

**Request For Budgetary Estimate for Boys Hostel, Girls Hostel and Lecture Hall at
Bhausahab Hire Government Medical College, Dhule, Maharashtra**

HSCC/GMC-Dhule/Hostel Block/Furniture/2026

Date: 25/05/2026

HSCC (India) Ltd. intends to invite on-line budgetary estimate from eligible bidders for supply, Installation testing and commissioning of furniture work for Boys Hostel, Girls Hostel and Lecture Hall at Bhausahab Hire Government Medical College, Dhule, Maharashtra.

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. Bhausahab Hire Government Medical College, Dhule, Maharashtra.

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 21 days of issue of this Notice at the following address:

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

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

Procurement Department,
HSCC (India) Ltd.

**Technical Specification for Boys Hostel, Girls Hostel and Lecture Hall at Medical College
Dhule, Maharashtra**

(All Images are indicatives only)

1. Wooden Almirah



Providing and placing of wooden wardrobe at site. The Size of Wardrobe shall be 900 mm Width, Height: 1850mm, Depth of almirah: 480 mm approx. ($\pm 5\%$ Engineering Variation), Body panels are made of 18 mm (± 1 mm) thick ISI marked Commercial plywood (Moisture Resistant grade plywood) finished with 1.0 mm thick laminate on both sides, All the exposed edges are edge banded with 2 mm thick PVC edge banding. Openable Doors/Sliding Doors shall be made of 18 mm (± 1 mm) thick ISI marked Commercial plywood (Moisture Resistant grade plywood) finished with 1.0 mm thick laminate on both sides all the exposed edges are edge banded with 2 mm thick PVC edge banding. Side panel are made of 18 mm (± 1 mm) thick ISI marked Commercial plywood (Moisture Resistant grade plywood) finished with 1.0 mm thick laminate on both sides, all the exposed edges are edge banded with 2 mm thick PVC edge banding, 4/5 nos. Drawer/shelf components shall be fabricated from 25 mm thick ISI-marked Commercial Plywood of Moisture Resistant (MR) grade, and shall be finished with 1.0 mm thick laminate on both sides. All the exposed edges are edge banded with 2 mm thick PVC edge banding. Body back and drawer bottom are made of 18 mm (± 1 mm) thick ISI marked Commercial plywood (Moisture Resistant grade plywood) finished with 1.0 mm thick laminate on both sides. 5 mm thick mirror shall be provided and fitted in the wooden wardrobe. The size of the mirror shall be 900 mm–1000 mm (Length) $\times$ 300 mm–400 mm (Width). The mirror shall be fixed with wooden beading of 30 mm–40 mm width and 10 mm–12 mm thickness (or as approved by engineer in-charge/employer). The mirror shall be of make Saint-Gobain/Modi Guard or equivalent or as approved by the Engineer-in-Charge/Employer. A stainless steel (SS 304 grade) hanger rod of 25 mm diameter and 2 mm thickness shall be provided in the almirah, the almirah shall be provided with scribe moulding to cover minor gaps or uneven edges at the junctions where the wardrobe meets

walls, ceiling, or any other adjoining surfaces, as applicable. Hardware: The high-quality hardware like Roller slides, Stainless Steel Hinges, L-brackets, Mini fix, Stainless Steel Handles (6 inches), locks, wooden dowels, screw, Aluminium 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.

2. Single Bed with Metal Frame



Providing, supplying, and placing of Metal Single Bed complete in all respects, Clear size of the bed shall be 915 mm (W) × 2050 mm (L) × 450 mm (H) with permissible engineering variation of $\pm 5\%$. The leg frame shall be fabricated from MS square tube of size 50 mm × 50 mm × 2.0 mm thick and Legs shall be provided with suitable high-quality end caps to prevent damage to flooring and corrosion, two additional legs shall be provided at the middle portion of the bed for enhanced strength and stability. The height of the bed at leg side shall be 480 ± 10 mm & head board shall be $900\text{mm} \pm 10$ mm. The bed mattress panel shall be made of MS square tube 50 X 50 X 2.0 mm thick. The beds mattress platform shall be made of 25 mm thick laminated ISI marked Commercial plywood (Moisture Resistant grade plywood), thickness of laminate/Mica shall be 1.0 mm, All the exposed edges are sealed with 2 mm thick PVC edge banding. bed mattress panel shall be supported by 05 nos. MS square tube 30mmx30mm X 1.6 mm thick. Leg and Head frame shall be connected to each other with MS tube of size 50mmx40mm X 2.0 mm thick. and two extra leg shall also be provided in middle of the bed with adjacent joint with MS tube of size 50mmx40mm X 2.0 mm, The beds head and foot board shall be decorated with 25 mm thick

laminated ISI marked Commercial plywood (Moisture Resistant grade plywood). All metal structures shall be joined by MIG / CO₂ / Electric arc welding, ensuring smooth joints and proper structural strength. All steel structural components shall be processed and made from virgin material sourced from SAIL/Tata Steel or equivalent manufacturer or as approved by employer. All metal components shall be pre-treated through a multi-stage process including degreasing, derusting, phosphating, and passivation. Final finish shall be Epoxy polyester powder coating with thickness of 60–70 microns ($\pm 10\%$), conforming to relevant standards. Powder coating shall conform to IS: 13871. Coated components shall be tested regularly for scratch resistance up to 4H. Each corner of the bed shall be provided with a U-shaped support to ensure proper positioning and stability of the mattress. Load bearing capacity of bed shall be 250 kgs, Metal Single Bed as approved by engineer in-charge/employer.

3. Bed Side Locker



Supply and Installation of Bed Side table with one lockable drawer and one open shelf, Overall Size of bed side table: Depth - 450 mm, Width: 440 mm, Height: 510 mm, ($\pm 5\%$ Engineering Variation) Material : Body and drawer panels of Bed side table are made of 18 mm thick ISI marked Commercial plywood (Moisture Resistant grade plywood) faced with 1.0 mm thick laminate on both sides of approved shade, All Exposed edges of Ply board to be sealed with 1 mm thick PVC edge band and 0.8mm thick PVC edge-banding tape to be applied on Non-exposed edges pressed at 200o C with the help of hot-melt glue through fit edge-banding machines. The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing. All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel. All Wooden panel are stained to

pass 4H test of scratch resistivity. Hardware: The high quality hardware shall be use (like: Drawer Handel, Roller slides/channel, Hinges, mini-fix, dowels, locks, screw etc), make of hardware Hettich/Ebco/or as approved by engineer in-charge/employer. (Ply board and Laminate Make: CENTURY PLY/Action Tesa/GREENPLY or as approved by engineer in-charge/employer)

