

# REQUEST FOR QUOTATION

	<b>BHARAT HEAVY ELECTRICALS LIMITED</b> Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA	RFQ NUMBER: <b>HBSCAP008</b>  RFQ DATE : 15.SEP.2014	Due Date <b>10.OCT.2014</b> Time: <b>13:00 HRS</b>  VENUE : <b>NEW ENGG. BLDG</b>
MMI:PU:RF:003			

	(for all correspondence) Purchase Executive : Lokesh Kumar Khich Phone : 7760053776 Fax : E-mail: lkkhichi@bheledn.co.in
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Please submit your lowest quotation subject to our terms and conditions attached for the material mentioned below. The quotation must be enclosed in a sealed envelope / Fax superscribed with RFQ no. and due date, should reach us on or before the due date by **13.00** hours IST and will be opened on the same day at **13.30** hours at the venue mentioned above. **PLEASE DROP THE OFFER IN THE BOX PROVIDED AT RECEPTION.**

1. TENDER/OFFER MUST BE SUBMITTED IN TWO PARTS: (1).TECHNO- COMMERCIAL BID (2).PRICE BID.
2. EARNEST MONEY DEPOSIT (EMD) OF RS.1,50,000 (ONE LAKH FIFTY THOUSANDS ONLY) IS MANDATORY AND TO BE SUBMITTED ALONGWITH THE TECHNO-COMMERCIAL BID. Please refer clause no. 10of page no. 03 of CPD 2012.
3. VENDOR HAS TO CONFORM TO THE PRE- QUALIFICATION CRITERIA (Annexure I & II) EVALUATION CRITERIA (Annexure- III) AS WELLAS TECHNICAL SPECIFICATIONS (Ref: 515:HR/MOD/PRTN, 515:HR/MOD/CONF/TBL14, 515:HR/MSR/DOCS, 515/HR/FURN/MODU, 515/HR/CHR/TP-A, 515/HR/CHR/TP-V). DEVIATIONS, IF ANY, TO BE BROUGHT OUT CLEARLY IN THE TECHNO- COMMERCIAL BID.
4. VENDOR IS ADVISED TO GO THROUGH THE GENERAL TERMS AND CONDITIONS, DOCUMENT CPD-2012 ENCLOSED WITH THIS RFQ.
5. VENDOR HAS TO CONFORM TO ALL THE CLAUSES LISTED IN THE COMMERCIAL TERMS (ANNEXURE B) OF CPD 2012. DEVIATIONS, IF ANY, TO BE HIGHLIGHTED AND BROUGHT OUT CLEARLY IN THE TECHNICAL BID.
6. DELIVERY REQUIRED: 06 WEEKS FROM THE DATE OF PO.
7. TERMS OF PAYMENT: 80% BASIC + TAXES WITH 45 DAYS CREDIT AFTER RECEIPT OF MATERIAL, 10% AFTER COMMISSIONING AND 10% AGAINST SUBMISSION OF PERFORMANCE BANK GURANTEE (PBG) OR AFTER WARRANTY PERIOD.
8. QUOTATION SHOULD BE VALID FOR 90 DAYS FROM DUE DATE.
9. WARRANTY: 12 MONTHS FROM THE DATE OF COMMISSIONING OR 18 MONTHS FROM THE DATE OF INVOICE.
10. ADVANCE PAYMENT: QUATATION WITH #ADVANCE PAYMENT# SHALL BELIABLE FOR REJECTION. CLAUSE No. 7 OF CPD 2012 TO BE IGNORED.
11. CEBG IS TO BE SUBMITTED, please refer CEBG clause no. 19 on page no. 7 of CPD 2012.
12. THE CROSS REF.TO OUR RFQ & EVALUATION PROCESS AS PER ANNEXURE III.

