**M2/12/6000001441/ BRK Specifications**

1. **SPECIFICATION FOR CONFERENCE TABLE: – 1 No.**

**Material Code: CG3900001707- Conference Hall Table 16 Seater**

* Top:

Top work surface Thickness : 37.5 mm (18mm +18mm baton (skirting)+1mm DL+0.4mm membrane),

Edge profile: Water fall edge with radius of 18mm (approx.) on top edge. Substrate MDF.

Skin: PVC membrane foil (0.4 mm thick clad on the substrate of MDF using PU glue for better scratch resistance.

* Under structure

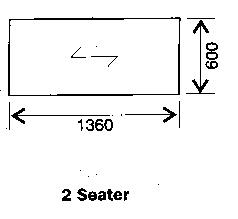
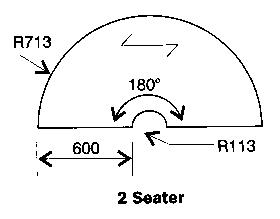
Legs: Made from 36mm pre laminated particle board (18+18) having a straight profile with half round edges and clad with 0.6mm thick post forming laminate. Overall thickness of leg=38mm

* Modesty:

Modesty panel has to be made from pre laminated twin

board of 18mm thick.



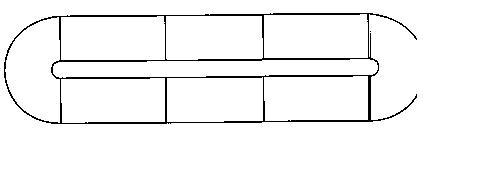
**FULL CONFERENCE TABLE:**

* Size (Approx.):

5400mm (L) x 1400mm (W) x 750mm (H)

No.of 2 Seaters (Straight) – 6

No.of 2 Seaters (Half Round) – 2



1. **SPECIFICATION FOR CONFERENCE ROOM CHAIR:-16 NOS.**

**Material Code: CG3900002703.**

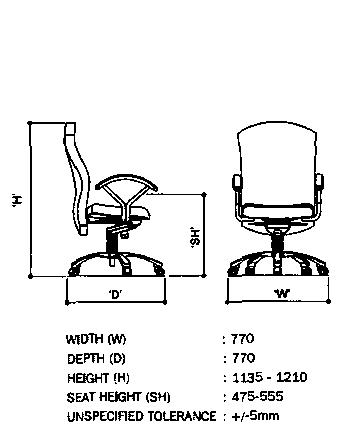
* Seat/ Back Assly: The seat and Back are to be made of 12 mm thick hot pressed plywood, upholstered with top grain leather. The back foam is to be designed with counter lumbar support for extra comfort.

* Seat ply size (Approx): 45 cm (W) x 53 cm (H)
* Polyurethane foam : The polyurethane foam is moulded with density=45+/- 2Kg /cu.mtr and Hardness= 20+/- 2 on Hampden machine at 25 % compression.
* Armrests: The armrests should be leather clad. The armrests should be scratch and weather resistant. The armrests are to be fitted to the seat with seat/ armrest connecting strip assly made of 0.5 cm thick HR steel.

Permanent contact mechanism: The permanent contact mechanism with 360 degree revolving facility and provision for back tilt arrangement. Required facility for tilt tension adjustment has to be provided.

* Height adjustment: The gas lift for height adjustment may be of personalized choice with upright position locking arrangement.
* Telescopic below assly: The below with 3 piece telescopic type and injection moulded in black polypropylene.
* Pedestal Assly: The pedestal has to be made of aluminium. 5 Nos of twin wheel castors are to be provided. The castor wheels made of nylon material and twin wheel castors with hood for extra protection may be used.
* Chairs to be provided with knee synchronal tilt, multipurpose locking and anti-shocking mechanisms.





1. **SPECIFICATION FOR CONFERENCE ROOM BACK ROW CHAIR:- QTY- 16 NOS. Material Code: CG3900002711.**

* Seat/ Back Assly: The seat and Back are to be made of 12 mm thick hot pressed plywood, upholstered with top grain leather. The back foam is to be designed with counter lumbar support for extra comfort.

* Seat ply size (Approx): 45 cm (W) x 53 cm (H)
* Polyurethane foam: The polyurethane foam is moulded with density=45+/- 2Kg /cu.mtr and Hardness= 20+/- 2 on Hampden machine at 25 % compression.
* Armrests: The armrests should be scratch and weather resistant. The armrests are to be fitted to the seat with seat/ armrest connecting strip assly made of 0.5 cm thick HR steel.
* Height adjustment: Mid-Back, Sled Based (Fixed).
* Pedestal Assly: The pedestal has to be made of coated Die-cast Aluminium (buffed finish), Flat contact to floor with bushes, semi arm rest connecting to back assembly.



All Dimensions in mms.

1. **SPECIFICATION FOR GLASS DOOR STORAGE UNIT : QTY: 8 NOS**

**Material Code: 3900005702**

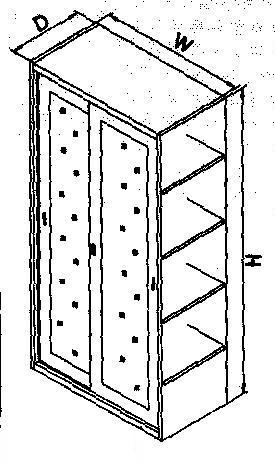
* Storage unit: Required for the storage of variety of documents, office files, stationary items, manuals, documents etc.
* Construction: CRCA steel conforming to IS 513 Gr. D. with metal door and wooden top. The minimum thickness of CRCA steel is 1.00 mm and the thickness of pre laminated particle board is 25 mm. The edges of PLB are to be finished with 2mm thick PVC lipping. Provision of metal top (below PLB) has to be ensured.