4. Single Bed Mattress



Supply and placing of single bed Mattress with clear Size 915mmWX 1981mmL x 100 mm thick)/ mattress as per size of single bed, Thickness of Mattress is 100mm, Number of Layers : Two Layers, Thickness of Core Layer 1 (± 2 mm) :150 mm, Thickness of Top Layer (± 2 mm) 25 mm, Material of Core Layer 1 : PU Bonded Foam, Quilting: Both Side Quilting (Double Sided), Quilting Material: PU Foam, Density of Quilting Material (± 2 Kg/m³): 18 Kg/m³, Thickness of Quilting (± 2 mm): 14 mm, Core Layer 1 Density: 80 Kg/m³, Top Layer Density: 28 Kg/m³, Compression Set for PU Foam (non quilting) as per IS 7888 1976 (Max): 10 %, Resistance to Ageing for PU Foam : Shall meet the requirement of IS 7933 Latest, Resistance to Ageing for Rubberised Coir Foam: Shall meet the requirement of IS 8391 Latest, Durability Test for PU Foam as per: IS 7933 Latest, Resistance to Flexing for Rubberised Coir Foam: Shall meet the requirement of IS 8391 Latest, Durability Test for Complete Mattress: loss of height not more than 13 mm (as per ASTM 1566), Brand of Mattress: sleep well/kurlon or mattress as approved by engineer in-charge/employer.

5. Single Bed Sheet



Supply of Single Bed sheet with following specification

Material

Bedsheet shall be made of **100% pure cotton fabric**.

Cotton shall be **long staple or combed cotton** for softness and durability.

Fabric shall be breathable, skin-friendly, and suitable for all weather conditions.

Fabric Quality

Fabric type: **Plain weave / Percale / Satin weave** depending on design.

Colour fast, shrink resistant, and anti-pilling.

Smooth, soft finish and free from weaving defects.

Thread Count

Minimum **120–144 TC** for standard institutional use.

Premium category: **180–300 Thread Count**.

GSM (Fabric Weight)

Minimum 110–140 GSM (standard quality).
Higher GSM preferred for durability in institutional.
Size: 1500mmWx 2350mm Length

Colour & Design

Printed/plain/hospital white/pastel shades or as approved by engineer in-charge/employer

Stitching & Finish

Proper hemming on all sides.
Minimum 1 cm folded stitch.
No loose threads or defects.
Strong stitching suitable for Institution/hospital laundering.

Compliance / Certifications (Optional for tender)

ISO 9001 (Quality Management).
Brand: Bombay dyeing or equivalent or as approved by engineer in-charge/employer.

6. Pillow with Cover

Supply of Pillow with cover with following specification:

Standard size: **450 mm × 700 mm (18" × 28")** (Tolerance: ±10 mm) or as per hostel requirement.

Pillow Filling Material

Virgin polyester staple fibre/microfiber/hollow conjugated fibre/or approved by employer.
 Anti-allergic and dust-mite resistant.
 Fibre denier: 7–15 denier (approx.).
 Fibre should be: Odour free, Non-toxic, Non-clumping and Long lasting resilience.

Outer Cover Fabric (Pillow Inner)

100% cotton or cotton-rich blended fabric.
 Minimum **Thread Count: 180 TC**.
 GSM: 110–140 GSM.
 Fabric should be: Soft, Breathable, Durable and Colour fast.
 Colour: White or approved shade.

Pillow Cover (Removable)

Separate washable pillow cover to be supplied with each pillow.
 Fabric: 100% cotton or poly-cotton.
 Thread count: Minimum 144 TC.
 GSM: 110–140 GSM.
 Closure: Envelope type / zipper.
 Colour: White or approved hospital colour.
 Washable and shrink-resistant.

Construction: Double stitched edges.

Proper sealing to prevent fibre leakage.
 Quilted / plain design as per approval.
 Shape retention after repeated use.
 Pillow weight: **700 gm to 900 gm**.

Testing / Standards

The product should comply with: Colour fastness to washing, Shrinkage within permissible limits and Fibre resilience and durability As per relevant BIS / textile standards.

Brand: Bombay dyeing or equivalent or as approved by engineer in-charge/employer.

7. Study Table



Providing and placing of study Table with size: Length:900mm, Width: 600mm, Height 750mm. The structure consists of a C-frame and tubular framework manufactured from cold rolled close annealed (CRCA) steel, ensuring strength, durability, and stability. The complete fabrication is carried out using only the MIG welding process for superior joint quality and structural integrity. The tabletop is made from 18 mm thick pre-laminated MDF board of size 900 x 600 mm, with all exposed side edges protected using 2 mm thick PVC edge banding applied through a through-feed edge banding machine for a smooth and durable finish.

The table is provided with a modesty panel made from 1.2 mm thick dotted embossed CRCA sheet with a height of 200 mm positioned on the visitor's side, enhancing both aesthetics and privacy. For additional rigidity, horizontal tie members made from 25 x 25 x 1.2 mm thick CRCA pipes are provided, with threaded 4 mm thick sleeves welded into the tie members to ensure strong and rigid frame joints. A footrest fabricated from 24 x 60 x 1.2 mm thick CRCA pipe is incorporated for user comfort and structural support.

The unit includes a single drawer of size 350 mm width, 165 mm height, and 475 mm depth, fitted with Ebco/Hettich make telescopic channels for smooth sliding operation. A multipurpose locking arrangement is provided for secure storage. The side frames are manufactured from 1.2 mm thick pressed and formed CRCA sheet in C-section profile, welded together with 25 x 50 x 1.20 mm thick CRCA pipes to provide enhanced strength and stability.

All pipe ends are fitted with curved PPCP caps for safety and improved appearance. Four drum-type levellers are provided at the bottom to maintain proper alignment on uneven surfaces while also preventing scratches on both the floor and the product. The table is supplied in knock-down condition for ease of transportation and installation. All steel components are processed through a seven-tank anti-corrosion treatment and finished with epoxy powder coating for long-lasting corrosion resistance and a superior finish. The product is designed with smooth edges and without any sharp corners to ensure user safety.

The high-quality hardware like Roller slides, SS Hinges, Mini fix, SS handles, locks, wooden dowels, screw, shall be used of Hettich, EBCO make or equivalent or as approved by engineer in charge/employer, MDF Board and Laminate Make: Century/Kit ply/Green Ply/Greenlam/Merino or equivalent/or as approved by engineer in-charge/employer) Load Bearing Capacity- of Table Top: 80 Kg. Table as approved by engineer in-charge/employer. All Wooden panels shall be stained to approved colour finished with melamine and scratch resistivity to pass 4H test.

8. Chair For Study Table



Supply Installation of Study chair, under structure Frame: - Stainless steel (SS 304 grade) oval tube with 32 mm diameter with 2.0 mm thickness and provided with a base plate for seat fixing. Seat: The Seat shall be moulded with 12mm thick ISI marked hot-pressed commercial plywood upholstered with black colour Leatherette upholstery covers and moulded Polyurethane foam, The High Resilience polyurethane foam shall be moulded with density= 45 ± 2 kg per meter cube and hardness load 16 ± 2 kgf as. per IS:7888 for 25% compression. The dimensions of seat shall be 51.0cm(W) x 48.0cm(D) ($\pm 10\%$ Engineering Variation). Thickness of seat foam shall be 60 mm.

