

## **Amendment-II**

Dated: 02/03/2026

**Subject:** Extension of Last Date for Submission of Budgetary Quotation – SITC of Office and Hospital Furniture Work for IPD Block Tower C, D & E at AIIMS, Rajkot, Gujarat.

This is with reference to the earlier Request for Budgetary Quotation issued vide reference no. HSCC/AIIMS Rajkot/IPD Block Tower C, D & E/Furniture/2026, dated 06.02.2026 for the above-mentioned work.

The last date for receipt of Budgetary Quotations was 20.02.2026. However, due to non-receipt of sufficient Budgetary Quotations from bidders, the last date for submission of Budgetary Quotations extended by 15 (fifteen) days, i.e., up to 17.03.2026.

All other terms and conditions of the original Request for Budgetary Quotation shall remain unchanged.

### **Amendment-01**

Dated: 06/02/2026

**Subject:** SITC of Office and Hospital Furniture Work for IPD Block Tower C, D & E at AIIMS, Rajkot, Gujarat

This is with reference to the earlier Request for Budgetary Quotation issued vide reference no. HSCC/AIIMS Rajkot/IPD Block Tower C, D & E/Furniture/2026 dated 27.01.2026.

In partial modification of the above, it is hereby informed that the following amendment(s) are issued for the information and compliance of all concerned:

**Amendment Details:**

- i. Revised Bill of Quantities (BoQ) has been issued.
- ii. The last date for receipt of Budgetary Quotation is hereby extended up to 20.02.2026.

All other terms and conditions of the original Request for Budgetary Quotation shall remain unchanged and shall continue to be applicable.

This amendment shall form an integral part of the Request for Budgetary Quotation.

Request For Budgetary Estimate of Office and Hospital Furniture Work for IPD Block Tower  
C, D & E at AIIMS, Rajkot, Gujarat

HSCC/AIIMS Rajkot/IPD Block Tower C, D & E/Furniture/2026

Date: 27/01/2026

HSCC (India) Ltd. intends to invite on-line budgetary estimate from eligible bidders for supply, Installation testing and commissioning of furniture for IPD Block Tower C, D & E/Furniture at AIIMS, Rajkot.

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. AIIMS, Rajkot, Gujarat.

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](mailto:ak_nema@hsccltd.co.in), [l\\_singh@hsccltd.co.in](mailto:l_singh@hsccltd.co.in)

Procurement Department,  
HSCC (India) Ltd.

Technical Specification of Office and Hospital Furniture Work for IPD Block Tower C, D & E at  
AIIMS, Rajkot, Gujarat  
(All images are indicative Only)

## 1. WORKSTATION



Providing, supplying, installing, testing and commissioning modular workstation system of size 1200 mm (W) × 600 mm (D) × 1200 mm (H) ( $\pm 5\%$  Engineering Variation) complete, in all respects, as per approved drawings, layouts and site requirements, including all modular partitions, worktops, legs, cable management systems, accessories, fittings, hardware, fasteners and finishes, and as directed by the Engineer-in-Charge.

### Panel Construction:

Each workstation panel shall be of 50–60 mm thickness and shall consist of two vertical and horizontal aluminium extrusions having a minimum average wall thickness of 1.2 mm, duly epoxy powder coated, provided at every tile/block division. The bottom frame of each panel shall be fabricated using 2 mm thick CRCA steel L-channels (IS: 513), 3 mm thick HR steel formed plates (IS: 2062) and ERW steel tube of size 35 × 15 × 1.6 mm, oval section (IS: 7138), welded together to form a rigid assembly. The complete bottom frame shall be epoxy powder coated to an average thickness of 50–60 microns and bolted to the upright verticals.

Each panel shall be supported on two MS legs of 120 mm height, fixed to the bottom frame. Legs shall be fabricated from CO<sub>2</sub> welded ERW MS tubes of size 38 × 25 mm, 16 BG (IS: 7138) with MS base plates of size 35 × 22 × 5 mm (IS: 2062, HR steel) and fitted with M8 levelling bolts, allowing height adjustment up to  $\pm 50$  mm. The legs shall be epoxy powder coated to a thickness of 45–50 microns. All partitions and side panels shall be provided with levelling screws to accommodate floor unevenness of  $\pm 40$  mm.

### Panel Infill & Tiles:

Each panel shall comprise two intermediate blocks made of 38 mm thick paper honeycomb core, sandwiched between 3 mm MDF boards on both sides, finished with 0.6 mm decorative laminate on both faces. MDF framing shall be provided on the outer boundary and at intermediate locations to form concealed conduits for cable routing.

Top tiles/split tiles shall be slid into the panel from the top prior to fixing the top horizontal extrusion and supported from both top and bottom using PP copolymer clips fitted within the horizontal extrusion. Split tiles shall be provided in fabric magnetic or whiteboard finishes as approved. Bottom tiles shall be press-fitted to the panel assembly using nylon-66 snap-on clips and polypropylene support clips.

#### Tile Finishes:

Fabric magnetic tiles shall be made of 0.6 mm thick GI Grade 'O' sheet (IS: 277) upholstered with approved fabric using adhesive. Fabric tack able tiles shall be similar GI tiles with polyurethane foam backing for tack-ability. Whiteboard tiles shall be made from 8 mm thick MDF (IS: 12823) laminated with 0.8 mm thick white glossy HPL on the outer face and 0.8 mm backing laminate on the inner face, with minimum 1 mm PVC edge banding on all edges.

Aluminium Trims: Top trims and end trims for 50–60 mm panels shall be made of aluminium extrusions with minimum 1.2 mm wall thickness, epoxy powder coated. Top trims shall be press-fitted onto the horizontal extrusion using PP copolymer 3530 grade connectors. End trims shall be slide-fitted using 2.0 mm thick MS CRCA Grade 'D' connectors (IS: 513).

Wire & Cable Management: Cabling shall be routed through junction boxes into the workstation system and carried through concealed conduits inside the panel blocks. Each panel shall be provided with two vertical cable ducts extending from bottom tile to top outlets. Cable ducts shall be made of 0.8 mm thick MS CRCA Grade 'D' (IS: 513-1994), consisting of body and cover, sized 150 mm (W) × 25 mm (D), ensuring neat and aesthetic cable concealment.

#### End/Separator Panels (25 mm):

Providing and fixing 25 mm thick end/intermediate separator panels supported on metal legs to enhance privacy, improve air circulation and facilitate floor cleaning. These panels shall be used only as separator/end panels and shall not include cable management. The 22.8 mm thick separator panels shall be constructed using horizontal and vertical aluminium extrusions of 1.2 mm wall thickness, epoxy polyester powder coated. Infill blocks shall be 16–18 mm thick in approved finishes. Top blocks may be in fabric, laminate, whiteboard, fabric metal, tack able or clear glass finishes; intermediate blocks shall be in fabric or laminate; and bottom blocks shall be in fabric, laminate or metal finish.

Laminate blocks shall be made of 18 mm MDF clad with 1 mm laminate. Fabric blocks shall be of 18 mm pre-laminated MDF upholstered with approved fabric. Whiteboard blocks shall be 16 mm MDF laminated with 0.6 mm white glossy HPL on both sides with minimum 0.5 mm PVC edging. Glass blocks shall be 5 mm thick toughened glass with diamond-polished edges. Metal finish blocks shall be made of 0.8 mm thick MS CRCA sheets (IS: 513) epoxy polyester powder coated.

#### Worktops:

Worktops shall be of approved shape and size, made from 25 mm thick pre-laminated MDF, with all exposed edges machine-pressed with 2 mm thick PVC lipping bonded using hot-melt EVA adhesive. Each worktop shall have 65 mm diameter circular cut-outs for cable passage, fitted with ABS grommet covers. Worktops shall be fixed to panels using 2.0 mm thick CRCA Grade 'D' steel brackets (IS: 513-2019) slide-fitted between end trims and vertical extrusions.

**Accessories:**

Keyboard tray of size 480 × 280 × 40 mm made from 0.9 mm thick CRCA steel, powder coated, mounted on sliding channels with mouse tray provision. CPU trolley of size 345 × 226 × 180 mm made from 1.0 mm thick CRCA sheet with 0.8 mm thick side supports, mounted on four non-lockable twin-wheel nylon castors.

**Mobile Pedestal:** Mobile pedestal with three drawers (two box and one file), overall size 450 mm (W) × 435 mm (D) × 646 mm (H), fabricated from 0.8 mm thick CRCA steel body and drawers with 1.2 mm thick CRCA stiffeners. Drawers shall be mounted on double-extension precision ball bearing slides and provided with 10-lever cam lock with central locking mechanism. Top shall be 0.8 mm thick metal, and pedestal shall be mounted on four swivelling non-lockable castors. Entire unit shall be epoxy polyester powder coated to an average thickness of 50 microns.

**Hardware & Boards:** All hardware such as slides, hinges, connectors, fasteners, handles and accessories shall be of reputed make such as Hettich, Ebco or equivalent, as approved by the Engineer-in-Charge. **MDF Board Make:** Century/Action Tesa/Green ply/ or equivalent or as approved by engineer in- charge/employer). The complete modular workstation system shall be finished, tested and commissioned to the satisfaction of the Engineer-in-Charge and shall be ready for use in all respect

**2. CABIN TABLE (HOD ROOM)**

Supplying and fixing high-end office table system comprising Main Table, Extended Return (Side Unit), Mobile Pedestal and Back Unit/File Cabinet, complete in all respects, as per approved drawings, specifications, finishes and directions of the Engineer-in-Charge.

The Main Table shall be of size 1800 mm (W) × 750 mm (D) × 750 mm (H) (± 5 % Engineering Variation) with table top made of 36 mm thick MDF board conforming to IS 12406, duly finished with veneer and final coating of PU polish having scratch resistance of 2H, finished in approved shade. The table shall be provided with aluminium anodized access flap for electrical/data provision and necessary keyboard provision. The gables and modesty panel shall be made of 25 mm thick MDF board as per IS 12406, veneer finished with PU coating (2H scratch resistance). All exposed edges of pre-laminated MDF boards shall be

sealed with 2 mm thick PVC edge banding tape, pressed at 200°C using hot-melt glue through automatic edge-banding machines. Edge banding shall be done such that no sharp edges or corners remain after processing, and all exposed edges shall have a buffing radius of 1.5 mm to 2 mm without affecting the aesthetic value of the panel. The top, sides and bottom panels shall be fixed using mini-fix, supporting brackets/corners and wooden dowels in a knock-down system for interconnection of MDF boards. The design and shape of the table shall be rectangular with tapered inside edges at both side ends.

The Extended Return Unit (Side Unit) shall be of size 1200 mm (L) × 480 mm (D) × 750 mm (H) (± 5 % Engineering Variation). The top and under-structure shall be made of 25 mm thick MDF board conforming to IS 12406, finished with veneer and PU coating having scratch resistance of 2H. All exposed edges shall be sealed with 2 mm thick PVC edge banding tape, applied at 200°C with hot-melt glue, with rounded buffed edges of 1.5–2 mm radius. The side unit shall comprise one openable shutter storage with proper locking arrangement, two open shelves and one CPU storage drawer/storage shutter with pull-up mechanism of groove type.

The Back Unit / File Cabinet shall be of size 1800 mm (L) × 480 mm (D) × 2050 mm (H) (± 5 % Engineering Variation). The top shall be made of 25 mm thick MDF board as per IS 12406, and the under-structure shall be made of 18 mm thick MDF board as per IS 12406, both finished with veneer and PU coating having scratch resistance of 2H. All exposed edges shall be sealed with 2 mm thick PVC edge banding tape, hot-melt applied and rounded with 1.5–2 mm buffing radius. Wooden openable shutter storage up to a height of 750 mm shall be provided in the lower portion of the file cabinet, and 8 mm thick glass openable shutters shall be provided in the upper portion. All shutters and drawers shall be provided with SS handles, locks and keys.

Each table shall be provided with a Mobile Pedestal Drawer Unit comprising three drawers, including two sliding drawers and one file box, mounted on four castors, out of which the front two castors shall be lockable. The mobile pedestal shall be of size 400 mm (W) × 550 mm (D) × 650 mm (H). (± 5 % Engineering Variation). The drawer top, side panels and drawer fascia shall be made of 18 mm thick pre-laminated MDF board conforming to IS 14587:1998, and the back panel shall be made of 9 mm thick pre-laminated MDF board conforming to IS 14587:1998. The unit shall be assembled using knock-down fittings such as mini-fix and dowels. Drawers shall be mounted on roller slides for smooth operation and shall be provided with a central locking mechanism. D/C type slim handles shall be provided for drawers and shutters. The lockable castors shall be of size 40 mm diameter and 55 mm height (±2 mm tolerance).

All hardware such as roller slides, hinges, mini-fix, dowels, handles, screws and locks shall be of Hettich / Ebco or equivalent, as approved by the Engineer-in-Charge. The MDF board and laminate shall be of Century/Action Tesa/Greenply or equivalent, as approved by the Engineer-in-Charge/Employer. The entire high-end office table system shall be complete in all respects and executed strictly as per specifications, approved drawings and directions of the Engineer-in-Charge / Employer.

### 3. CABIN TABLE-3 (ASSOCIATE PROFESSOR)



Providing, supplying and fixing office table system complete with Main Table, ERU (LHS), Back Unit and Mobile Pedestal, complete in all respects, as per approved drawings, technical specifications and directions of the Engineer-in-Charge.

The Main Table shall be of size 1800 mm (L) × 750 mm (W) × 750 mm (H) with ±5% engineering variation. The table top shall be made of 25 mm thick pre-laminated MDF board conforming to Grade SBG II of IS 12406:2003, laminated on both sides with 1 mm thick laminate, E-1 grade laminate with zero urea formaldehyde emissions ( $\leq 8$  mg/100 g, oven dry board – perforated method), complying with EN 120:1992, ensuring better indoor air quality. The modesty panel shall be made of 18 mm thick MDF board, laminated on both sides with 1 mm thick laminate. All exposed edges of pre-laminated MDF boards shall be sealed with 2 mm thick PVC edge banding, and non-exposed edges shall be sealed with 0.8 mm thick PVC edge banding tape, applied at 200°C using hot-melt glue through automatic edge-banding machines. Edge banding shall be carried out in such a manner that no sharp edges or corners remain after processing, and all exposed edges shall have a buffing radius of 1.5 mm to 2 mm without affecting the aesthetic value of the panel.

