show excellent adhesion as per DIN 53152 standards. Steel used shall be of approved make and the final product shall be subject to approval by the Engineer-in-Charge or Employer.

Should conform to ISO quality standards.

11. Almirah with Glass Shutter



Supplying and fixing in position a modular, knock-down steel almirah with a total of 5 compartments formed by 4 shelves. The entire body, door frame, and shelves

are made from 0.8 mm thick CRCA sheet conforming to IS: 513 CR2 (Cold Reduced Carbon Steel Sheets & Strips, Part 1: 2016), procured from approved manufacturers such as TATA Steel (Test Certificates available on request). Each shelf and door shall be provided with stiffeners to enhance strength and load-bearing capacity. The almirah is designed with clear glass shutters fitted securely within the steel door frames.

The locking mechanism comprises a chrome-plated, three-way recessed, spring-loaded rectangular snap-shut handle with a duplicate key set. The hinges used are high-quality, auto-closing, CED-coated hinges from HETTICH, HAEFFLE, or approved equivalents, allowing smooth operation and proper alignment of doors. The construction is fully knock-down, enabling easy transport and on-site assembly. Each shelf shall be capable of supporting a uniformly distributed load (UDL) of 35 kg.

The entire unit undergoes a 7-stage nano-technology-based pre-treatment process before finishing. It is epoxy-polyester powder coated using a fully automatic powder coating plant equipped with a GEMA™ spray booth and AkzoNobel™ powder to ensure a smooth, uniform, and corrosion-resistant finish with superior adhesion and durability. The absence of a pedestal at the base gives the almirah a clean, modern appearance while maximizing storage capacity. The product is subject to approval by the Engineer-in-Charge or Employer.

Should conform to ISO quality standards.

12. 4-Door Personal Locker Unit



Providing and fixing a four-door personal locker with external lock and key, having overall dimensions of 380 mm (W) x 485 mm (D) x 1880 mm (H). The locker body, doors, and shelves shall be fabricated from 0.8 mm thick mild steel (MS) sheet conforming to commercial quality CR-1, Grade 340 of IS 513:2008. The legs shall be made from 1.0 mm thick MS sheet of the same specification.

Construction shall be of CO₂ welded type, ensuring structural stability and durability. Each compartment door shall be equipped with a full-length vertical stiffener and a lock box cover. Doors are mounted on two robust hinges to support repeated usage. Each of the four compartments is fitted

with a Mazak (zinc alloy) cam lock and an aesthetically designed, snap-fit ABS plastic handle, which also incorporates a label holder. The door also includes a punched ventilation pattern to ensure air circulation within each compartment. The usable internal dimensions of each locker compartment are approximately 350 mm (W) x 450 mm (D) x 450 mm (H), while each door measures 350 mm (W) x 438 mm (H). All metal components shall be finished with a powder coating of 50–60 microns (± 10 microns) in thickness, conforming to quality standards for durability and corrosion resistance. The locker unit is subject to approval by the Engineer-in-Charge or Employer. Should conform to ISO quality standards.

13. Examination Couch



Supply and installation of an examination couch with mattress having overall dimensions of 1957mm

(L) x 625mm (W) x 808mm (H) ($\pm 5\%$ engineering variation). The couch shall be equipped with a gas-lift assisted headrest, allowing continuous adjustment from 0° to 30° to accommodate various examination requirements. The upper section of

the box shall measure 1220mm (L) x 460mm (W) x 630mm (H) ($\pm 5\%$) and incorporate three sliding drawers of approximate dimensions 320mm (L) x 430mm (W) x 75mm (H) for accessible storage. The lower section shall comprise three individual

cabinets, each having an approximate internal size of 350mm (L) x 440mm (W) x 430mm (H), complete with separate doors and individual locks.

The lying surface shall have dimensions of 625mm width and 65mm thickness, constructed using PU moulded foam with a density of 50–55 kg/cu.m and 35mm thickness. The mattress shall extend slightly outward from the understructure to ensure a soft and patient-friendly edge from all sides. Seamless upholstery shall be provided to minimize microbial accumulation and enhance hygiene. The headrest section, measuring 625mm x 497mm, shall also be made from PU moulded foam of 50–55 density and 23mm thickness, shaped ergonomically for patient comfort.