* Door arrangement: Full height hinged door arrangement to be provided.
* Locking & Handle: Aesthetically appealing die cast 5 lever cam lock with 2 keys. Keys should have unique system such that interchangeability with other unit is not there. Handle shall be of plastic flush & recessed modal.
* Shelves: CRCA steel confirming to IS 513 Gr. D thickness 1.00 mm (minimum) – height wise adjustable shelf mounting. Uniformly distributer load carrying capacity of 70 kg maximum for each self. Two numbers of adjustable shelves per storage unit. (3 levels formed by 2 Nos. of adjustable shelves).

;

* Painting: Epoxy polyester powder coated to the thickness of minimum 40 microns. Before powder coating, metal surfaces are to be treated for anti

rust.

****

* DIMENSIONS

|  |  |  |  |
| --- | --- | --- | --- |
| GLASS DOOR STORAGE UNIT | 916 | 1981 | 486 |

1. **SPECIFICATION FOR PLAIN DOOR STORAGE UNIT: QTY: 8 NOS**

**Material Code: CG3900005745**

* Storage unit: Required for the storage of variety of documents, office files, stationary items, manuals, documents etc.
* Construction: CRCA steel conforming to IS 513 Gr. D. with metal door and wooden top. The minimum thickness of CRCA steel is 1.00 mm and the thickness of pre laminated particle board is 25 mm. The edges of PLB are to be finished with 2mm thick PVC lipping. Provision of metal top (below PLB) has to be ensured.
* Door arrangement: Full height hinged door arrangement to be provided.
* Locking & Handle: Aesthetically appealing die cast 5 lever cam lock with 2 keys. Keys should have unique system such that interchangeability with other unit is not there. Handle shall be of plastic flush & recessed modal.
* Shelves: CRCA steel confirming to IS 513 Gr. D thickness 1.00 mm (minimum) – height wise adjustable shelf mounting. Uniformly distributer load carrying capacity of 70 kg maximum for each self. Two numbers of adjustable shelves per storage unit. (3 levels formed by 2 Nos. of adjustable shelves).
* Painting: Epoxy polyester powder coated to the thickness of minimum 40 microns. Before powder coating, metal surfaces are to be treated for antirust.



|  |  |  |  |
| --- | --- | --- | --- |
| **Model** | **Width** | **Height** | **Depth** |
| PLAIN DOOR STORAGE UNIT | 916 | 1981 | 486 |

1. **SPECIFICATION FOR SINGLE SEATER SOFA:QTY: 4 NOS**

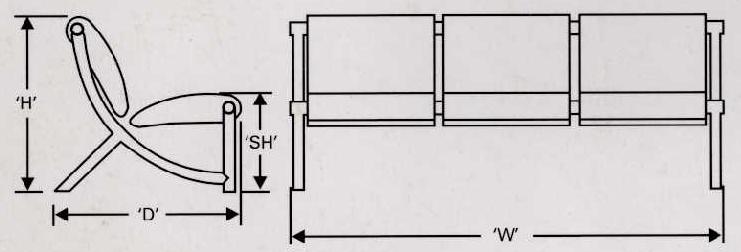
**Material Code: CG3900003700.**

Overall Dimension of the sofa is as below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MODEL** | **WIDTH** | **HEIGHT** | **DEPTH** | **SEAT HEIGHT** |
| 1 Seater | 685 mm | 750 mm | 7783 mm | 415 mm |

* **Seat / Back**: Shall be made of Polyurethane foam with wood inserts for long life & comforts. Changeable Upholstery shall be choosable color range valve tine. Fabric shall have composition of surface – 100% polyamide, substrate – 65% Polyester & 35% cotton, stain repellent, Abrasion resistance.
* **Frame**: Shall be made of High quality steel tubes with chrome plated, non – rusting type. Shall be 2 side frames with connecting members. Tenderers are required to provide the necessary test certificate or manufacturer’s confirmation with their tenders. Rubber / Teflon shoe for antiskid ding.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **1 seater** |  | Total Width  (W) | Depth  (D) | Height  (H) | Seat Height  (SH) |
| 1 - Seater | 685 | 783 | 750 | 415 |
| * All Dimensions in mms * Unspecified tolerance ± 5 mm | | | | |

****

**GENERAL**

* Suppliers internal Test certificate for dimensions, Visual inspection, Paint to be submitted before giving inspection call to BHEL.
* Pre-dispatch inspection by BHEL/Customer at suppliers works.
* Item shall be packed in all weatherproof packing with sufficient cushioning to avoid transit damages. Specific storage requirements, if any, to be indicated by supplier.
* Assembly, erection and installation at site to be carried out by supplier. Offer to include charges for it at site along with necessary touchup etc.
* Quotation should clearly specify the address on which the purchase orders are to be placed.
* All terms and conditions as indicated by Purchase department are final

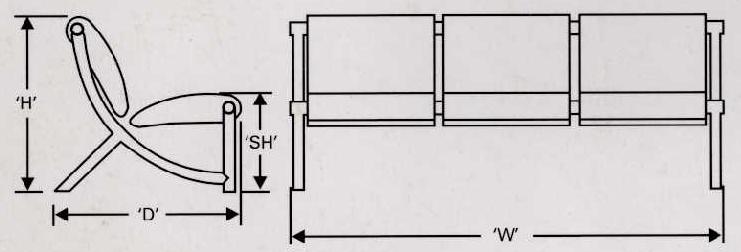
1. **SPECIFICATION FOR 2 SEATER SOFA:QTY: 2 NOS Material Code: 3900003718**

Overall Dimension of the sofa is as below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MODEL** | **WIDTH** | **HEIGHT** | **DEPTH** | **SEAT HEIGHT** |
| 2 Seater | 1257 mm | 750 mm | 783 mm | 415 mm |

* **Seat / Back**: Shall be made of Polyurethane foam with wood inserts for long life & comforts. Changeable Upholstery shall be choosable color range valve tine. Fabric shall have composition of surface – 100% polyamide, substrate – 65% Polyester & 35% cotton, stain repellent, Abrasion resistance.
* **Frame**: Shall be made of High quality steel tubes with chrome plated, non – rusting type. Shall be 2 side frames with connecting members. Tenderers are required to provide the necessary test certificate or manufacturer’s confirmation with their tenders. Rubber / Teflon shoe for antiskid ding.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **2 seater** |  | Total Width  (W) | Depth  (D) | Height  (H) | Seat Height  (SH) |
| 1 - Seater | 685 | 783 | 750 | 415 |
| * All Dimensions in mms * Unspecified tolerance ± 5 mm | | | | |