SI No.	Description	Qty	Unit	Delivery qty	Delivery Date
1	CHAIRS FOR WS TYPE 'V' AS PER SPECIFICATION 515/HR/CHR/TP-V CHAIRS TYPE 'V'	132	NO	132	15.DEC.2014
2	CHAIRS FOR WS TYPE 'A' AS PER SPECIFICATION 515/HR/CHR/TP-A TYPE 'A' FOR WS	36	NO	36	15.DEC.2014
3	KEY BOARD TRAY FOR WS AS PER SPECIFICATION 515/HR/FURN/MODU CLAUSE 6 PLASTIC KEY BOARD PULL OUT TRAY(PAGE 6)	30	NO	30	15.DEC.2014
4	3 DRAWER PEDESTAL FOR WS AS PER SPECIFICATION 515/HR/FURN/MODU CLAUSE 8 (PAGE 7) - 3 DRAWER PEDESTAL FOR WS	30	NO	30	15.DEC.2014
5	CPU TROLLEY FOR WS	30	NO	30	15.DEC.2014

For and On behalf of BHEL.

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SI No.	Description	Qty	Unit	Delivery qty	Delivery Date
	AS PER SPECIFICATION 515/HR/FURN/MODU CLAUSE 7 (PAGE NO 7) CPU TROLLEY FOR WS				
6	MODULAR PARTITION TYPE 1 AS PER SPECIFICATION 515:HR/MOD/PRTN FIG9.2a Partition Type T1(Page5)	24	NO	24	15.DEC.2014
7	MOBILE STORAGE RACK AS PER SPECIFICATION 515:HR/MSR/DOCS	8	NO	8	15.DEC.2014
8	WORK STATION TYPEA2 AS PER SPECIFICATION 515/HR/FURN/MODU CLAUSE B-1.1(PAGE-2) FIG-9.1(PAGE8)	6	NO	6	15.DEC.2014
9	WORK STATION TYPEB AS PER SPECIFICATION 515/HR/FURN/MODU CLAUSE 1.2(PAGE 3) FIG-9.5	6	NO	6	15.DEC.2014
10	MODULAR PARTITION TYPE 2 AS PER SPECIFICATION 515:HR/MOD/PRTN FIG9.2a Partition Type T2 (PAGE6)	6	NO	6	15.DEC.2014
11	CONFERENCE HALL TABLE 14 SEATER AS PER SPECIFICATION 515:HR/MOD/CONF/TBL14	3	NO	3	15.DEC.2014
12	WORK STATION TYPEA6 AS PER SPECIFICATION 515/HR/FURN/MODU CLAUSE 9-9.6(SIX PERSONS SITTING-PAGE7) FIG-9.3	2	NO	2	15.DEC.2014

Total Number of Items - 12

Please note that the tender will be opened in the presence of the bidders or his authorised representatives (maximum two per organisation) who choose to be present with authorisation letters. Refer annexure for the terms and conditions.

Preference will be given to vendors who accepts our standard payment terms i.e.100% payment - 30 days after receipt of material at our works subject to acceptance.


Please specify Terms of delivery, Excise duty, sales tax, Ex-BHEL, Ex-works surcharge, Insurance,P&F, Freight and other taxes very clearly .

For and On behalf of BHEL.

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MMI:PU:RF:003		(for all correspondence) Purchase Executive : Lokesh Kumar Khich Phone : 7760053776 Fax : E-mail: lkkhichi@bheledn.co.in	
Please submit your lowest quotation subject to our terms and conditions attached for the material mentioned below. The quotation must be enclosed in a sealed envelope / Fax superscribed with RFQ no.and due date, should reach us on or before the due date by <b>13.00</b> hours IST and will be opened on the same day at <b>13.30</b> hours at the venue mentioned above. <b>PLEASE DROP THE OFFER IN THE BOX PROVIDED AT RECEPTION.</b>			
For evaluation,exchange rate(TT selling rate of SBI) as on scheduled date of tender opening (Part-I bid incase of two part bid) shall be considered. The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firms, shall be rejected.The list of banned firms is available on BHEL web site <a href="http://www.bhel.com">www.bhel.com</a>			
i). This is only RFQ not an order. ii). In all correspondence quote RFQ No. & due date. iii). In Quotation BHEL material code / RFQ Sl. No. should be mentioned clearly. iv). Quotation Envelope / Fax not superscribed with RFQ No.and due date is liable for rejection. v). Quotation should remain valid for a minimum peiod of 90 days from due date. vi). In case of non-receipt of Quotation or regret letter for 3 consecutive RFQs you are liable to be removed from our vendors list. vii). All Prices should be written in words and numbers. viii). Excise Chapter Heading should be mentioned for all items where VAT is applicable .			

