

Request For Budgetary Estimate of furniture work for Hospital Block (A, B & C), Boys Hostel, Nurse Hostel and Girls Hostel at Pt. Jawahar Lal Nehru Govt. Medical college and Hospital, Chamba (HP).

HSCC/GMCH-Chamba/Furniture/2025

Date: 27/02/2025

HSCC (India) Ltd. intends to invite on-line Budgetary Estimate from eligible bidders for Supply, Installation testing and commissioning of furniture work for Hospital Block (A, B & C), Boys Hostel, Nurse Hostel and Girls Hostel at Pt. Jawahar Lal Nehru Govt. Medical college and Hospital, Chamba.

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, 5 Years warranty and freight from warehouse to consignee location i.e. Pt. Jawahar Lal Nehru Govt. Medical college and Hospital, Chamba (HP).

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:

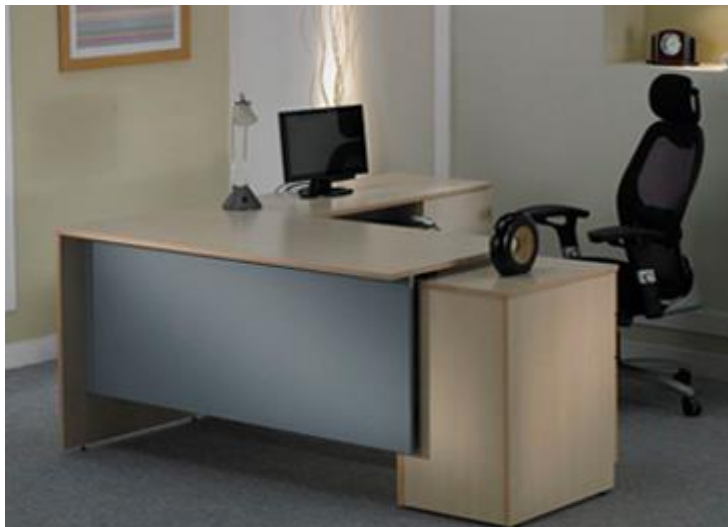
General Manager (Procurement)
Furniture Department
HSCC (India) Ltd.,
E-6(A), Sector-1,
Noida (U.P.) - 201301.

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

General Manager (Procurement),
HSCC (India) Ltd.

Technical Specification for Hospital Block (A, B & C), Boys Hostel, Nurse Hostel and Girls Hostel at Pt. Jawahar Lal Nehru Govt. Medical college and Hospital, Chamba (HP) (All Images are indicatives only)

1. Office Table for Student Duty/Nurse on duty/Resident Doctor/HOU



Providing & Fixing office Table with Combination of Main Table with Extended Return Unit and Pedestal Storage Unit: -

MAIN TABLE of size 1800mmW x 750mmD x 750mmH with top made of 36mm thick, pre-laminated MDF board. The gable end of 25mm thick Pre-laminated MDF board as per IS 14587(1998), The table has provision with Aluminium Anodized Access Flap for better electrical provision.

The Gable and Modesty panel is made of 18mm thick Pre-laminated MDF board as per IS 14587(1998), All Exposed edges of pre-laminated MDF board to be sealed with 2mm thick PVC edge banding tape pressed at 200°C to be applied with the help of hot-melt glue through fit edge-banding machines. The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing. All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel. Top, sides and bottoms (of each product) fixed up system: By using mini fix, supporting bracket/corner and wooden dowel in (knock down) system for interconnecting (MDF board). Design / Shape of table: Rectangular and taper inside at both side ends.

Extended Return Unit

Extended Return Unit size 1200 mm L X 480mmD X 750mmH: The Side unit top is made up of 25mm thick Pre-laminated MDF board as per IS 14587(1998), under structure is made up of 18mm thick Pre-laminated MDF board as per IS 14587(1998), All Exposed edges of pre-laminated MDF board to be sealed with 2mm thick PVC edge banding tape pressed at 200°C to be applied with the help of hot-melt glue through fit edge-banding machines. The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing. All the exposed edges should have buffing

radius of 1.5 to 2mm without affecting aesthetic value of the panel. The side unit is combination of 1 open able shutter storage with proper locking arrangement, two open shelves and 1 CPU Storage Drawer/storage shutter pull up mechanism: Groove type,

Mobile Pedestal Drawer Unit: Each Table should be provided with 3 drawer Wooden Mobile Pedestal having of 2 sliding Drawer and 1file Box mounted on 4 castors with front 2 castors lockable. The drawer top, and side panels including the drawer fascia is made out of 18mm thick Pre-laminated MDF board as per IS 14587(1998), the back of the drawer unit is made from 9mm thick Pre-laminated MDF board as per IS 14587(1998). The units are assembled by knockdown fittings such as Mini fix & dowels. The drawer is mounted on rollers slides to enable smooth operation of the drawer. The pedestals shall have central locking mechanism. D/C type slim Handle for Drawer and Shutter. Size of lockable castors for pedestal storage unit ± 2 mm: Diameter 40 mm and height 55 mm, Mobile Pedestal size shall be 400mm W x 550mm D x 585mm H, All Hardware: The high quality hardware used like Roller slides, Hinges, mini-fix, dowels, handle, screw etc. is make of Hettich/Ebco/ or equivalent or as approved by engineer in-charge/employer, MDF Board Make: Century/Action Tesa/Green ply/ or equivalent or as approved by engineer in-charge/employer) , Table to be complete as per approved sample or as per direction of Engineer-in-charge/employer.

2. Mid Back Chair



Supply and installation of Chair as per technical specification, The chair Seat is made of 1.4cm thick hot-pressed plywood upholstered with fabric and moulded Polyurethane foam. It has a seat depth adjustment of 5cm integrated in the seat through a sliding mechanism. Seat size shall be 50cm x 49cm. The back is injection moulded in Glass filled polyamide which is upholstered with Mesh fabric. The back consists of adjustable lumbar support made of injection moulded polypropylene having an adjustment of 6cm. Back size shall be 50cm x 68cm. The Polyurethane foam for seat is of density 55 kg per meter cube. The three-

way adjustable armrests is made of glass filled polyamide arm structure with PU arm top and height adjustment of 7cm. The arm top has swivel and to and for motion. The inner tube of armrest is chrome plated. It shall have centre tilt synchro mechanism, 360-degree revolving type, 3 position locking system with anti-shock feature. The pneumatic height adjustment is chrome plated with an adjustment stroke of 9cm. The pedestal is injection moulded polyamide and fitted with 5 nos. of twin wheel castors. The pedestal is 65cm PCD. The overall dimension of the chair shall be 75cm x 75cm x (100-109cm). Seat height shall be 44.5cm to 53.5cm. This shall come with sliding seat, which helps user adjusting the seat depth as per the user size and needs. Chair as approved by engineer in-charge/employer.

3. Visitor Chair



Supply and installation of Chair as per technical specification. The chair Seat is made of 1.4cm thick hot-pressed plywood upholstered with fabric and moulded Polyurethane foam. It has a seat depth adjustment of 5cm integrated in the seat through a sliding mechanism. Seat size shall be 550cm x 49cm. The back is injection moulded in Glass filled polyamide which is upholstered with Mesh fabric. The back consists of adjustable lumbar support made of injection moulded polypropylene having an adjustment of 6cm. Back size shall be 50cm x 68cm. The Polyurethane foam for seat is of density 55 kg per meter cube. The three-way adjustable armrests is made of glass filled polyamide arm structure with PU arm top and height adjustment of 7cm. The arm top has swivel and to and for motion. The inner tube of armrest is chrome plated. The powder coated welded tubular frame is made of dia. 2.8cm x 0.2cm thick MS round tube. The frame is fitted with Plastic caps made of injection moulded glass filled Polypropylene. The overall dimensions of the frame shall be 63.5cm x 59.5cm x 97.5cm. The seat height shall be 42.5cm. Chair as approved by engineer in-charge/employer.

