



भारतीय सूचना प्रौद्योगिकी संस्थान सेनापति, मणिपुर
INDIAN INSTITUTE OF INFORMATION TECHNOLOGY SENAPATI MANIPUR
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TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP III)

IIITM/TEQIP III/Furniture /Corrigendum/206/2018-19

Date: 11/03/2019

CORRIGENDUM

Subject: Corrigendum to the NCB invited for supply of Office and Lab furniture

BID REFERENCE NO: TEQIP-III/iiim/44 dated 1st march 2019

With reference to the NCB invited for supply of Office and Lab furniture mentioned above, the specification of the items have been modified. The revised specification is enclosed in Annexure- A.

The terms and conditions and other details mentioned in the NCB remain same.

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ANNEXURE - A
SECTION VI - TECHNICAL SPECIFICATIONS (REVISED)

Sr. No	Brief Description	Details Specifications
1	Double Sided Wood and Steel Book Rack Base Unit	Product Width: (i) for Base Unit: 925mm (ii) for Add On Unit: 900mm For both the Base and Add on Unit:
2	Double Sided Wood and Steel Book Rack Add on Unit	Height: 1890mm (Incl. 85mm Skirting) Depth: 590mm Construction: Rigid knockdown construction. Back panel up to the bottom of third rack for additional rigidity. Material: Racks, Back Panel & Skirting: CRCA 0.8mm Thickness. Side panels: 25mm thick. Pre-laminated particle board (PLB) with laminate on both sides. Finish: Metal panels: Epoxy Polyester Powder coated to the thickness of 50 microns (+/-10). Stack ability: The add-on units should be stacked width wise to form a bank of racks having common side panel. Number of racks: (i) Bottom plus four fixed racks on each side. (Total 10 Loading levels). For stiffening of the racks beading must be provided, (ii) Uniformly Distributed Load Capacity per each full shelf should be 80 Kg maximum. Rack back stiffener: At the rear side of the racks back stiffeners are provided. These are to support books on the rear side & also act as divider between front & rear books in upper two compartments. Label holder: Label Holder on each main unit to insert labels for identification.
3	4 Door Bookcase	Product Size: 914mm(W) x 320mm(D) x 1742mm(H) Construction & Material: Rigid Knock down construction. Top side and back made out of 0.7mm CRCA steel & door and bottom made of 0.8mm thick CRCA steel confirming to IS-513 Gr.D. Door Features/Locking: 4 nos, of Glass doors. Each Door should have Cam Lock with common key. Each Door should have 4mm thick transparent toughened glass for clear inside vision secured in a metal door through rubber gasket. Each door should have a scissor mechanism for receding inside the top of respective compartment & ensures parallel & smooth movement. Each Door should have plastic side end caps as handle which is easy to grip. Shelves: Each compartment should have storage shelf. Uniformly Distributed load capacity per each shelf is 80 kg maximum. Top Panel: Metal top panel. Finish: Epoxy polyester powder coated to the thickness of 50 microns.