The understructure shall be fabricated from MS square tubes, designed to provide strength, visual appeal, and better access for practitioners. The couch shall include a CRCA sheet-based BP apparatus tray with a stainless steel handle and 10mm diameter stainless steel hinges. The tray shall be concealed when not in use and capable of swiveling up to 180°. A stainless steel 304 ERW tube of

12.7mm diameter and 1.2mm thickness shall be provided at the rear of the headrest to mount a tissue roll, which shall function as a tissue roll holder. A single-step stool shall also be supplied, measuring 485mm (L) x 335mm (W) x 210mm (H), fabricated from 1.2mm thick ERW square tube. The top surface shall be fitted with a 3.0mm thick textured rubber mat (20mm x 20mm) for safe footing and user comfort. The entire metal structure shall undergo a nine-tank zinc phosphate pretreatment process, followed by powder coating with anti-microbial, bacteriostatic, and thermosetting epoxy polyester powder to prevent bacterial contamination. All welding shall be carried out using the CO₂ Argon process to ensure structural integrity.

The design shall emphasize ease of operation, cleanliness, ergonomics, and aesthetics, with a widened platform (625mm) and an optimized height (808mm) to ensure better patient comfort and operational efficiency for doctors. The unit shall support a maximum patient load of 135 kg. The product shall be supplied in a knocked-down condition to minimize carbon emissions and facilitate safer transportation. It shall pass all relevant quality tests including load, cycle, and impact testing. The manufacturer must be ISO 9001, ISO 14001, ISO 45001, and ISO 13485:2016 certified. The couch shall be BIS certified and/or carry CE certification from a 4-digit notified body and/or US FDA approval. Final approval of the product shall be subject to the satisfaction of the Engineer-in-Charge/Employer. Should conform to ISO quality standards.

14. U pattern Curtain for Hospital Bed



Providing and installation of hospital cubicle track system for ICU beds, designed in a "U" pattern, with all components and installation to be completed as per manufacturer's instructions and approved by the Engineer-in-Charge/Employer. The curtain track system shall be fabricated from corrosion-resistant aluminum alloy 6063-T-6, having a minimum tensile strength of 195 MPa and shear strength of 150 MPa. All aluminum components shall be powder coated with a minimum of 50-micron polyester coating in an approved shade, ensuring durability and resistance to environmental wear.

The track shall comprise ceiling support units and wall support units. Ceiling suspenders shall consist of upper aluminum fixing plates of 50.4 mm diameter and 1.8 mm thickness, fixed securely to the ceiling with three raw plugs and screws per plate. The suspenders shall be made of aluminum pipe with a minimum diameter of 12.7 mm, with adjustable lengths tailored to accommodate ceiling and curtain height. Each cubicle shall be supported by a minimum of three suspenders to ensure structural integrity. Wall support units shall be constructed from aluminum and anchored to the wall using raw plugs and screws.

The curtain track shall be made from aluminum alloy, having a cross-sectional size of 20.4 mm x 25 mm, with 1.6 mm thickness on the sides and 3.3 mm on the top. A removable curtain point shall be provided using galvanized steel to enable easy loading and unloading of the curtains. Smooth curtain movement shall be ensured using 7 mm diameter Teflon-coated plastic rollers, each fitted with 1.8 mm diameter, 30 mm long stainless steel (Grade 302) hooks.

The track shall be bendable to a 300 mm radius to form a 90-degree jointless bend, allowing seamless coverage over the head and sides of the ICU bed in the required "U" configuration. The

hospital curtains provided shall be of 7.5 feet overall height, fabricated from 100% polyester antimicrobial and flame-retardant fabric, with the upper 450 mm portion made of white nylon mesh to allow ventilation. The fabric shall be wrinkle-free, shrink-proof, anti-odor, stain-retardant, and water-repellent. Stainless steel grommets shall be fixed at 150 mm intervals along the top of the curtain for hanging.

Curtain fabric shall be sized to match the track length with an additional 20% fullness for draping, and the height shall be adjusted to leave a 10-inch (approximately 250 mm) clearance from the floor. All edges of the fabric shall be hemmed for durability. All mild steel components shall be pre-treated and powder coated for rust protection. The curtain system shall allow smooth sliding functionality around the bed in a "U" pattern and shall be installed level and plumb, in accordance with the manufacturer's specifications and to the satisfaction of the Engineer-in-Charge/Employer.

Should conform to ISO quality standards.

15. Stainless Steel Dustbin (For Office)



Providing and installation of stainless steel dustbin with lid and handle, suitable for office use, with overall dimensions of 10 inches in diameter and 14 inches in height, having a total capacity of 15 liters. The dustbin shall be fabricated from non-magnetic stainless steel of 202 grade, with a uniform wall thickness of 1.0 mm, ensuring durability and corrosion resistance in daily usage conditions. The design shall include a user-friendly lid for hygienic waste disposal and a convenient handle for portability. The dustbin shall be operated by a foot pedal (leg-operated mechanism) to allow hands-free use, promoting hygiene and ease of handling. The type and operation of the dustbin shall be subject to approval by the Engineer-in-Charge/Employer.

Should conform to ISO quality standards.