For and On behalf of BHEL.

**PQC for Furniture PR - HR&IT Block – RFQ HBSCAP008 FOR LINE ITEM 1,2,3,4,5,8,9,12**

1. The vendors who have supplied and executed jobs of similar nature (Refer Below 1 - a, b, c) and working satisfactorily to BHEL-EDN, details of Purchase Order No. & Date against which the vendor has supplied to BHEL-EDN shall be furnished. In case, the vendors who have not supplied and executed jobs of similar nature to BHEL-EDN, the vendor should have supplied and executed jobs of similar nature to any other reputed Public sector or Private sector companies and the same should be working satisfactorily for minimum 2 years. Certificate of satisfactory performance and services shall be furnished from at least 3 such public sector or private sector companies for supplies made in the last 2 years. The vendor shall clearly indicate the date of supply/commissioning, contact details like name, phone number and address etc. of the customer.
  - a) Modular Office Furniture along with Key board tray, 3 drawer pedestal and CPU trolley
  - b) Cushion Chairs with castor wheels similar to our specifications.
  - c) Cushion Chairs without castor wheels similar to our specifications.
 (Please provide order copies for the supply of above)
2. Satisfactory certificates for performance and commissioning certificates shall clearly indicate the date of supply/commissioning, contact details etc.
3. BHEL at its discretion may independently approach any user for checking the performance of similar furniture items supplied by the vendor and quality of after sales service. In case of any adverse remarks by the users or the information found wrong, BHEL reserves the right to reject the offer of the vendor.
4. If the offer is submitted by the dealer/representative, authorization letter from the original equipment manufacturer (OEM), shall be enclosed along with the offer. No authorized representative shall quote for more than one OEM.
5. The offer shall be only for new equipment and not for any refurbished/used equipment.
6. The bidder shall have a minimum average turnover of Rs. 7.4 Lakhs per year for the last three consecutive years. The bidder shall submit Audited Balance Sheet and profit and loss account of the company for the last three consecutive years ending 31<sup>st</sup> march 2014, for proof of turnover
7. There shall be a registered and established service centre in Bangalore with local land- line and mobile phone numbers for prompt attending of any repair work and AMC during and after warranty period. Vendor shall undertake AMC after warranty period. Local service address with service personal's name and phone numbers shall be provided in the offer.
8. The evaluation and procurement will be specification wise from same vendor as indicated below:

S. No	Item	Specification Reference
1	Work station type A2	as per specs 515/HR/FURN/MODU
	Work station type A6	
	Work station type B	
	Key Board Tray for WS	
	3 Drawer Pedestal For WS	
	CPU Trolley	
2	Chairs for WS Type A	as per specs 515/HR/CHR/TP-A
3	Chairs for WS Type V	as per specs 515/HR/CHR/TP-V

**PQC for Furniture PR - HR&IT Block –RFQ HBSCAP008 FOR LINE ITEM 6,7,10,11**

1. The vendors who have supplied and executed jobs of similar nature (Refer Below 1 - a, b, c) and working satisfactorily to BHEL-EDN, details of Purchase Order No. & Date against which the vendor has supplied to BHEL-EDN shall be furnished. In case, the vendors who have not supplied and executed jobs of similar nature to BHEL-EDN, the vendor should have supplied and executed jobs of similar nature to any other reputed Public sector or Private sector companies and the same should be working satisfactorily for minimum 2 years. Certificate of satisfactory performance and services shall be furnished from at least 3 such public sector or private sector companies for supplies made in the last 2 years. The vendor shall clearly indicate the date of supply/commissioning, contact details like name, phone number and address etc. of the customer.
  - a) Modular partitions
  - b) Mobile storage racks for document storage and
  - c) Conference Hall table furniture  
(Please provide order copies for the supply of above)
2. Satisfactory certificates for performance and commissioning certificates shall clearly indicate the date of supply/commissioning, contact details etc.
3. BHEL at its discretion may independently approach any user for checking the performance of similar furniture items supplied by the vendor and quality of after sales service. In case of any adverse remarks by the users or the information found wrong, BHEL reserves the right to reject the offer of the vendor.
4. If the offer is submitted by the dealer/representative, authorization letter from the original equipment manufacturer (OEM), shall be enclosed along with the offer. No authorized representative shall quote for more than one OEM.
5. The offer shall be only for new equipment and not for any refurbished/used equipment.
6. The bidder shall have a minimum average turnover of Rs. 19 Lakhs per year for the last three consecutive years. The bidder shall submit Audited Balance Sheet and profit and loss account of the company for the last three consecutive years ending 31<sup>st</sup> march 2014, for proof of turnover
7. There shall be a registered and established service centre in Bangalore with local land- line and mobile phone numbers for prompt attending of any repair work and AMC during and after warranty period. Vendor shall undertake AMC after warranty period. Local service address with service personal's name and phone numbers shall be provided in the offer.
8. The evaluation and procurement will be specification wise from same vendor as indicated below:

S. No	Item	Specification Reference
1	Modular Partition Type-1	as per specs 515:HR/MOD/PRTN
	Modular Partition Type-2	
2	Conference Hall Table 14 seater	as per specs 515:HR/MOD/CONF/TBL14
3	Mobile Storage Rack	as per specs 515:HR/MSR/DOCS

## ANNEXURE- III

THE EVALUATION AND PROCUREMENT WILL BE SPECIFICATION WISE FROM SAME VENDOR AS INDICATED BELOW, PLEASE REF CLAUSE NO 8 OF PQC.

RFQ Line Item	PR Item	Qty	Description
8	Work station type A2	6	as per specs 515/HR/FURN/MODU
12	Work station type A6	2	
9	Work station type B	6	
3	Key Board Tray for WS	30	
4	3 Drawer Pedestal For WS	30	
5	CPU Trolley	30	
2	Chairs for WS Type A	36	as per specs 515/HR/CHR/TP-A
1	Chairs for WS Type V	132	as per specs 515/HR/CHR/TP-V
6	Modular Partition Type-1	24	as per specs 515:HR/MOD/PRTN
10	Modular Partition Type-2	6	
11	Conference Hall Table 14 seater	3	as per specs 515:HR/MOD/CONF/TBL14
7	Mobile Storage Rack	8	as per specs 515:HR/MSR/DOCS

The EVALUATION IS ON OVER ALL L1 as below-

Sl. No. 8,12,9,3,4,5 of RFQ- single vendor

Sl. No. 2 of RFQ- single vendor

Sl. No. 1 of RFQ- single vendor

Sl. No. 6, 10 of RFQ- single vendor

Sl. No. 11 of RFQ- single vendor

Sl. No. 7 of RFQ- single Vendor



## SPECIFICATION FOR MODULAR FURNITURE

515:HR/FURN/MODU

REV NO 00

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### REVISION HISTORY SHEET

REV NO.	DATE	NATURE OF CHANGE	REASONS	CHANGED BY	APPROVED BY
00	18/07/2014	NEW		BANAMITRA MISHRA	K.PARTHIBAN

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The information in this document is the property of BHARAT HEAVY ELECTRICALS LIMITED  
It must not be used directly or indirectly in any way detrimental to the interest of the company

**PREPARED BY:**  
BANAMITRA  
MISHRA

**APPROVED BY :**  
K.PARTHIBAN

**ISSUED BY:**  
HUMAN  
RESOURCES  
DEPARTMENT

**DATE :**  
18/07/2014

**A. General:**

This specification covers the requirements Modular Office Furniture to be used in Offices of BHEL-Electronics Division Bangalore. Products furnished under this specification shall meet or exceed the following requirements

Modular Furniture shall present a neat, well-finished appearance and shall be free of all imperfections and/or defects, which might affect appearance, normal life, or serviceability.

All Furniture and accessories shall be furnished completely assembled and read for use.

Details where ever not specified herein shall be in accordance with standard commercial practices for products of this type.

The colors of the chair finish and upholstery shall be selected from the manufacturer's standard colors after obtaining due approval.