The ERU (LHS) shall be of size 1050 mm (W) × 450 mm (D) × 740 mm (H) with ±5% engineering variation. The top shall be made of 25 mm thick pre-laminated MDF board conforming to Grade SBG II of IS 12406:2003, laminated on both sides with 1 mm thick laminate. Flat edges shall be duly sealed with 2 mm thick PVC beading. The modesty panel shall be of 18 mm thick MDF board, laminated on both sides with 1 mm thick laminate, with edges sealed using 2 mm thick PVC banding.

The Back Unit shall be of size 1800 mm (W) × 450 mm (D) × 750 mm (H) with ±5% engineering variation. The top shall be made of 25 mm thick pre-laminated MDF board conforming to Grade SBG II of IS 12406:2003, laminated on both sides with 1 mm thick laminate, with flat edges sealed using 2 mm thick PVC banding. The modesty panel shall be made of 18 mm thick MDF board conforming to IS 14587:1998 (E-1 Grade), laminated on both sides with 1 mm thick laminate, and edges sealed with 2 mm thick PVC banding.

The Mobile Pedestal Unit shall be a 3-drawer metal mobile pedestal comprising two drawers and one filing cabinet, with internal and external overall dimensions in the range of 380–430 mm (W) × 430–480 mm (D) × 600–620 mm (H) with ±5% engineering variation. The pedestal body shall be made of 0.8 mm thick CRCA steel, duly powder coated with 70–80 microns thickness. Each pedestal shall be provided with a pencil tray drawer of size 120 mm (H) × 380

mm (W) and a filing cabinet drawer of size 350 mm (H) × 380 mm (W) with ±5% engineering variation. The pedestal shall be mounted on four (04) castors and all drawers shall be provided with a central locking system operated by a single key.

All hardware such as handles, drawer slides, hinges and drawer channels shall be of Hettich or equivalent, as approved by the Engineer-in-Charge. MDF boards and laminates shall be of Century/Action Tesa/Merino/Greenlam or equivalent, as approved by the Engineer-in-Charge /Employer. The entire table system shall be installed true to line and level, finished neatly, and shall be complete in all respects as per specifications and directions of the Engineer-in-Charge / Employer.

#### 4. CABIN TABLE-4



Providing, supplying and fixing office table system complete with Main Table, ERU (LHS) and Mobile Pedestal, complete in all respects, as per approved drawings, technical specifications and directions of the Engineer-in-Charge.

The Main Table shall be of size 1500 mm (L) × 750 mm (W) × 750 mm (H) with ±5% engineering variation. The table top shall be made of 25 mm thick pre-laminated MDF board conforming to Grade SBG II of IS 12406:2003, laminated on both sides with 1 mm thick laminate, E-1 grade laminate with zero urea formaldehyde emissions ( $\leq 8$  mg/100 g, oven dry board – perforated method), complying with EN 120:1992, ensuring better indoor air quality. The modesty panel shall be made of 18 mm thick MDF board, laminated on both sides with 1 mm thick laminate. All exposed edges of pre-laminated MDF boards shall be sealed with 2 mm thick PVC edge banding, and non-exposed edges shall be sealed with 0.8 mm thick PVC edge banding tape, applied at 200°C using hot-melt glue through automatic edge-banding machines. Edge banding shall be carried out in such a manner that no sharp edges or corners remain after processing, and all exposed edges shall have a buffing radius of 1.5 mm to 2 mm without affecting the aesthetic value of the panel.

The ERU (LHS) shall be of size 1050 mm (W) × 450 mm (D) × 750 mm (H) with ±5% engineering variation. The top shall be made of 25 mm thick pre-laminated MDF board conforming to Grade SBG II of IS 12406:2003, laminated on both sides with 1 mm thick laminate. Flat edges shall be duly sealed with 2 mm thick PVC beading. The modesty panel shall be of 18 mm thick MDF board, laminated on both sides with 1 mm thick laminate, with edges sealed using 2 mm thick PVC banding.

The Mobile Pedestal Unit shall be a 3-drawer metal mobile pedestal comprising two drawers and one filing cabinet, with internal and external overall dimensions in the range of 380–430 mm (W) × 430–480 mm (D) × 600–620 mm (H) with ±5% engineering variation. The pedestal body shall be made of 0.8 mm thick CRCA steel, duly powder coated with 70–80 microns thickness. Each pedestal shall be provided with a pencil tray drawer of size 120 mm (H) × 380 mm (W) and a filing cabinet drawer of size 350 mm (H) × 380 mm (W) with ±5% engineering variation. The pedestal shall be mounted on four (04) castors and all drawers shall be provided with a central locking system operated by a single key.

All hardware such as handles, drawer slides, hinges and drawer channels shall be of Hettich or equivalent, as approved by the Engineer-in-Charge. MDF boards and laminates shall be of Century/Action Tesa/Merino/Greenlam or equivalent, as approved by the Engineer-in-Charge/Employer. The entire table system shall be installed true to line and level, finished neatly, and shall be complete in all respects as per specifications and directions of the Engineer-in-Charge/Employer

#### 5. WORKTABLE-1 (DUTY ROOM/ DEMO ROOM/ COUNSELLING ROOM/ JR/SR)



Providing, supplying and installing Work Table with Free-Standing Mobile Pedestal Unit, complete in all respects, as per approved drawings, specifications and directions of the Engineer-in-Charge.

The Work Table shall be of size 1200 mm (W) × 600 mm (D) × 750 mm (H) (± 5 % Engineering Variation) The table top shall be made from 25 mm thick pre-laminated MDF board conforming to Grade SBG II of IS 12406:2003. The side panels shall also be made from 25 mm thick pre-laminated MDF board conforming to Grade SBG II of IS 12406:2003, and each side panel shall be provided with two (02) glide screws for levelling of the desk. The modesty panel shall be made from 18 mm thick pre-laminated MDF board conforming to Grade SBG II of IS 12406:2003. The laminate thickness shall be 1 mm, and the MDF board and laminate shall be of E-1 grade with zero urea formaldehyde emissions ( $\leq 8$  mg/100 g oven-dry board, perforated method) to ensure better indoor air quality, complying with EN 120:1992.

All exposed edges of the pre-laminated MDF boards shall be sealed with 2 mm thick PVC edge banding on the user side, and 0.8 mm thick PVC edge-banding tape on the top and bottom sides, applied at 200°C using hot-melt glue through automatic edge-banding machines. Edge banding shall be executed in such a manner that no sharp edges or corners remain after processing, and all exposed edges shall have a buffing radius of 1.5 mm to 2 mm

without affecting the aesthetic value of the panels.

The Free-Standing Mobile Pedestal Unit shall be a three-drawer pedestal comprising two drawers and one filing cabinet, with overall internal and external dimensions of 430 mm (W) × 480 mm (D) × 650 mm (H). The drawer size shall be 120 mm (H) × 430 mm (W), and the filing cabinet drawer size shall be 350 mm (H) × 430 mm (W) with ±5% engineering variation. The pedestal shall be made from 18 mm thick pre-laminated MDF board conforming to Grade SBG II of IS 12406:2003, finished with a combination of 2 mm and 0.8 mm PVC edge banding on all exposed surfaces as required. The drawers shall be provided with suitable drawer slides for smooth and noiseless operation and shall be fitted with a central locking system operated by a single key. The pedestal shall be mounted on castors of 50 mm diameter for easy mobility.

All hardware such as handles, drawer slides and hinges shall be of Hettich make. The pre-laminated MDF boards and laminates shall be of Century/Action Tesa/Merino/Greenlam or equivalent, as approved by the Engineer-in-Charge/Employer. The complete work table system shall be installed true to line and level, finished neatly, and shall be complete in all respects in accordance with the specifications and directions of the Engineer-in-Charge / Employer.

## 6. HIGH BACK CHAIR



Providing, supplying and installing Chair, complete in all respects, as per approved drawings, technical specifications and directions of the Engineer-in-Charge / Employer.

The seat shall be made of hot-pressed plywood of thickness  $1.2 \pm 0.1$  cm, upholstered with leather and moulded polyurethane foam. The backrest shall be ergonomically designed with contoured lumbar support for enhanced comfort. The size of the backrest shall be 53 cm (W) × 95.4 cm (H) and the seat size shall be 54.6 cm (W) × 49 cm (D). (± 5 % Engineering Variation) High Resilience (HR) foam shall be used for both seat and back, moulded with a

density of  $45 \pm 2 \text{ kg/m}^3$  and hardness load of  $16 \pm 2 \text{ kgf}$ , tested as per IS 7888 for 25% compression.

The seat and back shall be connected through a spine made of HR steel of thickness  $0.8 \pm 0.05 \text{ cm}$ , duly powder coated black with 50–60-micron dry film thickness (DFT). The armrest assembly shall comprise armrest tube assembly, PU armrest and armrest top. The armrest tube assembly shall be made from M.S. E.R.W. tubes of size  $2.54 \pm 0.03 \text{ cm} \times 0.16 \pm 0.0128 \text{ cm}$ , duly chrome plated. The PU armrest shall be made of black integral skin polyurethane with 50–70 Shore 'A' hardness, reinforced with MS insert. The armrest top shall be made of ABS, upholstered with foam and leather.

The chair shall be provided with a front-pivot synchro tilt mechanism having the following features: 360° revolving type, knee tilt system, seat and back tilting ratio of 1:1.5, front pivot tilt mechanism ensuring feet remain on the ground, tilt tension adjustment, five-position locking with anti-lock back mechanism to prevent sudden backward impact on release, and static seat depth adjustment of  $5.0 \pm 0.5 \text{ cm}$  with five-position locking.

The chair shall be fitted with a pneumatic height adjustment mechanism having a stroke of  $9.0 \pm 0.3 \text{ cm}$ . The bellow shall be a single-piece blow-moulded black polypropylene. The pedestal/base shall be made of die-cast aluminium with buffing finish and shall be fitted with five (05) twin-wheel castors. The pedestal size shall be  $67.0 \pm 0.5 \text{ cm}$  pitch-centre diameter and  $77.0 \pm 1.0 \text{ cm}$  including castors. The twin-wheel castors shall be made of nylon injection moulded in black colour.

The overall dimensions of the chair shall be: overall width 77 cm, overall depth 77 cm (measured from pedestal below), height of back from ground minimum 128.0 cm to maximum 137.0 cm, and seat height minimum 49.9 cm to maximum 58.9 cm. All dimensional tolerances and variations shall be within  $\pm 1 \text{ cm}$ . The chair shall be supplied and installed complete in all respects and shall be approved by the Engineer-in-Charge / Employer.

## Z. MID BACK CHAIR



Providing, supplying and installing Chair, complete in all respects, as per approved drawings, technical specifications and directions of the Engineer-in-Charge / Employer.

The seat shall be made of hot-pressed plywood of thickness  $1.2 \pm 0.1$  cm, upholstered with leather and moulded polyurethane foam. The backrest shall be ergonomically designed with contoured lumbar support for enhanced comfort. The size of the backrest shall be 53 cm (W)  $\times$  73 cm (H) and the seat size shall be 54.6 cm (W)  $\times$  49 cm (D) ( $\pm 5$  % Engineering Variation) High Resilience (HR) foam shall be used for both seat and back, moulded with a density of  $45 \pm 2$  kg/m<sup>3</sup> and hardness load of  $16 \pm 2$  kgf, tested as per IS 7888 for 25% compression.

The seat and back shall be connected through a spine made of HR steel of thickness  $0.8 \pm 0.05$  cm, duly powder coated in black with a dry film thickness (DFT) of 40–60 microns. The armrest assembly shall comprise an armrest tube assembly, PU armrest and armrest top. The armrest tube assembly shall be made of M.S. E.R.W. support tubes of size  $2.54 \pm 0.03$  cm  $\times$   $0.16 \pm 0.0128$  cm, duly chrome plated. The PU armrest shall be made of black integral skin polyurethane with 50–70 Shore 'A' hardness, reinforced with MS insert, and the armrest top shall be made of ABS, upholstered with foam and leather.

The chair shall be provided with a mechanism having 360° revolving movement without back tilt. It shall be fitted with a pneumatic height adjustment mechanism having a stroke of  $12.0 \pm 0.3$  cm. The bellow shall be of three-piece telescopic type, injection moulded in black polypropylene. The pedestal/base shall be made of die-cast aluminium with buffing finish and shall be fitted with five (05) twin-wheel castors. The pedestal size shall be  $67.0 \pm 0.5$  cm pitch-centre diameter and  $77.0 \pm 1.0$  cm including castors. The twin-wheel castors shall be made of nylon injection moulded in black colour.

The overall dimensions of the chair shall be: overall width 77 cm, overall depth 77 cm (measured from pedestal below), height of back from ground minimum 99.4 cm to maximum 111.4 cm, and seat height minimum 43.4 cm to maximum 55.4 cm. All dimensional tolerances and variations shall be within  $\pm 1$  cm. The chair shall be supplied and installed complete in all respects and shall be approved by the Engineer-in-Charge / Employer.

## 8. HIGH BACK CHAIR-2



Providing, supplying and placing High Back Chair, complete in all respects, as per

approved drawings, technical specifications and directions of the Engineer-in-Charge / Employer.

The High Back Chair shall have overall dimensions of 76.1 cm (W) × 76.1 cm (D) × 112.7–130.2 cm (H) ( $\pm 5\%$  Engineering Variation) with seat height ranging from 43.1 cm to 53.1 cm. The seat shall be a cushioned type made of injection-moulded plastic outer and inner or hot-pressed plywood of thickness  $1.2 \pm 0.1$  cm, wherein the plastic inner/hot-pressed plywood of thickness  $1.2 \pm 0.1$  cm shall be upholstered with leatherette and moulded high resilience polyurethane foam of density  $45 \pm 2$  kg/m<sup>3</sup> and hardness load  $16 \pm 2$  kgf, tested as per IS: 7888 for 25% compression. The seat size shall be 47.0 cm (W) × 48.0 cm (D). The backrest shall be cushioned and made of PU foam with in-situ moulded M.S. ERW round tube of size  $1.9 \pm 0.03$  cm ×  $0.16 \pm 0.0128$  cm, upholstered with leatherette. The back size shall be 47.7 cm (W) × 76.4 cm (H).