4. Hospital Fowler Bed



Supply and installation of hospital fowler bed as per technical specification, Overall dimension: (L) 2145 mm x (W) 912 mm x (H) 560mm

Two function bed with adjustable backrest 70deg & upper leg rest 24 deg removable type Head board & foot board made of PP (poly propylene), Bed frame should be made of MS ERW rectangular section longitudinal tube of size 30mmx60mm of 1.6mm thick. It should have Provision of 4 iv pole holders. It is strengthened by rectangular cross tube section of size 60mmx40 mm having 1.6 mm thickness. It is further strengthened by 25.4 mm square tube with 1.6 mm thickness. leg Under Structure ERW round tubes should be used with thickness of 1.2mm with section 31.75 mm

Lying surface Lying surface should be made of CRCA sheet of thickness of 1mm thick. This lying surface should have 4 sections for bed profiling i.e. back adjustment, fixed pelvic section, upper and lower leg adjustment. Lower leg rest section is Provided with Ratchet for leg rest adjustment. Mattress platform is strengthened by tubular frame of size 25.4mm diameter x 1.2mm thickness. It should be strengthened by trapezoidal contour (rounded corner) 14 nos, embossed cut out. All metal components should be pre-treated with zinc phosphating and then powder coated with anti-microbial epoxy polyester powder coating. Mechanism All functions should be operated with lead screw mechanism, ACME threaded EN8 made 6mm pitch for easy in movement

Castors: High endurance, metal castors of 125mm diameter having Provision for diagonal locking with stem diameter of 22mm, should be Provided for better stability.

Powder coating: Anti rust, thermosetting epoxy polyester powder coating should be used. All powder coating should be in Ral White.

Certifications, The manufacturer should compliant with ISO 13485:2016. Maximum safe working load must be 135 kg.

All the functions should operate with the help of single ergonomically handle, which are made of metal inserted PPCO polymer, it's lever should be snap locked when not in use. All the handles should be Provided with operating guidance stickers.

To ensure quid quality welding " Co2 Argon" process should be adhered to.

powder coating-All metal components should be pre-treated with zinc phosphating in 7 tank process and then powder coated with epoxy polyester powder coating.
Packing goods should be supplied in knocked down construction to reduce carbon emission. In house test report proof loading test, cycle tests, impact test, horizontal & vertical load tests for side rails, salt spray test, castor break test, pull test for head and foot board. **Mechanical Fowler Bed As approved by engineer in-charge/employer.**

5. Hospital Bed Mattress



Supply and installation of bed mattress as per technical specification, 4 SECTION MATTRESS shall be 100mm thick, overall dimension should be (W)1965*(W)830*(H)100mm thick or as per size of bed, The mattress is Provided with 40 density 100 mm thick PU foam mattress which is covered by heavy helium material which is water proof, flame retardant, vapour & X-ray permeable. The zip & stitches for the mattress cover is concealed. **Bed Mattress as approved by engineer in-charge/employer.**

6. Bed side Locker with one drawer and cabinet



Supply and installation of bed side locker as per technical specification, The -bedside locker has single drawer and cabinet with lock and with plastic moulded handle. There is space between plastic top and the cabinet to keep the general items for the frequent use. Cabinet is Provisioned with lock to keep the valuable items for the safety.

overall dimensions is 490mmW x 410mm D x 941mm H

Corner tube made of ERW round tube with section 25.4 mm Dia of 1.2 mm thickness

Cabinet made of CRCA sheet of 0.8 mm thick Provided with lock. (470 mm x 410 mm x 382 mm), Top made of ABS of 2.2 mm thick. Top has recessed and contoured shape for better aesthetic and usability. Plastic moulded knob is Provisioned with Matt finish and dome shaped for better grip. Plastic moulded castors with 50 mm diameter placed in diagonal locking arrangement. RAL white, plastic parts in Grey.

5 kg UDL on both the tops and 10 kg in the cabinet. All metal components are pretreated with zinc phosphating in 7 tank process and then powder coated with anti-microbial epoxy polyester powder coating to fulfil the requirements for bacterial protection against at least 2 commonly found bacteria in Hospital environment [Gram positive and Gram Negative]. goods are supplied in knocked down construction to reduce carbon emission. **Bed side locker as approved by engineer in-charge/employer.**

7. Over Bed Table with height adjustable on Gas Lift.



Supply and installation of Over Bed Table with height adjustable feature. Overall dimension should be (L)896 mm X (W)395 mm X (H) Adjustable from 800 mm to 1083 mm. Table top Height can be adjusted with the help of operating lever which activates the gas spring. Base frame is made of ERW round tube with 50.8 mm dia and 1.6 mm thickness. Housing is made of aluminium extruded inner and outer tubes. Handle for gas spring made of MS sheet metal of section 74 mm x 115 mm with 3 mm thick Handle with CRCA material making strong lever and have provision of wider area for grip. Gas spring of length 835 mm and stroke of 293 mm. Smooth functioning gas spring with adjustable height and consistent motion during operation.

Effort level to push downward = 14.5(-2kg) at room temp 29°C.

Plain top made of membrane pressed MDF with section 395 mm x 896 mm of 18 mm thickness. Membrane pressed MDF board of frosty white shade on top surface and with edge lipping. Top: MDF top with membrane press, should give anti-scratch Property with good surface finish. Castors: High endurance anti-static, Plastic injection moulded castors are Provided of Ø50mm.

All metal parts should be pre-treated and powder coated with epoxy polyester. Max Safe Working Load: 20 kg UDL. goods are supplied in knocked down construction to reduce carbon emission. **Over Bed table as approved by engineer in-charge/employer.**

8. Mid Back Chair-2



Supply and installation of Chair as per technical specification. The chair seat and back shall be made up of 1.2 ± 0.1 cm. thick hot-pressed plywood measured as per QA method and upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam shall be designed with contoured lumbar support for extra comfort. The seat shall be extra thick foam on front edge to give comfort to popliteal area. The dimensions of back shall be 47.5 cm(W) x 58.0 cm(H) and of seat shall be 47.0 cm (W) x 48.0 cm (D). The HR polyurethane foam shall be moulded with density= 45 ± 2 kg/m³ and hardness load 16 ± 2 kgf as. per IS:7888 for 25% compression. The one-piece armrests shall be injection moulded from black Co polymer Polypropylene. The mechanism shall be designed with 360° revolving type, Upright-position locking, Tilt tension adjustment, Seat/back tilting ratio of 1:3. The pneumatic height adjustment shall has an adjustment stroke of 12.0 ± 0.3 cm. The bellow shall be 3-piece telescopic type and injection moulded in black Polypropylene. The pedestal shall be injection moulded in black 33% glass-filled Nylon-66 and fitted with 5 nos. twin wheel castors. The pedestal shall be 66.3 ± 0.5 cm. pitch-centre dia. (76.3 ± 1.0 cm with castors). The twin wheel castors shall be injection moulded in Black Nylon. Overall Dimensions of Chair shall be Seat Height - min 42.5 to max 54.5cm, Height - min85.5 to max 97.5cm, Width & Depth of Chair as measured from pedestal - Width-76.3 cm and Depth-76.3 cm. „ Chair as approved by engineer in-charge/employer.

9. 3-Seater Waiting Chair



Supply and installation of Chair as per technical specification. The seat shell shall be a welded assembly of seat, back and side frame. The seat and back shall be made of 0.12 ± 0.013 cm thick CR steel sheet with oblong perforations. They shall be welded to side frame of size 32 mm x 5 mm thick HR steel. The welded assembly shall be powder coated (DFT 40-60 microns). The seat shall have a front water fall edge to provide popliteal clearance for comfortable seating. It also shall have a buttock support curve that not only provides rear support but also prevents small children from falling through the gap between seat and back. Clean and flat surfaces of seat and back shall aid in easy maintenance. The dimensions of seat shall be 47.8 cm (W) x 44.6 cm (D) and of back shall be 41.6 cm (W) x 23. cm (H). Under structure assembly shall consist of connecting beam and leg assembly made of M.S.E.R.W. oblong tube of size 75 mm x 50 mm x 2 mm thick. The welded structure assembly shall be powder coated (DFT 40-60 microns). The leg assembly shall be fitted with shoes and levellers in Nylon. The leg structure shall be designed with minimal area of contact close to ground providing easy access for cleaning purposes. The shoes fitted to leg assembly shall help in aligning the structure for back-to-back arrangements. Levellers should take care of uneven flooring. Connecting beam shall be fitted with snap locking end cap. It also aids in side-by-side under structure alignment. Armrest assembly shall consist of armrest frame and armrest pad. The armrest frame shall be made up of size 31.7 mm x 4.7 mm thick HR steel and it shall be powder coated (DFT 40-60 microns). Armrest pad shall be injection molded in Nylon and shall be fitted onto the armrest frame. Side table shall be a welded structure assembly made of 0.12 ± 0.013 cm thick CR steel sheet with oblong perforations which shall be welded to side strip of size 32 mm x 5 mm thick HR steel. The welded assembly shall be powder coated (DFT 40-60 microns) and fitted to under structure assembly. Side table size shall be: 20.0 cm (W) X 37.2 cm (D). Overall Dimensions shall be Seat Height - 44.1 cm, Height - 78.5 cm, Side table size- 20.0cm (W) X 37.2cm(D), Width & Depth of Chair as measured from pedestal - Width-210.0 cm and Depth-63.8 cm., 3-seater waiting Chair as approved by engineer in-charge/employer.

