

Request For Budgetary Estimate of furniture work for IPD Block Tower A&B and
Auditorium Block at AIIMS, Rajkot

HSCC/AIIMS Rajkot/ IPD Block Tower A&B & Auditorium Block /2026 Date: 04/02/2026

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 A&B and Auditorium Block 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 10 days of issue of this Notice at the following address:

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

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

Procurement Department,
HSCC (India) Ltd.

**Technical Specification of office Furniture for IPD Block Tower A&B and Auditorium
Block at AIIMS, Rajkot**
(All Images are indicative only)

1. WORK STATION



Providing, supplying, installing, testing and commissioning modular workstation system of size 1200 mm (W) × 600 mm (D) × 1200 mm (H) 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 CO₂ 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 ±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 ± 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) $\times$ 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 boards shall be of approved make such as Century, Action Tesa, Greenply or equivalent.

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-1



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 2100 mm (W) × 900 mm (D) × 750 mm (H) 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). 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 2100 mm (L) × 480 mm (D) × 2050 mm (H). 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). 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-2



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) 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). 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). 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). 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.

4. Cabin Table-3



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 (≤ 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.

5. 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 (≤ 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.

6. WORKTABLE-1

(For DUTY ROOM/DEMO ROOM0/(ASSISTANT PROFESSOR/ 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). 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 (≤ 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 ±10% 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.

7. WORKTABLE-2

(for ASSISTANT PROFESSOR/ 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 1800 mm (W) × 600 mm (D) × 750 mm (H). 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 leveling 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 (≤ 8 mg/100 g oven-dry board, perforated method) to ensure improved 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 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 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 $\pm 10\%$ 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 silent 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.

8. HIGH BACK CHAIR- 1



Providing, supplying and installing Chair, complete in all respects, as per approved technical specifications and directions of the Engineer-in-Charge / Employer. The seat shall be made of hot-pressed plywood of thickness 1.2 ± 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) $\times$ 95.4 cm (H) and the seat size shall be 54.6 cm (W) $\times$ 49 cm (D). High Resilience (HR) foam shall be used for both seat and back, moulded with a density of 45 ± 2 kg/m³ and hardness load of 16 ± 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 ± 0.05 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 ± 0.03 cm $\times$ 0.16 ± 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. 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 ± 0.5 cm with five-position locking.

The chair shall be fitted with a pneumatic height adjustment mechanism having a stroke of 9.0 ± 0.3 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 ± 0.5 cm pitch-centre diameter and 77.0 ± 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 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 ± 1 cm. The chair shall be supplied and installed complete in all respects and shall be approved by the Engineer-in-Charge / Employer.

9. MID BACK CHAIR-1



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

The seat shall be made of hot-pressed plywood of thickness 1.2 ± 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)

× 73 cm (H) and the seat size shall be 54.6 cm (W) × 49 cm (D). 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 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 $2.54 \pm 0.03 \text{ cm} \times 0.16 \pm 0.0128 \text{ cm}$, duly chrome plated. The PU armrest shall be made of black integral skin polyurethane with 50–70 Shore 'A' hardness, reinforced with MS insert, 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 $12.0 \pm 0.3 \text{ cm}$. 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 $67.0 \pm 0.5 \text{ cm}$ 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 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 $\pm 1 \text{ cm}$. The chair shall be supplied and installed complete in all respects and shall be approved by the Engineer-in-Charge / Employer.

10.HIGH BACK CHAIR-2



Providing, supplying and placing High Back Chair, complete in all respects, as per approved 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) 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/hot-pressed plywood of thickness 1.2 ± 0.1 cm, wherein the plastic inner/hot-pressed plywood of thickness 1.2 ± 0.1 cm shall be upholstered with leatherette and moulded high resilience polyurethane foam of density 45 ± 2 kg/m³ and hardness load 16 ± 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 ± 0.03 cm × 0.16 ± 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 ± 0.01 cm thick M.S. ERW tube, with chrome-plated finish. The armrests shall be height adjustable up to 6.5 ± 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 ± 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 ± 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 ± 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 ± 0.5 cm pitch-centre diameter and 75.0 ± 1.0 cm including castors. The twin-wheel castors shall be injection-moulded plastic, each having a wheel diameter of 6.0 ± 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.