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4	Almirah (Plain) with 4 shelves	<p>Product Size-Plain: 916 mm(W) x 486 mm(D) x 1981 mm(H) Construction and Material: Welded construction, 0.8 mm thick CRCA for back and shelf, 0.9 mm thick CRCA for other components. Configuration (Door): Full height steel Hinged Door Locking and Handle: Mazak Handle, 3 way locking mechanism with shooting bolt arrangement. Shelving: Height wise adjustable shelf mounting. Uniformly distributed load capacity per Shelf is 80 kg maximum. 4 nos. of Adjustable full shelves. Leveler: M10 Screw type leveler with hex plastic base. Finish: Epoxy Polyester powder coated to the thickness of 50 microns (app)</p>
5	Vertical Filing Cabinets (4 Drawer)	<p>Product size: 470 (W) x 1320 (H) x 620 (D) Construction: Rigid Knock down construction. Material: Top side and drawer front should be 0.7mm thick CRCA drawer inside cover, side back side should be 0.6mm thick CRCA. Drawer Front: Easy to grip full length handle recess integrated into metal drawer front. Label Holder: Snap on type plastic label holder on Drawer fronts. Drawer Size & File Types: For hanging 'Ezee'/'Visa' files (Foolscap from front to back (Files along with the width). Locking & Anti Tipping Arrangement: Centralized locking with cam lock & having Anti tipping arrangement to ensure that when one drawer is opened for use, it should not allow other drawers to be opened. Slide: High quality precision ball slide. Drawer load 40 kg UDL. Triangular Plate: Plain triangular plate pop riveted at the bottom corners for rigidity. Accessories (Optional): Drawer Partition. Cradle for hanging A4 file folders front to back. Finish: Epoxy Polyester powder coated to the thickness of 50 microns.</p>
6	Cushioned Chair with arms rest	<p>SEAT/BACK ASSEMBLY: The seat and back should be made up of 1.2 cm thick hot pressed plywood, upholstered with fabric and moulded Polyurethane foam with PVC lipping all around. The back foam with contoured lumbar support for extra comfort. BACK SIZE: 49.0cm.(W) x 47.0cm.(H) SEAT SIZE: 49.0cm.(W) x 44.0cm.(D) POLYURETHANE FOAM: The polyurethane foam should be moulded with density = 45 +/-2 kg/m³ and Hardness = 20 +/- 2 on Hampden machine at 25% compression. ARMRESTS: The armrest tops should be injection moulded from black Polypropylene. Tubular armrest supports of Dia.2.54cm. (1") x 14 BG M.S. E.R.W. tube and black powder coated. The tubular armrest supports to hold together the seat and back. TUBULAR FRAME: Cantilever type tubular frame & of Dia.2.54cm.(1")x 14 BG M.S. E.R.W. tube and black powder coated. Overall Dimension: Width (W) : 55.0 cm Depth D) : 61.0 cm Height (H) : 80.0 cm and Seat Height (SH) : 43.0 cm</p>



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7	Visitor's Chair with arms rest	<p>Seat/Back Assembly: The seat and back should be made up of 1.2 cm thick hot pressed plywood, upholstered with fabric and moulded Polyurethane foam with PVC lipping all around. The back foam must be designed with contoured lumbar support for extra comfort.</p> <p>Back Size- 49.0 cm (W) x 47.0cm (H)</p> <p>Seat Size- 49.0cm (W) x 44.0cm (D)</p> <p>Polyurethane Foam- The polyurethane foam moulded with density 45+/-2 kg/m³ and hardness load 20+/-2 for 25% compression.</p> <p>Arm Rests- The one-piece armrests should be made up of black integral skin polyurethane with 50-70 Shore 'A' Hardness and reinforced with M.S. insert. The armrests should be scratch and weather resistant. The armrests should be fitted to the seat with seat/armrest connecting strip assembly made of 0.5cm. thick. HR steel.</p> <p>Tubular Frame: The cantilever type tubular frame, dia 25.4mm x 14 BG M.S. E.R.W. tube and black powder coated.</p> <p>Overall Dimension: Width (W) : 55.0 cm Depth D) : 61.0 cm Height (H) : 80.5 cm and Seat Height (SH) : 44.0 cm</p>
8	Officer Chair - Mid Back Revolving	<p>Seat/Back Assembly: The seat and back should be made up of 1.2+/-0.1cm thick hot pressed plywood and upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam with contoured lumbar support for extra comfort. The seat with extra thick foam on front edge to give comfort to popliteal area.</p> <p>Back Size: 47.5cm(W) x 58.0cm(H) Seat Size: 47.0cm(W) x 48.0cm(D)</p> <p>High Resilience Polyurethane Foam: The HR polyurethane foam moulded with density 45+/-2 kg/m³ and hardness load 16+/-2 kgf as per IS:7888 for 25% compression.</p> <p>Arm Rests: The one piece armrests, injection moulded from black Co-polymer polypropylene.</p> <p>Center Tilt Synchro mechanism: 360 degree revolving type. Upright position locking. Tilt Tension adjustment. Seat back tilting ratio of 1:3</p> <p>Pneumatic Height Adjustment: The pneumatic height adjustment with an adjustment stroke of 12.0+/-0.3cm.</p> <p>Telescopic Bellow Assembly: The bellow should be 3 piece telescopic type and injection moulded in black polypropylene.</p> <p>Pedestal Assembly: The pedestal injection moulded in black 33% glass filled Nylon-66 and fitted with 5 nos. twin wheel castors. The pedestal should be 66.3+/-0.5cm pitch centredia (76.3+/-1.0cm with castors).</p> <p>Twin Wheel Castors: The twin wheel castors, injection moulded in black nylon.</p> <p>Overall Dimension: Width (W) : 76.0 cm Depth D) : 76.0 cm, Height (H) : 85.5 - 97.5 cm and Seat Height (SH) : 42.5 - 54.5 cm</p>