10. Work Table



Supply and installation of table as per technical specification. Work table size: 1200mm Width x 600mm Depth x 750mm Height, The table top shall be made from 25 mm thick Pre-laminated MDF Board conforming to Grade SBG II of IS 12406/2003, side panel made from 25 mm thick Pre-laminated MDF Board conforming to Grade SBG II of IS 12406/2003, the side panels have 2 glide screws each for levelling of the desk and Modesty panel shall be made from 18 mm thick Pre-laminated MDF Board conforming to Grade SBG II of IS 12406/2003, thickness of laminate is 1 mm thick, E1 grade Pre-laminated MDF Board and laminate with zero urea formaldehyde emissions ($\leq 8\text{mg}/100\text{ g oven dry board-perforated method}$) for better in-house quality. This should comply with (EN 120-1992). All Exposed edges of pre-laminated MDF board to be sealed with 2mm thick PVC edge banding on the user side and 0.8mm thick PVC edge-banding tape pressed on top and bottom side at 200°C to be applied with the help of hot-melt glue through fit edge-banding machines. The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing. All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel.

Mobile Pedestal Drawer Unit: Each Table should be provided with 3 drawer Wooden Mobile Pedestal having of 2 sliding Drawer and 1 file Box mounted on 4 castors with front 2 castors lockable. The drawer top, and side panels including the drawer fascias is made out of 18mm thick Pre-laminated MDF board as per IS 14587(1998), the back of the drawer unit is made from 9mm thick Pre-laminated MDF board as per IS 14587(1998). The units are assembled by knockdown fittings such as Mini fix & dowels. The drawer are mounted on rollers slides to enable smooth operation of the drawer. The pedestals shall have central locking mechanism. D/C type slim Handle for Drawer and Shutter. Size of lockable castors for pedestal storage unit $\pm 2\text{ mm}$: Diameter 40 mm and height 55 mm, Mobile Pedestal size shall be 400mm W x 550mm D x 585mm H, All Hardware (Handles, Slides, Hinges, locks, sliding channel etc) Hettich/Ebco Make or equivalent or as approved by engineer in-charge/employer. MDF Board/laminate Make: (Century/Action Tesa/Merino/Greenlam or equivalent or as approved by engineer in-charge/employer). **Work Table as approved by engineer in-charge/employer**

11. Mid Back Chair for Demo room



Supply and installation of Chair as per technical specification. SEAT/BACK ASSEMBLY: The cushioned seat assembly consists of seat base moulded in glass-filled Poly-amide, moulded Polyurethane foam & upholstered with high stretch knitted polyester fabric. The cushioned back assembly consists of back inner moulded in Polypropylene in-situ moulded with Polyurethane foam & upholstered with high stretch knitted polyester fabric. Back Size: 45.5 cm. (W) x 53.0 cm. (H) Seat Size : 48.5 cm. (W) x 49.0 cm. (D)

HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR polyurethane foam used in seat and back cushion is moulded in Density Min 48 kg/m³, and hardness load 15 ± 2 kgf as per IS:7888 for 25% compression.

TILT MECHANISM, SPINES & SPINE CONNECTOR: The seat and back are firmly connected to the base frame and are cantilevered in such a way that it gives a multi-dimensional movement possibility just with a simple lean on the sides or back, without need for complex manual adjustments. The cantilevered seat offers impact cushioning while sitting and synchronises with the back movement during posture changes. The "S" shaped spines moulded in high strength glass-filled Poly-amide and the spine connector moulded in glass-filled Poly-amide form the back-spine structure involved in multi-dimensional recline motion. The variable tilt angle recline motion can be adjusted with 3 position Tilt Limit feature which should be inbuilt in seat base and the tension (return force) should be user weight dependent.

ADJUSTABLE ARMRESTS: The assembly consists of armrest housing sliding over the armrest structure, both moulded in glass-filled Poly-amide: The height adjustment feature should be button operated having adjustment of 6.6 ± 0.5 cm. The Armrest Top should be made up of integral skin PU moulded over plastic inner moulded in glass-filled Poly-amide.

PNEUMATIC HEIGHT ADJUSTMENT: The seating height can be adjusted with a pneumatic gas-lift having an adjustment stroke of 9.2 ± 0.3 cm

PEDESTAL ASSEMBLY: The pedestal should be injection moulded in glass-filled Poly-amide and fitted with 5 nos. twin wheel castors. The pedestal should be 66.0 ± 0.5 cm. pitch centre diameter and 76.0 ± 1.0 cm. with castors

TWIN WHEEL CASTORS : 5 nos. twin wheel castor are injection moulded in Poly-amide having 5.0 ± 0.1 cm wheel diameter assembled to the pedestal

Overall Dimensions of Chair

Seat Height - min 44.5 to max 53.8 cm.

Height - min 99.5 to max 108.8 cm.

Width & Depth of Chair as measured from pedestal - Width-76.0 cm and Depth-76.0 cm." „
Chair as approved by engineer in-charge/employer.

12. Desk let Chair for Demo Room



Supply and installation of Chair as per technical specification. 1) SEAT / BACK: The seat sub-assembly should be made up of 1.2 ± 0.1 cm thk Plywood upholstered with moulded foam and polyester fabric and covered with an injection-moulded polypropylene outer cover. The seat can tip-up when not in use and should be feature can be used while stacking the chairs horizontally The back sub-assembly should be made up of injection-moulded polypropylene inner upholstered with moulded foam and polyester fabric and covered with an injection-moulded polypropylene outer cover. The contoured back with width extension at the bottom should be a should be designed to give comfort to lower back. The back flexing features allows the back to tilt by $9c \pm 2'$ to aid the user in adopting a comfortable reclining posture. Both these sub-assemblies should be fixed to the tubular structure,

BACK SIZE: 45.2cm (W) X 44.6cm (I-I)

SEAT SIZE: 47.0cm (W) X 50.0cm (D)

2) TUBULAR FRAME STRUCTURE: The powder-coated 4 leg structure should be made of 2.2 ± 0.03 cm dia x 0.25 ± 0.02 cm thick M.S. E.R.W. Tube front and rear leg welded along with connecting tube made of 1.9 ± 0.02 cm dia x 0.2 ± 0.016 cm thk M.S. E.R.W. Tube to form the tubular frame assembly. The legs should be provided with injection-moulded adopter bush in black Nylon and brake-loaded castors enabling easy manoeuvring while not in use and stable sitting while in use_ The chairs can be stacked horizontally when not in use_

3) POLYURETHANE FOAM: The Polyurethane foam should be moulded with density = 70.0 ± 8.0 kg/m³ and Hardness = 20 ± 2 for Seat & 16 ± 2 for back at 25% compression.

4) ARMRESTS: The armrest structure should be made up of 2.2 ± 0.03 cm dia x 0.25 ± 0.02 cm thk M.S. E.R.W. Tube welded to the Tubular Frame structure and having a scratch-resistant ABS Arm top.

5) FULL DESKLET: The Full Desk-let assembly should be Flip-up type and should be made up of extension tube of 1.9 ± 0.02 cm dia x 0.2 ± 0.016 cm thk PAS. E.R.W. Tube and a support tube on L.H. side of 1.6 ± 0.02 cm dia x 0.2 ± 0.016 cm thk M.S. E.R.W. Tube on which a scratch resistant ABS desk-let top should be fixed and covered on bottom side with a bottom cover.

6) BRAKE-LOADED CASTORS: The brake-loaded castors should be assembled to the chair legs, to give a free movement for manoeuvring the chair when not in use and it will break the movement when load should be applied (while in use) to give a stable feel. The twin wheel castors should be injection molded in black Polypropylene.

Overall Dimensions of Chair

Seat Height - 47.5 cm.

Height - 89.0cm.

Width & Depth of Chair as measured from base - Width-66.5cm and Depth-84.0 cm.

„ Chair as approved by engineer in-charge/employer.