Back: - The back shall be moulded with 12mm thick ISI marked hot-pressed commercial plywood upholstered with black colour Leatherette upholstery covers and moulded Polyurethane foam, The HR polyurethane foam shall be moulded with density= 45 ± 2 kg per meter cube load 16 ± 2 kgf as. per IS:7888 for 25% compression. The Back size shall be 45cm W x 60.5cm H, The armrests top is moulded from PU and tubular armrest support made of Stainless steel(SS 304 grade) 32 mm diameter with 2.0 mm thickness tube, Thickness of foam shall be 50 mm, Over all dimensions of study Chair: Height from ground 92.5cm. Seat height- 45.0 cm. Dimensions tolerance/variations shall be within ± 1 cm, **Study Chair as approved by engineer in-charge/employer.**

9. Single Seater Sofa



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

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

- 2) **BACKFOAM:** The back is made of PU foam with Density 28 ± 2 kg/cu meter with two . additional top layer of super soft foam of density 32 ± 2 kg/cu .metre, upholstered with synthetic leather. Backrest Cushion Thickness ± 3 (mm): 175mm

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

4 (LEG ASSEMBLY : made of solid wood/teak wood, size of sofa; (W) 1000 mm (D) 950 mm(H) mm, seat (H) 450 mm, Sofa Le 860g Height ± 2 (mm): 150 mm, Sofa Leg Width / Diameter ± 2 (mm): 60 mm, Arm Height ± 5 (mm): 710mm, Arm Width ± 5 (mm): 150mm, . Sofa: as approved by Engineer In Charge/employer.

10. Three-Seater Sofa



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

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

- 2) BACKFOAM: The back ismade of PU foam with Density 28 ± 2 kg/cu .meter with two additional top layers ofsuper soft foam of density 32 ± 2 kg/cu .metre ,upholstered with synthetic leather. Backrest Cushion Thickness ± 3 (mm): 175mm

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

4 (LEG ASSEMBLY :made of solid wood/teak wood, size of sofa; (W) 2060 mm (D) 950 mm(H) 860 mm, seat (H) 450 mm, Sofa Leg Height ±2(mm): 150 mm, Sofa Leg Width / Diameter ±2 (mm): 60 mm, Arm Height ±5 (mm): 710mm, Arm Width ±5 (mm): 150mm, Sofa: as approved by Engineer In Charge/employer.

11. Centre Table



Supplying and installation of approved centre table. The centre table shall be of overall size 1200 mm (W) × 600 mm (D) × 400 mm (H). The table top shall be fabricated from 32 mm thick plywood board of approved make, finished on both sides with 1 mm thick laminate veneer and provided with PU finish having scratch resistance of minimum 2H hardness to ensure durability and aesthetic appearance.

The engineered wood material used shall be of E1 grade low-emission board with zero urea formaldehyde emission complying with ≤ 8 mg/100 g oven dry board (perforated method), ensuring better indoor air quality and environmental compliance. The material shall conform to EN 120:1992 standards.

All exposed edges of the table top shall be sealed with 2 mm thick PVC edge banding tape, while all unexposed edges shall be sealed with 0.8 mm thick PVC edge banding tape using

hot melt adhesive applied through automated edge banding machines at controlled temperature of approximately 200°C to ensure strong bonding, moisture resistance and long-term durability.

The under structure, frame and legs of the centre table shall be fabricated from Stainless Steel 304 square pipes of size 55 mm × 55 mm with 1.6 mm thickness. The stainless-steel members shall be properly welded, ground and finished to a smooth surface ensuring structural stability, corrosion resistance and aesthetic finish. The framework shall be designed to provide adequate strength and stability under normal usage without wobbling or deformation.

The complete centre table shall be rigid, levelled and well-finished with all joints properly aligned. The item shall include all materials, labour, fabrication, polishing/laminate finishing, transportation, handling, installation and all incidental works complete in all respects as approved by the Engineer-in-charge.

12. Corner Table



Supplying and installation of approved corner table. The corner table shall be of overall size 600 mm (W) × 600 mm (D) × 400 mm (H). The table top shall be fabricated from 32 mm thick plywood board of approved make, finished on both sides with 1 mm thick laminate veneer and provided with PU finish having scratch resistance of minimum 2H hardness to ensure durability and aesthetic appearance.

The engineered wood material used shall be of E1 grade low-emission board with zero urea formaldehyde emission complying with ≤ 8 mg/100 g oven dry board (perforated method), ensuring better indoor air quality and environmental compliance. The material shall conform to EN 120:1992 standards.

All exposed edges of the table top shall be sealed with 2 mm thick PVC edge banding tape, while all unexposed edges shall be sealed with 0.8 mm thick PVC edge banding tape using hot melt adhesive applied through automated edge banding machines at controlled temperature of approximately 200°C to ensure strong bonding, moisture resistance and

long-term durability.

The under structure, frame and legs of the corner table shall be fabricated from Stainless Steel 304 square pipes of size 55 mm × 55 mm with 1.6 mm thickness. The stainless-steel members shall be properly welded, ground and finished to a smooth surface ensuring structural stability, corrosion resistance and aesthetic finish. The framework shall be designed to provide adequate strength and stability under normal usage without wobbling or deformation.

The complete centre table shall be rigid, levelled and well-finished with all joints properly aligned. Table as approved by the Engineer-in-charge.

13. 6-Seater Dining Table



Supplying and installation of 6-seater dining table. The overall size of the dining table shall be 1800 mm Length × 1200 mm width × 750 mm height. The table top shall be fabricated from 25 mm thick MDF board of approved make such as [Century Ply](#)/Green ply/[Action TESA](#) or equivalent approved. The top surface shall be finished with PU paint coating having minimum 2H surface hardness and 75% gloss level as per approved colour chart. The table top shall incorporate approved combination colour graphics at the centre and shall have specially profiled edges finished with brown laminate to provide user comfort and protection against edge damage.

The under structure of the table shall consist of bent mild steel tubular framework fabricated from 38 mm diameter, 2 mm thick MS pipe sections, accurately bent, welded and finished with approved powder coating. The framework shall be rigid, stable and capable of supporting the table top without deformation or wobbling under normal usage. The table top shall be securely fixed to the under structure using stainless steel machine screws and approved fixing accessories.

The table legs shall also be fabricated from 38 mm diameter MS tubular sections with powder-coated finish and shall be properly connected to the under structure and table top to form a durable and stable assembly.

Plastic glides/shoes shall be provided and fixed at the underside of the structure to prevent damage to the flooring during stacking, shifting or usage. All exposed metal surfaces shall be smooth, rust resistant and free from sharp edges, dents or weld marks. The complete table shall be designed for durability, ease of maintenance and suitability for dining/institutional applications.