16. **Single bed with mattress** (for Duty Room)



Supply and installation of a single bed complete with mattress for use in the duty room. The bed shall have an overall size of 2150 mm (length) x 973 mm (depth) x 720 mm (height). The headboard panels shall be manufactured from 18 mm thick commercial ply board, finished with 1 mm thick laminate on both sides. All exposed edges shall be edge banded with 2 mm thick PVC edge banding to ensure durability and a clean finish. The bed leg frame structure shall consist of metal frames fabricated from mild steel (M.S.) box sections of size 50 x 25 mm with a thickness of 1.6 mm. Internal support pipes shall be made from 25 x 25 mm M.S. box sections with 1.6 mm thickness, while the headboard vertical pipes shall be made from 25 x 25 mm box sections in 1.2 mm thickness. The mattress holding bracket shall be fabricated using 1.2 mm thick CRCA sheet. The mattress frame platform shall be constructed from 18 mm thick commercial ply board finished with 1 mm laminate on both sides and edge-banded with 2 mm PVC edge banding.

High-quality hardware shall be used throughout the construction, and the assembly shall follow a knock-down construction method to allow ease of transport and installation. The bed leg frame shall be powder-coated in the shade “MATT TAUPE WHITE”, Ref. No. 9001904, and the mattress frame structure shall be powder-coated in the shade “EPP FR TEX. MILKY WHITE”, Ref. No. 9003456, both applied to a thickness of 50 microns (± 10 microns). All remaining metal parts shall be powder-coated in the shade “S/G CHARBROWN” to the same thickness. The complete bed unit shall be certified by GREENPRO for environmental compliance.

The bed shall be supplied along with a high-quality single mattress of size matching the bed frame, with a thickness of 10 cm or 12.5 cm as approved

by the Engineer-in-Charge/Employer. The mattress shall feature a combination of layered foams engineered to provide optimal support and comfort. The topmost layer shall consist of convoluted foam to maintain airflow and deliver acupressure-like comfort to the body. The core of the mattress shall include bonded foam for firm support, and in the

12.5 cm (5") variant, a layer of softy foam in the middle shall offer enhanced comfort by providing indirect support to the reclining body. The complete unit—bed and mattress—shall be supplied and installed to the satisfaction of the Engineer-in-Charge/Employer.

Should conform to ISO quality standards.

17. Reception Table



Providing and placing a customized reception counter in a rectangular shape with dual-level tops, fabricated as per architect's drawing and finished in accordance with site guidelines and instructions from the Engineer-in-Charge/Employer. The entire understructure of the table shall be made using 25 mm thick pre-laminated marine plywood, reinforced with a mild steel (MS) pipe framework for

structural strength and durability. The outer surfaces shall be cladded with 12 mm thick Corian sheets, thermoformed to the desired shape using precision dyes and molds, seamlessly joined and polished to a smooth finish. The item shall include the cost of Corian cladding, 25 mm marine plywood, MS square pipe framework, all necessary hardware, integrated drawer units, shutter doors finished with laminated mica or approved veneers, locking mechanisms, and a footrest as per the design intent.

All external surfaces shall be finished with 1 mm thick high-pressure laminate, and all exposed edges shall be sealed with 2 mm thick PVC edge banding. Inner surfaces shall be lined with 1 mm thick white laminate or as approved by the Engineer-in-Charge. The reception counter shall be equipped with six computer keyboard trays and six drawer cabinets, each fitted with a locking mechanism. Each cabinet shall consist of three drawers, with heights of 150 mm, 150 mm, and 350 mm respectively. The drawer units shall be 450 mm in width and 680 mm in height, constructed from 18 mm thick marine plywood, finished with 1 mm laminate on all external surfaces, and all edges sealed with 2 mm thick PVC edge banding. The internal surfaces of drawers shall be finished with white laminate, and each drawer shall operate on a pair of heavy-duty telescopic drawer sliders of approved make.

A double front panel shall be provided for mounting electrical switches and sockets, ensuring proper utility integration. The working top shall be positioned at a height of 750 mm, while the counter top shall range from 1050 mm to 1200 mm in height. The depth of the working top shall be between 650 mm and 750 mm, as per the final layout. High-quality hardware shall be used throughout, including components such as roller slides, hinges, mini-fix fittings, dowels, handles, and screws from reputed manufacturers such as Hettich, Ebco, or equivalent, and as approved by the Engineer-in-Charge. All plywood and laminate materials shall be sourced from approved brands such as Century, Action Tesa, Greenply, or equivalent. The final design, finish, and color of the reception counter shall be approved by the Engineer-in-Charge/Employer prior to fabrication and installation. Should conform to ISO quality standards.