13. 3-seater Tubular sofa



Supply and installation of sofa as per technical specification. The LH/RH side frame shall be fitted to the two ends of the seat/back mounting frame to form the leg assembly. It shall be made of SS J4 Grade tube dia 4.44 cm. x 1.5mm thk. The seat/back mounting frame assembly shall hold the two side frames together. The mounting frames, 2nos shall be used to connect the side frames. The mounting frame shall be made of MS. E.R.W. tube dia 5.08 ± 0.03 cm. x 3.15 ± 0.0252 cm thk. black painted. The seat /back shall be mounted on 4.0 ± 0.03 cm x 2.0 ± 0.02 cm x 0.2 ± 0.016 cm thk M.S. rectangular tube which shall be welded on the beam of seat/back mounting frame. The seat/back assembly shall consist of 1.2 ± 0.1 cm thk plywood insert with Polyurethane foam having density = 45 ± 2 Kg/m³ and hardness of the P. U. foam = 18 to 22 kg on Hampden m/c for 25% compression of the foam. The complete moulded seat/back assembly shall be covered with a replaceable fabric upholstery cover. The dimensions of seat and back shall be: 54.5 cm. (W)x46.7cm. (D)x12.5cm. (T). The side frames shall be fitted with front and rear bottom shoes made of injection moulded polypropylene. The sofa shall be upholstered with stain repellent "Velvetine plus" fabric. The upholstery can be synthetic leather also. The velvet fabric should be vacuum cleaned in order to remove dirt & grit from the fabric surface. Upholstery

covers made from Velvetine fabric should not be soap washed or dry cleaned. Overall Dimensions shall be Seat Height - 41.5 cm, Height - 74.5cm, Width & Depth as measured from pedestal - Width-183.0cm and Depth-77.5 cm. ,, sofa as approved by engineer in-charge/employer.

14. High end office table (2400mm) with back unit



Providing & Fixing High end office table with Main table, Side Unit, Mobile pedestal and Back unit: -

MAIN TABLE of size 2400mmW x 1050 mmD x 750mmH with top made of 36mm thick, MDF board as per IS 12406 with duly finished with Veneer and final coating of PU having scratch resistance of 2H, table shall be finished with approved shade. The table has provision with Aluminium Anodized Access Flap for better electric provision and key board shall be provided.

The Gabel and Modesty panel is made of 25mm thick MDF board as per IS 12406 with duly finished with Veneer and final coating of PU having scratch resistance of 2H, All Exposed edges of pre-laminated MDF board to be sealed with 2mm thick PVC edge banding tape pressed at 200o C to be applied with the help of hot-melt glue through fit edge-banding machines. The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing. All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel. Top, sides and bottoms (of each product) fixed up system: By using mini fix, supporting bracket/corner and wooden dowel in (knock down) system for interconnecting (MDF board). Design / Shape of table: Rectangular and taper inside at both side ends

Extended Return Unit: -

Extended Return Unit size 1200mmL X 480mmD X 750mmH: The Side unit top is made up of 25mm thick MDF board as per IS 12406 with duly finished with Veneer and final coating of PU having scratch resistance of 2H and other under structure is made up of 25 mm thick MDF board as per IS 12406 with duly finished with Veneer and final coating of PU having scratch resistance of 2H All Exposed edges of pre-laminated MDF board to be sealed with 2mm thick PVC edge banding tape pressed at 200o C to be applied with the help of hot-melt glue through fit edge-banding machines. The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing. All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel. The side unit is combination of 1 open able shutter storage with proper locking arrangement, two open shelves and 1CPU Storage Drawer/storage shutter pull up mechanism: Groove type,

Back Unit/File Cabinet

Back Unit Of size 2400mmL X 480mmD X 2050mm H: The top is made up of 25mm thick MDF board as per IS 12406 with duly finished with Veneer and final coating of PU having scratch resistance of 2H & under structure is made up of 18 mm thick MDF board as per IS 12406 with duly finished with Veneer and final coating of PU having scratch resistance of 2H, All Exposed edges of pre-laminated MDF board to be sealed with 2mm thick PVC edge banding tape pressed at 200o C to be applied with the help of hot-melt glue through fit edge-banding machines. The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing. All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel. Wooden Openable shutter storage with height of 750mm shall be provided in lower portion of File Cabinet and 8 mm thick Glass openable shutter shall be provided in upper portion of File

Cabinet. All shutters and drawer shall be provided with proper SS handle, lock & Keys arrangement.

Mobile Pedestal Drawer Unit: Each Table should be provided with 3 drawer Wooden Mobile Pedestal having of 2 sliding Drawer and 1 file Box mounted on 4 castors with front 2 castors lockable. The drawer top, and side panels including the drawer fascia's is made out of 18mm thick Pre-laminated MDF board as per IS 14587(1998), the back of the drawer unit is made from 9mm thick Pre-laminated MDF board as per IS 14587(1998). The units are assembled by knockdown fittings such as Mini fix & dowels. The drawer is mounted on rollers slides to enable smooth operation of the drawer. The pedestals shall have central locking mechanism. D/C type slim Handle for Drawer and Shutter. Size of lockable castors for pedestal storage unit ± 2 mm: Diameter 40 mm and height 55 mm, Mobile Pedestal size shall be 400mm W x 550mm D x 650mm H, All Hardware: The high quality hardware used like Roller slides, Hinges, mini-fix, dowels, handle, screw, lock etc is make of Hettich/Ebco/or equivalent or as approved by engineer in-charge/employer, MDF Board, laminate Make: Century/Action Tesa/Green ply/ or equivalent or as approved by engineer in-charge/employer) „ **The high end office table shall be complete as per direction of Engineer-in-charge/employer.**

15. High back chair-1



Supply and installation of Chair as per technical specification. Seat/ Back Assembly: The seat is made up of 1.2 ± 0.1 cm. thick hot-pressed plywood upholstered with pure leather and moulded polyurethane foam. GSM/Thickness of fabric $\pm 5\%$ (Gram/Square meter): Genuine leather of 0.8-1.0 mm thickness, The back foam is designed with contoured lumber support for extra comfort. The chair should very High back Size: 53.0 cm(W) x95.4cm(H). High resilience (HR)Polyurethane foam: The HR Polyurethane foam is moulded with density $=45 \pm 1$ Kg/m³ and Hardness load 16 ± 2 kgf as per IS :7888 for 25% compression. Seat- Back Connecting Spine: the seat back arrested together with spine made of 0.8 ± 0.05 cm thick steel and is black powder- coated (DET 40-60 microns). Armrest Assy: The armrest assy. Comprises of three parts viz. The armrest support tube and P.U. armrest and the armrest top. The armrest tube Assy is made of 2.54 ± 0.03 cm x 0.16 ± 0.0128 cm M.S.

polyurethane with 50-70 shore 'A' hardness and reinforce with M.S insert. The arm rest top is made of ABS & upholstered with foam & leather. Front pivot synchro tilt Mech. The mechanism is designed with the following features: 360° revolving type. Front- pivot for tilt with feet resting on ground & continuous lumbar support ensuring more comfort. Tilt tension adjustment can be operated in seating position. 5 positions locking with anti-shock back mechanism, which prevents the backrest from impacting the user when the lock is released. Static seat depth adjustment= 5.0 ± 0.5 cm with position locking. Seat Base Assy. : The seat base assy is designed with following features : 360° revolving type without tilt. Pneumatic Height Adjustment: it has an adjustment stroke of 9.0 ± 0.3 cm. Pneumatic Height Adjustment: it has an adjustment stroke of 9.0 ± 0.3 cm. Blow moulded bellow: The below is piece and blow moulded in black polypropylene. Pedestal Assy: The pedestal is made of die-cast Aluminium with buffing finish. It is fitted with 5 nos. Twin wheel castor. The pedestal is 67.0 ± 0.5 cm pitch- centre dia. (77.0 ± 1.0 cm with castors). 9 Twin wheel castors: The twin wheel castors are injection moulded in black Nylon., Overall Chair Height ± 15 mm: 1280, Backrest Height ± 15 mm: 950-millimetre, Backrest Width ± 10 mm: 520 millimetre, Seat Height ± 15 mm: 500, Seat Width ± 10 mm: 550, Seat Depth ± 10 mm: 500 millimetre, „ **High back chair as approved by engineer in-charge/employer.**

16. Visitor Chair-2



Supply and installation of Chair as per technical specification. The seat shall be made up of 1.2 +/- 0.1 cm thick hot-pressed plywood & upholstered with leather and moulded polyurethane foam. The back shall be designed with contoured lumbar support for extra comfort. Size of back shall be (W)-53cm x (H)-73cm & size of seat shall be (W)-54.6cm x (D)-49cm. High Resilience (HR) foam should be used in making seat & back which shall be moulded with density 45 ± 2 kg/m³ and hardness load 16 ± 2 kgf as per IS: 7888 for 25% compression. The fixed type mechanism shall be made with a 0.8 ± 0.05 cm thick HR steel spine welded to it and black powder coated. Overall dimensions of Chair shall be Width of Chair - 59cm, Depth of Chair - 68.5 cm as measured from pedestal below. Height of back from ground - 89.5cm. Seat height - 46.5cm. Dimensions tolerance / variations shall be within +/- 1 cm. „ **Chair as approved by engineer in-charge/employer.**

17. 2-Seater Sofa



Supply and Installation of Two-Seater Sofa, the sofa frame is made from seasoned solid wood that undergoes multi-step treatment for protection against termites and bugs. Back rest of the sofa is designed ergonomically to provide an additional lumbar support to keep back in its perfect position. The extended angular head cushion provides adequate headrest and enables correct body posture for long seated hours.