All hardware and fittings such as screws, mini-fix fittings, dowels, hinges, handles, roller slides and other accessories wherever applicable shall be of high quality and of approved makes such as [Hettich](#)/Ebco or equivalent approved. Table as approved by the Engineer-in-Charge/Employer.

14. Dining Chair



Providing and placing of approved dining. The chair seat and backrest shall be manufactured from injection-moulded high-impact strength polypropylene polymer compound with indoor-grade UV resistance, ensuring durability, colour stability and resistance against normal wear and tear. The seat and back shall be ergonomically designed for comfortable seating and shall have smooth finished edges free from sharp projections, cracks or surface defects.

The supporting leg assembly and tubular framework shall be fabricated from Stainless Steel 202 grade stainless steel tubes of approved quality with buff-polished shiny finish. The tubular sections shall comprise stainless steel tubes of size 25.2 ± 0.03 mm diameter $\times$ 1.6 ± 0.128 mm thickness with accurately bent and welded to form a rigid and stable frame structure. All welded joints shall be smooth ground and polished uniformly to achieve neat appearance and corrosion resistance.

The bottom shoes/end caps shall be made from high-impact strength polypropylene polymer compound with indoor-grade UV resistance and shall be pressure fitted securely to the tubular frame to protect flooring surfaces and reduce movement noise. The overall height of chair shall be 900 mm with seat height of 450 mm. The seat size shall be 480 mm (W) $\times$ 532 mm (D) and the backrest size shall be 480 mm (W) $\times$ 455 mm (H), chair as approved by the Engineer-in-Charge/Employer.

15. Stainless Steel Dustbin



Supplying and installation of approved stainless-steel dustbin. The dustbin shall be of overall size 10-inch diameter × 14-inch height with minimum storage capacity of 15-20 litres. The body, lid and associated components shall be manufactured from non-magnetic stainless-steel Grade 202 of minimum 1.0 mm thick sheet, free from dents, sharp edges, surface irregularities and manufacturing defects. The stainless-steel surface shall have smooth brushed/matte finish with neatly rolled edges for safe handling and enhanced durability.

The dustbin shall be provided with a properly fitted stainless-steel lid and sturdy side handle for easy handling and maintenance. The unit shall be leg-operated type, complete with heavy-duty pedal mechanism designed for smooth and hygienic hands-free operation. The pedal assembly and linkage mechanism shall be fabricated from corrosion-resistant material and securely fixed to ensure long-term performance without wobbling or failure during repeated use.

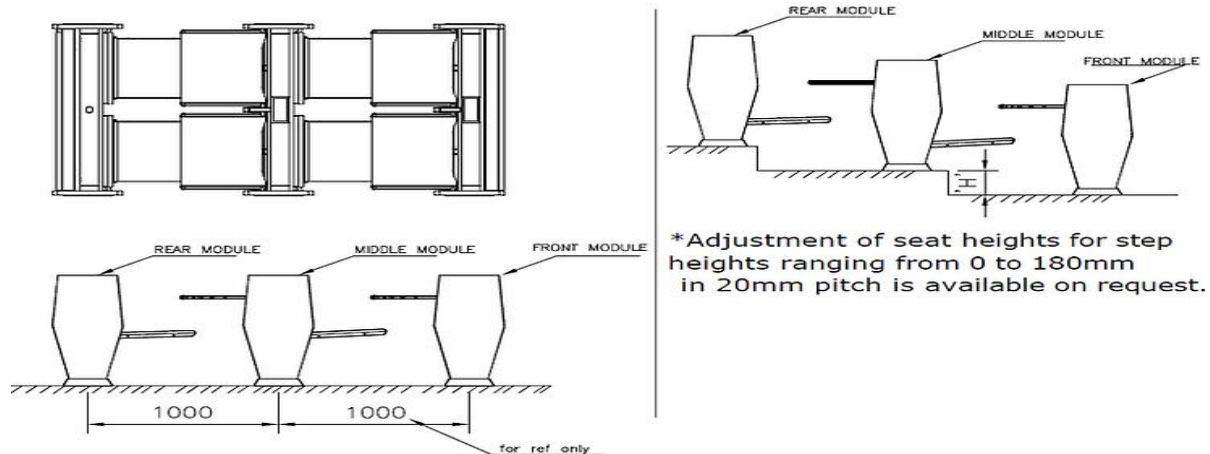
The inner and outer surfaces shall be easy to clean, rust resistant and suitable for indoor use in commercial areas. The base shall be stable and provided with non-marking support/rubber bushes wherever required to avoid floor scratches and movement during operation. All joints and edges shall be properly finished and polished. Dustbin as approved by the Engineer-in-Charge/Employer.

16. 2-seater Lecture theatre desk cum Bench



Supply and Installation of 2-seater with desk for front module, 2-seater with seat & desk for middle module and 2-seater with seat for rear module

- Desk with its unique form, offers foldable desks and seats that are easy to operate.
- Foldable desks and seats are designed for space saving by creating walking aisle space when folded in. Ergonomic design maintains the correct distance between desk and seat that ensures correct posture while writing or using a laptop etc.
- Easy plug and play feature built into the product enables use of laptops, LCDs, audio visual equipment more easily, facilitating interactive learning.
- Dual desk is offered as a set of fronts, middle & rear units. Middle unit can be offered in multiples as per seating capacity requirements. The Front Unit comes with a modesty panel for a uniform look. The Middle Unit is a combination of desk and seat with a common panel that helps optimize space. Also, the rear unit sports a back support for additional comfort.
- Available in two trendy and lively colour combinations to give the seminar room or lecture hall a youthful yet mature look.
- Available in 2-, 3- & 4-seater configurations.



Product Specifications:

A) Under structure:

- The under structure is made with steel ERW tube section (IS:228) of size 80x40x2.5mm thick with powder coat finish.
- Under structure consists of two welded leg assemblies connected by means of welded seat side tube assy and welded desk side tube assy on both sides.
- Sturdy anchoring by anchor bolts on to base of 10mm thick plate for proper resting of structure**.
- Plastic clad & shoe main clad made of glass filled 30% nylon-6 for covering anchor bolts.

B) Side clads:

Two side clads made of 35 mm thick pre laminated MDF Board with All Exposed edges of pre-laminated MDF board 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

Desk side clad made of 18mm thick pre laminated MDF Board & seat side clad & connecting clad made of 25mm thick pre laminated MDF Board.