11. 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. The seat shall be a cushioned type made of injection-moulded plastic outer and inner/hot-pressed plywood of thickness 1.2 ± 0.1 cm, wherein the plastic inner/ hot-pressed plywood of thickness 1.2 ± 0.1 cm shall be upholstered with leatherette and moulded high resilience polyurethane foam of density 45 ± 2 kg/m³ and hardness load 16 ± 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 ± 0.03 cm × 0.16 ± 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 ± 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.

12. Demonstration Chair with Writing Pad (For 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 ± 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 ± 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).

The four-leg powder-coated tubular structure shall be fabricated from 2.2 ± 0.03 cm diameter $\times$ 0.25 ± 0.02 cm thick M.S. ERW tubes, with front and rear legs welded together along with a connecting tube made of 1.9 ± 0.02 cm diameter $\times$ 0.2 ± 0.016 cm thick M.S. ERW tube, forming a rigid tubular frame assembly. The armrest structure shall also be made of 2.2 ± 0.03 cm diameter $\times$ 0.25 ± 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 ± 0.02 cm diameter $\times$ 0.2 ± 0.016 cm thick M.S. ERW tube and a support tube of 1.6 ± 0.02 cm diameter $\times$ 0.2 ± 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 ± 8.0 kg/m³ and hardness of 20 ± 2 for the seat and 16 ± 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.

13. 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 ± 5 , ensuring long-term resilience and seating comfort. The single seat size shall be 52.0 cm (W) × 46.5 cm (D), while the back size shall be 52.0 cm (W) × 51.5 cm (H). 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.

14.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), 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 (≤ 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.

15.Meeting Table 30-Seater



Providing, supplying and installation of a **30-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 arrangement shall be designed to accommodate 30 persons and shall comprise Modular 2-Seater Main Tables, Modular 2-Seater Shared Tables, Modular 2-Seater End Left-Hand Side Tables and Modular 2-Seater End Right-Hand Side Tables, each of size 1350 mm × 600 mm × 730 mm, along with central modular tables of size 2350 mm (W) × 850 mm (D) × 730 mm (H), as required to complete the approved 30-seater configuration. The system shall include 2-way desk name plates, desk-mounted document shelves, HDMI wire managers and all necessary accessories to form a complete, integrated and functional modular conference table system.

The work surface shall be manufactured from 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 (≤ 8 mg/100 g oven-dry board by perforated method), ensuring improved indoor air quality and compliance with EN 120:1992. All exposed edges of the MDF board shall be finished with 2 mm thick PVC edge banding, while non-exposed edges shall be finished with 0.8 mm thick PVC edge banding, applied using hot-melt glue through automatic edge-banding machines. Edge banding shall be carried out to eliminate sharp edges or corners, with all exposed edges provided with a buffing radius of 1.5 to 2.0 mm without compromising the aesthetic finish.

The under-structure shall be constructed from 25 mm thick pre-laminated MDF board conforming to IS 14587:1998, Grade II, corresponding to IS 12406:2003, with exposed and non-exposed edges finished with 2 mm and 0.8 mm PVC edge banding respectively, applied through automatic edge-banding machines using hot-melt glue. Aluminium alloy 63400-WP profiles shall be used for panel connections, enabling a knock-down construction suitable for easy transportation, handling and installation. ABS plastic access flaps shall be provided for convenient access to electrical and data cabling, and the worktops shall be available in various modular shapes to suit the approved layout.

The modesty panels shall be made of 25 mm thick pre-laminated MDF board conforming to IS 14587:1998, Grade II, corresponding to IS 12406:2003, with exposed edges sealed with 2 mm thick PVC edge banding and non-exposed edges with 0.8 mm thick PVC edge banding. A powder-coated accent metal strip shall be provided below the work surface for enhanced aesthetics, made from 0.8 mm thick CRCA steel sheet conforming to IS 513 and finished with epoxy polyester powder coating having a dry film thickness (DFT) of 40–60 microns.

