Technical Specifications for the Modular Furniture

1.0 Specification for Workstation

(a) Modular furniture work stations, 1500mm x 1500mm having arrangement as single-seater, two-seater or four-seater including 1200mm (+ upto 75mm) high tile based partition.

(b) Storage pedestal drawer.

(c) Chairs for workstations.

(d) Adjustable wheel mounted CPU trolley

1.1 Frame

(a) The partition panels shall be tile based & shall have overall minimum thickness of 60 mm.

(b) The frame work shall be made of Knockdown metal frame comprising of vertical sections made from minimum 1.0 mm CRCA (Cold Rolled Cold Annealed) MS grade ‘D’ as per IS: 513-1994 formed into channels of minimum size 40mm X 50mm duly powder coated (coating thickness 50 to 60 micron).

(c) These vertical channels shall have suitable and sturdy arrangement to accept tile cladding.

(d) All exposed vertical edges of partition panels shall be finished with contoured edged powder coated Aluminum section of minimum 1mm thickness as per grade He-9-63400 as per IS: 733-1983 (or Latest if any).

(e) Connectors shall be of die cast aluminum with a waterfall edge for a continuous transition from horizontal to vertical trim.

(f) Raceway consisting of powder coated section minimum 1 mm thick of CRCA MS grade ‘D’ as per IS: 513-1994 of approved shade shall be provided of minimum 100mm size at two levels as shown in drawings of workstation attached.

(g) Panel should have cutouts of required sizes for installing electrical switch boards (as per switch samples provided).

(h) There shall be separate slots for passage of data and electrical wires.

(i) The frames should be designed to easily handle upto 70 Nos CAT 6 wires at entry points.

(j) Tiles shall be offered for options as per attached drawing, i.e. Fabric tile (tackable/ Acoustic / Pin up Tile) and Laminate Tile/ GlassTile/white board.

(k) End cap, Inline Cap, Universal Caps shall be of Aluminium extrusions.
(l) Top & Vertical trim shall be made up of Aluminium extrusions.

(m) 2 way / 3 way post shall be made up of minimum 1mm CRCA material.

(n) Connectors – 2 way / 3 way / 4 way, shall be of Aluminum Die Cast.

1.2 Tile Construction

(a) Fabric Tiles base shall be made of minimum 4mm thick MDF (Medium density fibre) Material or particle board of minimum 9mm thick, fabric of approved shade and quality.

(b) Laminate tiles shall be minimum 4mm thick MDF Material base or particle board of minimum 9mm thick base with lamination of approved colour.

(c) Glass Tiles shall be minimum 4mm thick toughened fitted in powder coated Aluminum Alloy frame (He-9-63400) along with provision of corner/ top/ bottom clips made of nylon 66.

1.3 Work surface

(a) Standard table top height – 740mm (including table top thickness of 25mm)

(b) Work surface shall be 1500mm x 1500mm made up of 25mm thick laminated plain particle board interior grade conforming to IS: 3087-1985 (or Latest if any) with PVC lipping/edge binding 2mm thick.

(c) The top shall be factory-made, laminated with laminate of 1mm thickness of approved shade as per IS : 2046-1995.

(d) Bottom shall have a backing laminate of minimum 0.6mm thickness.

(e) The front edge of work surface shall be provided with machine pressed 2mm thick PVC lipping/edge binding.

(f) Non-working edges of the work surface shall be provided with machine pressed 0.5mm thick PVC lipping/edge binding.

(g) The cable manager on the work surface shall be of flexible plastic component for easy and safe passage of wires.

(h) Plastic keyboard pullout tray made up of durable ABS (Acrylonitrile Butadiene Styrene) material shall be on sliding telescopic channels.

(i) Prelaminated three drawer pedestal 450mmX450mmX715mm (Using 18mm and 12mm thick boards) with two equal size drawer and one file drawer duly fixed under the work surface.
(j) Drawers shall have channel arrangement for smooth operation, with best quality stainless steel handle and latest technology magnetic type locking arrangement.

1.4 Adjustable wheel mounted CPU trolley

Adjustable wheel mounted CPU trolley made up of CRCA ‘D’ grade MS as per IS: 513- 1994 duly powder coated (coating thickness 50 to 60 micron).

1.5 Specification of Powder Coating

(a) Powder coating shall be with Epoxy powder of a standard shade or as required.

(b) The specific gravity of powder should be such that it gives DFT (Dry Film Thickness) of 50 – 60 micron.

(c) It should withstand salt spray test of not less than 1000 hrs as per ASTM- B- 117.

(d) SCRATCH HARDNESS TEST as per DIN 53153 shall be conducted and results should be such that no scratch shall show bare metal with a load of 3 kgs.

(e) The following seven step phosphating process treatment shall be conducted before powder coating.

   (i) Hot water rinse
   (ii) Knock of Degreasing
   (iii) De-rusting
   (iv) Cold water rinse
   (v) Activation
   (vi) Phosphating
   (vii) Passivation.

1.6 Work Station Chairs:

(a) Medium back rest ergonomically designed revolving chairs.

(b) The chair should have a hydraulic gas-lift (As per DIN 4550 2004-12 - Klass 3) for seat height adjustment.

(c) Fabric shall be fire retardant (As per ASTM D 1230-1994, IS: 11871-1986).

(d) The seat and back should be foam-cushioned and back should have ABS cover.

(e) The chair base should be of nylon material (BIFMA 5.1) for strength with nylon wheels (As
per ANSI/BIFMA X5.1-2002).

(f) There should be armrest and push-back mechanism (Mechanism Synchro-1 locking)) with test report as under:-

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Item</th>
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<tbody>
<tr>
<td>1.</td>
<td>Nylon Caster</td>
<td>ANSI/BIFMA X 5.1- 2002</td>
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<td>2.</td>
<td>Nylon Base Dia 640</td>
<td>BIFMA 5.1</td>
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<tr>
<td>3.</td>
<td>Gas lift</td>
<td>DIN 4550: 2004-12 - Klass 3</td>
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2.0 Specification for Storage:-

(a) Storage shall be of pre-laminated interior grade particle Board confirming to IS: 2046-1995, Top and side made up of 25mm and rest of the parts made up of 12mm thick Board, having latest technology magnetic lock.

(b) It should have two adjustable shelves for effective space utilization.

(c) The units shall have two doors.

(d) Metal leveler brackets shall be provided to give extra strength.

(e) The storage shall not have any sharp edges.

(f) It should be of desired shade as approved by RDSO authorities.