****

**GENERAL**

* Suppliers internal Test certificate for dimensions, Visual inspection, Paint to be submitted before giving inspection call to BHEL.
* Pre-dispatch inspection by BHEL/Customer at suppliers works.
* Item shall be packed in all weatherproof packing with sufficient cushioning to avoid transit damages. Specific storage requirements, if any, to be indicated by supplier.
* Assembly, erection and installation at site to be carried out by supplier. Offer to include charges for it at site along with necessary touchup etc.
* Quotation should clearly specify the address on which the purchase orders are to be placed.
* All terms and conditions as indicated by Purchase department are final

1. **SPECIFICATION FOR 5 SEATER SOFA: QTY: 1 NO**

**Material Code: CG3900003726.**

Overall Dimension of the sofa is as below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MODEL** | **WIDTH** | **HEIGHT** | **DEPTH** | **SEAT HEIGHT** |
| 1 Seater ( 2 Nos ) | 1010 - 1040 mm | 450 - 950 mm | 900 - 1000 mm | 400 – 450 mm |
| 3 Seater (1 No.) | 1800 - 2100 mm | 450 - 950 mm | 900 - 1000 mm | 400 – 450 mm |

* Seat, Back and armrests – Padded with polyurethane foam and upholstered in Synthetic Leather with dark color (preferably Burgundy, Black & Dark Blue, etc.,). Frame of sofas made of durable wood and the base of seat and backrest equipped with suitable springs for cushion effect.
* Flammability – the flammability of the fabric should comply with BS5952 Part 1 1979 Ignition source O (Cigarette). Tenderers are required to provide the necessary test certificate or manufacturer’s confirmation with their tenders.
* Legs – Suitable dia. Steel tube / Wooden with black plastic shoe.

|  |
| --- |
| RAGHU |

**GENERAL**

* Suppliers internal Test certificate for dimensions, Visual inspection, Paint to be submitted before giving inspection call to BHEL.
* Pre-dispatch inspection by BHEL/Customer at suppliers works. Item shall be packed in all weatherproof packing with sufficient cushioning to avoid transit damages. Specific storage requirements, if any, to be indicated by supplier.
* Assembly, erection and installation at site to be carried out by supplier. Offer to include charges for it at site along with necessary touchup etc.
* Quotation should clearly specify the address on which the purchase orders are to be placed.
* All terms and conditions as indicated by Purchase department are final

1. **SPECIFICATION FOR CENTRE TABLE: QTY: 2 NOS**

**Material Code: CG3900001715.**

* Table should have overall dimension of 1000(W) X 650(D) X 450(H) mm
* Table top: Premium quality Glass top is to be provided.
* Legs: Legs should be wooden with square type over which four metal pieces are placed to attach legs to glass top.
* The glass and metal are joined using UV technology
* All metal parts are to be powder coated.

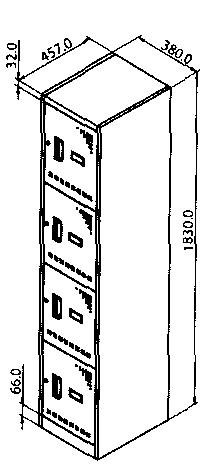


* DIMENSIONS :

1000(W) X 650(D) X 450(H) mm

1. **SPECIFICATION FOR 4 DOOR PERSONAL LOCKER UNITS:**

**QTY: 6 NOS. Material Code: CG3900005710.**

* Personal Lockers are for space saving and safe storage of personal items, files etc., in factory area and workshops etc.,
* Construction: CRCA steel conforming to IS 513 Gr. D. to be used. The minimum thickness of CRCA steel is 1.00 mm and the thickness of pre laminated particle board is 25 mm. The edges of PLB are to be finished with 2mm thick PVC lipping. Provision of metal top (below PLB) has to be ensured.
* All doors should have ventilating louvers for air circulation.
* Label Holders are to be provided over doors for easy identification.
* The Handle should be easy to gasp.
* Painting: Epoxy polyester powder coated to the thickness of minimum 40 microns. Before powder coating, metal surfaces are to be treated for antirust.
* DIMENSIONS: 380mm(W) X 1830mm(H) X 450mm(D)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. **SPECIFICATION FOR SHOE CABINET: QTY- 2 NOS**   **Material Code: CG3900004706.**     * The multi-functional Shoe cabinet is a 3 door shoe storage unit and is equipped to seat up to 3 people at a time. * Construction: The material used should be pre laminated wooden boards of good quality. * Polyurethane foam: The polyurethane foam is moulded with density=45+/- 2Kg /cu.mtr and Hardness= 20+/- 2 on Hampden machine at 25 % compression is to be provided over the cabinet for seating. * Sliding door arrangement: Each door shall be provided with hinges for the for smooth movement of door. * DIMENSIONS  |  |  |  |  | | --- | --- | --- | --- | |  | **Width** | **Height** | **Depth** | | SHOE CABINET | 1200 | 490 | 395 |     Multi-Function-SeaterStorage-203M |

**12 SPECIFICATION FOR VERTICAL FILING CABINET:QTY: 9 NOS Material**

**Code: CG3900005729.**

* Storage unit: Required for easy storage, identification and handling of variety of documents, manuals, records etc.
* Construction: CRCA steel conforming to IS 513 Gr. D. to be used. The minimum thickness of CRCA steel is 1.00 mm and the thickness of pre laminated particle board is 25 mm. The edges of PLB are to be finished with 2mm thick PVC lipping. Provision of metal top (below PLB) has to be ensured.
* The drawer sliding mechanism should adhere to BIFMA Performance standards and should have smooth movement.
* VFCs should be provided with Anti-rebound mechanism to prevent the drawer from coming out after it is pushed in.
* VFCs should also be provided with Anti-tipping mechanism which allows only one drawer to be opened at a time preventing toppling over of the cabinet.
* The Handle should be easy to gasp and recessed full-length drawer pulls.
* Painting: Epoxy polyester powder coated to the thickness of minimum 40 microns. Before powder coating, metal surfaces are to be treated for antirust.