SEAT FOAM: The seat is made of PU foam with Density 28 ± 2 kg/cu. meter having an additional top layer of super soft PU foam in Density 32 ± 2 kg/cu. upholstered with fabric or leatherette. Seat Cushion Thickness ± 3 (mm): 150mm

- 2) BACK FOAM: The back is made of PU foam with Density 28 ± 2 kg/cu. mtr with two additional top layer of super soft foam of density 32 ± 2 kg/cu. mtr, upholstered with fabric or leatherette. Backrest Cushion Thickness ± 3 (mm): 175mm

- 3) UNDERSTRUCTRE: Under structure is made up of 1.2 ± 0.1 cm. thick hot-pressed plywood (moisture resistance & termite proof as per IS: 303) & pinewood of cross section devoid of major knots & surface defects 6 nos. per seat & 3.8 mm Dia zigzag spring assembly is mounted over under structure for cushioning purpose 6 nos. per seat & 3.8 mm Dia zigzag spring assembly is mounted over under structure for cushioning purpose.

- 4) LEG ASSEMBLY: made of solid wood, size of sofa; (W) 1450 mm (D) 950 mm (H) 930 mm seat (H) 470 mm, Sofa Leg Height ± 2 (mm): 150 mm, Sofa Leg Width / Diameter ± 2 (mm): 40 mm, Arm Height ± 5 (mm): 710mm, Arm Width ± 5 (mm): 120mm „ **Sofa: as approved by Engineer In Charge/employer.**

18. 1- Seater Sofa



Supply and Installation of single-Seater Sofa, the sofa frame is made from seasoned solid wood that undergoes multi-step treatment for protection against termites and bugs. Back rest of the sofa is designed ergonomically to provide an additional lumbar support to keep back in its perfect position. The extended angular head cushion provides adequate headrest and enables correct body posture for long seated hours.

SEAT FOAM: The seat is made of PU foam with Density 28 ± 2 kg/cu. meter having an additional top layer of super soft PU foam in Density 32 ± 2 kg/cu. upholstered with fabric or leatherette. Seat Cushion Thickness ± 3 (mm): 150mm

- 2) BACK FOAM: The back is made of PU foam with Density 28 ± 2 kg/cu. mtr with two additional top layer of super soft foam of density 32 ± 2 kg/cu. mtr, upholstered with fabric or leatherette. Backrest Cushion Thickness ± 3 (mm): 175mm

- 3) UNDERSTRUCTRE: Under structure is made up of 1.2 ± 0.1 cm. thick hot-pressed plywood (moisture resistance & termite proof as per IS: 303) & pinewood of cross section devoid of major knots & surface defects 6 nos. per seat & 3.8 mm Dia zigzag spring assembly is mounted over under structure for cushioning purpose 6 nos. per seat & 3.8 mm Dia zigzag spring assembly is mounted over under structure for cushioning purpose.

4) LEG ASSEMBLY: made of solid wood, size of sofa; (W) 990 mm (D) 950 mm(H) 930 mm seat (H) 470 mm, Sofa Leg Height ± 2 (mm): 150 mm, Sofa Leg Width / Diameter ± 2 (mm): 40 mm, Arm Height ± 5 (mm): 710mm, Arm Width ± 5 (mm): 120mm,, **Sofa: as approved by Engineer In Charge/employer.**

19. Centre Table



Supplying of centre table with Supported by set of 4 Legs, connecting of leg with Adjacent side of leg, a single storage shall be provided in bottom portion of table, Dimension of Top (Length X Breadth ± 10 mm : 1200 mmX457mm, Height of centre table ± 10 mm: 430mm, top shall be made of 8 mm thick Tempered glass with 40 mm thick solid wood frame material, Frame and Leg shall be made of solid wood, Thickness of frame material (+/- 1 mm): 40x40 milli meter, or Diameter of leg material: 40 mm X 40 mm, Thickness of under structure support material: 40 mm, table top shall be natural finish, Four number Nylon buffers/shoes shall be provided at bottom, Glass make: Modi guard/Saint Gobain/Piramal Glass or as equivalent or as approved by engineer in-charge/employer, **centre table: as approved by Engineer In-Charge/employer.**

20. 2- Seater Sofa for hospital staff



Supply and installation of sofa as per technical specification. Two-Seater Sofa SEAT FOAM: The seat is made of PU foam with Density 28 ± 2 kg/cu. meter having an additional top layer of super soft PU foam in Density 32 ± 2 kg/cu. upholstered with fabric or leatherette. Seat Cushion Thickness ± 3 (mm): 150mm

- 2) BACK FOAM: The back is made of PU foam with Density 28 ± 2 kg/cu. meter with two additional top layers of super soft foam of density 32 ± 2 kg/cu. meter, upholstered with fabric or leatherette. Backrest Cushion Thickness ± 3 (mm): 175mm
- 3) UNDERSTRUCTRE: Under structure is made up of 1.2 ± 0.1 cm. thick hot-pressed plywood (moisture resistance & termite proof as per IS: 303) & pinewood of cross section devoid of major knots & surface defects 6 nos. per seat & 3.8 mm Dia zigzag spring assembly is mounted over under structure for cushioning purpose 6 nos. per seat & 3.8 mm Dia zigzag spring assembly is mounted over under structure for cushioning purpose.
- 4) LEG ASSEMBLY: It is a welded assembly made in Stainless steel (grade SS 202) tube & plate with plastic end cap. (W) 1460mm (D) 905mm(H) 855 mm seat (H) 450 mm, Sofa Leg Height ± 2 (mm): 150 mm, Sofa Leg Width / Diameter ± 2 (mm): 40 mm, Arm Height ± 5 (mm): 710mm, Arm Width ± 5 (mm): 120mm, , **Sofa: as approved by Engineer In Charge/employer.**

21. 1- Seater sofa for hospital staff



Supply and installation of sofa as per technical specification. 1) SEAT FOAM: The seat is made up of PU foam in Density 28 ± 2 kg/cu.mtr with an additional top layer of super soft PU foam in Density 32 ± 2 kg/cu, upholstered with fabric or leatherette.

2) BACK FOAM: The back is made up of PU foam in Density 28 ± 2 kg/cu. meter with two additional top layers of super soft foam of density 32 ± 2 kg/cu. meter, upholstered with fabric or leatherette.

3) UNDERSTRUCTRE: Under structure is made up of 1.2 ± 0.1 cm. thick hot-pressed plywood [moisture resistance & termite proof as per IS:303] & pinewood of cross sections devoid of major knots & surface defects. 6 nos. per seat & 3.8mm Diameter zigzag spring assembly is mounted over under structure for cushioning purpose.

4) LEG ASSEMBLY : It is a welded Assembly made in Stainless steel (grade SS 202) tube & plate with plastic end cap. Size : Width (W): 910mm, Depth (D): 905 mm, Height (H): 855 mm Seat Height (SH): 450mm. Sofa Leg Height ± 2 (mm): 150 mm, Sofa Leg Width / Diameter ± 2 (mm): 40 mm, Arm Height ± 5 (mm): 710mm, Arm Width ± 5 (mm): 120mm , , **Sofa: as approved by Engineer In Charge/employer.**

22. Centre Table-2



Supply and installation of centre table as per technical specification. 1) Centre TABLE & CENTER TABLE GLASS: It is 10 ± 0.3 mm thick black tinted Toughened glass UV glued with bushes made in SS 202 grade for focusing with under structure.

2) CENTER TABLE UNDERSTRUCTURE: It is a welded Assembly made in SS202 grade Dia. 12 ± 0.04 as per IS:1762.

Width of table= 112.0 cm, Depth=60.0 cm, height=34.9 cm. Glass make: Modi guard/Saint Gobain/Piramal Glass or as equivalent or as approved by engineer in-charge/employer , Centre table **as approved by engineer in-charge/employer.**

23. Meeting Table (4200mmx1500mm)



Supply Installation of **16-Seater Conference Table**. Size: 4200mmLx 1500mmWx 750mmH Made of 25mm thick pre-laminate MDF board with approved shade confirming to IS-14587:1998, All Exposed edges of pre-laminated MDF board to be sealed with 2mm thick PVC edge banding on the user side and 0.8mm thick PVC edge-banding tape pressed on top and bottom side at 200o C to be applied with the

help of hot-melt glue through fit edge-banding machines. The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing. All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel. Soft closing dual access flap provided for access to power supply and data cables.