C) Desklet:



- Desk has opening & closing mechanism by means of desk slider and slider sleeve made of 30% glass filled nylon-6.
- Desk comprises of pre laminated MDF Board desk with aluminium section anodized finish on to sides and TPE rubber on to aluminium section outer side for cushioning effect for desk opening closing.
- Desk and under storage made of 18mm thick pre laminated MDF Board fixed with aluminium extrusion on sides for desk opening closing. pre laminated Board Make: (Century/Action Tesa/Merino/Greenlam or equivalent or as approved by engineer in-charge/employer)

D)Seat:

Seat has self-closing mechanism which will operate by means of spring.

- Seat understructure is a combination of welded fabricated structure made of Ø 25 X2mmthk ERW tube with powder coated finish which is covered by 0.8mm thick sheet metal cover and upholstered with moulded foam inside and leatherite cover.
- Seat back comprises of ply with moulded foam upholstered inside & leatherite cover. moulded foam 50 mm thickness and **Foam density** 55 kg/Cu.mtr (**± 5 kg/cubic meter**) upholster inside & leatherite cover.

E) Wire carrier:

Wire carrier made of 0.8mm thick CRCA metal sheet for holding wire passing.

F) Switch box:

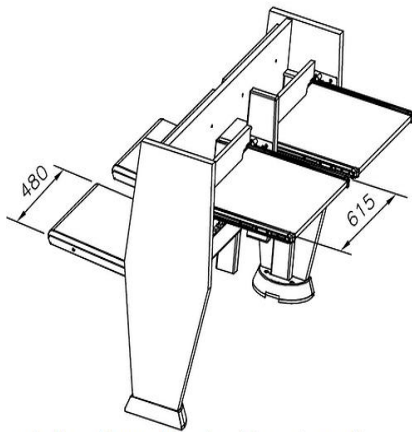
Switch box made of 1.2mm thick CRCA metal sheet for switch plate mounting suitable for anchor roma plates.

G) Front clad Mounting:

Front clad mounting made of 18 MM pre laminated MDF Board with sheet metal cover and bracket for holding on to top and mounting box for holding of clad with seat side clad.



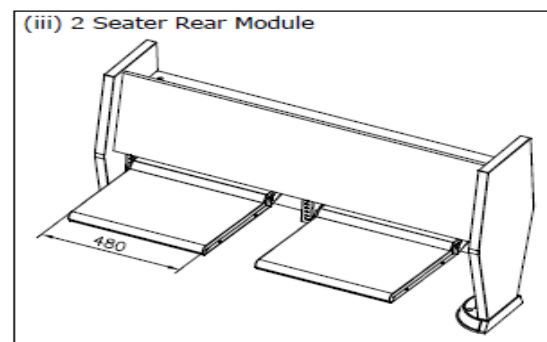
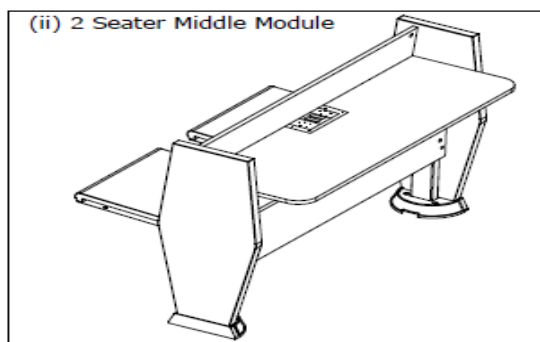
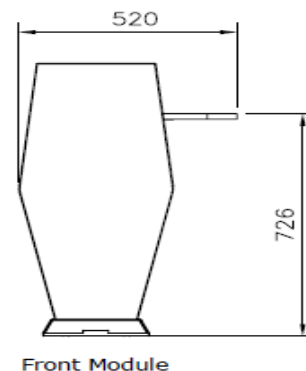
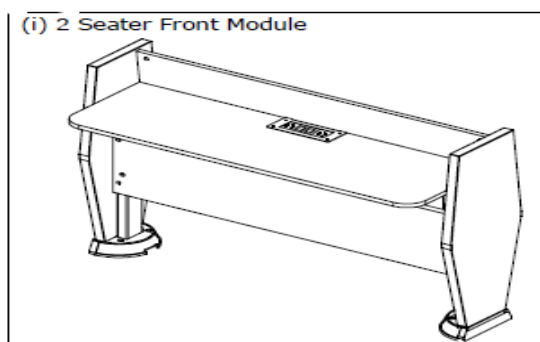
- **Foldable Seat** The unique design offers fixed desks and foldable seats that are easy to operate, have a neat open look and save aisle space when folded in.
- **Plug and Play** Easy in-built plug and play feature facilitates interactive learning, thus making the use of laptops, LCDs and audio-visual equipment easier.
- **Grouted Under structure** Grouted under structure assures you of sturdiness and fixed position thus ensuring organized lecture halls.
- **Cushioned Seats** Comfort is assured through long hours of information sharing with cushioned seats that keep fatigue at bay.
- **Hooks For More Utility** Hooks on the side of the desk allow for bags to be hung beside each desk for storage and easy access.



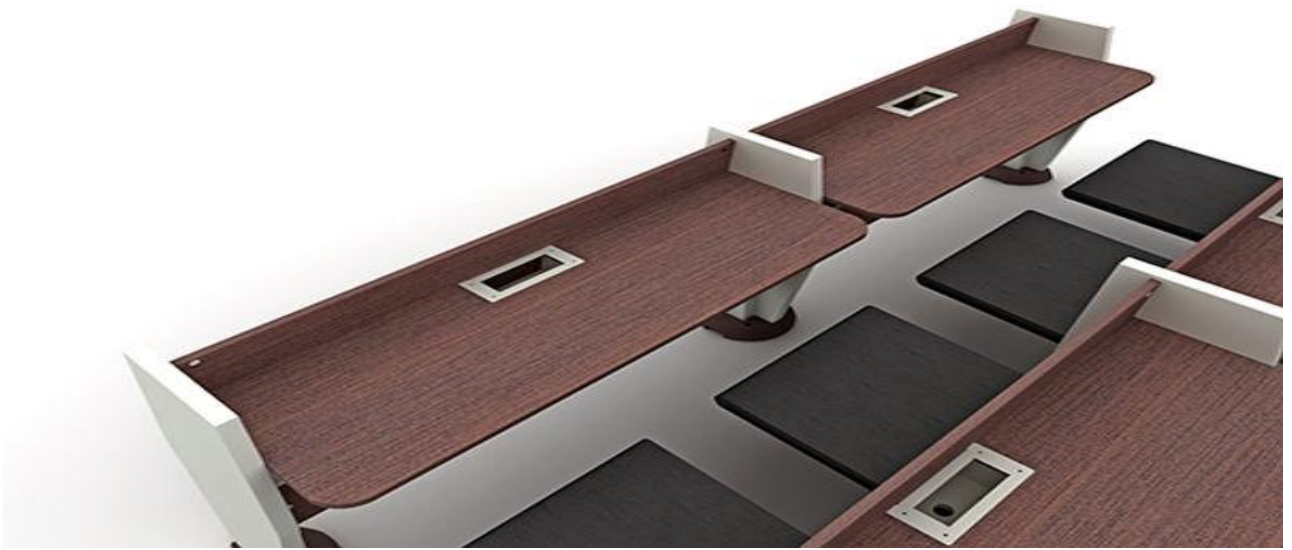
*The representative shown here is of 2 seater unit.
 *Refer to DMX for further details of other modules.