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

All hardware fittings such as handles, slides, hinges, locks and sliding channels shall be of Hettich or Ebco make. Pre-laminated MDF boards and laminates shall be of approved makes such as Century/Action Tesa/Merino or Greenlam, or equivalent approved by the Engineer-in-Charge.

The complete 30-Seater Modular Meeting / Conference Table system, including all specified accessories and conference table stools (where specified), shall be structurally sound, ergonomically appropriate, aesthetically finished and fully functional. The system shall be installed, tested and commissioned to the satisfaction of the Engineer-in-Charge / Employer before final acceptance.

16. Single Bed



Providing and placing of a single wooden bed with overall dimensions of 900 mm height, 933 mm width and 2060 mm length ($\pm 5\%$ Engineering Variation), Single Bed Support structure made up of M.S. Pipe 75mmx25mmx1.6 mm thickness and 25mmx25mmx1.6mm thickness duly powder coated through seven tank process of Powder Coating with thickness of 50 microns (± 10). Head board is made of 18 mm (± 1 mm) thick ISI marked Commercial plywood (Moisture Resistant grade plywood) faced with 1.0 mm thick laminate on both sides. Tail board is made of 18 mm (± 1 mm) thick ISI marked Commercial plywood (Moisture Resistant grade plywood) faced with 1.0 mm thick laminate on both sides. Head board size: 930mmx900mm ($\pm 5\%$ Engineering Variation) and foot board of size: 930mmx450 mm ($\pm 5\%$ Engineering Variation), both side rail is made of 18mm (± 1 mm) thick ISI marked Commercial plywood (Moisture Resistant grade plywood) faced with 1.0 mm thick laminate on both sides. Mattress panels and Box Bottom Panel of Bed are made of 25 mm (± 1 mm) thick ISI marked Commercial plywood (Moisture Resistant grade plywood) faced with 1.0 mm thick laminate on both sides with, All Exposed edges of Commercial plywood to be sealed with 2mm thick PVC edge band and 0.8mm thick PVC edge-banding tape pressed at 200o C to be applied on Non-exposed edges 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. Construction: Knock Down construction. Finish: Walnut shade or single wooden Bed as approved by engineer in-charge/employer. The high-quality hardware like Roller slides, SS Hinges, minifix, SS Handels, drawer locks, wooden dowels, screw, 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).

17. Single Bed Mattress



Providing and placing of a single bed mattress of size 78 inches $\times$ 36 inches 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/dm³, 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/dm³, 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.

18. 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), 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 ± 2 kg/m³, provided with an additional top layer of super-soft PU foam of density 32 ± 2 kg/m³, and upholstered with approved fabric or leatherette. The finished seat cushion thickness shall be approximately 150 mm (± 3 mm), ensuring adequate comfort and resilience for prolonged seating.

The backrest cushioning shall be made of PU foam of density 28 ± 2 kg/m³, with two additional top layers of super-soft PU foam of density 32 ± 2 kg/m³, upholstered with approved fabric or leatherette. The backrest cushion thickness shall be approximately 175 mm (± 3 mm), providing proper lumbar and back support.

The under-structure shall be fabricated from hot-pressed plywood of thickness 1.2 ± 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 (± 2 mm) and the leg width/diameter shall be about 40 mm (± 2 mm). The arm height shall be approximately 710 mm (± 5 mm) and arm width about 120 mm (± 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.

19. 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), 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 ± 2 kg/m³, provided with an additional top layer of super-soft PU foam of density 32 ± 2 kg/m³, and upholstered with approved fabric or leatherette. The finished seat cushion thickness shall be approximately 150 mm (± 3 mm), ensuring adequate comfort and long-term resilience.

The backrest cushioning shall be made of PU foam of density 28 ± 2 kg/m³, with two additional top layers of super-soft PU foam of density 32 ± 2 kg/m³, upholstered with approved fabric or leatherette. The backrest cushion thickness shall be approximately 175 mm (± 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 ± 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 (± 2 mm), and the leg width/diameter shall be about 40 mm (± 2 mm). The arm height shall be approximately 710 mm (± 5 mm), with an arm width of about 120 mm (± 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.

20. Centre Table



Providing and supplying of a centre table of approximate size 1200 mm (W) $\times$ 600 mm (D) $\times$ 400 mm (H), 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: 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.