* DIMENSIONS

|  |  |  |  |
| --- | --- | --- | --- |
| **Model** | **Width** | **Height** | **Depth** |
| 2 DRAWER VFC | 470 | 470 | 620 |

**13. SPECIFICATION FOR VERTICAL STORAGE UNIT WITH SLIDING GLASS DOORS: QTY: 15 NOS. Material Code: CG3900006709**

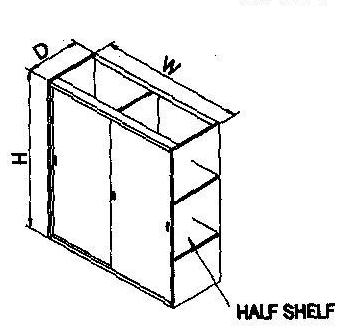
* Storage unit: Required for the storage of variety of documents, office files, stationary items, manuals, documents etc.
* Construction: CRCA steel conforming to IS 513 Gr. D. with metal door and wooden top. The minimum thickness of CRCA steel is 1.00 mm and the thickness of pre laminated particle board is 25 mm. The edges of PLB are to be finished with 2mm thick PVC lipping. Provision of metal top (below PLB) has to be ensured.
* Sliding door arrangement: Full height sliding door with top hanging arrangement to prevent derailment. Each door shall be provided with two plastic rollers having steel ball bearing for smooth movement of door.
* Locking & Handle: Aesthetically appealing die cast 5 lever cam lock with 2 keys. Keys should have unique system such that interchangeability with other unit is not there. Handle shall be of plastic flush & recessed modal.
* Shelves: CRCA steel confirming to IS 513 Gr. D thickness 1.00 mm (minimum) – height wise adjustable shelf mounting. Uniformly distributer load carrying capacity of 70 kg maximum for each self. Three numbers of adjustable shelves per storage unit. (4 levels formed by 3 Nos. of adjustable shelves).

;

* Painting: Epoxy polyester powder coated to the thickness of minimum 40 microns. Before powder coating, metal surfaces are to be treated for antirust.

* Front Door shall of Glass type with proper back support to the glass for its rugged operation during sliding.
* Top: Top surface shall be metal.





Glass Door with Lock & Key Arrangement

* DIMENSIONS

|  |  |  |  |
| --- | --- | --- | --- |
| **Model** | **Width** | **Height** | **Depth** |
| BHEL- **CG3900006709** | 900 | 1830 | 450 |

**14. SPECIFICATION FOR VERTICAL STORAGE UNIT WITH SLIDING DOORS: QTY : 4 NOS Material Code: CG3900006717.**

* Storage unit: Required for the storage of variety of documents. office files, stationary items, manuals, documents etc.
* Construction: CRCA steel conforming to IS 513 Gr. D. with metal door and wooden top. The minimum thickness of CRCA steel is 1.00 mm and the thickness of pre laminated particle board is 25 mm. The edges of PLB are to be finished with 2mm thick PVC lipping. Provision of metal top (below PLB) has to be ensured.
* Sliding door arrangement: Full height sliding door with top hanging arrangement to prevent derailment. Each door shall be provided with two plastic rollers having steel ball bearing for smooth movement of door.
* Locking & Handle: Aesthetically appealing die cast 5 lever cam lock with 2 keys. Keys should have unique system such that interchangeability with other unit is not there. Handle shall be of plastic flush & recessed modal.
* Shelves: CRCA steel confirming to IS 513 Gr. D thickness 1.00 mm (minimum) – height wise adjustable shelf mounting. Uniformly distributer load carrying capacity of 70 kg maximum for each self. Two numbers of adjustable shelves per storage unit. ( 3 levels formed by 2 Nos. of adjustable shelves).

;

* Painting: Epoxy polyester powder coated to the thickness of minimum 40 microns. Before powder coating , metal surfaces are to be treated for antirust.



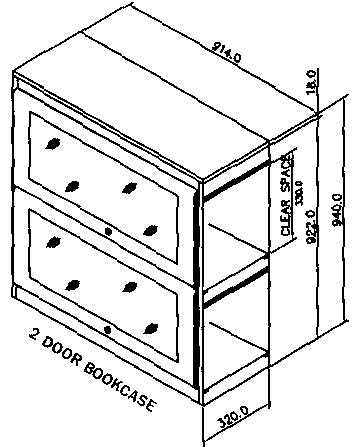
* DIMENSIONS

|  |  |  |  |
| --- | --- | --- | --- |
| **Model** | **Width** | **Height** | **Depth** |
| **Code: CG3900006717 VERTICAL STORAGE-BHEL** | 1200 | 1170 | 450 |

**15. SPECIFICATION FOR 2 DOOR BOOK CASE: QTY: 10 NOS**

**Material Code: CG3900005737**

* Storage unit: Required for the storage of variety of documents, office files, stationary items, manuals etc.
* Construction: CRCA steel conforming to IS 513 Gr. D. with metal door with glass embedding. The minimum thickness of CRCA steel is 1.00 mm and the thickness of pre laminated particle board is 25 mm. The edges of PLB are to be finished with 2mm thick PVC lipping. Provision of metal top (below PLB) has to be ensured.
* Doors are to be top hinged to facilitate easy use.
* Locking has to be 10 lever cam to provide added security.
* Equalizing mechanism should be provided in doors for easy opening and closing of book case.
* Painting: Epoxy polyester powder coated to the thickness of minimum 40 microns. Before powder coating, metal surfaces are to be treated for antirust.