The armrest top shall be moulded from polyurethane and mounted on drop-lift adjustable tubular armrest supports made of  $\varnothing 3.81 \pm 0.03$  cm ×  $0.2 \pm 0.01$  cm thick M.S. ERW tube, with chrome-plated finish. The armrests shall be height adjustable up to  $6.5 \pm 0.5$  cm in five (05) steps. The chair shall be provided with an adjustable tilting mechanism incorporating 360° revolving movement, front-pivot tilt ensuring feet remain on the ground, and continuous lumbar support for enhanced comfort. The tilt tension adjustment shall be operable in the seated position, and the mechanism shall have a five-position tilt limiter providing variable tilt angles. The seat-to-back tilt ratio shall be 1:2. The mechanism housing shall be made of HPDC aluminium, duly black powder coated.

The seat depth adjustment shall be integrated into the seat through a sliding mechanism, having an adjustment range of  $6.0 \pm 0.5$  cm. The back frame shall be connected to the up/down mechanism through a plastic T-spine, allowing vertical adjustment in the range of  $7.42 \pm 0.5$  cm to provide comfortable back support suited to individual requirements. The chair shall be provided with a pneumatic height adjustment mechanism having a stroke of  $10.0 \pm 0.3$  cm.

The pedestal/base shall be made of high-pressure die-cast polished aluminium and fitted with five (05) twin-wheel castors. The pedestal size shall be  $65.0 \pm 0.5$  cm pitch-centre diameter and  $75.0 \pm 1.0$  cm including castors. The twin-wheel castors shall be injection-moulded plastic, each having a wheel diameter of  $6.0 \pm 0.1$  cm, and shall be securely assembled to the pedestal. The complete high back chair shall be supplied and installed true to line and level, finished neatly, and shall be approved by the Engineer-in-Charge / Employer, complete in all respects.

## 2. Visitor CHAIR-



Providing, supplying and placing Visitors Chair, complete in all respects, as per approved drawings, technical specifications and directions of the Engineer-in-Charge / Employer.

The Visitors Chair shall have overall dimensions of 60.9 cm (W) × 64.2 cm (D) × 98.2 cm (H) with a seat height of 44.8 cm. ( $\pm 5\%$  Engineering Variation) The seat shall be a cushioned type made of injection-moulded plastic outer and inner/ hot-pressed plywood of thickness  $1.2 \pm 0.1$  cm, wherein the plastic inner/ hot-pressed plywood of thickness  $1.2 \pm 0.1$  cm shall be upholstered with leatherette and moulded high resilience polyurethane foam of density  $45 \pm 2$  kg/m<sup>3</sup> and hardness load  $16 \pm 2$  kgf, tested as per IS: 7888 for 25% compression. The seat size shall be 47.0 cm (W) × 48.0 cm (D).

The backrest shall be cushioned and made of PU foam with in-situ moulded M.S. ERW round tube of size  $1.9 \pm 0.03$  cm ×  $0.16 \pm 0.0128$  cm, upholstered with leatherette. The back size shall be 47.7 cm (W) × 76.4 cm (H). The tubular frame shall be of cantilever type, made from stainless steel tube of grade SS 202, having a size of  $\varnothing 2.54 \pm 0.03$  cm ×  $0.2 \pm 0.016$  cm thickness, ensuring adequate strength and stability. The backrest shall be connected to the frame through a chrome-plated high-pressure die-cast connector pipe.

The complete Visitors Chair shall be robust in construction, ergonomically designed for comfort, neatly finished, and installed complete in all respects. The chair shall be approved by the Engineer-in-Charge / Employer and shall conform strictly to the specifications described above.

## 10. Demonstration Chair with Tablet (DEMO ROOM)



Providing, supplying and installing Desk-let Chair, complete in all respects, as per approved drawings, specifications and directions of the Engineer-in-Charge / Employer.

The seat sub-assembly shall be made of  $1.2 \pm 0.1$  cm thick plywood, upholstered with moulded polyurethane foam and polyester fabric, and covered with an injection-moulded polypropylene outer cover. The seat shall be of tip-up type, enabling automatic upward movement when not in use, and this feature shall facilitate horizontal stacking of chairs. The back sub-assembly shall be made of injection-moulded polypropylene inner, upholstered with moulded foam and polyester fabric, and covered with an injection-moulded polypropylene outer cover. The contoured backrest, with width extension at the lower portion, shall be ergonomically designed to provide proper lumbar support. The back flexing mechanism shall allow the back to tilt by  $9 \pm 2$  degrees, enabling the user to adopt a comfortable reclining posture. The back dimensions shall be 45.2 cm (W)  $\times$  44.6 cm (H), and the seat dimensions shall be 47.0 cm (W)  $\times$  50.0 cm (D). ( $\pm 5$  % Engineering Variation)

The four-leg powder-coated tubular structure shall be fabricated from  $2.2 \pm 0.03$  cm diameter  $\times$   $0.25 \pm 0.02$  cm thick M.S. ERW tubes, with front and rear legs welded together along with a connecting tube made of  $1.9 \pm 0.02$  cm diameter  $\times$   $0.2 \pm 0.016$  cm thick M.S. ERW tube, forming a rigid tubular frame assembly. The armrest structure shall also be made of  $2.2 \pm 0.03$  cm diameter  $\times$   $0.25 \pm 0.02$  cm thick M.S. ERW tube, welded to the main frame, and provided with scratch-resistant ABS arm tops.

The desk-let assembly shall be of flip-up type, mounted on the left-hand side, and fabricated using an extension tube of  $1.9 \pm 0.02$  cm diameter  $\times$   $0.2 \pm 0.016$  cm thick M.S. ERW tube and a support tube of  $1.6 \pm 0.02$  cm diameter  $\times$   $0.2 \pm 0.016$  cm thick M.S. ERW tube. A scratch-resistant ABS desk-let top shall be fixed over the support and provided with a bottom cover on the underside for neat finish and durability.

The polyurethane foam used shall be moulded with a density of  $70.0 \pm 8.0$  kg/m<sup>3</sup> and hardness of  $20 \pm 2$  for the seat and  $16 \pm 2$  for the back, tested at 25% compression. The overall dimensions of the chair shall be seat height 47.5 cm, overall height 89.0 cm, and

width and depth measured from the base shall be 71.0 cm and 82.0 cm respectively.

The complete Desk-let Chair shall be robust, durable, ergonomically designed, neatly finished, suitable for institutional use, stackable horizontally when not in use, and shall be approved by the Engineer-in-Charge / Employer before acceptance.

#### 11. 3-SEATER WAITING CHAIR



Providing, supplying and installing 3-Seater Waiting Chair, complete in all respects, as per approved design, specifications and directions of the Engineer-in-Charge / Employer.

The seat and backrest shall be made of high-density self-skin polyurethane (PU) foam, having a thickness of 25–30 mm, reinforced with a 3 mm thick M.S. perforated sheet insert for added strength and durability. The PU foam shall have a density of  $680 \pm 10 \text{ kg/m}^3$  with a hardness of  $55 \pm 5$ , ensuring long-term resilience and seating comfort. The single seat size shall be 52.0 cm (W)  $\times$  46.5 cm (D), while the back size shall be 52.0 cm (W)  $\times$  51.5 cm (H). ( $\pm 5\%$  Engineering Variation) The floor-to-seat height (front) shall be a minimum of 410 mm, and the overall length of the chair assembly shall be not less than 1680 mm.

The cross beam shall be fabricated from black powder-coated M.S. ERW square tube of size  $6.0 \pm 0.05 \text{ cm} \times 6.0 \pm 0.05 \text{ cm} \times 0.4 \pm 0.016 \text{ cm}$  thick, and shall be fitted with polypropylene end caps for safety and aesthetic finish. The minimum thickness of the seat support and lumbar support shall be 23 mm.

The legs and armrests shall be made of high-pressure die-cast aluminium, finished with powder coating of minimum 70 microns thickness to ensure corrosion resistance and durability. The chair shall be provided with 04 numbers of armrests. The minimum thickness of material for armrests shall be 1.8 mm, and for legs shall be 2.0 mm. The legs shall be fitted with soft-grip PVC level-adjusting shoes to provide stability and prevent damage to flooring.

The main frame shall have a uniform powder-coated finish of minimum 70 microns thickness, ensuring a robust, long-lasting, and aesthetically pleasing surface. The complete 3-seater waiting chair shall be strong, ergonomically designed, suitable for heavy-duty public use, and shall be approved by the Engineer-in-Charge / Employer before acceptance.

## 12. Meeting Table 16-Seater



Providing, supplying and installation of 16-Seater Modular Meeting / Conference Table, complete in all respects, or as per the actual size and layout of the seminar room, as approved by the Engineer-in-Charge / Employer.

The modular table configuration shall consist of Modular 2-Seater Main Tables (1350 × 600 × 730 mm), Modular 2-Seater Shared Tables (1350 × 600 × 730 mm), Modular 2-Seater End Left-Hand and End Right-Hand Tables (each 1350 × 600 × 730 mm), along with a central modular table of size 2350 mm (W) × 850 mm (D) × 730 mm (H), (± 5 % Engineering Variation) complete with 2-way desk name plates, desk-mounted document shelf, HDMI wire manager and necessary accessories, forming a complete 16-seater arrangement.

The work surface shall be made of 36 mm thick pre-laminated MDF board conforming to IS 14587:1998, Grade II corresponding to IS 12406:2003. The laminate shall be 1.0 mm thick, E1 grade, with zero urea formaldehyde emissions ( $\leq 8$  mg/100 g oven-dry board, perforated method), complying with EN 120-1992, ensuring better indoor air quality. All exposed edges of MDF shall be sealed with 2 mm thick PVC edge banding, while 0.8 mm thick PVC edge banding shall be applied on non-exposed edges using hot-melt glue through automatic edge-banding machines. Edge finishing shall be carried out in such a manner that no sharp corners remain, and all exposed edges shall have a buffing radius of 1.5 to 2.0 mm without affecting the aesthetic appearance.

The under-structure shall be made of 25 mm thick pre-laminated MDF board, conforming to IS 14587:1998, Grade II corresponding to IS 12406:2003, with similar edge-banding treatment as specified above. Aluminium alloy 63400-WP profile shall be used for connecting panels, enabling a knock-down construction for ease of transportation and installation. ABS plastic access flaps shall be provided for convenient access to electrical and data cables. The worktop shall be available in required modular shapes to suit the approved layout.

The modesty panel shall be fabricated from 25 mm thick pre-laminated MDF board,

conforming to the same IS specifications, with exposed and non-exposed edges treated with 2 mm and 0.8 mm PVC edge banding respectively. A powder-coated accent metal strip shall be provided below the work surface to enhance aesthetics. The accent strip shall be made from 0.8 mm thick CRCA steel sheet conforming to IS 513, epoxy polyester powder coated with a dry film thickness (DFT) of 40–60 microns.

The wire-management system shall comprise an array of panels made from 0.8 mm thick CRCA mild steel sheet conforming to IS 513, epoxy polyester powder coated with DFT 40–60 microns, ensuring organized routing of power, data and audiovisual cables. Provision shall be made for mounting Anchor Roma 6-module plates below the worktop. Cut-outs shall be provided on the tabletop, fitted with two-piece injection-moulded polymer components, enabling easy pull-out of audio and video cables and connection of chargers to power sockets located below the worktop.

All hardware fittings such as handles, hinges, locks, slides and sliding channels shall be of Hettich or Ebco make. The pre-laminated MDF board and laminate shall be of approved makes such as Century/ Action Tesa/Merino/Greenlam.

The complete 16-Seater Modular Meeting / Conference Table, including accessories and conference table stools (where applicable), shall be sturdy, aesthetically finished, ergonomically suitable for conference use, and shall be approved by the Engineer-in-Charge / Employer prior to acceptance

### 13. Meeting Room Chair



Providing and placing a High Back Chair with an overall size of 76.1 cm (W) × 76.1 cm (D) × 96.5–114.0 cm (H) ( $\pm 5\%$  Engineering Variation) and seat height adjustable from 43.1 cm to 53.1 cm. The seat shall be a cushioned type, comprising injection-moulded plastic outer and inner shells/hot-pressed plywood of thickness  $1.2 \pm 0.1$  cm. The inner plastic shell/hot-pressed plywood of thickness  $1.2 \pm 0.1$  cm shall be upholstered with leatherette and cushioned with moulded high-resilience polyurethane foam of density  $45 \pm 2$  kg/m<sup>3</sup> and hardness load of  $16 \pm 2$  kgf at 25% compression, conforming to IS:7888. The seat size shall be 47.0 cm (W) × 48.0 cm (D), ensuring adequate comfort and ergonomic support.

The backrest shall be cushioned with PU foam and reinforced with an in-situ moulded MS ERW round tube of size  $1.9 \pm 0.03$  cm diameter and  $0.16 \pm 0.0128$  cm thickness, upholstered with leatherette. The back size shall be 47.7 cm (W)  $\times$  76.4 cm (H), providing full high-back support. The back frame shall be connected to the up/down mechanism through a plastic T-spine, allowing vertical back adjustment in the range of  $7.42 \pm 0.5$  cm to suit individual comfort requirements.

The armrests shall have polyurethane moulded tops mounted on drop-lift adjustable tubular armrest supports made of MS ERW tubes of size  $\varnothing 3.81 \pm 0.03$  cm  $\times$   $0.2 \pm 0.01$  cm thickness, finished with chrome plating. The armrests shall be height adjustable up to  $6.5 \pm 0.5$  cm in five distinct steps, enabling customized arm support.

The chair shall be fitted with an advanced adjustable tilting mechanism featuring 360-degree revolving action, front-pivot tilt ensuring feet remain resting on the ground, and continuous lumbar support for enhanced comfort. The tilt tension adjustment shall be operable in the seated position. A five-position tilt limiter shall be provided, allowing selection of variable tilt angles, with a seat-to-back tilt ratio of 1:2. The mechanism housing shall be made of high-pressure die-cast (HPDC) aluminium, finished in black powder coating for durability and aesthetic appeal.