Under structure

The Under-structure consists of mixture of 25mm thick pre-laminate MDF board with approved shade confirming to IS-14587:1998, All Exposed edges of pre-laminated MDF board to be sealed with 2mm thick PVC edge banding on the user side and 0.8mm thick PVC edge-banding tape pressed on top and bottom side at 200o C to be applied with the help of hot-melt glue through fit edge-banding machines. The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing. All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel. Anodized aluminium alloy 63400 - WP profile is added at bottom edges for improving the aesthetics. The product has a knock-down construction.

Wire Management

A wire raiser made of 0.8mm CRCA MS IS:513. It is epoxying polyester powder coated (DFT 40-60 microns) for flow of wires and cables. A Power box with 2 cutouts on either sides for standard 8 module Anchor Roma is provided. Beside each cutout, an additional cutout with plate is provided for mounting Audio-Visual Cables (e.g. HDMI, VGA-A, etc), „ **Meeting Table As approved by engineer in-charge/employer.**

24. Chair for Board Room



Supply and installation of Chair as per technical specification. The seat shall be made up of 1.2+/-0.1cm thick hot-pressed plywood measured as per QA method described in OCP-QLTA-P14-18 and upholstered with fabric or synthetic leather and moulded polyurethane foam. The back shall be made up 1.2+/-0.1cm thick hot-pressed plywood upholstered with replaceable fabric or synthetic leather upholstery covers and moulded polyurethane foam. The moulded polyurethane foam shall be of density 45+/-2kg/m³, and hardness load 16+/-

2kgf as per IS:7888 for 25% compression. The dimensions of seat shall be- 51.0cm(W) x 48.0cm(D) and of back shall be 48.0cm(W) x 76.0cm(H). The armrest top shall be made of moulded polyurethane and mounted on to a fixed type M.S tubular armrest support chrome plated. The Arm support has static vertical adjustment of $\pm 1.5 \pm 0.05$ cm. The mechanism of the chair shall have following features: 360° revolving type, Front pivot synchro mechanism, Tilt tension adjustment, Single point control, 4 position locking with anti-shock feature, Seat/Back tilting ratio of 1:2. The backrest shall consist of a fixed type mechanism i.e no back up/down adjustment. The chair shall be provided with pneumatic height adjustment which shall have stroke of 9.0 \pm 0.3 cm. The pedestal shall be fabricated from 0.2 \pm 0.02cm thick HR sheet, chrome plated and assembled with injection moulded black polypropylene hub cap. The size of the pedestal shall be 66.0 \pm 0.5 cm pitch-centre-diameter (76.0 \pm 1.0 cm with castors). The twin wheel castors shall be made black nylon. Overall dimensions of Chair shall be, Width of Chair - 76.0cm, Depth of Chair - 76.0cm as measured from pedestal below. Height from ground - min 102.5 to max 111.5cm. Seat height - min 46.0 to max 55.0cm. Dimensions tolerance / variations shall be within \pm 1 cm. „ **Chair as approved by engineer in-charge/employer.**

25. SS Top Round stool with height adjustable



Supply and installation of stool as per technical specification. STOOL: Overall Sizes Diagonal Leg Diameter 538 mm, minimum height 470mm - maximum height :655mm Stainless steel 202 made sheet with spin section of thickness 1.2 mm & should be non-corrosive. It should have a diameter of 305mm, seat base is made of MS ring and rectangular tube. EN8 Screw having diameter of 22mm should be used for height adjustment of the seat base. The hub should be made of MS ERW tube having diameter of 38mm and thickness 2.0mm. The Hub should be welded with the legs and it should accommodate and cover the lead screw mechanism. The under structure should consist of 4 legs made up of MS ERW tube of diameter 25.4 mm and 1.6mm thick. The press formed pipe leg should give a round & clean look. All the legs should be provided with 4 nos. of Nylon-6 bush. All metal components should be pre-treated with zinc phosphating in 9 tank process and then powder coated with anti-microbial epoxy polyester powder coating to fulfil the requirements for bacterial protection against at least 2 commonly found bacteria in Hospital environment [Gram positive and Gram Negative]. Safe working load must be 250 kg. **SS Stool as approved by engineer in-charge/employer.**

26. Examination couch



Supply and installation of examination couch as per technical specification. Overall dimension 1975 mm (L) x 560 mm (W) x 805 mm (H). Examination couch with three drawers with three cabinets, inbuilt step stool and BP tray holder. the base frame is made of 30 mm x 30 mm X 1.6 thick ERW tube.

The cabinets is made of 1 mm thick CRCA sheet with recessed plastic handles and with lock and plastic door latch. the hinges of the cabinet are made of sheet metal and pin arrangement. The internal dimension of the two side cabinets is 422 mm (W) x 455 mm (D) x 540 mm (H).

The storage cabinet unit is mounting tubular base frame.

The head rest is adjustable on gas spring which is actuated with C shaped handle lever.

The drawers is made of 1 mm thick CRCA sheet with recessed plastic handles and work on double extension ball slides for smooth glide. the internal dimension of the drawer is 330 mm (W) x 427 mm (D) x 92 mm (H)

The mattress platform is 65 mm thick which is made of 12 mm thick ply and PU foam and covered with Leatherette cover. the cover is water resistant, fire retardant, anti-microbial. The end of the top mattress surface is tapered end edge for ergonomic benefit.

There is ss304 made tissue roll holder present on the lower side of the back rest.

There is 1 mm thick CRCA made step stool with leveller with double extension ball slide for smooth operation.

There is 1 mm thick CRCA made BP apparatus holder which has adjustable in height on a SS made height adjustable rod.

Total load bearing capacity of 135 kg.

The examination couch should be Provision with six numbers levellers made of metal & plastic for adjustment on the uneven floor.

All the metal parts should be pretreated and powder coated with epoxy polyester powder coating. **Examination couch as approved by engineer in-charge/employer**

27. Revolving Stool with back and height adjustable



Supply and installation of stool as per technical specification. The seat shall be made up of 1.2 ± 0.1 cm thick flat plywood measured as per QA method described in OCP-QLTA-P14-18 and with moulded Polyurethane foam and are upholstered with replaceable synthetic leather covers. The dimensions of Seat shall be Diameter 40.0 cm and Adjustments are 360° Revolving type. The back foam shall be designed with contoured Lumbar support for extra comfort. The upholstery shall be available in synthetic leather. The dimensions of Back shall be 45.0 cm (W) covered with polyurethane foam. The HR polyurethane Foam shall be moulded with density = 45 ± 2 kg/m³ and Hardness load 16 ± 2 kgf as per IS:7888 for 25% compression. The manual height adjustment shall be very easy to operate with a help of a knob. It should be easily locked at the most comfortable position. The five-prong pedestal shall be fabricated from 0.2 ± 0.02 cm thick HR sheet (IS : DD 1079/ HR), Powder coated (DFT 40-60 microns) and shall be fitted with an injection moulded black Polypropylene Hub Cap and 5 nos. twin wheel castors. The pedestal shall be 55.0 ± 0.5 cm pitch-circle diameter (65.0 ± 1.0 cm with castors). Circular-foot-ring of Dia 52.0 ± 0.2 cm shall be made up of $01.9 \pm 0.2 \times 0.12 \pm 0.0096$ cm thk MS ERW Tube for foot support in High-base stool. The twin wheel castors shall be injection moulded in Black Nylon. Overall dimensions shall be Width- 65.0cm, Depth- 65.0 cm, Seat Height- 45.0 to 56.5cm. „ **Stool as approved by engineer in-charge/employer.**

28. Warden office table



Providing & Fixing office Table with Combination of Main Table with Extended Return Unit, Back Unit with Pedestal Storage Unit: -

MAIN TABLE of size 1800mmW x 750mmD x 750mmH with top made of 36mm thick, prelaminated MDF board. The gable end of 25mm thick Pre-laminated MDF board as per IS 14587(1998), The table has provision with Aluminium Anodized Access Flap for better electrical provision.

The Gabel and Modesty panel is made of 18mm thick Pre-laminated MDF board as per IS 14587(1998), All Exposed edges of pre-laminated MDF board to be sealed with 2mm thick PVC edge banding tape pressed at 200o C to be applied with the help of hot-melt glue through fit edge-banding machines. The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing. All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel. Top, sides and bottoms (of each product) fixed up system: By using mini fix, supporting bracket/corner and wooden dowel in (knock down) system for interconnecting (MDF board). Design / Shape of table: Rectangular and taper inside at both side ends.