21. Corner Table



Providing and supplying of a centre table of approximate size 500 mm (W) × 500 mm (D) × 400 mm (H), 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.

22. Steel Almirah



Providing and placing of a steel almirah of overall size 916 mm (W) × 486 mm (D) × 1980 mm (H), 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 (± 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 ± 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. Steel Open Rack



Supply and installation of a Slotted Angle Rack (Open Type) of approximate size 910 mm (W) $\times$ 480 mm (D) $\times$ 1850 mm (H), 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 $\times$ 60 mm $\times$ 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 $\times$ 40 mm $\times$ 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), with permissible engineering variation of $\pm 5\%$, 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 Personal 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), 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 ($\pm 1\text{mm}$) 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 ($\pm 1\text{mm}$) 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 ($\pm 1\text{mm}$) 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 ($\pm 1\text{mm}$) 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 × 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 (± 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 (≤ 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 (± 3 mm) thick MR grade plywood with 0.8 mm thick high-gloss laminate. Below the top, a sliding shelf made of 25 mm (± 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 (± 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 (± 30 mm) width $\times$ 600 mm (± 30 mm) breadth $\times$ 1200/1050 mm (± 30 mm) height, 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

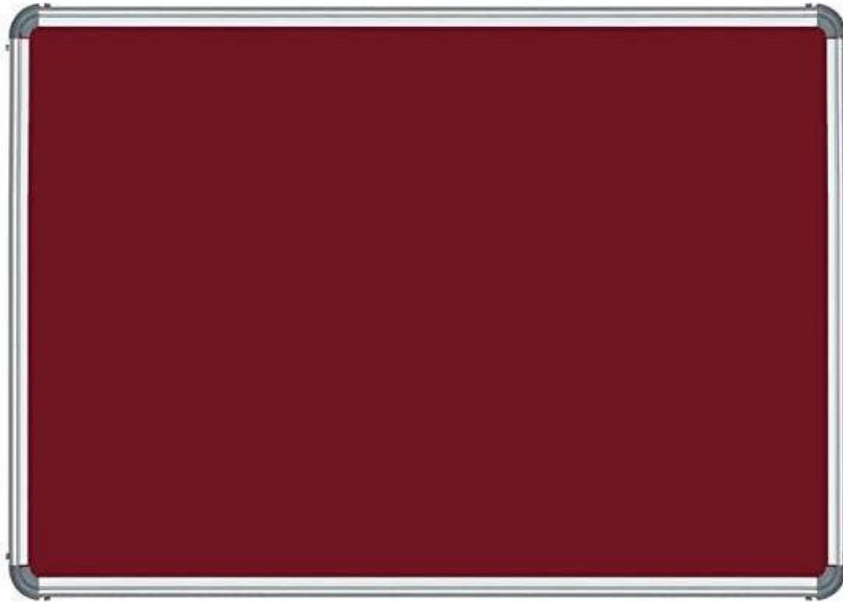


Supply and installation of a ceramic steel magnetic whiteboard of dimensions approximately 1200 mm (W) $\times$ 900 mm (H), complete in all respects and as approved by the Engineer-in-Charge / Employer. The writing surface shall be white in color, smooth, and suitable for use with markers, providing 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), complete in all respects and as approved by the Engineer-in-Charge / Employer. 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), complete in all respects and as approved by the Engineer-in-Charge / Employer. 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 a 50-key keyboard storage unit (key board) complete in all respects and as approved by the Engineer-in-Charge / Employer. The keyboard unit shall be made of 25 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 (≤ 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 shall be sealed with 2 mm thick PVC edge banding on the user-facing sides, while 0.8 mm thick PVC edge-banding shall be applied on top and bottom edges using hot-melt glue through automatic edge-banding machines. Edge finishing shall ensure that no sharp corners remain, with all exposed edges having a smooth buffing radius of 1.5–2 mm without affecting the aesthetic appeal.