A platform-based design with user assisted closing seat & **fixed desk** system for lecture theatre rooms, auditoriums as well as corporate training rooms. The Seat will be Auto Tip up like the Namaste I

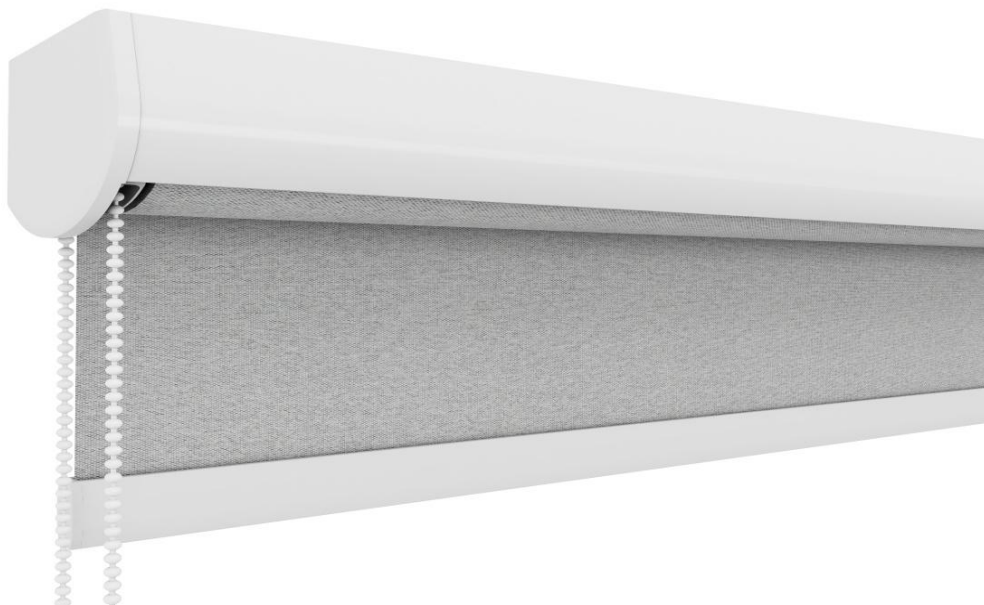


Size of 2 Seater Desk Front type: Width: 1374mm, Depth: 698.5mm, Height: 890mm, Working Top Height : 726 mm, 2 Seater Middle type: Width: 1374mm, Depth: 1080 mm, Height: 890mm , 2 Seater Rear type: Width: 1378mm, Depth: 751 mm, Height: 890mm ($\pm 5\%$ Engineering Variation in dimension), Installation type: Grouted under structure (for sturdiness and fixed position). Shoe made up of: Polyamides based on PA6, Supplied as per seat in Choco Colour, All Hardware: The high quality hardware used like Roller slides, Hinges, mini-fix, dowels, handle, screw etc. is make of Hettich/Ebco/ or equivalent or as approved by engineer in-charge/employer, MDF Board Make: Century/Action Tesa/Green ply/ or equivalent or as approved by engineer in-charge/employer), .





17. Roller Blind Curtain



Providing & fixing up of Window curtain (Roller blind) Black out/translucent type in required sizes having the following specification:

Mounting Bracket: Mounting hardware brackets, universal brackets including end plug bracket should come with lock down retainer device. Metal brackets provided should come

in powder coated finish. All installation brackets made of stamped and hardened steel allowing a 46mm projection from the wall, ceiling and side fitting with screws and end cap covers.

Cassette: It is a cover for blinds installed outside the window frame to hide tube brackets and mechanism. This is aluminium extruded rail made up of high strength aluminium alloy, which is covered with matching fabric. For 38 mm grooved roller tube cassette size should be 100mm (Width)*100mm (Height) and having weight =1200gm/running meter ($\pm 5\%$).

Cassette Ceiling Bracket: This is made up of carbon Steel, DIN Standard Steel, Thickness: 1.0mm, Powder Coating Thickness: 0.15mm to 0.20mm. This provides near invisible fixing of the cassette.

Cassette system end caps: It should have minimum 2.5mm thickness plastic end cap and should be in coordination with the blind fabric colour.

Roller Tube: This is made up of High Strength Aluminium Alloy Extruded grooved tube having outer diameter 38mm(± 1 mm) & thickness 1.25mm ($\pm 5\%$) as per AA6063 Alloy. Tubes must come in natural anodized finish. To achieve greater reinforcement anodized tubes must have at least six internal ribs so that additional tensile strength can be achieved and allowing provision for secured placements of clutch and end plug.

Roller tube brackets: Spring steel metal brackets powder coated in matching finish to be used on both ends to support the roller system. Brackets can be top or face fixed.

Control Unit: Blinds mechanism must have the control clutch drive unit with engineered heavy duty chain drive pulley operating system consisting of gear clutch housing and locking plug containing at least 6 ribs and inserted into a minimum of 38mm dia. roller tube. Clutch has to be self-lubricating with safety pins for secure bracket installation and unlocking pin for quick manual removal. Provided clutch system must allow convenience in operation for large windows to the smallest windows. The control unit should be made up of polypropylene material using injection moulding method. Gearing Ratio: 1.75:1 to reduce operating force for larger blinds. 24nos Sprocket for 38mm diameter roller tube. Control unit is operated directionally by the use of beaded endless chain to raise and lower the blind smoothly.

Idler: Tube bearing plug idler should have the properties of self-lubricating spring-loaded plastic bearing end plug with positive locking wheel that allows for adjustment and provides a secure installation and removal of blinds. Tube bearing plug should contain at least 6 ribs and inserted a tube not less than 38mm roller tube. Idler is of high strength reinforced plastic, consisting of an outside sleeve and centre shaft. Sleeve provide bearing surface for centre shaft and rotate freely, providing smooth, quiet and long wearing operation. It is a Part of Control Unit Assembly.

Bottom Rail: This is made up of extruded aluminium bottom bar having powder coating of 55 microns and wall thickness of ± 1.2 mm (± 0.1) and width of 26.5mm(± 1 mm) and height of 33.5mm(± 1 mm) and weight: 380gm/meter ($\pm 5\%$). All bottom rails should come with powder coated finish with an end cover perfectly in matching with the fabric.

Bottom bar also includes concealed bottom bar rod to allow fabric to roll as per duplex guidelines and dimensions of concealed bottom bar rod specified as inner diameter:

10.8mm, outer diameter: 14.8mm, Weight: 219gm/meter, Thickness: 1mm ($\pm 5\%$) should be provided with matching cover.

