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No. F-8( )RMSC/EPM/M-3/15-16/NIB-97/1558

Dated: 5/10/15

**CLARIFICATION/CORRIGENDUM/ADDENDUM**

**Subject: -Revised technical Specifications and other terms and conditions of Bid document ANM/GNM Training Centre Furniture NIB No. F-8( )RMSC/EPM/M-3/15-16/NIB-97/1112 Dated: 26.8.2015.**

In Reference to subject cited above and NIB-97, the various representations received from the firms and issues raised by the Bidders are examined by the competent Authorities and technical committee. The following Corrigendum/Addendum is issued for inclusion in bid document & Technical Specification of items (Section-V, Schedule of Supply, Point no. 3) as below:-

**Revised Technical Specification**

**Item No.1 - Technical Specification of Office Table with drawer**

1. Office table with drawer of steel frame manufactured by ISO – 9001, ISO-14001/OHSAS CERTIFIED or BIFMA CERTIFIED manufacturers.
2. **MATERIALS:** Frame should be made up of CRCA steel pipe/Sheets. Screws used shall be anodized wherever used. Table top should be made up of minimum 18mm thick MDF Board both side laminated conforming to ISI-14587 along with PVC beading all around the top.
3. Frame & Drawer should be duly powder coated.
4. **DIMENSIONS:** The dimensions of the table and table top shall be 1200mm X 750mm X 750mm  $\pm 5$ mm
5. **DRAWER BOX:** The drawer box shall consisting of three drawers be made from metal sheet not less than 0.8 mm thick. Minimum dimension of the Box should be width of the Box: 355mm; Height of the Box : 425mm; Depth of the Box : 565mm with maximum Tolerance:  $\pm 5$ mm
6. **DRAWER:** Drawer shall be made from CRCA sheet not less than 0.63 mm thick and shall have a slot and stopper strip of metal sheet at the rear, holding drawer in the box when it is fully opened./ Minimum dimension of the drawer: Width of the Drawer: 315mm; Height.: 125mm; Depth of the Drawer: 445 mm with maximum Tolerance:  $\pm 5$ mm. The lock shall not be less than six levers Brass-lock with duplicate keys of non-corrosive material. Each drawer shall be fitted with a built-in drawer pull system duly padded with a plastic cover
7. Drawer movement should be smooth based on channel type mechanism of good quality.
8. **TUBULAR FRAME:** The legs of the frame shall be made from CRCA 25 mm square steel tubular pipe (without joint) with a wall thickness of minimum 1.2 mm, welded/screwed to the main frame.
9. **FOOT REST:** Foot rest shall be made out of minimum 1.2 mm thick tubular pipe.
10. **FINISH:** All Dents. Burns and Sharp edges shall be removed from the various components. The components shall be individually pickled, scrubbed and rinsed to remove grease, rust scale or any other foreign element. Immediately after pickling, all the mild steel parts shall be given phosphate treatment. The finish should be smooth and uniform. The finish shall be free from all visible defects.

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## Item No.2 - Technical Specification of Office Chair

1. Office chair's standard covers requirements of materials, construction and finishing by an **ISO – 9001, ISO- 14001/OHSAS CERTIFIED** or **BIFMA CERTIFIED** manufacturers only.
2. **Dimension:**
  - Height of Chair : 820mm
  - Depth of Chair : 640mm
  - Seat Height : 460mm
  - Width of the Chair : 570mm
  - Tolerance : ±5mm
3. Seat made out of 40 density machine pressed PU foam.
4. Full back made out of 30 density machine pressed PU foam and having perfect ergonomics for back support.
5. The Chair should have 1" diameter pipe base of 16 SWG made out of steel duly powder coated.
6. The chair should have comfortable and balanced seating.
7. The fabric used should be low piling and permeable fabric used on upholstery of seat and back of the chair.
8. All metal parts shall be Powder Coated and screws used should be anodized.
9. The color of fabric shall be confirmed at the time of order.
10. All dents, burrs and sharp edges shall be removed from the various components.
11. The Chair should have steel reinforced PU arms.