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9	Office Table	<p>Overall Dimension: 1650 mm (W) x 900 mm (D) x 728 mm (H)</p> <p>Top: Worksurface: 18mm thick Pre laminated Particle board(PLB). All worksurface edges should be duly sealed with 2mm thick PVC Edge banding.</p> <p>Understructure: Modesty Panel: 18mm thick Pre laminated Particle board(PLB). All worksurface edges should be sealed with 2mm thick PVC Edge banding.</p> <p>Rectangular Frame: Fabricated Component in 1.2mm thick CRCA ‘D’ Grade as per IS:513. Finish: Epoxy polyester Powder coated to thickness of 50 micron (+/-10).</p> <p>Leg: Fabricated component in 38mm x 25mm x 1.2mm thick MS ERW tube (IS:7138). Finish: Epoxy polyester Powder coated to thickness of 50 micron (+/-10).</p> <p>Leveller glide for leg: Nylon6 and MS Bolt.</p> <p>Wire Management: Horizontal Wire Carrier: 0.7mm thick CRCA ‘D’ grade as per IS:513. Finish: Epoxy polyester Powder coated to thickness of 50 micron (+/-10).</p> <p>Vertical Wire Carrier: 0.7mm thick CRCA ‘D’ grade as per IS:513. Finish: Epoxy polyester Powder coated to thickness of 50 micron (+/-10).</p> <p>Storage: Pedestal: Drawer Configuration/Product Size/Styling: 355.5mm(W) x 559mm(D) x 670mm(H)</p> <p>Construction and Material: Welded Assembled: Shell- 0.6mm thick CRCA as per IS:513. Drawer Tray and back- 0.5mm thick CRCA as per IS:513. Drawer Front 0.6mm thick CRCA as per IS:513.</p> <p>Locking: Cam Lock</p> <p>Leveller: Plastic M8 mounted below body shell</p> <p>Handle: Injection moulded polypropylene</p> <p>Finish: Epoxy polyester powder coated to the thickness of 50 microns(+/-10).</p>
10	Executive Office Table	<p>Dimension: 1665mm(W) x 900mm(D) x725mm(H)</p> <p>Top: 25mm thick Pre-Laminated board with 2mm thick matching lipping stiffener under the top to give addition strength (1.6mm thick MS).</p> <p>Under structure: The Pedestal with combination of processed wood (PLB) and Mild Steel.-- 2 box drawer and 1 filing drawer combination for both pedestal-- Pedestal Shell: 0.8mm thick MS-- Drawer Tray: 0.6mm thick MS-- Drawer Separator: 0.6mm thick MS-- Pedestal Bottom Cover: 0.6mm MS-- PLB Drawer fronts (18mm PLB) to match top colour-- Drawers mounted on double extension steel telescopic ball slides to give full access to drawer. -- ‘Separators’ provided in box drawers to compartmentalize space to suit individual requirements-- Sleek Handles to easy grip. -- Glide Srews for levelling.-- Independent locking arrangement.</p> <p>Modesty: MS panel (1.0mm) thick recessed inside. Panel styled with cutouts (windows).</p>