* DIMENSIONS

|  |  |  |  |
| --- | --- | --- | --- |
| **Model** | **Width** | **Height** | **Depth** |
| 2 DOOR BOOK CASE (10 Nos) | 914 | 1736 | 320 |

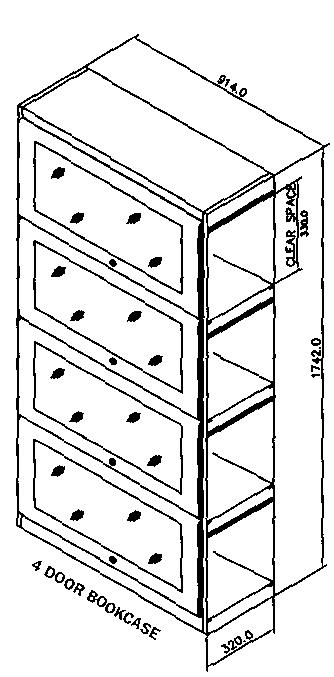
**16. SPECIFICATION FOR 4 DOOR BOOK CASE:QTY: 4 NOS Material Code: CG3900005761**

* Storage unit: Required for the storage of variety of documents, office files, stationary items, manuals etc.
* Construction: CRCA steel conforming to IS 513 Gr. D. with metal door with glass embedding. The minimum thickness of CRCA steel is 1.00 mm and the thickness of pre laminated particle board is 25 mm. The edges of PLB are to be finished with 2mm thick PVC lipping. Provision of metal top (below PLB) has to be ensured.
* Doors are to be top hinged to facilitate easy use.
* Locking has to be 10 lever cam to provide added security.
* Equalizing mechanism should be provided in doors for easy opening and closing of book case.

;

* Painting: Epoxy polyester powder coated to the thickness of minimum 40 microns. Before powder coating, metal surfaces are to be treated for antirust.





* DIMENSIONS

|  |  |  |  |
| --- | --- | --- | --- |
| **Model** | **Width** | **Height** | **Depth** |
| 4 DOOR BOOK CASE (4 Nos) | 914 | 938 | 320 |

**17. SPECIFICATION FOR VERTICAL STORAGE UNIT WITH SLIDING DOORS:QTY: 6 NOS Material Code: CG3900006725**

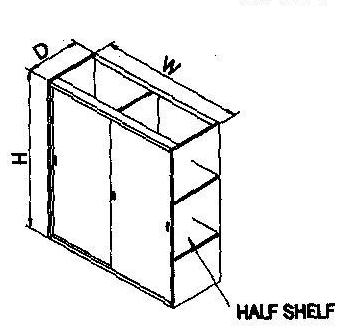
* Storage unit: Required for the storage of variety of documents, office files, stationary items, manuals, documents etc.
* Construction: CRCA steel conforming to IS 513 Gr. D. with metal door and wooden top. The minimum thickness of CRCA steel is 1.00 mm and the thickness of pre laminated particle board is 25 mm. The edges of PLB are to be finished with 2mm thick PVC lipping. Provision of metal top (below PLB) has to be ensured.
* Sliding door arrangement: Full height sliding door with top hanging arrangement to prevent derailment. Each door shall be provided with two plastic rollers having steel ball bearing for smooth movement of door.
* Locking & Handle: Aesthetically appealing die cast 5 lever cam lock with 2 keys. Keys should have unique system such that interchangeability with other unit is not there. Handle shall be of plastic flush & recessed modal.
* Shelves: CRCA steel confirming to IS 513 Gr. D thickness 1.00 mm (minimum) – height wise adjustable shelf mounting. Uniformly distributer load carrying capacity of 70 kg maximum for each self. Three numbers of adjustable shelves per storage unit. (4 levels formed by 3 Nos. of adjustable shelves).

;

* Painting: Epoxy polyester powder coated to the thickness of minimum 40 microns. Before powder coating, metal surfaces are to be treated for antirust.

* Top: Top surface shall be metal.





* DIMENSIONS

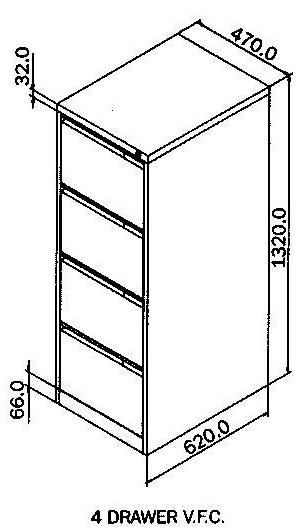
|  |  |  |  |
| --- | --- | --- | --- |
| **Model** | **Width** | **Height** | **Depth** |
| Bhel- **CG3900006725** | 900 | 1830 | 450 |

**18. SPECIFICATION FOR VERTICAL FILING CABINET: QTY: 6 NOS**

**Material Code: CG3900005753**

* Storage unit: Required for easy storage, identification and handling of variety of documents, manuals, records etc.
* Construction: CRCA steel conforming to IS 513 Gr. D. to be used. The minimum thickness of CRCA steel is 1.00 mm and the thickness of pre laminated particle board is 25 mm. The edges of PLB are to be finished with 2mm thick PVC lipping. Provision of metal top (below PLB) has to be ensured.
* The drawer sliding mechanism should ashere to BIFMA Performance standards and should have smooth movement.
* VFCs should be provided with Anti-rebound mechanism to prevent the drawer from coming out after it is pushed in.
* VFCs should also be provided with Anti-tipping mechanism which allows only one drawer to be opened at a time preventing toppling over of the cabinet.
* The Handle should be easy to gasp and recessed full-length drawer pulls.
* Painting: Epoxy polyester powder coated to the thickness of minimum 40 microns. Before powder coating, metal surfaces are to be treated for antirust.





* DIMENSIONS

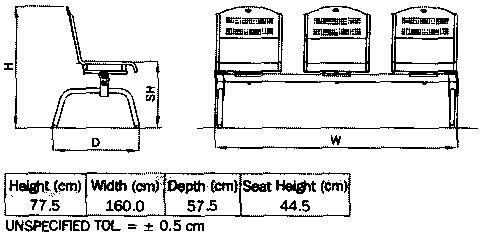
|  |  |  |  |
| --- | --- | --- | --- |
| **Model** | **Width** | **Height** | **Depth** |
| 4 DRAWER - **CG3900005753** | 470 | 1320 | 620 |

**19. SPECIFICATION FOR 3 SEATER ONBEAM METAL CHAIR: QTY: 10 NOS. Material Code: CG3900003734.**

* Seat/ Back Assly: The seat and Back are to be made of Metal Frame and it should be designed ergonomically.
* Seat Edges should be of waterfall type
* Square Mesh Vents to be provided for enhanced air flow and superior visual appeal.