## Item No.3 - Technical Specification of Revolving Chair

1. Revolving chair's with high back standard covers requirements of materials, construction and finishing by an **ISO – 9001, ISO- 14001/OHSAS CERTIFIED** or **BIFMA CERTIFIED** manufacturers only.
2. **Dimension:**
  - Height of Revolving Chair : 1050mm to 1170mm
  - Depth of Revolving Chair : 700mm
  - Seat Height : 420mm to 540mm
  - Width of the Chair : 700mm
  - Tolerance : ±5mm
3. Revolving and tilting chair with five-prong powder coated base having 60mm double castor wheels.
4. Revolving chair should have gas lift mechanism for height adjustment.
5. The arms of the chair should be soft Polyurethane with iron insert.
6. Seat made out of 40 density machine pressed PU foam.
7. Curved High back made out of 30 density machine pressed PU foam and having perfect ergonomics for back support.

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8. The chair should have comfortable and balanced seating.
9. The fabric used should be low piling and permeable fabric used on upholstery of seat and back of the chair.
10. All metal parts shall be Powder Coated and screws used should be anodized.
11. The color of fabric shall be confirmed at the time of order.
12. All dents, burrs and sharp edges shall be removed from the various components.

#### **Item No.4 - TECHNICAL SPECIFICATIONS FOR OFFICE ALMIRAH (SMALL)**

1. Almirah (small) with adjustable shelves conforming to IS: 3312 /1984 ISO – 9001, ISO- 14001/OHSAS CERTIFIED or BIFMA CERTIFIED manufacturers only.
2. Materials used: CRCA sheet and anodized screws.
3. **DIMENSIONS**

The dimensions of Almirah (small) shall conform to IS 3312 / 1984.

Height	:	1280mm including the height of pedestals (pedestals height should be 125mm $\pm$ 5mm).
Width	:	765mm
Depth	:	430mm
No. of shelves	:	Three Numbers (adjustable)
Tolerances	:	$\pm$ 5mm

#### **4. FABRICATION**

- a. Sides, Back, Top and Bottom shall be made of Mild steel CRCA sheet 0.8mm thickness.
  - b. **Supports:** The adjustable shelves shall be supported on four adjustable brackets, resting on slotted MS Strips, fixed at four inside corners of almirah.
  - c. **Doors:** The steel Almirah shall be provided with two doors formed out of mild steel CRCA sheet which shall have 1mm thickness.
  - d. Pedestal shall also be made from mild steel CRCA sheet 0.8mm
  - e. Hinges shall be either plain butt type made from mild steel 1.6mm thick or double folded type fabricated from mild steel 1.2mm thick The number of hinges on each door shall be three numbers.
5. **Locking Mechanism:** There shall be suitable locking mechanism not be less than six levers brass lock with duplicate keys of non corrosive material and three way bolting device .
  6. All metal parts shall be powder coated and screws used should be anodized.
  7. **FINISH:** All Steel components shall be free from dents, burs and sharp edges. The components shall be individually picked, scrubbed and rinsed to remove grease, rust, scale or any other foreign element. The finish should be smooth and uniform. The finish shall be free from all visible defects.

### **Item No.5 - Technical Specifications of Steel Rack**

1. Rack (steel) standard covers requirements of materials, construction and finish with adjustable shelves by an **ISO – 9001, ISO- 14001/OHSAS CERTIFIED or BIFMA CERTIFIED** manufacturers.
2. **MATERIALS:** Mild Steel Sheet shall wherever used shall be CRCA. Angle sections should be cold formed from strip steel conforming to IS 4030-1973. The bolts used for assembly of side racks shall be (6mm in dia) and the thickness of the square nut shall be 6mm. (Tolerance =  $\pm$  1mm)
3. **DIMENSIONS:** The overall dimensions of side racks shall be as follows:

Height	:	1800mm (excluding pedestals height 125mm $\pm$ 2mm)
Width	:	900mm
Depth	:	430mm
Tolerance	:	$\pm$ 5mm
4. The metal racks shall have 5 shelves; the top shelf shall be flush with the top of the angle posts and, therefore, the first hole shall be appropriately located. The bottom shelf shall be fixed at the second hole from the bottom.
5. Back and sides of rack should be covered by CRCA metal sheet duly powder coated, i.e. Rack should be covered from 3-sides.
6. The length of angle posts shall correspond to height of rack. The thickness of post when made from sheet shall be not less than 3mm. Rolled steel angle posts shall be 40 x 40 x 2mm size. Angle posts shall be free from twist, sharp edges and burrs. Angle posts shall have 6-8mm diameter holes provided at 50 mm center approx. Shelves shall be made from mild steel sheets having 9 folds not less than 1.0 mm in thickness. Shelves shall have lipped flanges, width of flange being 30mm and depth of lip 15 mm. The size of shelves shall be derived from the dimensions of racks. Shelves have 6-8mm corresponding holes for fixing them to angle posts. In addition, shelves shall have 8 mm holes for corner gussets. Eight gussets, four on each face of the rack shall be fitted. Gussets shall be made of 1.00 mm minimum thick mild steel sheet and shall be not less than 75 mm long each end joining to the shelf and the angle post. The various components shall be assembled by means as per IS: 3761–1983.
7. **FINISH:** All dents, burrs and sharp edges shall be removed from the various components. The components shall be individually pickled, scrubbed and rinsed to remove grease, rust, scale or any other foreign element. All metal parts should be Powder Coated. The dry film thickness shall be not less than 0.10 mm.

### **Item No.6 - Technical Specifications of Student Table with Chair (for two)**

1. Student Table with chair's standard covers requirements of materials, construction and finish by an **ISO – 9001, ISO- 14001/OHSAS CERTIFIED or BIFMA CERTIFIED** manufacturers only.
2. **MATERIALS:** Mild Steel Sheets conform to grade of IS-513 / 1986.
  1. Frame and Base made out of 50mm x 25mm x 1.2mm CRCA Pipes.
  2. Foot rest should be made out of two parallel CRCA MS 25mm square pipes; welded with the frame.

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3. The table top and Side-Panels should screw tighten / welded with Horizontal / Parallel Sectional Pipes of 25mm x 25mm x 1.2mm.
  4. The tapped edges of the Base Pipe and Frame Pipe should have Polyurethane cap.
  5. Screws used should be anodized. Steel parts should have been given antirust treatment.
  6. Front and Side-Panels made out of 22 SWG CRCA sheet.
  7. The width of Front panel covering shelf shall not be less than 175mm. Similarly the width of Side-Panel should not be less than 250mm. However, the Panels incorporate C-Bend at the edges to avoid sharp edges.
  8. The shelf 150mm  $\pm$  5mm underneath top, should have a depth of 300mm  $\pm$  5mm supported with 2mm thick metal strip.
  9. Chair Seat, Chair Back, Table top and shelf of the Table shall made from 18mm thick both said laminated MDF board conforming to ISI-14587 along with PVC beading all around.
  10. Frame under chair/seat should be supported by CRCA MS 25mm square pipe, welded with the frame.
3. **TABLE AND CHAIR DIMENSIONS:** The dimensions of the Student Table shall be: 1200mm (L) x 450mm (D) x 750mm (H)  $\pm$  5 mm. The dimensions of Student Bench-Chair with Back, suitable for two students shall be: 1200mm (L) x 400mm (D) x 440mm seat height x 850mm back height. Back width shall be 300mm. Seat and Back made of both side laminated MDF board conforming to ISI-14587 along with PVC beading all around. Bench-Chair frame made out of 25mm square pipe 16 SWG.
11. All metal parts shall be powder coated and screws shall be anodized.
  12. **FINISH:** All Steel components shall have smooth finish, free from dents, burs and sharp edges. The components shall be individually picked, scrubbed and rinsed to remove grease, rust, scale or any other foreign element. After pickling, the steel parts shall be given a phosphate treatment.