Seat depth adjustment shall be integrated within the seat through a sliding mechanism, offering an adjustment range of  $6.0 \pm 0.5$  cm. Pneumatic height adjustment shall be provided with a smooth adjustment stroke of  $10.0 \pm 0.3$  cm for ease of operation.

The pedestal shall be made of high-pressure die-cast polished aluminium and fitted with five numbers of twin-wheel castors. The pedestal pitch-centre diameter shall be  $65.0 \pm 0.5$  cm ( $75.0 \pm 1.0$  cm including castors). The twin-wheel castors shall be injection-moulded in plastic, each having a wheel diameter of  $6.0 \pm 0.1$  cm, securely assembled to the pedestal to ensure smooth mobility and stability.

The complete high back chair shall be structurally sound, ergonomically designed, aesthetically finished and fully functional, suitable for prolonged office or conference use, and shall be placed and adjusted as directed by the Engineer-in-Charge / Employer

#### 14. SINGLE BED (Duty Room)



Providing and placing of a single wooden bed with overall dimensions of approximately 900 mm height, 933 mm width and 2060 mm length, with permissible engineering variation of  $\pm 5\%$ , complete in all respects and as approved by the Engineer-in-Charge / Employer. The

bed shall be designed for durability, stability and long-term residential or institutional use, with a knock-down construction suitable for ease of transportation, handling and installation.

The bed support structure shall be fabricated from mild steel pipes of size 75 mm × 25 mm × 1.6 mm thickness and 25 mm × 25 mm × 1.6 mm thickness. All steel members shall be duly powder coated through a seven-tank pretreatment process, followed by powder coating of minimum 50 microns thickness with a tolerance of ±10 microns, ensuring corrosion resistance and long service life.

The horizontal plinths and bottom plinth shall be made of 25 mm thick ISI-marked commercial plywood of moisture-resistant (MR) grade, faced with 1.0 mm thick decorative laminate on both sides. The headboard shall be made of 18 mm thick ISI-marked commercial plywood (MR grade) faced with 1.0 mm thick laminate on both sides, with overall size of approximately 933 mm × 900 mm (±5% engineering variation). The tail board shall also be made of 18 mm thick ISI-marked commercial plywood (MR grade) faced with 1.0 mm thick laminate on both sides, with approximate size of 933 mm × 450 mm (±10% engineering variation). The side rails shall be constructed from 18 mm thick ISI-marked commercial plywood (MR grade), faced with 1.0 mm thick laminate on both sides, ensuring adequate strength and rigidity.

The mattress support panels and box bottom panel of the bed shall be made of 25 mm thick ISI-marked commercial plywood of moisture-resistant grade, faced with 1.0 mm thick laminate on both sides. All exposed edges of the boards shall be sealed with 2 mm thick PVC edge banding, while non-exposed edges shall be sealed with 0.8 mm thick PVC edge-banding tape, applied using hot-melt glue through automatic edge-banding machines at approximately 200°C. Edge banding shall be finished in such a manner that no sharp edges or corners remain after processing, and all exposed edges shall have a uniform buffing radius of 1.5 to 2.0 mm without affecting the aesthetic value of the panels. Commercial plywood and Laminate Make: Centuryply/Greenply/Kitply/Merino/Greenlam or equivalent/or as approved by engineer in-charge/employer).

The complete bed shall be of knock-down construction with all necessary hardware and fittings to ensure rigidity and ease of assembly and dismantling. The finish shall be in walnut shade or any other approved shade, as approved by the Engineer-in-Charge/Employer. The bed shall be structurally sound, neatly finished, aesthetically pleasing and suitable for institutional or residential use, and shall be installed, aligned and approved by the Engineer-in-Charge/Employer before final acceptance

#### 15. Single Bed Mattress



Providing and placing of a single bed mattress of size 78 inches × 36 inches ( $\pm 5\%$  Engineering Variation) or as per the size of the single bed provided, complete in all respects and as approved by the Engineer-in-Charge / Employer. The mattress shall be a quilted type with an overall thickness of 6 inches (approximately 150 mm), designed to provide adequate comfort, durability and support for residential or institutional use.

The mattress core shall be made of high-quality coir with a density of approximately 80 g/dm<sup>3</sup>, ensuring firmness and proper load distribution. One side of the mattress shall be provided with quilted padding comprising pilled foam of 14 mm thickness with a density of 18 g/dm<sup>3</sup>, along with an additional PU foam layer of 5 mm thickness to enhance surface comfort. The quilting shall be uniform and neatly finished to ensure long-lasting resilience and comfort.

The outer cover fabric shall be made of 85 GSM poly-cotton material, providing breathability, durability and ease of maintenance. The mattress shall be hygienic, well-stitched and free from manufacturing defects, suitable for prolonged regular use.

The mattress shall be of approved make such as Sleepwell or Kurlon, or any other equivalent brand approved by the Engineer-in-Charge / Employer. The complete mattress shall be placed properly on the bed, aligned correctly, and accepted only after inspection and approval by the Engineer-in-Charge / Employer.

#### 16. Three-Seater Sofa.



Supply and installation of a Three-Seater Sofa, complete in all respects, of approved design, make and finish, as approved by the Engineer-in-Charge / Employer. The overall dimensions of the sofa shall be approximately 2060 mm (W) × 905 mm (D) × 855 mm (H) ( $\pm 5\%$  Engineering Variation), with seat height of about 450 mm. The sofa shall be ergonomically designed to provide comfort, durability and aesthetic appeal for institutional, residential or office lounge use.

The seat cushioning shall be made of high-quality polyurethane (PU) foam of density  $28 \pm 2$  kg/m<sup>3</sup>, provided with an additional top layer of super-soft PU foam of density  $32 \pm 2$  kg/m<sup>3</sup>, and upholstered with approved fabric or leatherette. The finished seat cushion thickness shall be approximately 150 mm ( $\pm 3$  mm), ensuring adequate comfort and resilience for prolonged seating.

The backrest cushioning shall be made of PU foam of density  $28 \pm 2$  kg/m<sup>3</sup>, with two additional top layers of super-soft PU foam of density  $32 \pm 2$  kg/m<sup>3</sup>, upholstered with

approved fabric or leatherette. The backrest cushion thickness shall be approximately 175 mm ( $\pm 3$  mm), providing proper lumbar and back support.

The under-structure shall be fabricated from hot-pressed plywood of thickness  $1.2 \pm 0.1$  cm, conforming to IS:303 for moisture resistance and termite proofing, combined with pinewood members of sound cross-section, free from major knots and surface defects. For enhanced seating comfort and durability, zigzag spring assemblies of 3.8 mm diameter shall be mounted over the under-structure, provided at six numbers per seat.

The leg assembly shall be a rigid welded construction made from stainless steel tubes and plates of grade SS 202, finished neatly and fitted with plastic end caps. The sofa leg height shall be approximately 150 mm ( $\pm 2$  mm) and the leg width/diameter shall be about 40 mm ( $\pm 2$  mm). The arm height shall be approximately 710 mm ( $\pm 5$  mm) and arm width about 120 mm ( $\pm 5$  mm), ensuring comfortable arm support and balanced proportions.

The complete three-seater sofa shall be structurally sound, stable, well-upholstered and neatly finished, suitable for regular use, and shall be installed at the designated location, aligned properly and approved by the Engineer-in-Charge / Employer before final acceptance.

### 17. Two-Seater Sofa



Supply and installation of a Two-Seater Sofa, complete in all respects, of approved design, make and finish, as approved by the Engineer-in-Charge / Employer. The overall dimensions of the sofa shall be approximately 1460 mm (W)  $\times$  905 mm (D)  $\times$  855 mm (H), ( $\pm 5$  % Engineering Variation) with a seat height of about 450 mm. The sofa shall be ergonomically designed to provide comfort, durability and aesthetic appeal for office, institutional or residential lounge areas.

The seat cushioning shall be made of high-quality polyurethane (PU) foam of density  $28 \pm 2$  kg/m<sup>3</sup>, provided with an additional top layer of super-soft PU foam of density  $32 \pm 2$  kg/m<sup>3</sup>, and upholstered with approved fabric or leatherette. The finished seat cushion thickness shall be approximately 150 mm ( $\pm 3$  mm), ensuring adequate comfort and long-term resilience.

The backrest cushioning shall be made of PU foam of density  $28 \pm 2$  kg/m<sup>3</sup>, with two additional top layers of super-soft PU foam of density  $32 \pm 2$  kg/m<sup>3</sup>, upholstered with approved fabric or leatherette. The backrest cushion thickness shall be approximately 175 mm ( $\pm 3$  mm), providing proper lumbar and back support for prolonged seating.

The under-structure shall be constructed from hot-pressed plywood of thickness  $1.2 \pm 0.1$  cm, conforming to IS:303 for moisture resistance and termite-proof properties, combined with pinewood members of sound cross-section, free from major knots and surface defects. For enhanced seating comfort and durability, 3.8 mm diameter zigzag spring assemblies shall be mounted over the under-structure, provided at six numbers per seat.

The leg assembly shall be a rigid welded construction made from stainless steel tubes and plates of grade SS 202, neatly finished and fitted with plastic end caps. The sofa leg height shall be approximately 150 mm ( $\pm 2$  mm), and the leg width/diameter shall be about 40 mm ( $\pm 2$  mm). The arm height shall be approximately 710 mm ( $\pm 5$  mm), with an arm width of about 120 mm ( $\pm 5$  mm), ensuring comfortable arm support and balanced proportions.

The complete two-seater sofa shall be structurally sound, stable, well-upholstered and aesthetically finished, suitable for regular use, and shall be installed at the designated location, aligned properly and approved by the Engineer-in-Charge / Employer before final acceptance.

### 18. Centre Table



Providing and supplying of a centre table of approximate size 1200 mm (W)  $\times$  600 mm (D)  $\times$  400 mm (H), ( $\pm 5$  % Engineering Variation) complete in all respects and as approved by the Engineer-in-Charge / Employer. The table top shall be made of 25 mm thick ISI-marked commercial plywood of moisture-resistant (MR) grade, faced with 1.0 mm thick decorative laminate on both sides in an approved shade. An under-storage shelf shall be provided and shall be made of 18 mm thick ISI-marked commercial plywood (MR grade), faced with 1.0 mm thick laminate on both sides in an approved shade, ensuring durability and functional utility.

All exposed edges of the plywood panels shall be sealed with 2 mm thick PVC edge banding, while non-exposed edges shall be finished with 0.8 mm thick PVC edge-banding tape, applied using hot-melt glue through automatic edge-banding machines. Edge banding shall be executed in such a manner that no sharp edges or corners remain after processing. All exposed edges shall have a uniform buffing radius of 1.5 to 2.0 mm without affecting the aesthetic value of the panels. All wooden panels shall be suitably finished and stained to meet a minimum 4H scratch resistance test requirement.

The under-structure frame and legs shall be made of stainless steel of SS 304 grade, fabricated from sections of size 45 mm  $\times$  45 mm with a thickness of 1.6 mm, providing adequate strength, stability and corrosion resistance. The stainless-steel members shall be neatly finished and securely fixed to ensure rigidity and long service life.

Commercial plywood and Laminate Make: Centuryply/Greenply/Kitply/Merino/Greenlam or equivalent/or as approved by engineer in-charge/employer). The complete centre table shall be structurally sound, aesthetically finished and ready for use, and shall be accepted only after inspection and approval by the Engineer-in-Charge / Employer.

#### 19. Corner Table



Providing and supplying of a centre table of approximate size 500 mm (W) × 500 mm (D) × 400 mm (H) (± 5 % Engineering Variation), complete in all respects and as approved by the Engineer-in-Charge / Employer. The table top shall be made of 25 mm thick ISI-marked commercial plywood of moisture-resistant (MR) grade, faced with 1.0 mm thick decorative laminate on both sides in an approved shade. An under-storage shelf shall be provided and shall be made of 18 mm thick ISI-marked commercial plywood (MR grade), faced with 1.0 mm thick laminate on both sides in an approved shade, ensuring durability and functional utility.

All exposed edges of the plywood panels shall be sealed with 2 mm thick PVC edge banding, while non-exposed edges shall be finished with 0.8 mm thick PVC edge-banding tape, applied using hot-melt glue through automatic edge-banding machines. Edge banding shall be executed in such a manner that no sharp edges or corners remain after processing. All exposed edges shall have a uniform buffing radius of 1.5 to 2.0 mm without affecting the aesthetic value of the panels. All wooden panels shall be suitably finished and stained to meet a minimum 4H scratch resistance test requirement.

The under-structure frame and legs shall be made of stainless steel of SS 304 grade, fabricated from sections of size 45 mm × 45 mm with a thickness of 1.6 mm, providing adequate strength, stability and corrosion resistance. The stainless-steel members shall be neatly finished and securely fixed to ensure rigidity and long service life. Commercial plywood and Laminate Make: Century ply/Green ply/Kit ply/Merino/Greenlam or equivalent/or as approved by engineer in-charge/employer). The complete corner table shall be structurally sound, aesthetically finished and ready for use, and shall be accepted only after inspection and approval by the Engineer-in-Charge / Employer

## 20. 4-Seater Dining Table



Supply and installation of 6-Seater Dining Table. The dining table shall have overall dimensions of 1734 mm (W) × 1175 mm (D) × 750 mm (H) ( $\pm 5\%$  Engineering Variation). The table top shall be 25 mm thick, with the base material made from 25 mm thick MDF board of approved make. The top surface shall be finished with PU painting of minimum 2H hardness, incorporating 75% gloss finish, in approved colours as per the colour chart. The bottom surface of the table top shall be finished with brown laminate, and all exposed edges shall be specially profiled for user comfort.

The under structure shall consist of a bent MS pipe structure, finished with powder coating for durability and corrosion resistance. The MS pipes used for the under structure shall be of 38 mm diameter and 2.0 mm thickness, and the table top shall be securely fixed to the under structure using stainless steel machine screws. The legs shall also be made of powder-coated MS pipes of 38 mm diameter, rigidly fixed to both the under structure and the table top to ensure stability. Plastic glides shall be provided and fixed to the under structure to prevent damage to the table top and floor during stacking and movement.