* Dimensions (Approx.):



**20 SPECIFICATION FOR HIGH BACK REVOLVING CHAIR WITH ARMREST:QTY: 5 NOS**

**Material Code: CG3900002738.**

* Seat/ Back Assly: The seat and Back are to be made of 12 mm thick hot pressed plywood, upholstered with changeable fine top grain leather covers and moulded polyurethane foam, together with moulded back –spine cover. The back foam is to be designed with counter lumbar support for extra comfort.
* Seat ply size (Approx): 47.5 cm (W) x 55.5 cm (H)
* Polyurethane foam: The polyurethane foam is moulded with density=45+/- 2Kg /cu.mtr and Hardness= 20+/- 2 on Hampden machine at 25 % compression.
* Armrests: The armrests are to be made of Chrome polished tubular armrest supports the leather finished soft cushion top. The armrests should be scratch and weather resistant.
* Permanent contact mechanism: The permanent contact mechanism with 360 degree revolving facility and provision for back tilt arrangement. Required facility for tilt tension adjustment has to be provided.
* Height adjustment: The gas lift for height adjustment may be of personalized choice with upright position locking arrangement.
* Telescopic below assly: The below with 3 piece telescopic type and injection moulded in black polypropylene.
* Pedestal Assly: Pedestal is made of die-cast aluminium with a buffed finish. 5 Nos of twin wheel castors are to be provided. The castor wheels made of nylon material and twin wheel castors with hood for extra protection may be used.
* Chairs to be provided with centre tilt and tilt locking mechanisms.

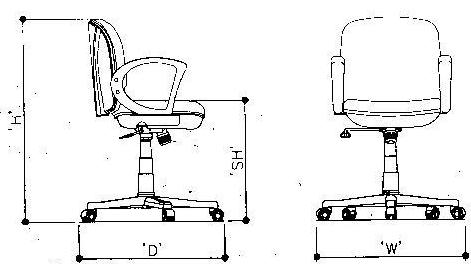


**21. SPECIFICATION FOR REVOLVING CHAIR WITH ARMREST: 12 NOS**

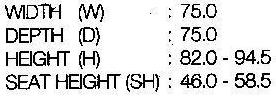
**Material Code: CG3900002746.**

* Seat/ Back Assly: The seat and Back are to be made of 12 mm thick hot pressed plywood, upholstered with changeable fabric upholstery covers and moulded polyurethane foam, together with moulded back –spine cover. The back foam is to be designed with counter lumbar support for extra comfort.
* Seat ply size (Approx): 45 cm (W) x 53 cm (H)
* Polyurethane foam: The polyurethane foam is moulded with density=45+/- 2Kg /cu.mtr and Hardness= 20+/- 2 on Hampden machine at 25 % compression.
* Armrests: The armrests are to be made of black integral skin polyurethane with 50-70 shore hardness and reinforced with MS insert. The armrests should be scratch and weather resistant. The armrests are to be fitted to the seat with seat/ armrest connecting strip assly made of 0.5 cm thick HR steel.
* Permanent contact mechanism : The permanent contact mechanism with 360 degree revolving facility and provision for back tilt arrangement. Required facility for tilt tension adjustment has to be provided.
* Height adjustment: The gas lift for height adjustment may be of personalized choice with upright position locking arrangement.
* Telescopic below assly: The below with 3 piece telescopic type and injection moulded in black polypropylene.
* Pedestal Assly: The pedestal has to be fabricated using 0.2cm thick CR. Steel, powder coated and fitted with an injection moulded in black polypropylene hub cap. 5 Nos of twin wheel castors are to be provided. The castor wheels made of nylon material and twin wheel castors with hood for extra protection may be used.
* Chairs to be provided with centre tilt and tilt locking mechanisms.





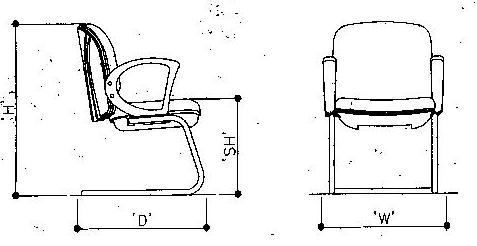
* Dimensions (Approx.):



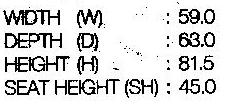
All Dimensions in cms.

**22. SPECIFICATION FOR GUEST CHAIR WITH ARMREST: QTY: 20 NOS Material Code: CG3900002762**

* Seat/ Back Assly: The seat and Back are to be made of 12 mm thick hot pressed plywood, upholstered with changeable fabric upholstery covers and moulded polyurethane foam, together with moulded back –spine cover. The back foam is to be designed with counter lumbar support for extra comfort.
* Seat ply size (Approx): 45 cm (W) x 53 cm (H)
* Polyurethane foam: The polyurethane foam is moulded with density=45+/- 2Kg /cu.mtr and Hardness= 20+/- 2 on Hampden machine at 25 % compression.
* Armrests: The armrests are to be made of black integral skin polyurethane with 50-70 shore hardness and reinforced with MS insert. The armrests should be scratch and weather resistant.
* The armrests are to be fitted to the seat with seat/ armrest connecting strip assly made of 0.5 cm thick HR steel.
* Chairs to be provided with center tilt and tilt locking mechanisms.