The unit shall be provided with a transparent front door made of 5 mm thick glass, fitted with a lock and key for secure storage of keys. Each key hook shall be made of stainless-steel grade 304, ensuring corrosion resistance, strength, and long-term durability. Commercial plywood and Laminate Make: Centuryply/Greenply/Kitply/Merino/Greenlam or equivalent/or as approved by engineer in-charge/employer)

The complete keyboard unit shall be structurally robust, aesthetically finished, fully functional, and ergonomically designed to hold 50 keys safely. It shall come with a warranty of 5 years and shall be installed, aligned, tested, and accepted only after inspection and approval by the Engineer-in-Charge / Employer.

Auditorium Block

34. Cabin Table for Vip Room/ Manager Room



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 (≤ 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 $\pm 5\%$ 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 $\pm 5\%$ 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.

35. Worktable For Conference Rooms



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 1800 mm (W) × 600 mm (D) × 750 mm (H). 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 leveling 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 (≤ 8 mg/100 g oven-dry board, perforated method) to ensure improved 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 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 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) $\times$ 480 mm (D) $\times$ 650 mm (H). The drawer size shall be 120 mm (H) $\times$ 430 mm (W), and the filing cabinet drawer size shall be 350 mm (H) $\times$ 430 mm (W) with $\pm 10\%$ 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 silent 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.

36. High Back Chair for Manager Room



Providing, supplying and placing High Back Chair, complete in all respects, as per approved 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) 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/hot-pressed plywood of thickness 1.2 ± 0.1 cm, wherein the plastic inner/hot-pressed plywood of thickness 1.2 ± 0.1 cm shall be upholstered with leatherette and moulded high resilience polyurethane foam of density 45 ± 2 kg/m³ and hardness load 16 ± 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 ± 0.03 cm × 0.16 ± 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 ± 0.01 cm thick M.S. ERW tube, with chrome-plated finish. The armrests shall be height adjustable up to 6.5 ± 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 ± 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 ± 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 ± 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 ± 0.5 cm pitch-centre diameter and 75.0 ± 1.0 cm including castors. The twin-wheel castors shall be injection-moulded plastic, each having a wheel diameter of 6.0 ± 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.

37. Visitor Chair Manager Room/Conference Rooms



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. The seat shall be a cushioned type made of injection-moulded plastic outer and inner/hot-pressed plywood of thickness 1.2 ± 0.1 cm, wherein the plastic inner/ hot-pressed plywood of thickness 1.2 ± 0.1 cm shall be upholstered with leatherette and moulded high resilience polyurethane foam of density 45 ± 2 kg/m³ and hardness load 16 ± 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 ± 0.03 cm × 0.16 ± 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 ± 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.

38. Main Chair for Conference Room



Providing and Placing High Back Chair with overall size of 76.1 cm W x 76.1 cm D x 96.5 – 114 cm H x 43.1 – 53.1 cm Seat Height. The seat is cushioned seat made of injection molded plastic outer & inner. Plastic inner is upholstered with leatherette and molded high resilience polyurethane foam of density 45 ± 2 kg/m³, & hardness load of 16 ± 2 kgf as per IS:7888 for 25% compression. Seat Size is 47.0 W cm x 48.0 D cm. The back is cushioned

made of PU foam with insitu molded M.S. ERW round tube of size $1.9 \pm 0.03 \text{ cm} \times 0.16 \pm 0.0128 \text{ cm}$, upholstered with leatherette. The back size is $47.7 \text{ W cm} \times 76.4 \text{ D cm}$. The armrest top is molded from polyurethane and mounted on to a drop lift adjustable type tubular armrest support made of $\varnothing 3.81 \pm 0.03 \text{ cm} \times 0.2 \pm 0.01 \text{ cm}$ thick M.S. ERW tube having chrome plated finish. The armrest is height adjustable up to $6.5 \pm 0.5 \text{ cm}$ in 5 steps. The adjustable tilting mechanism is designed with following features : 360° revolving type, front-pivot for tilt with feet resting on ground and continuous lumbar support ensuring more comfort, tilt tension adjustment can be operated in seating position, 5-position tilt limiter giving option of variable tilt angle to the chair, Seat/back tilt ratio 1:2, The mechanism housing is made up of HPDC aluminium black powder coated. Seat depth adjustment is integrated in the seat through a sliding mechanism. Seat depth adjustment range is of $6.0 \pm 0.5 \text{ cm}$. Back frame is connected to the up/down mechanism in plastic T spine. It can be adjusted in the range of 7.42 ± 0.5 comfort the comfortable back support to suit individual need. The pneumatic height adjustment has an adjustment stroke of $10.0 \pm 0.3 \text{ cm}$. The pedestal is high pressure die cast polished aluminium & fitted with 5 nos. of twin wheel castors. The pedestal is $65.0 \pm 0.5 \text{ cm}$ pitch centre dia. ($75.0 \pm 1.0 \text{ cm}$ with castors). 5 nos. of twin wheel castors are injection molded in plastic having $6.0 \pm 0.1 \text{ cm}$ wheel diameter and assembled to pedestal.