Concealed bottom bar rod: Bottom bar includes concealed bottom bar rod to allow fabric to roll as per duplex guidelines. Aluminium bottom bar rod made up of AA6063 alloy having Rod I/D: 10.8mm, O/D:14.8mm, Weight: 219gm/meter, Thickness: 1mm ($\pm 5\%$) with the covered matching.

Bottom bar end caps: End caps of bottom bar should be made up of ABS material using Injection moulding method having perfect push fit with the bottom bar. The dimensions of end caps of bottom bar specified as length: 18mm, width: 27.5mm, height: 34.5mm, thickness 2mm and end caps of bottom bar should also have polyurethane bush to fit in bottom tube for smooth operation of blinds.

Operating chain: Blinds set is to be driven by a ball chain pulley and ball chain and can be positioned at Right hand or Left-hand side of the blinds set. This is made of 4.5 mm plastic beads moulded on 2.0 mm thick polyester cord. The chain drives the sprocket fixed in the end control unit to close and open the blind. The pitch of the chain corresponds to the sprocket in perfect match for trouble free operation. Average number of balls on chain should be 50 per foot length. Plastic chain should provide ease in operation with chain connector and polycarbonate stopper of O/D:6mm & I/D: 4mm to avoid reverse rolling of fabric over tube and protecting damages to blind fabric.

Cord Weight: It should have suitable acrylic clear cord weight to suit the operating chain. Thickness: 14mm, width: 30mm and height: 80mm.

Note: The control unit & cassettes shall be made with matching colour of blind with aesthetically pleasing matching look of room.

The fabric shall be selected from best quality fabric. The fabric shall have properties such as acoustic control, anti-fungal and anti-microbial. Sheer fabrics shall allow in maximum amount of light (20-100% light transmission), whilst still preserving privacy and dim out (Privacy fabrics) (1 – 19% light transmission) allow in restricted amount of light, whilst ensuring complete privacy, even in the evening. Blackout fabric shall completely block out sunlight, for complete privacy, room darkening and temperature regulation (0% light transmission).

The fabric colour as approved by employer The weighted composition of fabric shall be made of 100% Polyester woven fabric with a openness factor of 3%. The fabric shall have a weight of 168 GSM (± 5 GSM). The solid depth of fabric shall be 75mm and sheer depth shall be 50mm. Light fastness shall be 4-5 Grade tested in accordance with BS EN ISO 105-B01:1999, **Roller Blind Curtain as approved by engineer in-charge/employer.**

18. Steel Almirah



Providing and placing of Steel Almirah overall size: 916mm(W)x486mm(D)x1980 mm(H) with welded construction. Almirah shall be made of CRCA 'D' grade high yield strength, CRCA sheets conforming to grade as per CRI of IS 513 (part-1):2016, It should have 4 Nos. shelves with thickness of 1.0 mm, Back thickness of 1.0 mm, Door thickness of 1.0 mm (high yield strength) and stiffener shall be provided in door up to full height, Width of stiffener: 115 mm, Stiffener sheet thickness: 0.8 mm and all other components shall have thickness of 1.0 mm. The Steel Almirah should have a Mazak handle and Three-way locking mechanism with Shooting Bolts. It should have a height wise adjustable shelf mounting which shall have a Uniformly distributed load (UDL) for shelves: 80 Kg. Almirah also have a M10 Screw type Leveller with Hex plastic base, Number of hinges (for each door): 03 Nos. Hinges sheet thickness: 2 mm, Pedestal height (± 5 mm): 125 mm, The finishing shall include Epoxy powder coated with thickness of 50 microns ($\pm 10\%$). Powder coating: Conforming to IS: 13871. The company/bidder shall possess valid Quality certifications for ISO 9001, ISO 14001, ISO 45001, and ISO 50001, duly accredited by the National Accreditation Board for Certification Bodies (NABCB). BIFMA Membership, AIOTA and Green Pro certificate, the product should be complete and as per sample approved & as per direction of Engineer-in-charge/employer.

19. Personal Locker



Supply and installation of 4 Door Personal Locker Unit with Supply and Installation of 4 Door Personal Locker Unit (Base) with size of 450mm(W)x480mm(D)x1900mm(H) ($\pm 5\%$ engineering variation) Stiffened pedestal height shall be 75 mm; Number of compartments shall be 4. Stack ability shall have add - on units that can be stacked width wise to form bank of locker shaving common side panel. Non-welded hinges with removable hinge pins should be provided. Locking shall have 10 Lever cam lock with lock lever plus option of hasp arrangement and duplicate key should be provided. Material shall be CRCA Sheet. sheet thickness of body, back, shelves, pedestal and door must be 0.8mm thick. Construction shall be Rigid Knockdown construction; the uniformly distributed load capacity of shelves shall be 40 Kg minimum. Finish shall be epoxy polyester powder coated with 50-60microns thickness. Handle/Label holder shall be Electroplated Mild Steel handle/label. Ventilation shall be attractive punched pattern for ventilation. Locker as **approved by engineering-charge/employer.**

20. Office Table



Supply and installation of Table size shall be 1500mmL x 750mmWx 750mmH ($\pm 5\%$ Engineering Variation). Table top shall be 25 mm ($\pm 1\text{mm}$) thick Pre-laminated MDF Board conforming to Grade SBG II of IS 12406/2003 with laminated both side 1 mm thick laminate, E1 grade laminate with zero urea formaldehyde emissions ($\leq 8\text{mg}/100\text{ g oven dry board-perforated method}$) for better in-house quality. This should comply with (EN 120-1992). The modesty panel shall be 18 mm ($\pm 1\text{mm}$) thick Pre-laminated MDF Board conforming to Grade SBG II of IS 12406/2003 with laminated both side 1 mm thick laminate. All Exposed edges of pre-laminated MDF board to be sealed with 2mm thick PVC edge banding 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.

ERU - LHS size shall be 1050mm Width x 450mm Depth x 705mm Height ($\pm 5\%$ Engineering Variation). The top shall be 25 mm ($\pm 1\text{mm}$) thick Pre-laminated MDF Board conforming to Grade SBG II of IS 12406/2003 with laminated both side 1 mm thick laminate. Flat Edge duly sealed with 2 mm thick PVC beading. The Modesty shall be 18 mm ($\pm 1\text{mm}$) thick MDF Board with laminated both side 1 mm thick laminate. Edge sealed with 2 mm thick PVC Banding.