All hardware used, including roller slides, hinges, mini-fix fittings, dowels, handles, screws, and other accessories, shall be of high quality and shall be of make Hettich / Ebco or equivalent, as approved by the Engineer-in-Charge / Employer. The MDF board and laminate used shall be of approved make such as Century / Greenply / Action Tesa or equivalent, as approved by the Engineer-in-Charge / Employer.

The dining table shall be supplied and installed complete in all respects, strictly in accordance with this specification and as approved by the Engineer-in-Charge/ Employer.

## 21. Dining Chair



Providing and placing of Dining Chair. The seat and backrest of the chair shall be manufactured from injection-moulded, high-impact strength polypropylene polymer compound with indoor-grade UV resistance, ensuring durability, colour stability, and ease of maintenance for indoor use.

The leg assembly and tubular frame shall be of welded stainless-steel tube of SS 202 grade, buff-polished to provide a smooth and shiny finish. The stainless-steel tubular sections shall be of sizes 25 diameter with 1.6 mm thickness, as required for structural strength and stability. The shoes/caps at the leg ends shall be made of high-impact strength polypropylene polymer compound with indoor-grade UV resistance and shall be press-fitted securely to the tubular frame to protect flooring and enhance stability.

The dining chair shall have the following dimensions: overall height 900 mm, seat height 450 mm, seat size 525 mm (W) × 532 mm (D), and backrest size 516 mm (W) × 455 mm (H) (± 5 % Engineering Variation). The chair shall be ergonomically designed for comfort and stability and shall be suitable for regular indoor dining use.

The dining chair shall be supplied and placed complete in all respects, strictly in accordance with this specification and as approved by the Engineer-in-Charge / Employer.

## 22. Steel Almirah



Providing and placing of a steel almirah of overall size 916 mm (W) × 486 mm (D) × 1980 mm (H) ( $\pm 5$  % Engineering Variation), complete in all respects, with fully welded construction and as per the sample approved and directions of the Engineer-in-Charge/Employer. The almirah shall be manufactured from CRCA 'D' grade high-yield strength cold rolled steel sheets conforming to IS 513 (Part 1):2016, ensuring strength, durability and dimensional stability for institutional and office use.

The almirah shall be provided with four numbers of adjustable shelves, each made from 1.0 mm thick steel sheet, capable of supporting a uniformly distributed load (UDL) of 80 kg per shelf. The back panel shall be of 1.0 mm thickness. The doors shall be made from 1.0 mm thick high-yield strength steel sheet and shall be reinforced with a full-height stiffener of width 115 mm, made from 0.8 mm thick steel sheet, to enhance rigidity and prevent deformation. All other structural and non-structural components shall be manufactured from steel sheets of 1.0 mm thickness unless otherwise specified.

The almirah shall be fitted with a Mazak handle and a three-way locking mechanism with shooting bolts for enhanced security. Height-wise adjustable shelf mounting shall be provided to allow flexibility in storage configuration. Each door shall be fitted with three numbers of heavy-duty hinges, made from 2.0 mm thick steel sheet, ensuring smooth operation and long service life.

The almirah shall be provided with an M10 screw-type leveller with hex plastic base to ensure proper levelling on uneven floors. The pedestal height shall be approximately 125 mm ( $\pm 5$  mm), providing adequate ground clearance and ease of cleaning beneath the unit.

The surface finish shall be epoxy powder coated with a minimum dry film thickness of 50 microns with permissible tolerance of  $\pm 10$  microns. The powder coating process shall conform to IS 13871, providing a uniform, corrosion-resistant and durable finish. The complete steel almirah shall be structurally sound, neatly finished, functionally tested and accepted only after inspection and approval by the Engineer-in-Charge / Employer.

### 23. Metal Open Rack



Supply and installation of a Slotted Angle Rack (Open Type) of approximate size 910 mm (W) × 480 mm (D) × 1850 mm (H) ( $\pm 5\%$  Engineering Variation), complete in all respects and as approved by the Engineer-in-Charge/Employer. The rack shall be designed for heavy-duty storage applications and shall be suitable for use in stores, offices or institutional facilities.

The rack shall be provided with five numbers of adjustable shelves arranged in a hanging/bolt-on configuration, allowing height-wise adjustment as per storage requirements. The main frame shall be manufactured from slotted mild steel angles of size 60 mm × 60 mm × 5.0 mm thickness, ensuring high structural strength and stability. Shelves shall be fabricated from 1.6 mm thick CRCA steel sheets, reinforced with supporting angles of size 40 mm × 40 mm × 3.0 mm to enhance load-bearing capacity.

All rack components shall be assembled using galvanized iron (GI) bolts, nuts and washers to ensure rigidity and ease of assembly and dismantling. The slotted angles and MS sheets shall be manufactured from cold-rolled steel, properly anti-rust treated, and finished with epoxy powder coating after seven-tank pretreatment process on all parts. The powder-coated finish shall be uniform, durable and of colour as per the choice of the Buyer / Employer.

Heavy-duty rubber bushes shall be provided at the bottom of the slotted angle legs to prevent floor damage and to improve stability. The height of the bottom shelf from finished floor level shall be approximately 100 mm. The mild steel sheets used for shelves and other components shall be of good quality, free from defects such as undulations, old paint, surface corrosion or any other imperfections.

Each shelf shall have a minimum load-bearing capacity of 150 kg under uniformly distributed load conditions. The complete slotted angle rack system shall be structurally sound, stable, neatly finished and fully functional, and shall be installed, aligned and approved by the Engineer-in-Charge / Employer before final acceptance

#### 24. Steel Almirah with Glass Shutter.



Supply, installation and commissioning of steel storage almirah with glass shutters of

approximate size 910 mm (W) × 486 mm (D) × 2150 mm (H) (± 5 % Engineering Variation), with permissible engineering variation of ±5%, complete in all respects and as approved by the Engineer-in-Charge/Employer. The almirah shall be full-height type, provided with four adjustable shelves creating five storage compartments throughout the height. The entire body, door frames and shelves shall be manufactured from 0.8 mm thick CRCA steel sheets, ensuring rigidity, durability and long service life. The doors shall be provided with 8 mm thick clear glass panels securely fitted within the steel door frames. Both shelves and doors shall be reinforced with suitable stiffeners to enhance strength and load-bearing capacity. Each shelf shall be designed to carry a uniformly distributed load of minimum 35 kg. The almirah shall be provided with auto-closing, CED-coated heavy-duty hinges of Hettich/Hafele or equivalent approved make, ensuring smooth operation and precise door alignment.

The locking arrangement shall comprise a chrome-plated, three-way locking system with recessed type, spring-loaded rectangular snap-shut handle-cum-lock, complete with duplicate keys, providing enhanced safety and ease of operation. The almirah shall be of rigid knock-down construction fabricated entirely from 0.8 mm thick CRCA steel sheets, making it logistics-friendly and safe for transportation, with final assembly carried out at site.

The steel used shall be CRCA steel conforming to IS:513 (Part 1):2016, CR2 grade (Cold Reduced Carbon Steel Sheets and Strips), procured from reputed primary steel manufacturers such as TATA Steel, SAIL or Jindal Steel, or equivalent, with test certificates available on request. All components shall pass through a seven-stage ultra-modern nano-technology based pre-treatment process prior to powder coating, ensuring superior corrosion resistance.

The surface finish shall be achieved through epoxy polyester powder coating using a fully automatic powder coating plant with GEMA spray booth and AkzoNobel powder, providing a smooth, uniform and highly durable finish of superior quality. The almirah shall be provided with an integrated pedestal at the bottom for enhanced aesthetics, ease of cleaning and improved structural balance.

The complete steel storage almirah with glass shutters shall be aesthetically pleasing, structurally sound, corrosion resistant and fully functional, offering large storage capacity. It shall be installed, aligned, tested and approved by the Engineer-in-Charge / Employer before final acceptance.

## 25. 4 Drawer Locker



Supply and installation of a 4-Door Personal Locker Unit (Base Type) of approximate size 450 mm (W) × 480 mm (D) × 1900 mm (H) ( $\pm 5\%$  Engineering Variation), with permissible engineering variation of  $\pm 5\%$ , complete in all respects and as approved by the Engineer-in-Charge / Employer. The locker unit shall comprise four individual compartments arranged vertically and shall be suitable for personal storage in institutional, industrial or office environments. The unit shall be designed for stack ability, with provision for add-on units that can be stacked width-wise to form a continuous bank of lockers sharing a common side panel.

The locker body, back panel, shelves, pedestal and doors shall be manufactured from high-quality CRCA steel sheets of uniform thickness 0.8 mm, ensuring strength, durability and dimensional stability. The construction shall be of rigid knock-down type to facilitate ease of transportation, handling and on-site assembly. The pedestal shall be stiffened and shall have a height of approximately 75 mm, providing adequate ground clearance and structural support.

Each compartment shall be provided with a shelf capable of supporting a uniformly distributed load of not less than 40 kg. Doors shall be fitted with non-welded hinges with removable hinge pins, enabling easy maintenance and door replacement if required. Ventilation shall be provided through an aesthetically punched pattern on the doors to ensure adequate air circulation inside each locker compartment.

The locking system shall consist of a 10-lever cam lock with lock lever, along with provision for a hasp arrangement, and shall be supplied with duplicate keys for each locker. Handles and label holders shall be made of electroplated mild steel, providing durability and a neat appearance.

The surface finish of the complete locker unit shall be epoxy polyester powder coated with a dry film thickness of 50–60 microns, ensuring a smooth, uniform and corrosion-resistant finish suitable for long-term use. The entire locker unit shall be structurally sound, neatly finished, functionally tested and installed at the designated location, and shall be accepted only after inspection and approval by the Engineer-in-Charge / Employer.

## 26. Wooden Storage



Providing and placing of wooden wardrobe at site. The width and height of the wardrobe shall be as per actual site measurements, Depth of almirah: 600 mm approx. ( $\pm 5\%$  Engineering Variation), Body panels are made of 18 mm ( $\pm 1$ mm) thick ISI marked Commercial plywood (Moisture Resistant grade plywood) finished with 1.0 mm thick laminate on both sides, All the exposed edges are edge banded with 2 mm thick PVC edge banding. Openable Doors/Sliding Doors shall be made of 18 mm ( $\pm 1$ mm) thick ISI marked Commercial plywood (Moisture Resistant grade plywood) finished with 1.0 mm thick

laminate on both sides all the exposed edges are edge banded with 2 mm thick PVC edge banding. Side panel are made of 18 mm ( $\pm 1$ mm) thick ISI marked Commercial plywood (Moisture Resistant grade plywood) finished with 1.0 mm thick laminate on both sides, all the exposed edges are edge banded with 2 mm thick PVC edge banding, 4/5 nos. Drawer/shelf components shall be fabricated from 25 mm thick ISI-marked Commercial Plywood of Moisture Resistant (MR) grade, and shall be finished with 1.0 mm thick laminate on both sides. All the exposed edges are edge banded with 2 mm thick PVC edge banding. Body back and drawer bottom are made of 18 mm ( $\pm 1$ mm) thick ISI marked Commercial plywood (Moisture Resistant grade plywood) finished with 1.0 mm thick laminate on both sides. 5 mm thick mirror shall be provided and fitted in the wooden wardrobe. The size of the mirror shall be 900 mm–1000 mm (Length)  $\times$  300 mm–400 mm (Width). The mirror shall be fixed with wooden beading of 30 mm–40 mm width and 10 mm–12 mm thickness (or as approved by engineer in-charge/employer). The mirror shall be of make Saint-Gobain/Modi Guard or equivalent or as approved by the Engineer-in-Charge/Employer. A stainless steel (SS 304 grade) hanger rod of 25 mm diameter and 2 mm thickness shall be provided in the almirah, the almirah shall be provided with scribe moulding to cover minor gaps or uneven edges at the junctions where the wardrobe meets walls, ceiling, or any other adjoining surfaces, as applicable. Hardware: The high-quality hardware like Roller slides, Stainless Steel Hinges, L-brackets, Mini fix, Stainless Steel Handles (6 inches), locks, wooden dowels, screw, Aluminum Z Bar Clips, Hanging Mounting Bracket shall be used of Hettich/EBCO make or equivalent or as approved by engineer in charge/employer. Commercial plywood and Laminate Make: Centuryply/Greenply/Kitply/Merino/Greenlam or equivalent/or as approved by engineer in-charge/employer), Wooden Wardrobe as approved by engineer in-charge/employer.

#### 27. Stainless Steel Dustbin



Supply and installation of a stainless-steel dustbin with lid and handle, complete in all respects and as approved by the Engineer-in-Charge / Employer. The dustbin shall be of approximate dimensions 10 inches  $\times$  14 inches, with a holding capacity of about 15 Liters, suitable for office, institutional or residential use.

The dustbin shall be manufactured from non-magnetic stainless steel of Grade 202, with a uniform wall thickness of 1.0 mm, ensuring adequate strength, durability and resistance to corrosion under normal usage conditions. The surface shall be smooth, neatly finished and free from sharp edges.

The dustbin shall be provided with a close-fitting lid operated through a foot-operated (leg-operated) pedal mechanism to enable hands-free operation, thereby maintaining hygiene. A

sturdy handle shall be provided for easy handling and relocation of the dustbin.

The complete stainless-steel dustbin shall be structurally sound, easy to clean, hygienic in operation and aesthetically acceptable, and shall be installed/placed at the designated location and accepted only after inspection and approval by the Engineer-in-Charge / Employer.

#### 28. Dustbin Large 100 Liter.



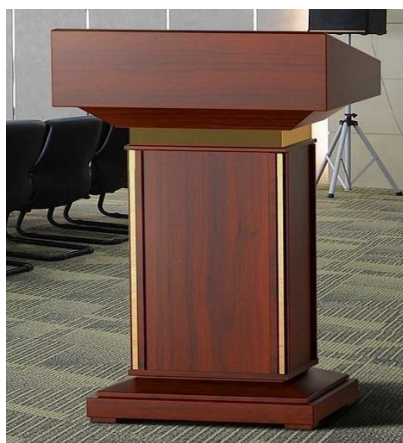
Supply and installation of a large dustbin with a capacity of 100 litres, fitted with wheels and a lid, complete in all respects and as approved by the Engineer-in-Charge / Employer. The dustbin shall be designed for outdoor or indoor institutional, commercial, or residential use and shall be ergonomically suitable for handling and movement.