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11	Lab Stool- Mechanical Ht. Adjustable revolving stool with back and with glide screw in place of castors.	<p>SEAT ASSEMBLY: Seat should be made up of 1.2 cm thick Commercial Grade plywood with moulded Polyurethane foam and should be upholstered with replaceable fabric covers. The upholstery should be available in Leather cloth and Fabric.</p> <p>SEAT SIZE: Diameter 40.0 cm</p> <p>SEAT ADJUSTMENTS: 360 Degree Revolving type</p> <p>BACK ASSEMBLY: The back foam with contoured Lumbar support for extra comfort. The upholstery should be available in Leather cloth and Fabric.</p> <p>BACK SIZE: 45.0 cm (W) should be covered with U foam.</p> <p>POLYURETHANE FOAM: The polyurethane foam should be moulded with density = 45 +/-2 kg/m³ and Hardness 20 +/- 2 on Hampden machine at 25% compression.</p> <p>HEIGHT ADJUSTMENT: Easy manual height adjustment with the help of a knob. It should be easily locked at the most comfortable position.</p> <p>PEDESTAL ASSEMBLY: The five-prong pedestal from 0.2cm thick CR steel, powder coated and fitted with an injection moulded black Polypropylene Hub Cap and 5 nos. of Glide screws.</p>
12	Centre Table	<p>Dimension: 1000mm(W) x 600mm(D) x 428mm(H)</p> <p>Table Materials:</p> <p>Top: 8mm thick tempered Glass.</p> <p>Understructure: Solid rubber woods legs and frame, MS sheet at bottom shelf.</p> <p>Decoration materials & Specifications: PU coating to the rubber wood parts. Clear Glass.</p>
13	SOFA 3 Seater	<p>Dimension: 2110mm(W)*935mm(D)*890mm(H)*475mm(seat ht.)</p> <p>Upholstery: Microfibre with Polyester Laminate</p> <p>Frame Material: Kiln dried wood</p> <p>Seat Foam: Slab stock foam with recron layer, with bonded foam as a supporting material beneath slab stock.</p> <p>Foam Density: 34 kg/ cubic m.</p> <p>Back Foam: Slab stock foam with recron fill at back and arms</p> <p>Foam Density: 34 kg/cubic m</p> <p>Webbing Material: S- spring along with nylon strips</p>
14	SOFA 1 Seater	<p>Dimension: 1110mm(W)*935mm(D)*890mm(H)*475mm(seat ht.)</p> <p>Upholstery: Microfibre with Polyester Laminate</p> <p>Frame Material: Kiln dried wood</p> <p>Seat Foam: Slab stock foam with recron layer, with onded foam as a supporting material beneath slab stock.</p> <p>Foam Density: 34 kg/ cubic m.</p> <p>Back Foam: Slab stock foam with recron fill at back and arms</p> <p>Foam Density: 34 kg/cubic m</p> <p>Webbing Material: S- spring along with nylon strips</p>



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15	<p>Modular partition system for 46 Workstations.</p> <p>Size of each Workstation : 750 mm (W) x 600 mm (D) x 1200 mm (Partition ht.) with metal KBPT and CPU trolley one each per workstation.</p>	<p>It should be a Panel Based modular furniture system which comprising of two types of panels as per their thickness viz 52.4mm and 22.8 mm.</p> <p>The 52.4 mm panel comprises of – 2 nos of vertical extrusion made of aluminium. Horizontal extrusion made of aluminium at every division of tile/block. The numbers of these horizontal extrusions vary as per panel height. Blocks made out of composite construction of MDF and paper honeycomb. Numbers of these blocks vary as per panel height. One no. of fabricated bottom frame as a welded structure of steel component. 2 nos of bottom tiles, 2 nos of top tiles, 1no of top trim made of aluminium extrusion. These panels are supported on legs with levelers.</p>
16	<p>Modular partition system for 10 Workstations (Back to back).</p> <p>Size of each Workstation : 750 mm (W) x 600 mm (D) x 1200 mm (Partition ht.) with metal KBPT and CPU trolley one each per workstation.</p>	<p>The 22.8 mm panel comprises of – 2 nos of vertical extrusion made of aluminium. Horizontal extrusion made of aluminium at every division of tile/block. The numbers of these horizontal extrusions vary as per panel height. Blocks made out particle board with various finishes. Numbers of these blocks vary as per panel height. 1no of top trim made of aluminium extrusion, 1no of end trim made of aluminium extrusion, 1 no of end trim cap made of aluminium die cast. These panels are supported on legs with levelers. These panels have restricted finish and no cable management facility.</p> <p>Bottom frame integrate with uprights to form the understructure for the panel. Fabricated bottom frame for 52.4mm panel comprises L-channels, formed plates and steel tube welded together. Coated with epoxy powder coating and available in 300 mm to 1800 mm standard width with the height of 256 mm.</p>
17	<p>Modular partition system for 5 Workstations (Linear).</p> <p>Size of each Workstation : 750 mm (W) x 600 mm (D) x 1200 mm (Partition ht.) with metal KBPT and CPU trolley one each per workstation.</p>	<p>The Panel legs are used for supporting panels at raised level to have clean and airy work place. Single side legs used for supporting worksurface on one side only. They are fabricated by CO2 welded MS Tube with the MS base plate, over which leveler is fitted. They are classified as Single Side Leg for 52.4 mm panel & Single Side Leg for 22.8 mm panel. Coated with epoxy powder coating.</p> <p>Double side legs used for supporting worksurface on both sides. They are fabricated by CO2 welded MS Tube with the MS base plate, over which leveler is fitted. They are classified as Double Side Leg for 52.4 mm panel & Double Side Leg for 22.8 mm panel. Coated with epoxy powder coating.</p> <p>Verticals and Horizontals work as a spine to the entire panel system. The blocks and metal frame are to be held together by verticals at both ends of the panel and horizontals between each block and tile. Horizontal extrusions provides slot for mounting accessories on the tiles. Top trim and end trim get fixed to the Horizontals and Verticals respectively, coated with epoxy powder coating.</p> <p>Cover Trims: Top trim and end trim should be connecting to the Horizontals and Verticals respectively. Top trims and end trims should be made of</p>