18. Reception/ Nurse station Chair



Supply and installation of ergonomically designed reception or nurse station chair as per the following technical specifications and as approved by the

Engineer-in-Charge/Employer. The seat shall be made of 1.2 ± 0.1 cm thick hot-pressed plywood, upholstered with high-quality fabric or synthetic leather and padded with molded polyurethane foam. The backrest shall be fabricated from 1.0 cm thick hot-pressed plywood, similarly upholstered with replaceable covers in fabric or synthetic leather, and padded with molded polyurethane foam. The polyurethane foam used shall have a density of 45 ± 2 kg/m³ and a hardness load of 16 ± 2 kgf as per IS:7888 under 25% compression. The seat shall have dimensions of 51.0 cm in width and 48.0 cm in depth, while the backrest shall measure 48.0 cm in width and 76.0 cm in height. The chair shall include molded polyurethane armrests mounted on height-adjustable, drop-lift type M.S. tubular supports that are chrome plated. The armrests shall be height-adjustable in five steps up to 6.5 ± 0.5 cm. The chair mechanism shall provide advanced ergonomic features including 360° swivel capability, knee tilt synchro mechanism, tilt tension adjustment, single-point control, four-position locking with anti-shock functionality, and seat depth adjustment of 6.0 ± 0.5 cm lockable in six positions. The backrest shall incorporate a sliding up-and-down mechanism that allows vertical adjustment in the range of 7.5 ± 0.5 cm, with locking capability at four positions to ensure optimal lumbar support.

Pneumatic height adjustment shall be provided with a stroke of 9.0 ± 0.3 cm. The pedestal base shall be fabricated from 0.2 ± 0.02 cm thick hot rolled (HR) sheet, chrome plated, and equipped with an injection-molded black polypropylene hub cap. The base shall have a pitch-center diameter of $66.0 \pm$

0.5 cm, expanding to 76.0 ± 1.0 cm with castors. Twin-wheel castors shall be constructed from black nylon to ensure smooth mobility and floor protection. The overall dimensions of the chair shall be 76.0 cm in width and 76.0 cm in depth (as measured from the base). The overall height from the ground shall be adjustable from a minimum of 101.5 cm to a maximum of 117.5 cm. The seat height shall range from a minimum of 46.9 cm to a maximum of 55.9 cm. Dimensional tolerances shall be within

± 1 cm. All design; upholstery material, color, and finish shall be subject to approval by the Engineer-in-Charge/Employer prior to final supply and installation. Should conform to ISO quality standards.

Budgetary Estimate of furniture work for 50 Bedded CRITICAL CARE BLOCK, Himachal Pradesh

Name of Agency:

S. No.	Name of Items	Unit	Quantity	Rates per Unit including of all taxes with 3 years Warranty	Amount (In Rs.)
1	Bed Side Stool	Each	47		
2	Bedside Locker	Each	59		
3	Biomedical Waste Bin- Small -Set of 4	Each	8		
4	Crash Cart	Each	7		
5	Dressing Trolley	Each	7		
6	Drug Trolley/Medicine Cart	Each	7		
7	ECG Machine Trolley	Each	7		
8	Instrument Trolley	Each	7		
9	Iv Stand with SS Rod and Castor Base	Each	49		
10	LDR Bed	Each	2		
11	Manual Bed 4 Section with Mattress	Each	11		
12	Mayo Trolley	Each	7		
13	Motorized ICU Bed 4 Section with Mattress	Each	10		
14	Overbed Table	Each	57		
15	Oxygen Cylinder Trolley	Each	5		
16	Patient Stretcher (SS)	Each	7		
17	Ward Bed (2 Section) With Mattress	Each	36		
18	Wheelchair-Foldable	Each	7		
	Admin/Office Block Furniture				
1	Executive Table	Each	3		
2	High Back Executive Chair	Each	3		
3	Visitor Chair	Each	44		
4	Work Table with Mobile Pedestal Unit	Each	19		
5	High-Back Chair	Each	19		
6	3-Seater Waiting Chair	Each	53		
7	Two-Seater Sofa (Room)	Each	4		
8	Centre Table (Room)	Each	4		
9	Corner Table (Room)	Each	3		
10	Steel Almirah (Store Room)	Each	44		
11	Almirah With Glass Shutter (Consulting Room)	Each	8		

12	4 Drawer PLU Locker Unit	Each	1		
13	Examination Couch	Each	9		
14	U Patter Curtain for Hospital Bed	Sqmt	708		
15	Stainless Steel Dustbin for Offices	Each	22		
16	Single Bed with Mattress (Duty Room)	Each	6		
17	Reception Table	Sqmt	27		
18	Reception/Nurse Station Chair	Each	30		
	Toatal Amount in Rs.				-