Extended Return Unit

Extended Return Unit size 1050 mm L X 480mmD X 750mmH: The Side unit top is made up of 25mm thick Pre-laminated MDF board as per IS 14587(1998), under structure is made up of 18mm thick Pre-laminated MDF board as per IS 14587(1998), All Exposed edges of pre-laminated MDF board to be sealed with 2mm thick PVC edge banding tape pressed at 200o C to be applied with the help of hot-melt glue through fit edge-banding machines. The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing. All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel. The side unit is combination of 1 open able shutter storage with proper locking arrangement, two open shelves and 1 CPU Storage Drawer/storage shutter pull up mechanism: Groove type,

Back Unit

The Back Unit shall be of dimensions 1800mmWidth x 500mm Depth x 750mmHeight. It shall be made of 25mm thick pre-laminate MDF board confirming to IS-14587:1998 with 0.4 mm PVC membrane pressed on to top. The Slide door unit is made of 25 mm thick pre-laminated twin board of E1-P2 grade and approved shade edge banded with matching 2 mm thick PVC lipping. Shutters have a soft closing & anti slam mechanism. Handles are provided for ease of opening. Storage is provided with lock for security.

Mobile Pedestal Drawer Unit: Each Table should be provided with 3 drawer Wooden Mobile Pedestal having of 2 sliding Drawer and 1file Box mounted on 4 castors with front 2 castors lockable. The drawer top, and side panels including the drawer fascia is made out of 18mm thick Pre-laminated MDF board as per IS 14587(1998), the back of the drawer unit is made from 9mm thick Pre-laminated MDF board as per IS 14587(1998). The units are assembled by knockdown fittings such as Mini fix & dowels. The drawer is mounted on rollers slides to enable smooth operation of the drawer. The pedestals shall have central locking mechanism. D/C type slim Handle for Drawer and Shutter. Size of lockable castors

for pedestal storage unit ± 2 mm: Diameter 40 mm and height 55 mm, Mobile Pedestal size shall be 400mm W x 550mm D x 585mm H, All Hardware: The high quality hardware used like Roller slides, Hinges, mini-fix, dowels, handle, screw etc. is make of Hettich/Ebco/or equivalent or as approved by engineer in-charge/employer, MDF Board Make: Century/Action Tesa/Green ply/ or equivalent or as approved by engineer in-charge/employer). „ **Table to be complete as per approved sample or as per direction of Engineer-in-charge/employer.**

29. Warden office chair



Supply and installation of Chair as per technical specification. The seat shall be made up of 1.2 \pm 0.1cm thick hot-pressed plywood measured as per QA method described in OCP-QLTA-P14-18 and upholstered with fabric or synthetic leather and moulded polyurethane foam. The back shall be made up 1.2 \pm 0.1cm thick hot-pressed plywood upholstered with replaceable fabric or synthetic leather upholstery covers and moulded polyurethane foam. The moulded polyurethane foam shall be of density 45 \pm 2kg/m³, and hardness load 16 \pm 2kgf as per IS:7888 for 25% compression. The dimensions of seat shall be- 51.0cm(W) x 48.0cm(D) and of back shall be 48.0cm(W) x 64.5cm(H). The armrest top shall be made of moulded polyurethane and mounted on to a fixed type M.S tubular armrest support chrome plated. The Arm support has static vertical adjustment of \pm 1.5 \pm 0.05cm. The mechanism of the chair shall have following features: 360⁰ revolving type, Front pivot synchro mechanism, Tilt tension adjustment, Single point control, 4 position locking with anti-shock feature, Seat/Back tilting ratio of 1:2. The backrest shall consist of a fixed type mechanism i.e no back up/down adjustment. The chair shall be provided with pneumatic height adjustment which shall have stroke of 9.0 \pm 0.3 cm. The pedestal shall be fabricated from 0.2 \pm 0.02cm thick HR sheet, chrome plated and assembled with injection moulded black polypropylene hub cap. The size of the pedestal shall be 66.0 \pm 0.5 cm pitch-centre-dia (76.0 \pm 1.0 cm with castors). The twin wheel castors shall be made black nylon.

Overall dimensions of Chair shall be, Width of Chair - 76.0cm, Depth of Chair - 76.0cm as measured from pedestal below. Height from ground - min 91.0 to max 100.0cm. Seat height - min 46.0 to max 55.0cm. Dimensions tolerance / variations shall be within +/- 1 cm. „ **Chair as approved by engineer in-charge/employer.**

30. Warden visitor chair



Supply and installation of Chair as per technical specification. The seat shall be made up of 1.2+/-0.1cm thick hot-pressed plywood measured as per QA method described in OCP-QLTA-P14-18 and upholstered with fabric or synthetic leather and moulded polyurethane foam. The back shall be made up 1.2+/-0.1cm thick hot-pressed plywood upholstered with replaceable fabric or synthetic leather upholstery covers and moulded polyurethane foam. The moulded polyurethane foam shall be of density 45+/-2kg/m³, and hardness load 16+/-2kgf as per IS:7888 for 25% compression. The dimensions of seat shall be- 51.0cm(W) x 48.0cm(D) and of back shall be 48.0cm(W) x 64.5cm(H). The armrest top shall be made of moulded polyurethane and mounted on to a fixed type M.S tubular armrest support chrome plated. The Arm support has static vertical adjustment of +/-1.5+/-0.05cm. The backrest shall consist of a fixed type mechanism i.e no back up/down adjustment. The leg frame welded assembly shall be chrome plated, made from 3.5+/-0.03cm x 1.5+/-0.02cm x 0.16+/-0.0128cm thick round MSERW tube and provided with a base plate for seat fixing. Overall dimensions of Chair shall be, Width of Chair - 66.5cm, Depth of Chair - 58.0cm as measured from pedestal below. Height from ground - 88.5cm. Seat height - 45.0cm. Dimensions tolerance / variations shall be within +/- 1 cm. „ **Chair as approved by engineer in-charge/employer.**

31. 3-seater Sofa for Warden Room/Common/ Office Room



Supply and installation of sofa as per technical specification. 1) SEAT FOAM: The seat is made of PU foam with Density 28 ± 2 kg/cu. metre having an additional top layer of super soft PU foam in Density 32 ± 2 kg/cu. upholstered with fabric or leatherette. 2) BACK FOAM: The back is made of PU foam with Density 28 ± 2 kg/cu. mtr with two additional top layers of supersoft foam of density 32 ± 2 kg/cu. metre, upholstered with fabric or leatherette .3) UNDERSTRUCTRE: Under structure is made up of 1.2 ± 0.1 cm. thick hot-pressed plywood (moisture resistance & termite proof as per IS: 303) & pinewood of cross section devoid of major knots & surface defects 6 nos. per seat & 3.8 mm Dia zigzag spring assembly is mounted over under structure for cushioning purpose 6 nos. per seat & 3.8 mm Dia zigzag spring assembly is mounted over under structure for cushioning purpose. 4) LEG ASSEMBLY: It is a welded assembly made in Stainless steel (grade SS 202) tube & plate with plastic endcap. (W) 206.0* (D) 90.5(H) 85.5 cm seat (H) 45.0 cm, „ **Sofa as approved by engineer in-charge/employer.**

32. Single Bed with mattress for room (2060mmx1131mmWX945mmHeight)



Providing and placing of single wooden Bed size: 945mm Height, 1131mm width, 2060 mm length ($\pm 5\%$ Engineering Variation), Single Bed Support structure with leg made up of M.S. Pipe 75mmx35mmx2 mm thickness duly powder coated through seven tank process of Powder Coating with thickness of 50 microns. The single Bed box all four sides (Head board, Tail Board) and bottom panel is made of 18 mm thick ISI marked Commercial plywood (Moisture Resistant grade plywood) faced with 1.0 mm thick laminate on both sides of approved shade, Mattress panels of Bed are made of 18 mm thick ISI marked Commercial plywood (Moisture Resistant grade plywood) faced with 1.0 mm thick laminate on both sides of approved shade. The height of box shall be 380mm. Height of Head board: 945 mm, Width of Head board: 1131mm and Height of foot board: 450 mm and Width of Foot Board: 1131 mm, All Exposed edges of Ply board to be sealed with 2mm thick PVC edge band and 0.8mm thick PVC edge-banding tape to be applied on non-exposed edges pressed at 200o C with the help of hot-melt glue through fit edge-banding machines. The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing. All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel. All Wooden panel are stained to pass 4H test of scratch resistivity, Metal frame are powder coated in shade of Mat Black to the thickness of 50-60 microns ($\pm 5\%$). The bed has two boxes with side opening or as approved by client, All Hardware: The high-quality hardware used like Roller slides, Hinges, mini-fix, dowels, handle, screw etc is make of Hettich/Ebco or equivalent or as approved by engineer in-charge/employer, (Ply and Laminate Make: CENTURY/GREENPLY/Action Tesa or equivalent or as approved by engineer in-charge/employer) „ **The single bed with box should be complete as per sample approved & as per direction of Engineer-in-charge/employer.**