**B. Technical Specification :**

**1.0 Specification for Workstation**

1.1 A typical workstation Type "A" for seating of two persons is as shown in fig.1 below.

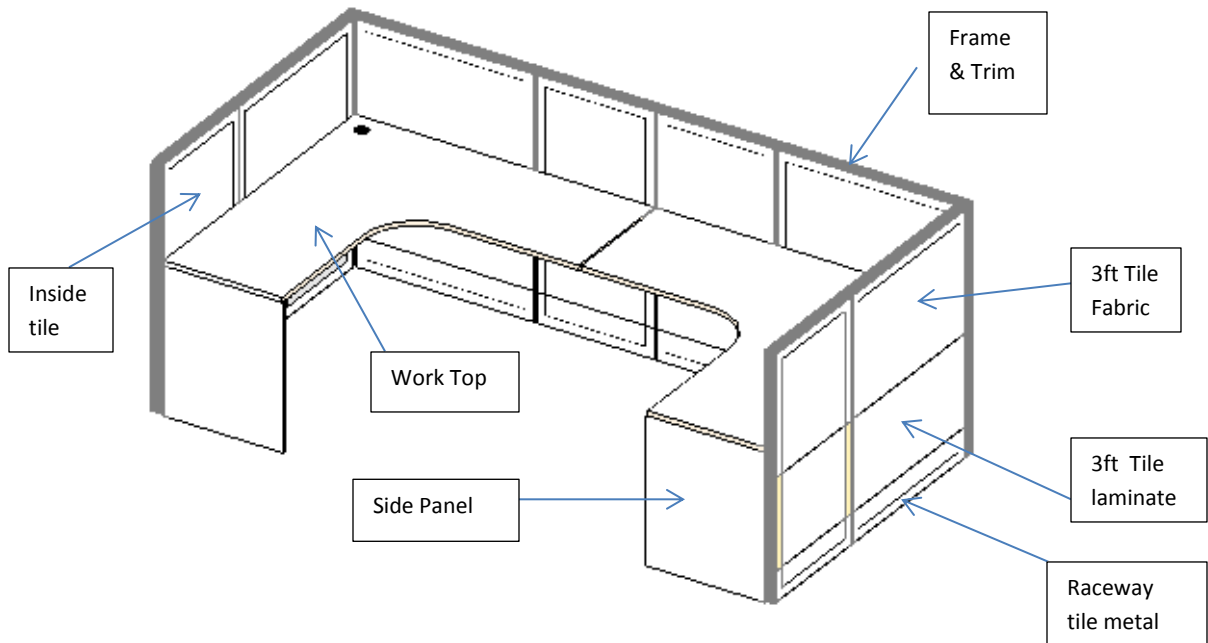


Fig.1 Typical Work Station Type "A"

Modular furniture work stations Type "A", 1500mm x 1500mm + 1500mm x 1500mm having arrangement as single-seater, Typical two seater arrangement is shown in fig.2

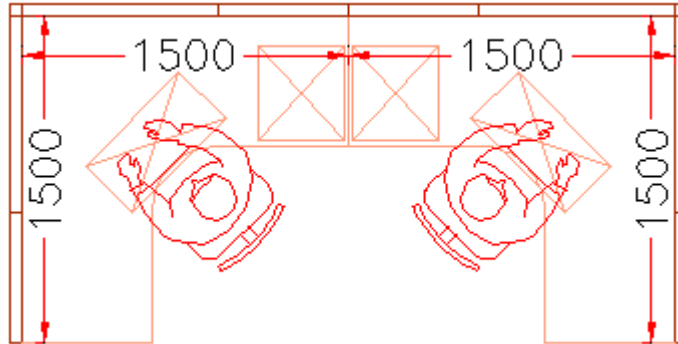


Fig.2 Typical Work Station Type "A" Dimension (2 seater)