### Item No.7 - Technical Specifications of White Boards

1. **MATERIALS:** The White Board shall have Anodized Aluminum sheets for beading and string purposes shall conform to IS: 4972 : 1986. White board used shall be of superior quality with porcelain fused steel Matt surface suitable for writing with sketch pen and wiping with ordinary duster as well as for Projection Screen. The white Board and all other accessories should have Magnetic effect. It should also be suitable as Projection Screen.
2. **DIMENSIONS:** The dimensions of White – Board shall be 1200 x 3600mm  $\pm$ 5mm.
3. **FABRICATION:** It should be with even surface and scratch resistant. It should have no effect to any chemical influence. The board shall have an envelope of Aluminum beading in such a way that the board remains in this framework only. The beading at four corners of the board shall be hinged properly.
4. It should be designed with in-built arrangements to hang/install in proper balance and put in use instantly.
5. **ACCESSORIES:** Hardware, nuts, bolts and screws should be of chemically anodized steel.

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## **Item No.8 - Technical Specifications of Library Cabinet (Steel) with Glass Door**

1. Library Cabinet (Steel) with Glass Door standard covers requirements of materials, construction and finish of Toughened Glass with adjustable shelves from **ISO – 9001, ISO- 14001/OHSAS CERTIFIED or BIFMA CERTIFIED** manufacturers only.
2. **DIMENSIONS:**

The dimensions of Library Glass Door Cabinet shall:

Height: 1800mm

Width: 900mm

Depth: 375mm

No. of shelves: Four Numbers (adjustable)

Tolerances:  $\pm 5$ mm
3. **MATERIALS:** Should be Mild Steel Sheets wherever used shall be CRCA and screws shall be anodized.
4. Cabinet Sides, Back, Top and Bottom shall be made of Mild steel sheet 0.8mm thickness.
5. The adjustable shelves shall be supported on four adjustable brackets, resting on slotted MS Strips, fixed at four inside corners of Cabinet.
6. The Glass Door Cabinet shall be provided with two doors, fitted with Toughened Glass, formed out of mild steel sheet which shall have 1mm thickness.
7. The pedestal shall also be made from mild steel sheet 0.8mm.
8. The hinges shall be either plain butt type made from mild steel 1.6mm thick or double folded type fabricated from mild steel 1.2mm thick.
9. The number of hinges on each door shall be three numbers. There shall be suitable locking mechanism not be less than six levers brass lock with duplicate keys of non corrosive material and three way bolting device controlled by zinc based alloy handle.
10. All Metal Parts shall be powder coated and screws shall be anodized.
11. **FINISH:** All Dents. Burns and Sharp edges shall be removed from the various components. The components shall be individually pickled, scrubbed and rinsed to remove grease, rust scale or any other foreign element.

## **Item No.9 - Technical Specifications of Notice Board**

1. Notice board should be made from Slimline aluminium frame in satin silver.
  2. Fabric shall be used Camira lucia fire rated fabric BS476 Part 7 Class 1 type.
  3. Dimension: 1200mm (length) x1800mm (width), tolerance:  $\pm 5$ mm.
  4. Notice Board shall have easy fix corners conceal fixings.
  5. Should be supplied with wall fixing unit.
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### Item No.10 - Technical Specifications of Study-Table

1. Study Table standard covers requirements of materials, construction and finish by an **ISO – 9001, ISO- 14001/OHSAS CERTIFIED or BIFMA CERTIFIED** manufacturers only.
2. **MATERIALS:** Mild Steel Sheets wherever used shall be CRCA and screws used shall be anodized.
3. The dimensions of the table and table top shall be: 900mm (L) x 600mm (D) x 750mm (H), Tolerance  $\pm 5$ mm.
4. The top shall be made from both side pre laminated, 18mm thick both side laminated MDF board confirming to ISI-14587, along with PVC beading all around the top.
5. The drawer box shall be made from metal sheet not less than 0.8 mm thick, suitable for one drawer.
6. Drawer shall be made from CRCA sheet not less than 0.63 mm thick and shall have a stopper arrangement at the rear, holding drawer in the box when it is fully opened. Minimum dimension of the drawer: Width: 315 mm; Ht: 125 mm; Depth: 445 mm; Tolerance:  $\pm 5$ mm. The lock shall not be less than six levers Brass-lock with duplicate keys of non-corrosive material. Each drawer shall be fitted with a built-in drawer pull system duly padded with a plastic cover.
7. **TUBULAR FRAME:** The legs of the frame shall be made from CRCA 25 mm square steel tubular pipe with a wall thickness of 1.2 mm, welded/screwed to the main frame, under the table top, made of C shaped metal sheet with a thickness of 1.2 mm and minimum front width of 30mm.
8. **FINISH:** All Dents, Burns and Sharp edges shall be removed from the various components. The components shall be individually pickled, scrubbed and rinsed to remove grease, rust scale or any other foreign element. All metal parts finally are powder coated. The finish should be smooth and uniform. The finish shall be free from all visible defects.