39. Demonstration Chair with Writing Pad (CONFERENCE ROOMS)



Supply and Installation of Desk-let chair, the seat sub-assembly shall be made up of $1.2 \pm 0.1 \text{ cm}$ thk plywood upholstered with moulded foam and polyester fabric and shall be covered with an injection moulded polypropylene outer cover. The seat should tip-up when not in use and this feature should be used while stacking the chairs horizontally. The back sub-assembly shall be made up of injection -moulded polypropylene inner upholstered with moulded foam and polyester fabric and shall be covered with an injection moulded polypropylene outer cover. The contoured back with width extension at the bottom area shall be designed to give comfort to lower back. The back flexing feature shall allow the back to tilt by 9 ± 2 degree to aid the user in adopting a comfortable reclining posture. The dimensions of back shall be $45.2 \text{ cm (W)} \times 44.6 \text{ cm (H)}$.

and of seat shall be 47.0cm (W)X 50.0cm(D). The powder coated 4 leg structure shall be made of 2.2+/-0.03cm diameter X 0.25+/-0.02cm thick M.S.E.R.W. tube front and rear leg shall be welded along with connecting tube made of 1.9+/-0.02cm diameter X 0.2+/-0.016cm thick M.S.E.R.W tube to form the tubular frame assembly. The armrests structure shall be made up of 2.2+/-0.03 cm diameter X 0.25+/-0.02cm thick M.S.E.R.W. tube welded to the tubular frame structure and having a scratch-resistant ABS arm top. The chairs should be stacked horizontally when not in use. The full desk let assembly shall be flip-up type and shall be made up of extension tube of 1.9+/-0.02cm diameter X 0.2+/-0.016cm thick M.S.E.R.W. tube and a support tube on L.H. side of 1.6+/-0.02cm diameter X 0.2+/-0.016cm thick M.S.E.R.W. tube on which an scratch resistant ABS desk let top shall be fixed and covered on bottom side with a bottom cover. The polyurethane foam shall be moulded with density= 70.0+/-8.0kg/m³ and hardness=20+/-2 for seat and 16+/-2 for back at 25% compression. Overall Dimensions of Chair shall be Seat Height - 47.5 cm, Height - 89.0cm, Width & Depth of Chair as measured from pedestal - Width-71.0cm and Depth-82.0 cm. Chair as approved by engineer in-charge/employer.

40. 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), 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 ± 2 kg/m³, provided with an additional top layer of super-soft PU foam of density 32 ± 2 kg/m³, and upholstered with approved fabric or leatherette. The finished seat cushion thickness shall be approximately 150 mm (± 3 mm), ensuring adequate comfort and resilience for prolonged seating.

The backrest cushioning shall be made of PU foam of density 28 ± 2 kg/m³, with two

additional top layers of super-soft PU foam of density $32 \pm 2 \text{ kg/m}^3$, upholstered with approved fabric or leatherette. The backrest cushion thickness shall be approximately 175 mm ($\pm 3 \text{ mm}$), providing proper lumbar and back support.

The under-structure shall be fabricated from hot-pressed plywood of thickness $1.2 \pm 0.1 \text{ cm}$, 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 ($\pm 2 \text{ mm}$) and the leg width/diameter shall be about 40 mm ($\pm 2 \text{ mm}$). The arm height shall be approximately 710 mm ($\pm 5 \text{ mm}$) and arm width about 120 mm ($\pm 5 \text{ mm}$), 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.