Mobile pedestal Unit: 3 drawer (2 drawer & 1 filing Cabinet) Mobiles Metal pedestal of overall dimensions internal and external dimensions 380-430 mm (W) x 430-480 mm (D) x 600-650 mm (H) ($\pm 5\%$ Engineering Variation). Mobile pedestal body should be made of CRCA of thickness 0.8 mm duly powder coated with 70-80 micron. Each pedestal should be provided with pencil tray/drawer size: 120 mm (H) x 380 mm (W). Filing cabinet size; 350 mm (H) x 380 mm (W) ($\pm 5\%$ Engineering Variation) pedestal should have 4 Nos castor fitted to it, diameter of castors is 50 mm, All the pedestal drawers are centrally locked with a single

key. The high-quality hardware like Roller slides, SS Hinges, Mini fix, SS handles, locks, wooden dowels, screw, shall be used of Hettich/EBCO make or equivalent or as approved by engineer in charge/employer. MDF Board make: Century/Action Tesa/Merino/Greenply or equivalent/or as approved by engineer in-charge/employer), Table as approved by engineer in-charge/employer.

21. High Back Chair



Supply and installation of chair the cushioned seat/back assembly consists of an outer shell made from a mixture of Polypropylene (PP) and 30% Glass Fiber Nylon (GFN), a seat inner made of Polypropylene, moulded Polyurethane (PU) foam, and upholstered with polyester fabric. The Net Back should be made up of Back outer (material-Glass Fiber Filled Nylon) & Back inner (material- PP) and upholstered using Polyester Mesh fabric with high tenacity yarn. Full Back Size: 46.5 cm. (W) x 60.0 cm. (H), Seat Size: 51.0 cm. (W) x 49.0 cm. (D) ($\pm 5\%$ Engineering Variation) High Resilience (Hr) Polyurethane Foam: The HR Polyurethane foam should be moulded with density = $45 \pm 2 \text{ kg/m}^3$ and Hardness load $12 \pm 2 \text{ kgf}$ for 25% compression. Back Spine: The support spine should be made up of High Pressure Die cast polished had aluminium. ARMRESTS: The armrest adjustments Height ($6.0 \pm 0.5 \text{ cm}$). Height adjustment should be provided in aluminium structure of armrest which should be connected to aluminium spine and should be operated by button. The depth adjustment should be provided in pad which should be fixed to armrest structure. Armrest Top should be made up of PU moulded over a high-strength plastic inner core, ensuring comfort, durability, and long service life. Active Bio-Synchro mechanism: The adjustable tilting mechanism should be designed with the following features: • 360° revolving type • Front-pivot for tilt with feet resting on ground & continuous lumber 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 tilting ratio of 1:2 • The mechanism housing should be made up of HPDC aluminium & black powder coated (DFT 40 to 60 micron) Seat Depth Adjustment: Seat depth adjustment should be integrated in the

seat through a sliding mechanism. Seat depth adjustment range should be of 3.75 ± 0.1 cm

Lumbar Support Assembly: The Lumbar support assembly should consist of lumbar spine (material-Glass Fiber Filled Nylon) which should be fixed to aluminium Back spine. The Lumbar pad (material- Poly Propylene) should be fixed to lumbar spine through lumbar Pad support. Lumbar Support Assembly has height adjustment of 5.0 ± 0.5 cm

Pneumatic Height Adjustment: The pneumatic height adjustment has an adjustment stroke of 10.0 ± 0.3 cm.

Pedestal Assembly with Castors: The pedestal should be High Pressure Die cast polished aluminium and fitted with 5 nos. twin wheel castors. The pedestal should be 65.0 ± 0.5 cm. pitch-centre dia. (75.0 ± 1.0 cm. With castors.)

Twin Wheel Castors: The twin wheel castors should be injection moulded in black PP having 6.0 ± 0.1 cm wheel Diameter. The neck rest assembly cons should be ts of upholstered Neck rest inner(material-Polypropylene) with moulded Polyurethane foam and Polyester fabric. Upholstered inner should be fixed to Neck rest cover. Neck rest should be fixed to Back assembly through Neck rest spine. Neck rest assembly has height adjustment of 5.5 ± 0.5 cm and Rotation adjustment of overall $20^\circ \pm 2^\circ$. Chair as approved by engineer in-charge/employer.

22. Visitor Chair.



Supply and installation of chair, Seat/Back Assembly: the cushioned seat/back assembly consists of an outer shell made from a mixture of Polypropylene (PP) and 30% Glass Fiber Nylon (GFN), a seat inner made of Polypropylene, moulded Polyurethane (PU) foam, and upholstered with polyester fabric. The Net Back should be made up of Back outer (material-Glass Fiber Filled Nylon) & Back inner (material- PP) and upholstered using

Polyester Mesh fabric with high tenacity yarn. Full Back Size: 46.5 cm. (W) x 60.0 cm. (H), Seat Size: 51.0 cm. (W) x 49.0 cm. (D) ($\pm 5\%$ Engineering Variation) High Resilience (Hr) Polyurethane Foam: The HR Polyurethane foam should be moulded with density= 45 ± 2 kg/m³ and Hardness load 12 ± 2 kgf for 25% compression. Back Spine: The support spine should be made up of High Pressure Die cast polished had aluminium. ARMRESTS: The armrest adjustments Height (6.0 ± 0.5 cm). Height adjustment should be provided in aluminium structure of armrest which should be connected to aluminium spine and should be operated by button. The depth adjustment should be provided in pad which should be fixed to armrest structure. Armrest Top should be made up of PU moulded over a high-strength plastic inner core, ensuring comfort, durability, and long service life. Active Bio-Synchro mechanism: The adjustable tilting mechanism should be designed with the following features: • 360° revolving type • Front-pivot for tilt with feet resting on ground & continuous lumbar support ensuring more comfort • Tilt tension adjustment can be operated in seating position • 5 position Tilt limiter giving option of variable tilt angle to the chair • Seat / back tilting ratio of 1:2 • The mechanism housing should be made up of HPDC aluminium & black powder coated (DFT 40 to 60 micron) Seat Depth Adjustment: Seat depth adjustment should be integrated in the seat through a sliding mechanism. Seat depth adjustment range should be of 3.75 ± 0.1 cm Lumbar Support Assembly: The Lumbar support assembly should consist of lumbar spine (material-Glass Fiber Filled Nylon) which should be fixed to Aluminium Back spine. The Lumbar pad (material- Poly Propylene) should be fixed to lumbar spine through lumbar Pad support. Lumbar Support Assembly has height adjustment of 5.0 ± 0.5 cm Pneumatic Height Adjustment: The pneumatic height adjustment has an adjustment stroke of 10.0 ± 0.3 cm. Pedestal Assembly with Castors: The pedestal should be High Pressure Die cast polished aluminium and fitted with 5 nos. twin wheel castors. The pedestal should be 65.0 ± 0.5 cm. pitch-centre dia. (75.0 ± 1.0 cm. With castors.) Twin Wheel Castors: The twin wheel castors should be injection moulded in black PP having 6.0 ± 0.1 cm wheel Diameter. Chair as approved by engineer in-charge/employer.

Budgetary Quotation for Boys Hostel, Girls Hostel and Lecture Hall at Medical College Dhule, Maharashtra

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