### Item No. 11 - Technical Specification of Study Chair

1. Chair should be perfectly ergonomically designed manufactured by an **ISO – 9001, ISO- 14001/OHSAS CERTIFIED or BIFMA CERTIFIED** manufacturers only.
2. Screws used, if any, should be anodized.
3. Seat made out of metal perforated CRCA sheet of 20 SWG, duly powder coated
4. Half back made out of metal perforated CRCA sheet of 22 SWG, duly powder coated
5. The Chair frame made from 19mm Dia CRCA Steel pipe of 20 SWG, duly powder coated.
6. The chair should have comfortable and balanced seating.
7. The chair should have metal arms.

8. **DIMENSIONS:**

Height of the Chair	:	805mm
Depth of the Chair	:	520mm
Seat Height	:	450mm
Width of the chair seat	:	450mm
Tolerance	:	$\pm 5$ mm

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9. All dents, burrs and sharp edges shall be removed from the various components. The components shall be individually pickled, scrubbed and rinsed to remove the grease, rust, scale or any other foreign element.
10. Chair should be compatible & tested for stability at least up to a weight of 120kg load.

### **Item No. 12 - Technical Specifications of Geyser (50 Ltr)**

1. Geyser type should be Class I and BEE star rating should be 5.
2. Outer Frame of Geyser should be made of high quality Mild Steel sheet duly pre-treated and finished in either white stove enamel paint or powder coated in white color. Storage electric water heater shall be complete in all respect with fittings as per the general technical requirement.
3. Material of the Inner container of geyser should be Vertical Type, Made of Stainless Steel shall conform to material grade 04Cr18Ni11 or 07Cr18Ni9 of IS:1570 (Part- 5)/1985 (reaffirmed 2004) or Best Quality Copper shall be of copper purity 90% minimum with impurities of zinc not exceeding 1%.
4. Geyser should be vertical type.
5. Geyser Body Diameter shall be between 350mm to 480mm height shall be 400mm to 650mm.
6. Geyser should be Environment friendly (CFC free) PUF insulation to minimize heat loss and reduce power consumption.
7. Heating element should be high quality "D" Type heating element (needed for hard water problems). D-shaped mineral filled heating elements with pockets (vertical models ) to increase the life span of water heater.
8. Working pressure of geyser should between 7 Kg/cm<sup>2</sup> to 10 Kg/cm<sup>2</sup>.
9. Geyser should works on 220-240V, single phase AC, 50Hz, ISI marked to IS:2082 and Power rating should be 2000watts.
10. Geyser temperature raised should be 30°C per minute.
11. Geyser should have externally adjustable capillary thermostat (imported quality) ranging from 30°C to 75°C.
12. Geyser should have:
  - An additional thermal cut-out, set at 90°C, for back-up safety measure, which restarts manually.
  - Pressure release valve fitted on the inlet pipe to release any excess pressure.
  - Analog Temperature Indicator.
13. Bidder should be installed Geyser with including all other accessories/fitting required for make functional at FOR location.
14. Guaranty should be 03 years from the date of successful installation at consignee place.