Supply and installation of Foam/Rubberised Coir mattress as per size of single bed, Thickness of Mattress is 125mm, Number of Layers : Two Layers, Thickness of Core Layer 1 (± 2 mm) :100 mm, Thickness of Top Layer (± 2 mm) 25 mm, Material of Core Layer 1 : PU Bonded Foam, Quilting: Both Side Quilting (Double Sided), Quilting Material: PU Foam, Density of Quilting Material (± 2 Kg/m³): 18 Kg/m³, Thickness of Quilting (± 2 mm): 14 mm, Core Layer 1 Density: 80 Kg/m³, Top Layer Density: 28 Kg/m³, Compression Set for PU Foam (non quilting) as per IS 7888 1976 (Max): 10 %, Resistance to Ageing for PU Foam : Shall meet the requirement of IS 7933 Latest, Resistance to Ageing for Rubberised Coir Foam: Shall meet the requirement of IS 8391 Latest, Durability Test for PU Foam as per: IS 7933 Latest, Resistance to Flexing for Rubberised Coir Foam: Shall meet the requirement of IS 8391 Latest, Durability Test for Complete Mattress: loss of height not more than 13 mm (as per ASTM 1566), Brand of **Mattress: sleep well/Kurlon** or equivalent or as approved by engineer in-charge/employer **or mattress as approved by engineer in-charge/employer.**

33. Study Table for Room



Supply and Installation of Study Table with size: 1050 mm(W)X600mm(D)X750mm(H). the table top & Gable End is made of 25 mm thick ISI marked Commercial plywood (Moisture Resistant grade plywood) faced with 1.0 mm thick laminate on both sides of

approved shade, Modesty panel, Vertical panel, Drawer and one no. of book shelf below table top shall be made of 18 mm thick ISI marked Commercial plywood (Moisture Resistant grade plywood) faced with 1.0 mm thick laminate on both sides of approved shade. All exposed edges sealed with 2mm thick PVC edge-band of REHAU make and 0.8mm thick PVC edge-banding tape to be applied on non-exposed edges pressed at 200o C with the help of hot-melt glue through fit edge-banding machines. The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing. All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel. All Wooden panel are stained to pass 4H test of scratch resistivity. Bottom Mounted slide used for Drawer. All Hardware: The high-quality hardware used like Roller slides, Hinges, mini-fix, dowels, handle, screw etc is make of Hettich/Ebco or equivalent or as approved by engineer in-charge/employer, (Ply and Laminate Make: CENTURY/GREENPLY/Action Tesa/or equivalent or as approved by engineer in-charge/employer) „ **Study table as approved by engineer in-charge/employer.**

34. 6-Seater Dining Table



Supply and installation of Dining Table as per technical specification. 6-Seater Dining table size shall be 1734 Width mm x 1175 Depth mm x 750 Height mm. Top shall be 25 mm thick base material shall be 25 mm MDF board. On top PU painting of minimum 2H hardness with 75% glass as per colour chart. Combination colour graphics on the centre. Brown Laminate on bottom specially profiled edges for comfort. The Under structure shall be having bend pipe structure of MS powder coated. Pipe dia 38 mm , 2 mm thick and it shall be fitted with top by SS machine screws . Legs shall be of MS powder coated and 38 mm dia. pipe legs are fixed with under structure and table top. Glide shall be of Plastic fixed at the under structure to prevent the damage of table top during stacking. All Hardware: The high-quality hardware used like Roller slides, Hinges, mini-fix, dowels, handle, screw etc is make of Hettich/Ebco or equivalent or as approved by engineer in-charge/employer, (MDF Board and Laminate Make: CENTURY/GREENPLY/Action Tesa or equivalent or as approved by engineer in-charge/employer) „ **Dining Table as approved by engineer in-charge/employer.**

35. Dining Chair



Providing and placing of dining Chair, the seat and back are made up injection molded high impact strength polypropylene polymer compound with indoor grade UV Resistance. The welded Leg and tubular frame is made from stainless Steel 202 grade tube. The tube are buff polished to give shiny finish. size of stainless Steel 202 grade tube: 2.52 ± 0.03 cm x 0.16 ± 0.0128 cm thickness and 3.5 ± 0.03 cm x 0.16 ± 0.0128 cm The Shoes are made of high impact strength polypropylene polymer compound with indoor grad UV Resistance and pressed fitted with tubular frame. SIZE: over all height of chair: 900 mm, seat height of chair: 450mm, Seat Size: 525mm(W)x532 mm(D), Back Size: 516 mm (W)x455mm (H).
„ Dining Chair as approved by engineer in-charge/employer.

36. 2-seater Sofa



Supplying and placing in place of 2-seater sofa. The overall dimensions of the sofa shall be 1460W x 905D x 855H. The seat should be made of PU foam with Density 28 ± 2 kg/cu. metre having an additional top layer of supersoft PU foam with Density 32 ± 2 kg/cu. Seat should be upholstered with fabric or leatherette. 2) BACK FOAM: The back should be made of PU foam with Density 28 ± 2 kg/cu. metre with two additional top layers of supersoft foam of density 32 ± 2 kg/cu. metre, upholstered with fabric or leatherette. Under structure should be made up of 1.2 ± 0.1 cm. thick hot-pressed plywood (which also shall be resistance and termite proof as per IS:303.) and pinewood of cross section devoid of major knots and surface defects 6 nos. per seat and 3.8mm dia. zigzag spring assembly is mounted over unrestructured for cushioning effect. It should be a welded assembly made in Stainless steel (grade SS 202) tube & plate with plastic endcap. „ **Sofa as approved by engineer in-charge/employer.**

Budgetary Quotation of furniture work for Hospital Block (A, B & C), Boys Hostel, Nurse Hostel and Girls Hostel at Pt. Jawahar Lal Nehru Govt. Medical college and Hospital, Chamba (HP).					
S. No.	Name of Items	Unit	Quantity	Rates per Unit including of all taxes with 5 years Warranty	Amount (In Rs.)
1	Office Table for Student Duty/ Nurse on duty/Resident Doctor	Each	98		
2	Mid Back Chair	Each	98		
3	Visitor Chair	Each	196		
4	Hospital Fowler Bed	Each	281		
5	Hospital Bed Section 4 section Mattress 100 MM thick	Each	281		
6	Bed side Locker with one drawer and cabinet	Each	257		
7	Over Bed Table with height adjustable on Gas Lift	Each	257		
8	Mid Back Chair-2	Each	356		
9	3-Seater Waiting Chair	Each	269		
10	Work Table for Demo room	Each	21		
11	Mid Back Chair for Demo room	Each	19		
12	Desklet Chair for Demo Room	Each	422		
13	3 seatre Tubular sofa	Each	58		
14	High end office table	Each	5		
15	High back chair-1	sqmt	5		

Budgetary Quotation of furniture work for Hospital Block (A, B & C), Boys Hostel, Nurse Hostel and Girls Hostel at Pt. Jawahar Lal Nehru Govt. Medical college and Hospital, Chamba (HP).					
S. No.	Name of Items	Unit	Quantity	Rates per Unit including of all taxes with 5 years Warranty	Amount (In Rs.)
16	Visitor Chair-2	Each	10		
17	2-Seater Sofa		10		
18	1-Seater Sofa	Each	6		
19	Centre Table	Each	10		
20	2- Seater Sofa for hospital staff	Each	4		
21	1- Seater sofa for hospital staff	Each	2		
22	Centre Table-2	Each	4		
23	Meeting Table	Each	1		
24	Chair for Board Room	Each	14		
25	SS Top Round stool with height adjustable	Each	9		
26	Examination couch	Each	3		
27	Revolving Stool with back and height adjustable	Each	6		
28	Warden office table	Each	2		
29	Warden office chair	Each	2		
30	Warden visitor chair	Each	4		

Budgetary Quotation of furniture work for Hospital Block (A, B & C), Boys Hostel, Nurse Hostel and Girls Hostel at Pt. Jawahar Lal Nehru Govt. Medical college and Hospital, Chamba (HP).					
S. No.	Name of Items	Unit	Quantity	Rates per Unit including of all taxes with 5 years Warranty	Amount (In Rs.)
31	3-seater Sofa for Warden Room/Common/ Office Room	Sqmt	16		
32	Single Bed with mattress for room	Sqmt	356		
33	Study Table for Room	Each	300		
34	6 -Seater Dining Table	Each	23		
35	Dining Chair	Each	138		
36	2-seater Sofa	Each	4		
	Total Amount in Rs.				