* Dimensions (Approx.):

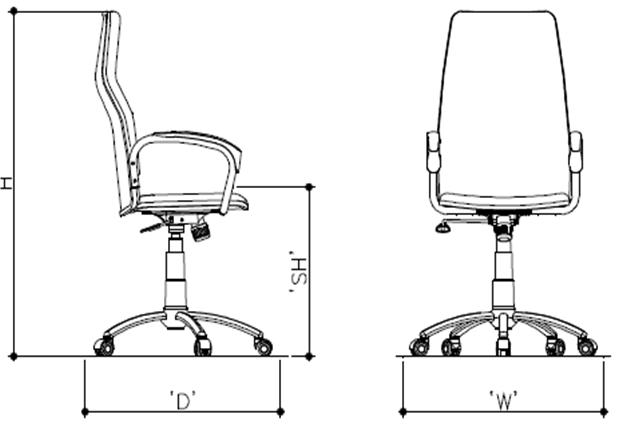


All Dimensions in cms.

**23. SPECIFICATION FOR CONTROL ROOM CHAIRS: QTY: 08 NOS:**

**Materail Code:CG 3900002720.**

* Seat/ Back Assly: The seat and Back are to be made of 12 mm thick hot pressed plywood, upholstered with changeable fabric upholstery covers and moulded polyurethane foam, together with moulded back –spine cover. The back foam is to be designed with counter lumbar support for extra comfort.
* Seat ply size (Approx): 45 cm (W) x 53 cm (H)
* Polyurethane foam : The polyurethane foam is moulded with density=45+/- 2Kg /cu.mtr and Hardness= 20+/- 2 on Hampden machine at 25 % compression.
* Armrests: The armrests are to be made of black integral skin polyurethane with 50-70 shore hardness and reinforced with MS insert. The armrests should be scratch and weather resistant. The armrests are to be fitted to the seat with seat/ armrest connecting strip assly made of 0.5 cm thick HR steel.
* Permanent contact mechanism: The permanent contact mechanism with 360 degree revolving facility and provision for back tilt arrangement. Required facility for tilt tension adjustment has to be provided.
* Height adjustment: The gas lift for height adjustment may be of personalized choice with upright position locking arrangement.
* Telescopic below assly: The below with 3 piece telescopic type and injection moulded in black polypropylene.
* Pedestal Assly: The pedestal has to be fabricated using 0.2cm thick CR. Steel, powder coated and fitted with an injection moulded in black polypropylene hub cap. 5 Nos of twin wheel castors are to be provided. The castor wheels made of nylon material and twin wheel castors with hood for extra protection may be used.
* Chairs to be provided with centre tilt and tilt locking mechanisms.



* Dimensions (Approx.):

WIDTH (W): 70.0

DEPTH (D): 70.0

HEIGHT (H): 97.0 – 104.0

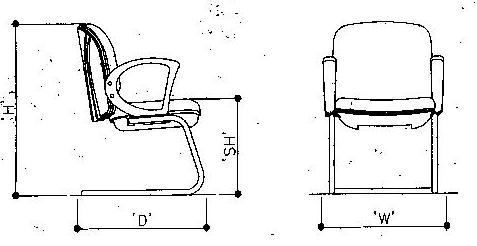
SEAT HEIGHT (SH): 44.0 – 54.0

All Dimensions in cms.

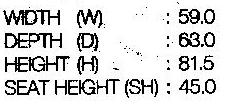
**24. SPECIFICATION FOR GUEST CHAIR WITH ARMREST:QTY: 10 NOS Material Code:CG3900002770.**

* Seat/ Back Assly: The seat and Back are to be made of 12 mm thick hot pressed plywood, upholstered with changeable fabric upholstery covers and moulded polyurethane foam, together with moulded back –spine cover. The back foam is to be designed with counter lumbar support for extra comfort.
* Seat ply size (Approx): 45 cm (W) x 53 cm (H)
* Polyurethane foam: The polyurethane foam is moulded with density=45+/- 2Kg /cu.mtr and Hardness= 20+/- 2 on Hampden machine at 25 % compression.
* Armrests: The armrests are to be made of black integral skin polyurethane with 50-70 shore hardness and reinforced with MS insert. The armrests should be scratch and weather resistant.
* The armrests are to be fitted to the seat with seat/ armrest connecting strip assly made of 0.5 cm thick HR steel.
* Chairs to be provided with centre tilt and tilt locking mechanisms.





* Dimensions (Approx.):



All Dimensions in cms.

**25. SPECIFICATION FOR REVOLVING CHAIR WITH ARMREST: QTY: 10 NOS. Material Code: CG3900002754**

* Seat / Back Assly: The seat and Back are to be made of 12 mm thick hot pressed plywood, upholstered with changeable fabric upholstery covers and moulded polyurethane foam. The back foam is to be designed with counter lumbar support for extra comfort.
* Seat ply size (Approx): 44 cm (W) x 56.5 cm (H)
* Polyurethane foam: The polyurethane foam is moulded with density=45+/- 2Kg /cu.mtr and Hardness= 20+/- 2 on Hampden machine at 25 % compression.

Armrests: The armrests are to be made of black integral skin polyurethane. The armrests should be scratch and weather resistant. The armrests are to be fitted to the seat and back rest.

* Permanent contact mechanism: The permanent contact mechanism with 360 degree revolving facility and provision for back tilt arrangement. Required facility for tilt tension adjustment has to be provided.
* Height adjustment: The gas lift for height adjustment may be of personalized choice with upright position locking arrangement.
* Telescopic below assly: The below with 3 piece telescopic type and injection moulded in black polypropylene.
* Pedestal Assly: The pedestal has to be fabricated using 0.2cm thick CR. Steel, powder coated and fitted with an injection moulded in black polypropylene hub cap. 5 Nos of twin wheel castors are to be provided. The castor wheels made of nylon material and twin wheel castors with hood for extra protection may be used.
* Chairs to be provided with centre tilt and tilt locking mechanisms.