### **Item No. 13 Technical Specification of Computer Table**

1. Computer Table with sliding Tray for keyboard and storage shelf should be perfectly ergonomically designed by an **ISO – 9001, ISO- 14001/OHSAS CERTIFIED or BIFMA CERTIFIED** manufacturers only.
  2. **MATERIALS:** Should be Mild Steel Sheets and pipes used for table, should be CRCA and screws shall be anodized.
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3. **DIMENSIONS:**

The dimensions of COMPUTER Table shall:

Width: 1200mm

Depth: 600mm

Height: 750mm

Tolerances:  $\pm 5$ mm

with three drawer box on right side, one shelf for CPU & stationery and one sliding tray for key board.

4. Frame and Base of Computer Table made out of **50mm x 25mm x 1.2mm** CRCA Pipes.
5. The table top and Side-Panels should screw tighten / welded with Horizontal / Parallel Sectional Pipes of **25mm x 25mm x 1.2mm**.
6. The tapped edges of the Base Pipe and Frame Pipe should have Polyurethane Cap cover.
7. Front and Side-Panels made out of 0.8mm gauge CRCA sheet. The width of Front panel shall not be less than 175mm. Similarly the width of Side-Panel should not be less than 250mm. However, the Panels incorporate C-Bend at the edges to avoid sharp edges.
8. Both side laminated Table top, sliding tray for keyboard and shelf of the Table shall have 18mm thick MDF board conforming to ISI-14587, along with PVC beading all around.
9. **The size of Keyboard Sliding Tray should not be less than 500mm x 425mm.** The Keyboard Sliding tray for movements should have ball bearing type guides.
10. The full length shelf underneath for CPU, rested on 25mm square pipes should have a depth of 300mm, under the sliding tray.
11. **DRAWER BOX:** The drawer box shall be made from CRCA metal sheet not less than 0.8mm thick. The width of the Drawer Box: 355mm, height: 415mm and depth: 565mm with tolerance limit:  $\pm 5$ mm.
12. **DRAWER:** 3-Drawers shall be made from CRCA sheet not less than 0.63 mm thick and shall have a slot and stopper strip of metal sheet at the rear, holding drawer in the box when it is fully opened. Dimension of a drawer:- Width : 315mm, Height: 125mm and Depth of the drawer: 445mm with Tolerance limit:  $\pm 5$ mm. There shall be suitable locking mechanism not be less than six levers brass lock with duplicate keys of non corrosive material and each drawer shall be fitted with a built-in drawer pull system duly padded with plastic cover.
13. Drawers movement should be smooth based on channel type mechanism of good quality.
14. All metal parts shall be powder coated and screws used shall be anodized.
15. **FINISH:** All Steel components shall be free from dents, burs and sharp edges. The components shall be individually picked, scrubbed and rinsed to remove grease, rust, scale or any other foreign element. The finish should be smooth and uniform. The finish shall be free from all visible defects.

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**Other T&C**

1. Minimum 1 year manufacturing defect guaranty i.e. fabric, welding, screws etc, excluding item No.12- Geysers.
2. All tubular ends in table & chair should be covered with good quality rubber stopper.
3. Packing shall be of good quality to avoid damage or scratches during transit.
4. Color of item (frame & Fabric) shall be confirmed by ordering authority at the time of supply order or as per sample. Possible color options must be identified by bidder for various parts.
5. The final technical approval of furniture items shall be after inspection of samples by technical committee at the time of technical bid evaluation.
6. The Technical Committee or RMSCL representative may visit manufacturing unit any time during Rate Contract period on expenses of bidder.

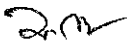
The last date for sale of bid, receipt of bid & date of opening of technical bid is hereby extended as below:-

Extended dates		
Last Date for Sale of Bid Form	Last Date of Receipt of Bid Form	Date of Opening of Technical Bid
20.10.2015 11:00 AM	20.10.2015 01:00 PM	20.10.2015 03:00 PM

Please note that all clarification/amendment/corrigendum in technical specifications/bid conditions is the integral part of the bid document. This corrigendum/ addendum should be signed and annexed with bid document.

All other terms & conditions remains the same.

This bears the approval of M.D., RMSCL, Jaipur.

  
**Executive Director (EPM)**  
**RMSC, Jaipur**

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