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	<p>aluminium extrusion having average wall thickness of 1.2 mm., coated with epoxy powder coating.</p> <p>The Joinery post should be made up of aluminum extrusion having average wall thickness of 1.2 mm. Coated with epoxy powder coating</p> <p>Die Cast Caps need to be used to cover exposed top edge of Panel at junctions and ends. Die cast caps should be made of aluminium alloy having average wall thickness of 1.2 mm. Coated with epoxy powder coating</p> <p>Grouting post for supporting 52.4 mm panels in configurations, where panel is not connected to the worksurface or is a free standing panel. It has to be connected to vertical extrusion of panel and grounded to the floor below with grouting bolts. Grouting post should be made of MS plate with base plate of 5 mm thick, coated with epoxy powder coating.</p> <p>Tiles:</p> <p>Top Tiles are to be slid in to the panels from top before fixing the top horizontal. These tiles should be supported from top and bottom side with clips made from PP co polymer fitted in horizontal extrusion. The finish of the tile should be a Fabric magnetic Tile.</p> <p>Bottom Tiles should be press fitted on to the assembly frame of the panel with the help of snap on clips made of nylon-66 and support clips made from PP co polymer. The finish of the tile should be Plain metal.</p> <p>Fabric Magnetic Tiles are fabric upholstered metal tiles in 0.6 mm thick G.I. Grade O as per IS: 277. The fabric should be upholstered with adhesives.</p> <p>Plain Metal Tiles should be made of 0.6 mm thick M.S. CRCA Grade D as per IS: 513 and powder coated with Epoxy- Polyester finish.</p> <p>Pre-laminated Tiles should be 9.0 to 9.5 mm thick pre-laminated particle board conforming to IS: 12823 having all its edges with minimum 0.5 mm thick PVC edging.</p> <p>Intermediate blocks should be of Laminated finish and are made of 8.0 mm thick particle board conforming to IS:12823 laminated with 0.6mm thick high pressure laminate on outer side and 0.6mm backing laminate on inner surface and having all its edges with minimum 0.5 mm thick PVC edging.</p> <p>Horizontal and vertical stiffeners made from 0.6 mm powder coated CRCA steel Grade D as per IS: 513.</p> <p>Worksurface has to provide space for paper work, writing, having discussions, housing computers and accessories like paper trays and telephone. It also has to provide cut-outs for entry of wires for gadgets placed on the table top. These worksurfaces should be made of 25 mm thick pre-laminated particle board having all its edges with minimum 2 mm thick PVC edge banding. The worksurface should be provided with circular cut out of 0.65mm diameter as per the requirement, for passing of wires. These cut outs shall be provided with ABS covers.</p> <p>Brackets provide support for worksurface. They are classified as: Worksurface Bracket mounted on to the Horizontal extrusion. It should be made from 2.0 mm thick CRCA grade D steel as per IS: 513-19. 6 numbers of ribs are provided in the worksurface for strengthening purpose. All the worksurfaces should be mounted on the worksurface through round Philip head diameter 4 mm x 19 length having finish zinc plated blue. Holder Bracket should be made from 2.0 mm thick CRCA grade D steel as per IS:513-19. It should be slid in between end trim and vertical extrusion and mounted on worksurface.</p> <p>KBPT&CPU Trolley: Should be of metal finish.</p>
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