Specifications:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Width | Height | Depth | Seat Height |
|  | 75.0 cm | 80.5-92.5 cm | 75.0 cm | 44.0-56.5cm |

**26. SR. EXECUTIVE TABLE – 8 Nos. Material Code: CG393900001740**

* Steel table with Novapan or equivalent board top
* Three drawers in right side and One box & One file drawer unit in left side.
* Steel tubes are to be made out of 16 SWG material.
* Thickness steel sheets should be 18 SWG.
* Steel tubes & sheets are to be painted with Olive green colour.
* Provision for floor rest has to be made.
* Novapan top size:167cm x 90cm x 25mm and Table height should be 74cm.
* Corner beeding using PVC material. For firm grip of top, sufficient number of screws is to be used.

**27. SPECIFICATION FOR JR. EXECUTIVE TABLE:QTY: 10 NOS Material Code:CG4500000712**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Jr. Executive Table**   * Steel table with Novapan or equivalent board top * Three drawers in right side and Single door at left side   With one partition inside the left drawer.   * Steel tubes are to be made out of 16 SWG material.      * Thickness steel sheets should be 18 SWG. * Steel tubes & sheets are to be painted with Olive green colour. * Provision for floor rest has to be made. * Novapan top/ equivalent board size: 138cm x 77cm x 20mm and Table height should be 74cm. * Corner beading using PVC material. For firm grip of top, sufficient number of screws are to be used. |  |

**28.BIG MODULAR DESK (7 UNITS) : QTY: 1 NO**

**Material Code: CG3900001731**

|  |
| --- |
| This specification is for 1 Nos of BIG MODULAR DESKs for Control Room Application. These requirements includes the following:  **.** 1 No. ofUnit Control Desk for housing 7 Nos. of CPU's and 7 Nos of 20' TFT colour monitors along with QWERTY keyboard and mouse for each set. Each section of the desk should have a provision for holding 1 No. of CPU.( Refer Drawing on Sheet: )  **1. SPECIFICATION FOR UNIT CONTROL DESK (UCD)**   * Unit Control Desk (UCD) is required as per drawing enclosed (Pg.). The UCD should house 7 Monitors with provision for supporting Keyboards and associated Mouse. The Cabinet below the table top should be capable of Housing CPUs. * The Work surface is to be of board/MDF, laminated/veneered on both sides, having minimum thickness of 27mm. Foot, cantilever beams, Cable managers to be made of Extruded/Cast Aluminium/CRCA, Support legs and Horizontal supports(if required) below Work surface to be of minimum 2.0 mm thick suitable die cast/extruded Aluminium / laminated steel profile. * Work surface to be approximately 900-102533 wide and minimum 800-1050mm deep and made out of minimum 27mm thick board /MDF, laminated/veneered on both sides. Sides and rear to have ABS plastic trim. * Profiled extended support and cantilevered beam of Aluminium / steel with suspension hook (if required) to support legs to be provided which should have powder coated finish in approved color / shade. * Cabinet below the table top should be provided with doors in front and rear and should be capable of housing CPU’s per section. Rear doors to be provided with fans and filters per section.   Minimum dimension of cabinet should be 800(w) X 600(d) X 500(h)   * Tray for housing keyboard and mouse, complete with mounting arrangement to be provided per monitor unit. * The desk SHOULD be designed, manufactured and supplied in 7 separate shipping sections. * Each of the sections to have 2 way, 5/15 Amps power socket strip with surge suppressor. * Copper Bus bar to be provided in cabinet. * 2 Nos of Synthetic White Boards (3’ x 4’) with anodized frame to be supplied.   **2. PAINTING:**  Finished surface to be free from waves, belies or other imperfections. Surface to be powder coated or if spray painted, 2 coats of inhibitive epoxy primer surface to be applied. Paint with minimum of 2 coats of primer and 2 sprays of final finish colour to be applied OR powder coated with epoxy paint. All metallic components to be painted light gray.  Minimum paint thickness – Aluminium Sheets is 30 microns  MS components is 60 microns  Laminate/Veneer Color & Thickness : Color – EURO ASH  Thickness – minimum 0.7mm  **3.WARRANTY:**  Offer to include 2 years warranty at site against manufacturing defects from date of supply. Warranty to include all costs towards material, labor, to & fro travelling, accommodation and stay etc. Exact location of Project site will be intimated at the time of PO placement.  **4. DOCUMENTS REQUIRED WITH OFFER:**   * OGA and detailed dimensional Drawings to be submitted for approval before manufacture. * Drawings should include dimensional sectional side view, top view, front and rear views, with plan and base frames (if applicable). Overall Width, Height, Depth and thickness of Supports / Legs also to be indicated. Materials of all components to be specified. * Shipping section details to be indicated * Deviations from specifications (if any) along with justification on suitability of alternate offer. * Offer liable for rejection if above documents are not submitted.   **5. GENERAL**   * Suppliers internal Test certificate for dimensions, Visual inspection, Paint and electrical items (where included) to be submitted before giving inspection call to BHEL. * Pre-dispatch inspection by BHEL/Customer at suppliers works. * All furniture to be directly dispatched to project site from supplier’s works after obtaining necessary clearance from Bhel. Consignee details will be intimated at the time of PO placement. * Item shall be packed in all weatherproof packing with sufficient cushioning to avoid transit damages. Specific storage requirements, if any, to be indicated by supplier. * Assembly, erection and installation at site to be carried out by supplier. Offer to include charges for it at site along with necessary touchup etc. * Quotation should clearly specify the address on which the purchase orders are to be placed. * All terms and conditions as indicated by Purchase department are final * Supplier to submit Quality Plan for approval. * Name Plate with following details are to be provided for each shipping section:   ITEM: MODULAR DESK - BIG  PROJECT NAME: 02 New Test Bed  CUSTOMER NAME : EM Testing  BHEL ORDER No. :As per PO  Date of dispatch to site:   * For any doubts regarding furniture layouts, the drawings enclosed should be referred. All dimensions are indicative, detailed component size and specification may be vendor specific but should be in line with general specifications. Full details of BOM, Paint shades and materials used should be mentioned.   Notwithstanding any omissions in the drawings, all the above conditions should be met during the fabrication of the desk. Vendor to furnish full details of components and component specifications in his offer/ drawings. If any additional details are specified in the Drawing, they should be complied with.  control_room_Desk_big |