The dustbin body shall be manufactured from high-density polyethylene (HDPE) using injection moulding technology, ensuring excellent durability, impact resistance, and long-term use. The material shall be heat resistant and UV stabilized to prevent deformation or colour fading under direct sunlight. The dustbin shall have a dead weight of approximately 10.5 kg and a useful load capacity of up to 60 kg.

The dustbin shall be provided with a leg-operated lid, allowing hygienic, hands-free operation. It shall be equipped with two robust wheels of 200 mm diameter for easy manoeuvrability. The overall dimensions of the dustbin shall be approximately 940 mm in height, 480 mm in width, and 550 mm in depth, with an upper edge comb of 870 mm to facilitate handling and lifting.

The complete dustbin shall be structurally sound, weather-resistant, easy to clean, and capable of smooth movement on its wheels. It shall be installed at the designated location and accepted only after inspection and approval by the Engineer-in-Charge / Employer

#### 29. Wooden Podium



Supply and installation of a podium with institute logo, complete in all respects and as approved by the Engineer-in-Charge / Employer. The podium shall be made of 25 mm ( $\pm 3$  mm) thick commercial plywood (MR grade), faced with 0.8 mm thick high-gloss laminate of approved make and colour. The laminate shall be E1 grade with zero urea formaldehyde emissions ( $\leq 8$  mg/100 g oven-dry board, perforated method) to ensure superior indoor air quality and compliance with EN 120-1992 standards.

All exposed edges of the plywood panels shall be sealed with 2 mm thick PVC edge banding on user-facing sides and 0.8 mm thick PVC edge-banding on top and bottom edges, applied using hot-melt glue through automatic edge-banding machines. Edge finishing shall ensure that no sharp corners remain, and all exposed edges shall have a smooth buffing radius of 1.5–2 mm without affecting the aesthetic appearance.

The podium top shall be fabricated from 25 mm ( $\pm 3$  mm) thick MR grade plywood with 0.8 mm thick high-gloss laminate. Below the top, a sliding shelf made of 25 mm ( $\pm 3$  mm) thick MR grade plywood with matching laminate shall be provided, mounted on telescopic channels for keyboard placement. Decorative aluminium banding shall be applied on the front panel for aesthetic enhancement. A CPU shelf shall also be provided, made of 25 mm ( $\pm 3$  mm) thick MR grade plywood with 0.8 mm thick laminate, capable of safely holding a CPU unit.

The podium shall be provided with appropriate provisions for microphone mounting and wire management, ensuring organized routing of cables. The overall dimensions of the podium shall be approximately 600 mm width  $\times$  600 mm depth  $\times$  1200/1050 mm height ( $\pm 5$  % Engineering Variation), as per site requirement. Commercial plywood and Laminate Make: Centuryply/Greenply/Kitply/Merino/Greenlam or equivalent/or as approved by engineer in-charge/employer).

The complete podium shall be structurally robust, ergonomically designed, aesthetically finished, and fully functional, with all components securely fixed. Installation shall be carried out at the designated location, and the podium shall be accepted only after inspection and approval by the Engineer-in-Charge / Employer

### 30. White board



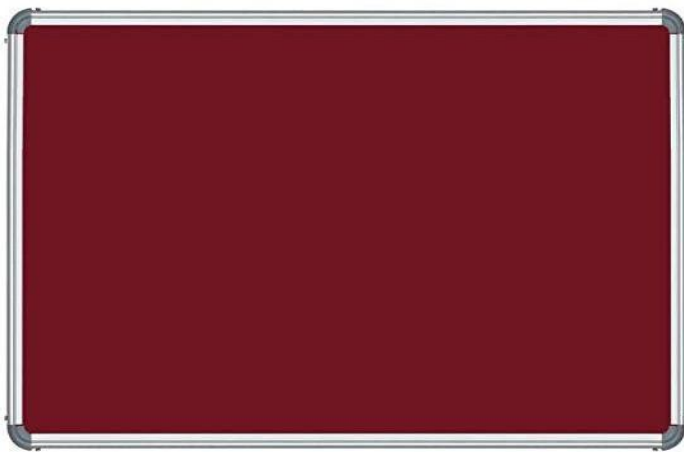
Supply and installation of a ceramic steel magnetic whiteboard of dimensions approximately 1200 mm (W)  $\times$  900 mm (H) ( $\pm 5$  % Engineering Variation), The writing surface shall be white in color, smooth, and suitable for use with markers, providing excellent erasability without leaving impressions even after repeated use. The writing surface shall be made of

0.4 mm thick E3 grade ceramic steel, permanently fused to provide a durable, non-porous, scratch-resistant, and corrosion-resistant finish.

The core of the board shall be 9 mm thick MDF for dimensional stability and strength, while the back cover shall be made of 0.25 mm thick galvanized steel sheet to provide additional rigidity and to support magnetic functionality. The board shall be framed with an anodized extruded aluminium alloy hollow section, having a minimum wall thickness of 1.2 mm and a frame width of 25 mm, ensuring structural strength and resistance to warping. All corners of the frame shall be finished with black ABS moulded corner caps to provide safety, durability, and aesthetic appeal.

The complete whiteboard shall be magnetic, structurally stable, easy to mount, and suitable for long-term use, with a smooth, uniform, and durable writing surface. Installation shall be carried out at the designated location, aligned correctly, and the board shall be accepted only after inspection and approval by the Engineer-in-Charge / Employer.

### 31. Pinup Fabric board



Supply and installation of a fabric push-pin soft board of dimensions approximately 1200 mm (W) × 900 mm (H) ( $\pm 5\%$  Engineering Variation). The board shall be suitable for pinning notices, documents, and other materials using push pins, providing a durable and resilient display surface.

The core of the board shall be made of 12 mm thick wood board, providing structural stability and ensuring resistance to warping. The front/display layer shall be covered with high-quality fabric in blue color, offering a smooth, neat, and professional appearance. The overall pin ability depth of the board shall be approximately 20 mm to accommodate multiple push pins without damaging the backing or reducing usability.

The rear panel of the board shall be made of laminated sheet to provide additional strength and rigidity. The frame of the board shall be constructed from anodized extruded aluminium alloy hollow section, with a minimum wall thickness of 1.2 mm, ensuring durability, stability, and protection of the edges. The corners shall be neatly finished to avoid sharp edges, maintaining both safety and aesthetics.

The complete fabric push-pin notice board shall be structurally sound, visually appealing, easy to mount, and fully functional, capable of repeated use with push pins. Installation shall be carried out at the designated location, properly aligned, and the board shall be accepted only after inspection and approval by the Engineer-in-Charge / Employer.

### 32. Notice board with front cover



Supply and installation of a fabric push-pin soft board with sliding glass cover of dimensions approximately 1200 mm (W) × 900 mm (H) ( $\pm 5\%$  Engineering Variation). The board shall be suitable for pinning notices, documents, and other materials using push pins, providing a durable, resilient, and professional display surface.

The core of the board shall be made of 12 mm thick wood board, providing structural stability and resistance to warping. The front/display layer shall be covered with high-quality blue fabric, ensuring a smooth, neat, and visually appealing finish. The overall pin-ability depth of the board shall be approximately 20 mm to allow secure pinning without damaging the core.

The rear panel shall be constructed from laminated sheet, providing additional strength and rigidity. The board shall be enclosed with a sliding front cover made of 5 mm thick toughened glass, with a lockable provision to secure the contents and prevent unauthorized access. The frame shall be manufactured from anodized extruded aluminium alloy hollow section, with a minimum wall thickness of 1.2 mm, ensuring durability, rigidity, and protection of the board edges. Corners and edges shall be neatly finished for safety and aesthetics.

The complete fabric push-pin notice board with sliding glass cover shall be structurally sound, visually appealing, easy to use, and fully functional. It shall be properly mounted at the designated location, aligned, and accepted only after inspection and approval by the Engineer-in-Charge / Employer.

### 33. Key box (50 keys)



Supply and installation of Key Board (50 Keys) with size (600mmx600mm) ( $\pm 5\%$  Engineering Variation) shall be made up of 25mm thick commercial plywood (MR grade plywood) with 0.8 mm thick High Gloss Laminate of approved make and Colour, E1 grade 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 Ply 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, a Transparent door provided with 5 mm thick glass with lock & key, key hook shall be made up of Stainless steel 304 grade, Warranty; 5 Years key board as per approved by client/ Engineer In charge.

### 34. Examination Couch



Supply and installation of Examination Couch, the examination couch shall have overall dimensions of 1975 mm (L)  $\times$  560 mm (W)  $\times$  805 mm (H) ( $\pm 5\%$  Engineering Variation) and shall be designed as a multipurpose unit incorporating three drawers, three cabinets, an inbuilt step stool, and a BP apparatus tray holder. The base frame shall be fabricated from 30 mm  $\times$  30 mm ERW steel tubes of 1.6 mm thickness,

ensuring adequate strength and stability. The complete storage cabinet unit shall be mounted on the tubular base frame.

The cabinets shall be manufactured from 1.0 mm thick CRCA sheet steel, provided with recessed plastic handles, locking arrangement, and plastic door latches. Cabinet hinges shall be of sheet metal with pin arrangement. The internal dimensions of the two side cabinets shall be 422 mm (W) × 455 mm (D) × 540 mm (H). The drawers shall also be made from 1.0 mm thick CRCA sheet steel, fitted with recessed plastic handles, and mounted on double-extension ball bearing slides to ensure smooth and full extension. The internal dimensions of each drawer shall be 330 mm (W) × 427 mm (D) × 92 mm (H).

The headrest shall be height adjustable through a gas spring mechanism, actuated by an ergonomically designed C-shaped handle lever. The mattress platform shall be 65 mm thick, constructed with a 12 mm thick plywood base, high-density PU foam, and upholstered with Leatherite cover. The cover shall be water resistant, fire retardant, and anti-microbial, and shall have an in-vitro cytotoxicity test report from a reputed test laboratory. The top mattress surface shall have a tapered end edge for improved ergonomics and patient comfort.

A tissue roll holder made of SS 304 shall be provided on the lower side of the backrest. The inbuilt step stool shall be manufactured from 1.0 mm thick CRCA sheet, fitted with levellers, and mounted on double-extension ball bearing slides for smooth operation. The BP apparatus holder shall be made from 1.0 mm thick CRCA sheet and shall be height adjustable, mounted on a stainless-steel height-adjustable rod.

The examination couch shall have a minimum load-bearing capacity of 135 kg and shall be provided with six levellers made of metal and plastic for proper adjustment on uneven floors. All metal components shall be pre-treated and powder coated with epoxy polyester powder coating for corrosion resistance and durability. The OEM shall be USFDA and/or European CE from 4 digit notified body or the product/manufacturer shall also comply with applicable requirements of the Bureau of Indian Standards (BIS) and the manufacturer shall hold ISO 13485:2016 certification issued by a notified agency recognized by NABCB India.

### 35. Dressing Trolley with Bowl & Bucket



Supply and installation of dressing trolley, The dressing trolley with bowl and bucket shall have an overall dimension of 1156 mm (L) × 531 mm (W) × 915 mm (H) (± 5 % Engineering Variation). The vertical legs shall be manufactured from 32 mm diameter stainless steel tubes

of 1.6 mm thickness, conforming strictly to SS 304 grade. Horizontal stays shall be made from 20 mm diameter stainless steel 304 tubes of 1.6 mm thickness. The top shelf and bottom shelf shall be fabricated from SS 304 sheet of 1.2 mm thickness. Protective railings made of SS 304 shall be provided on all four sides of each shelf; the railing shall be constructed from 10 mm diameter rods of 1.2 mm thickness with a railing height of 75 mm (3 inches). The vertical distance between the two shelves shall be 460 mm, and the clearance from ground level to the bottom shelf shall be 330 mm.

Handles shall be made from SS 304 pipe of 16 mm diameter and 1.2 mm thickness. The trolley shall be mounted on four non-rusting castors of 125 mm diameter, comprising two castors with brakes and two without brakes. The castors shall be made from high-grade, non-floor-staining synthetic material with integrated thread guards, and the wheel centre shall be fitted with precision ball bearings to ensure smooth and noiseless movement.

The trolley shall accommodate a seamless stainless-steel bucket with SS lid at the lower level and a stainless-steel bowl at the top level. The bucket size shall be 330 mm height × 280 mm outer diameter (±10 mm engineering variation), and the bowl size shall be 330 mm diameter × 180 mm height (±10 mm engineering variation). Both the bowl and bucket shall be manufactured from SS 304 sheet of 1.0 mm thickness and shall be fully removable. The bowl and bucket shall be mounted on a removable SS 304 frame made from 12 mm diameter rod with 1.6 mm thickness, assembled on an SS 304 sleeve welded to the vertical tube.

Only SS 304 grade stainless steel shall be used for the complete tubular framework and shelves of the trolley. The trolley shall have a matt finish and shall be supplied in SKD (semi-knocked-down) condition. The trolley shall have a minimum load-bearing capacity of 40 kg and shall successfully pass proof loading test, cycle test, impact test, and castor brake test. The dressing trolley with bowl and bucket shall be supplied strictly as per this specification and as approved by the Engineer-in-Charge / Employer.

### 36. Crash Cart



Supply, installation, testing, and commissioning of Crash Cart with six ABS plastic drawers and six coloured medicine bins shall be carried out as per approved specifications and directions of the Engineer-in-Charge. The crash cart shall have

overall dimensions of 1048 mm (L) × 475 mm (W) × 1555 mm (H) (± 5 % Engineering Variation). The top sheet shall be made of SS 304 grade stainless steel with a thickness of 2.0 mm, while the middle and bottom shelves shall be manufactured from SS 304 grade stainless steel sheets of 1.0 mm thickness.

The structural framework shall be fabricated entirely from SS 304 grade stainless steel tubular sections, comprising sections of 25.4 mm, 19 mm, 16 mm, and 1.2 mm thickness, ensuring strength, durability, and corrosion resistance. An SS stainless steel cylinder case shall be provided, welded with a cylinder holding unit and hook, designed with a curved bend at the bottom for safe and secure holding of the medical gas cylinder. Provision for an IV rod shall be made using SS 304 grade pipe of 12 mm diameter.