41. One Seater Sofa



Supply and Installation of single-Seater sofa, 1) SEAT FOAM: The seat is made up of PU foam in Density $28 \pm 2 \text{ kg/cu.mtr}$ with an additional top layer of super soft PU foam in Density $32 \pm 2 \text{ kg/cu}$, upholstered with fabric or leatherette.

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

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

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

42. Centre Table



Providing and supplying of a centre table of approximate size 1200 mm (W) × 600 mm (D) × 400 mm (H), 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: 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.

43. Steel Almirah



Providing and placing of a steel almirah of overall size 916 mm (W) × 486 mm (D) × 1980 mm (H), 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 (± 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 ± 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.

44. Steel Open Rack



Supply and installation of a Slotted Angle Rack (Open Type) of approximate size 910 mm (W) $\times$ 480 mm (D) $\times$ 1850 mm (H), 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 $\times$ 60 mm $\times$ 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 $\times$ 40 mm $\times$ 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.

45. 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), with permissible engineering variation of $\pm 5\%$, 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.

46. 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 × 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.

Budgetary Estimate of furniture work for IPD Block Tower A&B and Auditorium Block at AIIMS, Rajkot

Name of Agency:

S. NO.	Name of Items	Unit	Item Quantity	Rate per Unit inclusive of all taxes+ 3 year warranty	Amount in Rs.
1	WORK STATION	Each	97		
2	CABIN TABLE -1	Each	2		
3	CABIN TABLE- 2	Each	13		
4	Cabin Table -4	Each	20		
5	CABIN TABLE-4	Each	16		
6	WORKTABLE-1	Each	47		
7	WORKTABLE-2	Each	56		
8	HIGH BACK CHAIR-1	Each	22		
9	MID BACK CHAIR-1	Each	93		
10	HIGH BACK CHAIR -2	Each	39		
11	Visitor Chair	Each	402		
12	Demonstration Chair with Writing Pad	Each	40		
13	3-Seater Waiting Chair	Each	107		
14	Meeting Table 16-Seater	Each	1		
15	Meeting Table 30-Seater	Each	1		
16	SINGLE BED	Each	27		

Budgetary Estimate of furniture work for IPD Block Tower A&B and Auditorium Block at AIIMS, Rajkot

Name of Agency:

S. NO.	Name of Items	Unit	Item Quantity	Rate per Unit inclusive of all taxes+ 3 year warranty	Amount in Rs.
17	Single Bed Mattress	Each	27		
18	Three Seater Sofa	Each	7		
19	Two Seater Sofa	Each	43		
20	CENTER TABLE	Each	8		
21	CORNER TABLE	Each	42		
22	STEEL ALMIRAH	Each	27		
23	Steel Open Rack	Each	30		
24	Steel Almirah with Glass Shutter	Each	123		
25	4 Drawer Personal Locker	Each	39		
26	Wooden Storage	Sqmt	32		
27	Stainless Steel Dustbin	Each	112		
28	Dustbin Large 100 Liter	Each	3		
29	Wooden Podium	Each	5		
30	White board	Each	70		
31	Pinup Fabric board	Each	20		
32	Notice board with front cover	Each	20		
33	Key box (50 keys)	Each	20		

Budgetary Estimate of furniture work for IPD Block Tower A&B and Auditorium Block at AIIMS, Rajkot

Name of Agency:

S. NO.	Name of Items	Unit	Item Quantity	Rate per Unit inclusive of all taxes+ 3 year warranty	Amount in Rs.
34	Cabin Table for Vip Room/ Manager Room	Each	2		
35	Worktable For Conference Rooms	Each	2		
36	HIGH BACK CHAIR for Manager Room	Each	2		
37	Visitor CHAIR for Manager Room	Each	4		
38	Main Chair for Conference Room	Each	4		
39	Demonstration Chair with Writing Pad (DEMO ROOM)	Each	200		
40	Three-Seater Sofa	Each	2		
41	One Seater Sofa	Each	2		
42	Centre Table	Each	5		
43	Steel Almirah	Each	16		
44	Steel Open Rack	Each	24		
45	Steel Almirah with Glass Shutter.	Each	4		
46	Stainless Steel Dustbin	Each	6		
Total Amount in Rs.					