The crash cart shall be mounted on four high-endurance, anti-static, injection-moulded swivel castors of 125 mm diameter, with provision for diagonal locking to ensure stability during use. A push handle made of SS 304 grade stainless steel pipe of 25.4 mm diameter, 365 mm length, and 1.2 mm thickness shall be provided, finished in a smooth glossy surface for ease of handling.

The SS 304 tubular frame shall be fitted with six different coloured, removable medicine bins mounted on the top shelf for quick identification and access. Additionally, two polystyrene lockable storage units, each comprising three ABS plastic drawers, shall be provided. The top drawers shall be supplied with removable containers of different sizes for organized storage of medicines and consumables.

The crash cart shall have a safe working load of not less than 40 kg and the manufacturer shall hold ISO 13485:2016 certification issued by a notified agency recognized by NABCB India. The product shall successfully pass proof loading test, cycle test, impact test, and castor brake/break test, ensuring compliance with functional and safety requirements. The complete crash cart shall be supplied and installed in all respects, ready for use, as approved by the Engineer-in-Charge.

### 37. Wheel Chair



Supply and installation of a folding wheelchair with cushion shall be carried out as per approved specifications and directions of the Engineer-in-Charge/Employer. The wheelchair shall have overall dimensions of 650 mm (W) × 1120 mm (D) × 920 mm (H) (± 5 % Engineering Variation). The overall width of the wheelchair shall be 600 mm in unfolded condition and 190 mm in folded condition. The wheelchair frame shall be

robust, with frame tube thickness of 1.6 mm, and shall provide a clearance of 80 mm from the floor.

The wheelchair shall be provided with a PU foam cushioned seat, backrest, and armrests, upholstered with leatherette material. The density of cushion material used for armrest, seat, and backrest shall be  $30 \text{ kg/m}^3$ , and the cushion thickness shall be 40 mm. The seat depth shall be 400 mm, and the seat height from floor at the front shall be 520 mm. The backrest slope shall be 90 degrees with respect to the floor, and the height of armrest from seat shall be 105 mm.

The cross bar, armrests, and handgrips shall be made of A3 carbon steel with a section of  $25.4 \text{ mm} \times 1.2 \text{ mm}$ . The hand rim shall have an outside diameter of 16 mm with 1.2 mm thickness. The wheelchair shall be equipped with aluminum die-cast footrests, and the leg guard shall be swinging type and detachable, with a width of 600 mm. The distance between the seat and footrest shall be 400 mm, and the clearance of footrest from floor shall be 150 mm.

The wheelchair shall have 24-inch rear wheels with steel wheel hubs and 200 mm diameter front wheels. The aluminum castors shall be anodized for corrosion resistance and durability. The wheelchair shall be fitted with a low-voltage alarm, where applicable. The loading capacity shall be not less than 100 kg.

All stainless-steel components used in the wheelchair shall be of SS 304 grade. The wheelchair shall successfully undergo and pass proof loading test, cycle test, impact test, and castor brake/break test, ensuring safety, durability, and performance. The wheelchair shall be supplied and installed complete in all respects, strictly as per this specification and as approved by the Engineer-in-Charge / Employer.

### 38. Mayo Trolley



Supply, installation, testing, and commissioning of Mayo Trolley shall be carried out as per approved drawings, specifications, and directions of the Engineer-in-Charge / Employer. The Mayo Trolley shall have an overall size of 531 mm (W)  $\times$  775 mm (D) with height adjustable from 814 mm to 1340 mm, ( $\pm 5\%$  Engineering Variation).

The bottom frame shall be fabricated from SS 304 grade stainless steel square tubes of section  $38 \text{ mm} \times 38 \text{ mm}$  with 1.2 mm thickness, providing adequate strength and stability. The top frame shall be made of SS 304 grade square tubes of section  $30 \text{ mm} \times 30 \text{ mm}$  with 1.2 mm thickness. A fixed guide tube of SS 304 grade, section  $38 \text{ mm} \times 38$

mm and thickness 1.6 mm, shall be provided for guiding the telescopic tube. This guide tube shall have a buffed finish to ensure smooth telescopic movement without wear and corrosion.

The height adjustment mechanism shall be achieved through a telescopic SS 304 tube system, and a locking knob mechanism shall be provided to securely lock the trolley at the desired height. SS 304 grade tubes of 30 mm × 30 mm section and 1.2 mm thickness shall be used for tray mounting and for supporting the top frame, and shall be rigidly welded to the telescopic tube. An aesthetically designed SS flange section shall be provided for use as a tray support.

The top shelf shall be manufactured from SS 304 grade stainless steel sheet of 1.2 mm thickness, formed with smooth edges for safe handling. The trolley shall be mounted on four high-endurance, anti-static, durable castors of 50 mm diameter, suitable for easy manoeuvrability in emergency and clinical areas. The castors shall be provided with locking arrangement to ensure stability during use.

The complete trolley shall be finished in a glossy mirror finish. The Mayo Trolley shall have a maximum working load capacity of 20 kg and shall successfully pass proof loading test, cycle test, impact test, and castor brake/break test. The Mayo Trolley shall be supplied complete in all respects, strictly as per this specification and as approved by the Engineer-in-Charge / Employer.

### 39. Stretcher Trolley



Supply and installation of Patient Stretcher Trolley shall be carried out as per approved drawings, specifications, and directions of the Engineer-in-Charge / Employer. The stretcher trolley shall have overall dimensions of 2005 mm (L) × 666 mm (W) × 830 mm (H) (± 5 % Engineering Variation) The trolley frame shall be fabricated from ERW steel tubes of 31.75 mm and 25.4 mm diameter with 1.6 mm thickness, ensuring robust construction and stability. The stretcher holder shall be manufactured from mild steel (MS), securely fixed to the trolley frame. The stretcher frame shall be made of ERW steel tube of 25.4 mm diameter and 1.6 mm thickness.

The trolley shall be mounted on four swivel castors of 200 mm diameter, provided with diagonal locking arrangement to ensure safety and stability during patient transfer. The top sheet shall be made of 1.2 mm thick CRCA steel sheet, contoured suitably to accommodate the patient comfortably. An IV pole holder made of mild steel (MS) shall be provided as an integral part of the trolley.

The trolley shall have a maximum safe working load capacity of not less than 135 kg. To ensure superior weld quality and structural integrity, all welding shall be carried out using the CO<sub>2</sub>-Argon welding process. All metal components shall undergo zinc phosphating pretreatment

through a 9-tank process, followed by powder coating with anti-microbial epoxy polyester powder coating for corrosion resistance and hygiene.

The stretcher trolley shall be supplied in knocked-down (KD) construction to facilitate ease of transportation and to reduce carbon emissions. The trolley shall be provided with a PU foam mattress of density 40 kg/m<sup>3</sup> and thickness 35 mm, covered with heavy-duty helium material that is waterproof, flame retardant, vapour permeable, and X-ray permeable. The zip and stitching of the mattress cover shall be concealed to ensure safety and ease of cleaning.

The stretcher trolley shall successfully pass proof loading test, cycle test, impact test, and castor brake/break test. The complete stretcher trolley shall be supplied and installed in all respects, ready for use, strictly in accordance with this specification and as approved by the Engineer-in-Charge / Employer.

#### 40. Stretcher Trolley with Oxygen Gas Cylinder



Supply and installation of patient stretcher trolley shall be carried out as per approved specifications and directions of the Engineer-in-Charge / Employer. The stretcher trolley shall have an overall size of 1830 mm (L) × 560 mm (W) × 845 mm (H) (± 5 % Engineering Variation) . The mattress platform size shall be 1790 mm (L) × 555 mm (W) (± 5 % Engineering Variation). The trolley shall be provided with a removable two-section pre-laminated top, wherein the backrest section shall be supported on a tubular frame and raised through a ratchet mechanism.

The framework of the trolley shall consist of vertical mild steel tubes of 31.75 mm diameter and 1.2 mm thickness (18G), reinforced at the bottom with 34.92 mm diameter and 1.2 mm thickness (18G) tubes for secure fixing of castors. All horizontal stays shall be made of 25.4 mm diameter and 1.2 mm thickness (18G) mild steel tubes. The removable two-section stretcher shall be supported on an MS tubular frame of 25.4 mm diameter and 2.0 mm thickness. The top surface shall be made of 8 mm thick decorative laminated (compact) sheet.

The backrest shall be adjustable through a ratchet mechanism providing five different height positions. The ratchet mechanism shall consist of an SS 304 rod of 12 mm diameter and a flat of size 275 mm × 6 mm, ensuring durability and smooth operation. The trolley shall be fitted with swing-away type side railings of overall size 1175 mm (L) × 340 mm (H), made from MS tubes of 15.8 mm × 1.2 mm and 19.8 mm × 1.2 mm thickness

The trolley shall be mounted on four swivel castors of 200 mm diameter, comprising two castors with brakes and two without brakes, suitable for smooth manoeuvrability and safe positioning. The stretcher trolley shall have a safe working load of 135 kg and a patient load-

bearing capacity of 105 kg. The trolley shall be supplied in SKD (semi-knocked-down) condition for ease of transportation and installation.

All mild steel tubular parts, linkages, and flats shall be in-house pretreated and epoxy powder coated with a coating thickness of 50 to 60 microns. the manufacturer shall hold ISO 13485:2016 certification issued by a notified agency recognized by NABCB India. The stretcher trolley shall be supplied complete with the following accessories: safety belts, a Rexine-covered mattress of 50 mm thickness with two sections ( $\pm 5$  mm), and an MS oxygen cylinder cage. The complete stretcher trolley shall be supplied and installed in all respects, strictly as per this specification and as approved by the Engineer-in-Charge / Employer.

#### 41. Double X-Ray View Box



Supply and installation of Double X-Ray View Box (LED type) shall be carried out as per approved specifications and directions of the Engineer-in-Charge / Employer. The view box shall have overall dimensions of 850 mm (W)  $\times$  512 mm (H)  $\times$  47 mm (D) ( $\pm 5$  % Engineering Variation) with an engineering variation of  $\pm 10\%$ . The unit shall adopt a high-efficiency LED light source with a minimum service life of 100,000 hours, suitable for continuous clinical use.

The illuminator shall provide a maximum brightness of up to 5000 cd/m<sup>2</sup>, enabling clear viewing of medical films of varying densities. The light frequency shall be above 50 kHz, thereby effectively reducing visual fatigue during prolonged diagnostic use. An A-Cast type viewing screen shall be provided to ensure uniform light diffusion, improved brightness, and soft illumination; the screen shall be resistant to yellowing, deformation, and aging over long-term use.

The front viewing screen shall be made of high-quality Polymethyl Methacrylate (PMMA). The frame and housing shall be manufactured from electrophoresis-coated aluminium alloy combined with ABS plastic, providing durability, corrosion resistance, and an aesthetic finish. The view box shall operate on a power supply of 220–240 V AC, 50 Hz.

The unit shall allow easy insertion and removal of X-ray films through dedicated film-holding slots. It shall be provided with an On/Off control and a fully electronic, continuously adjustable brightness control, with separate brightness control for each viewing panel, ensuring precise illumination adjustment as per diagnostic requirements.

The double X-Ray View Box shall be supplied, installed, and commissioned complete in all respects, ready for use, strictly in accordance with this specification and as approved by the Engineer-in-Charge / Employer.

## 42. Emergency Trolley



Supply and installation of Emergency Recovery Trolley (ERT) shall be carried out as per approved drawings, specifications, and directions of the Engineer-in-Charge / Employer. The trolley shall be height adjustable, with adjustable backrest and provision for Trendelenburg and reverse Trendelenburg (TR/ATR) positions. The overall size of the trolley shall be approximately 2139 mm (L) × 936 mm (W) ( $\pm 5\%$  Engineering Variation), with height adjustable from 680 mm to 1055 mm. ( $\pm 5\%$  Engineering Variation)

The bed frame and base frame shall be fabricated from ERW steel tubes of section 25 mm × 50 mm with 1.6 mm thickness, ensuring strength and durability. Smooth Trendelenburg and reverse Trendelenburg movement shall be achieved with the assistance of two gas springs, each of 530 mm length with 168 mm stroke. Height adjustment of the trolley shall be provided through a hydraulic pump mechanism with 140 mm stroke, ensuring smooth, consistent, and jerk-free motion during operation.

The trolley shall be provided with a detachable stretcher having an X-ray permeable top made of 6 mm thick high-pressure compact laminate, offering excellent chemical and stain resistance. The fixed portion of the top shall be 1065 mm (L) × 590 mm (W), and the tilting backrest portion shall be 728 mm (L) × 590 mm (W). The backrest shall be adjustable through a ratchet mechanism from 0° to 70° for patient comfort.

An MS X-ray cassette holder, top-mounted, shall be provided and designed to move along the length of the stretcher to enable X-ray imaging at different positions. The top frame shall incorporate an X-ray tray assembly made of 1.2 mm thick MS CRCA sheet, capable of sliding along the stretcher length. Provision shall be given for changing the X-ray cassette from the leg side, and a locking knob shall be provided to secure the assembly during TR/ATR operations.

The trolley shall be mounted on high-end 125 mm diameter non-marking castors, diagonally lockable, suitable for smooth manoeuvrability. The safe working load shall be not less than 135 kg on a flat top. An SS telescopic IV pole, height adjustable and

fitted with two hooks for saline bags, shall be provided. Urine bag holders made of 8 mm diameter MS rod with zinc plating shall be provided on both sides of the trolley.

The trolley shall be fitted with drop-down side rails made of SS 304, covering more than half of the total bed length. The side rails shall be made of 19 mm diameter SS 304 tubes with 1.2 mm thickness. For impact protection, the trolley shall be equipped with four neoprene bumpers providing excellent shock-absorbing properties. A fail-safe mechanism shall be incorporated to prevent collapse of the trolley in the event of gas spring failure during TR and ATR operations.

The trolley shall be provided with two U-shaped bows at the head and foot ends to facilitate pushing and pulling. These bows shall be neoprene-covered to ensure better grip and to prevent cold shock during patient handling. Provision shall be made for an MS oxygen cylinder holder to mount a B-type oxygen cylinder at the head side of the trolley. An MS file holder shall be provided at the bottom for carrying patient files and accessories during movement. The trolley shall also be supplied with two pairs of patient safety belts.

The trolley may optionally be supplied with a PU foam mattress of 40 kg/m<sup>3</sup> density and 50 mm thickness, covered with heavy-duty helium material that is waterproof, flame retardant, vapour permeable, and X-ray permeable. The zip and stitching of the mattress cover shall be concealed for safety and hygiene. The OEM shall be USFDA and/or European CE from 4 digit notified body or the product/manufacturer shall also comply with applicable requirements of the Bureau of Indian Standards (BIS) and the manufacturer shall hold ISO 13485:2016 certification issued by a notified agency recognized by NABCB India.

All mild steel components shall be subjected to a nine-tank pretreatment process with zinc phosphating, followed by powder coating with antimicrobial, thermosetting epoxy polyester powder. All welding shall be carried out using the CO<sub>2</sub>-Argon welding process, and a synergy coating shall be applied on welded areas to minimize early rusting. The emergency trolley shall be supplied and installed complete in all respects, strictly in accordance with this specification and as approved by the Engineer-in-Charge / Employer.

#### 43. Kick Bucket



Supply and installation of Kick Bucket shall be carried out as per approved specifications and directions of the Engineer-in-Charge / Employer. The kick bucket shall have an overall dimension of 517 mm diameter × 210 mm height. (± 5 % Engineering Variation) It shall be of three-legged construction and mounted on 50 mm diameter swivel castors to

facilitate easy movement during clinical use.

The supporting frame and ring unit shall be fabricated from SS 304 grade stainless steel tubes of 25.4 mm and 12.7 mm diameter with 1.2 mm thickness, ensuring strength, corrosion resistance, and durability. The bucket/bowl wall shall be made of stainless-steel sheet of 0.8 mm thickness, smoothly finished for ease of cleaning and hygiene.

The kick bucket shall be designed for a minimum load-bearing capacity of 20 kg and shall be suitable for continuous hospital use. The complete kick bucket shall be supplied and installed complete in all respects, strictly in accordance with this specification and as approved by the Engineer-in-Charge / Employer.

#### 44. "U" Pattern Sliding Curtain Facility for Patient



Providing, fixing, and installation of Hospital Cubicle Curtain Track System shall be carried out as per approved drawings, site requirements, manufacturer's instructions, and directions of the Engineer-in-Charge / Employer. The curtain track material shall be made of aluminium alloy 6063-T6, having a minimum tensile strength of 195 MPa, shear tensile strength of 195 MPa, and shear strength of 150 MPa. All materials used shall be corrosion resistant and finished with a minimum 50-micron polyester powder coating of approved shade.

The curtain track system shall comprise ceiling suspender supports and wall support units. The ceiling suspender system shall consist of upper aluminium plates of 50.4 mm diameter and 1.8 mm thickness, each fixed to the ceiling using three numbers rawl plugs and screws. Ceiling suspenders shall be made of aluminium pipes of minimum 12.7 mm diameter, with variable height to suit ceiling and curtain height requirements. Minimum three suspenders shall be provided for each cubicle. Wall support units shall be made of aluminium and securely fixed to the wall using rawl plugs and screws.

The curtain track shall be manufactured from aluminium alloy sections of minimum size 20.4 mm × 25 mm, with side thickness of 1.6 mm and top thickness of 3.3 mm. The track shall be provided with a curtain removable point made of galvanized steel to facilitate easy loading and unloading of curtains. The track shall be fitted with 7 mm diameter

wheel-type Teflon-coated plastic rollers, provided with 1.8 mm diameter stainless steel (Grade 302) hooks of 30 mm length for smooth and noiseless curtain movement.

The track shall be bendable to a minimum radius of 300 mm at 90 degrees, enabling coverage along the length and width of the bed. All bends shall be joint-less, ensuring uninterrupted curtain movement. The system shall provide a sliding curtain facility in "U" pattern for patient privacy.

Hospital cubicle curtains shall have an overall height of 7.5 feet and shall be made of 100% polyester or polyester-blended fabric, incorporating a 450 mm high white nylon mesh (net) at the top. The curtain fabric shall be anti-microbial, flame resistant, wrinkle free, shrink proof, anti-odor, stain retardant, and water-repellent. Curtains shall be fitted with stainless steel grommets at 150 mm centre-to-centre spacing. The fabric length shall be equal to the track length plus 20% additional fullness, and the fabric height shall be floor-to-ceiling height minus a 10-inch clearance at the bottom. The fabric shall be hemmed on all sides and at the bottom.

All tracks shall be installed level and plumb, strictly in accordance with the manufacturer's written instructions. Any mild steel components used shall be pre-treated and powder coated for corrosion protection. The complete hospital cubicle curtain track system, including curtains, supports, rollers, and accessories, shall be supplied, installed, and commissioned complete in all respects, strictly as per this specification and as approved by the Engineer-in-Charge / Employer.

#### 45. S.S. Top stool for wards, ICU, Trama, observation.



Supply and installation of Stool shall be carried out as per approved specifications and directions of the Engineer-in-Charge / Employer. The stool shall have an overall diagonal leg diameter of 538 mm and an adjustable height ranging from a minimum of 470 mm to a maximum of 655 mm ( $\pm 5\%$  Engineering Variation).

The top base (seat pan) shall be manufactured from SS 304 grade stainless steel sheet, formed by spin process, with a minimum thickness of 1.6 mm. The seat shall be non-corrosive and shall have a diameter of 305 mm. The seat base support shall be made of a mild steel (MS) ring and rectangular tube, providing rigidity and uniform load distribution.

Height adjustment of the seat shall be achieved through an EN8 grade lead screw of 22 mm diameter, ensuring smooth and durable operation. The central hub shall be fabricated from MS ERW tube of 38 mm diameter and 2.0 mm thickness, welded integrally with the legs, and designed to accommodate and fully cover the lead screw mechanism for safety and aesthetics.

The under structure shall consist of four legs; each made from MS ERW tube of 25.4 mm

diameter and 1.6 mm thickness. The press-formed pipe legs shall provide a round and clean appearance. All legs shall be fitted with four numbers Nylon-6 bushes to ensure stability, noise reduction, and floor protection.

All metal components shall undergo zinc phosphating pretreatment through a 9-tank process, followed by powder coating with anti-microbial epoxy polyester powder. The coating shall provide effective bacterial protection against at least two commonly found hospital bacteria, namely Gram-positive and Gram-negative organisms. The stool shall have a safe working load capacity of not less than 135 kg. The stool shall be supplied and installed complete in all respects, strictly in accordance with this specification and as approved by the Engineer-in-Charge / Employer.

#### 46. 3-fold Patient screen



Supply and installation of 3-Fold Screen shall be carried out as per approved specifications and directions of the Engineer-in-Charge/Employer. The 3-fold screen shall have an overall dimension of 2637 mm (L) × 640 mm (W) × 1720 mm (H) ( $\pm 5\%$  Engineering Variation), suitable for use as a movable privacy screen in hospital and clinical areas.

The frame shall be fabricated entirely from Stainless Steel of SS 304 grade. The fixed frame shall be made from 25 mm diameter stainless steel tube of 1.6 mm thickness, while the movable frame shall be made from 25 mm diameter stainless steel tube of 1.6 mm thickness. The leg frame shall be constructed from 32 mm × 32 mm square stainless-steel tube of 1.6 mm thickness, providing adequate strength and stability. The complete frame assembly shall be designed for smooth movement and long-term corrosion resistance.

The screen shall be mounted on swivel castors of 75 mm diameter to facilitate easy movement and positioning. The screen panels shall be fitted with good-quality canvas fabric, securely attached to the frame with the help of springs provided along the edges, ensuring proper tension and neat appearance.

The complete 3-fold screen shall be supplied and installed complete in all respects, strictly in accordance with this specification and as approved by the Engineer-in-Charge / Employer.

**Budgetary Estimate of office and Hospital furniture work for IPD Block Tower C, D & E at AIIMS, Rajkot, Gujarat**

**Name of Agency:**

| S. NO. | Name of Items                                               | Unit | Item Quantity | Rate per Unit<br>inclusive of all<br>taxes+ 3 year<br>warranty | Amount in Rs. | Reference Images                                                                      |
|--------|-------------------------------------------------------------|------|---------------|----------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|
| 1      | Work station                                                | Each | 24            |                                                                | 0             |    |
| 2      | CABIN TABLE (HOD ROOM)                                      | Each | 9             |                                                                | 0             |    |
| 3      | CABIN TABLE (ASSOCIATE PROFESSOR)                           | Each | 21            |                                                                | 0             |    |
| 4      | CABIN TABLE (Staff Room)                                    | Each | 64            |                                                                | 0             |  |
| 5      | WORKTABLE-1 (DUTY ROOM/ DEMO ROOM0/(COUNSELLING ROOM/ JR/SR | Each | 134           |                                                                | 0             |  |
| 6      | HIGH BACK CHAIR-                                            | Each | 14            |                                                                | 0             |  |
| 7      | MID BACK CHAIR                                              | Each | 90            |                                                                | 0             |  |

**Budgetary Estimate of office and Hospital furniture work for IPD Block Tower C, D & E at AIIMS, Rajkot, Gujarat**

**Name of Agency:**

|    |                                             |      |     |  |   |                                                                                       |
|----|---------------------------------------------|------|-----|--|---|---------------------------------------------------------------------------------------|
| 8  | HIGH BACK CHAIR- 2                          | Each | 144 |  | 0 |    |
| 9  | Visitor CHAIR                               | Each | 475 |  | 0 |    |
| 10 | DEMONSTRATION CHAIR WITH TABLET (DEMO ROOM) | Each | 690 |  | 0 |    |
| 11 | 3 SEATER WAITING CHAIR                      | Each | 219 |  | 0 |   |
| 12 | MEETING TABLE 16 Seater                     |      | 1   |  | 0 |  |
| 13 | Meeting Room Chair                          | Each | 16  |  | 0 |  |
| 14 | SINGLE BED (Duty Room)                      | Each | 41  |  | 0 |  |
| 15 | Single Bed Mattress                         |      | 41  |  | 0 |  |

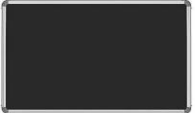
**Budgetary Estimate of office and Hospital furniture work for IPD Block Tower C, D & E at AIIMS, Rajkot, Gujarat**

**Name of Agency:**

|    |                       |      |     |  |   |                                                                                       |
|----|-----------------------|------|-----|--|---|---------------------------------------------------------------------------------------|
| 16 | Three Seater Sofa     | Each | 27  |  | 0 |    |
| 17 | Two Seater Sofa       | Each | 39  |  | 0 |    |
| 18 | CENTER TABLE          | Each | 17  |  | 0 |    |
| 19 | CORNER TABLE          | Each | 43  |  | 0 |   |
| 20 | 4-Seater Dining Table | Each | 73  |  | 0 |  |
| 21 | Dining Chair          | Each | 292 |  | 0 |  |
| 22 | Steel Almirah         | Each | 41  |  | 0 |  |
| 23 | Metal Open Rack       | Each | 25  |  | 0 |  |

**Budgetary Estimate of office and Hospital furniture work for IPD Block Tower C, D & E at AIIMS, Rajkot, Gujarat**

**Name of Agency:**

|    |                                  |      |     |  |   |                                                                                       |
|----|----------------------------------|------|-----|--|---|---------------------------------------------------------------------------------------|
| 24 | Steel Almirah with Glass Shutter | Each | 257 |  | 0 |    |
| 25 | 4 Drawer Locker                  | Each | 79  |  | 0 |    |
| 26 | Wooden Storage                   | Sqmt | 50  |  | 0 |    |
| 27 | Stainless Steel Dustbin          | Each | 155 |  | 0 |   |
| 28 | Dustbin Large 100 Liter          | Each | 15  |  | 0 |  |
| 29 | Wooden Podium                    | Each | 5   |  | 0 |  |
| 30 | White board                      | Each | 70  |  | 0 |  |
| 31 | Pinup Fabric board               | Each | 20  |  | 0 |  |
| 32 | Notice board with front cover    | Each | 20  |  | 0 |  |

**Budgetary Estimate of office and Hospital furniture work for IPD Block Tower C, D & E at AIIMS, Rajkot, Gujarat**

**Name of Agency:**

|    |                                            |      |    |  |   |                                                                                       |
|----|--------------------------------------------|------|----|--|---|---------------------------------------------------------------------------------------|
| 33 | Key box (50 keys)                          | Each | 20 |  | 0 |    |
| 34 | Examination Couch                          | Each | 97 |  | 0 |    |
| 35 | Dressing Trolley with Bowl & Bucket        | Each | 81 |  | 0 |    |
| 36 | Crash Cart                                 | Each | 53 |  | 0 |    |
| 37 | Wheel Chair                                | Each | 18 |  | 0 |   |
| 38 | Mayo Trolley                               | Each | 19 |  | 0 |  |
| 39 | Stretcher Trolley                          | Each | 15 |  | 0 |  |
| 40 | Stretcher Trolley with Oxygen Gas Cylinder | Each | 10 |  | 0 |  |
| 41 | Double X-Ray View Box                      | Each | 93 |  | 0 |  |
| 42 | Emergency Trolley                          | Each | 9  |  | 0 |  |

**Budgetary Estimate of office and Hospital furniture work for IPD Block Tower C, D & E at AIIMS, Rajkot, Gujarat**

**Name of Agency:**

|                     |                                                   |      |     |  |   |                                                                                     |
|---------------------|---------------------------------------------------|------|-----|--|---|-------------------------------------------------------------------------------------|
| 43                  | Kick Bucket                                       | Each | 460 |  | 0 |  |
| 44                  | U Pattern Sliding Curtain Facility for Patient    | Sqmt | 640 |  | 0 |  |
| 45                  | S.S. Top stool for wards, ICU, Trama, observation | Each | 525 |  | 0 |  |
| 46                  | 3 fold patient screen                             | Each | 10  |  | 0 |  |
| Total Amount In Rs. |                                                   |      |     |  | 0 |                                                                                     |