1.2 A typical workstation Type "B" for seating of Senior Officer is as shown in fig.3 below.

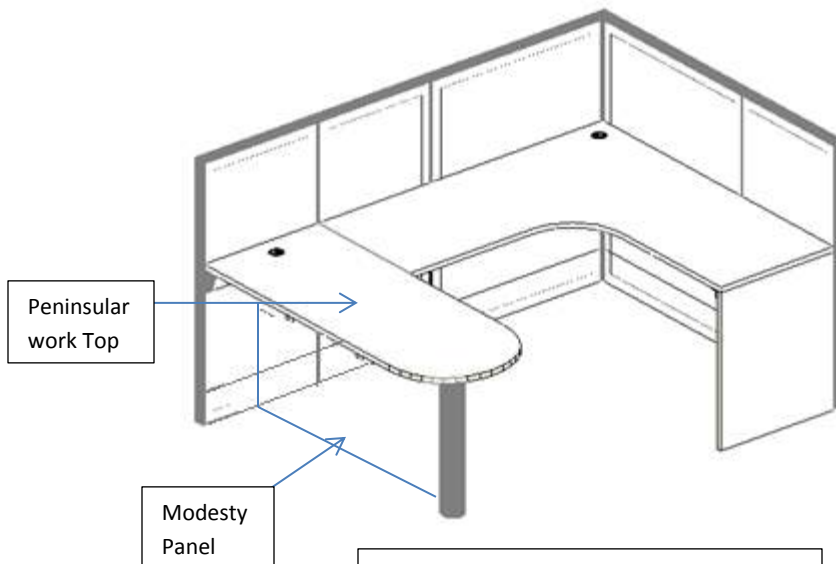


Fig.1 Typical Work Station Type "B"

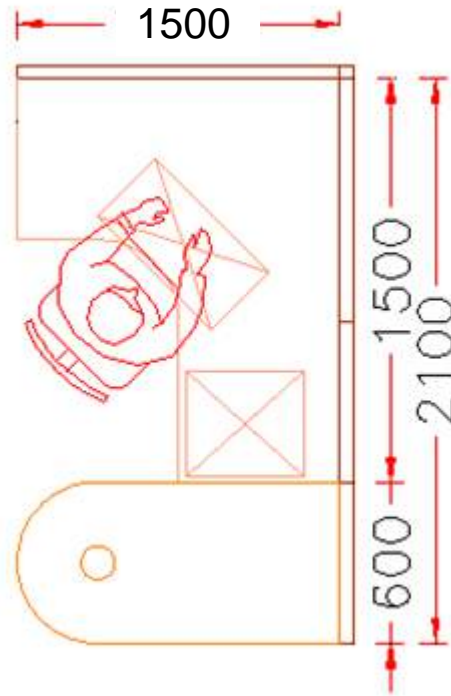


Fig.2 Typical Work Station Type "B" (For Senior Officer) Dimension

1.3 Each work station Type "A" shall be of 1500mm x 1500mm (5' x 5') as shown in fig.1.

Senior Officer Work station, Type "B", shall be of dimension 2100mm x 1500 mm as per typical arrangement shown in fig.2 and is to be provided with one Peninsular Worktop of 1500mm Width & 750mm'. Also, one Modesty Panel is to be provided for Type 'B' the Section Officer.

Height of the frame for Type "A" and Type "B" shall be minimum of 1230 mm (including the Top Trim & Glide Screws).

## 2.0 MAIN FRAMES

2.1.The frame should comprise of.2 vertical uprights, a top horizontal tube and a bottom C Channel as a welded structure.

2.2.Vertical upright to be made from 1.5 thick CRCA M.S. formed into "C" channel of 28.4x40. The top horizontal has to be of 1.2 mm thick M.S. tube of 25.4 x 25.4 mm (Ix 1 inch).

2.3. The bottom horizontal is a 1.5mm thick M.S. 'c' channel of size 38.1 mm (1 1/2 in x 1 in).



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2.4. The frame has to be powder coated in standard Dark Grey/brown/black colour.

2.5. The pitch for mounting the brackets on the upright is to be 25.4 mm. The rectangular slot for wires on the upright is 60 mm (H) x 18 mm (W), 1 no. at the bottom and 2 nos. at the intermediate level wherein each slot can allow 9 power cables of Dia. 10 or 32 data cables of Dia. 6. The bottom horizontal would also have 2 slots for carrying wires, which are of the size 100mm (L) x 20 mm (W) for wire carrying.

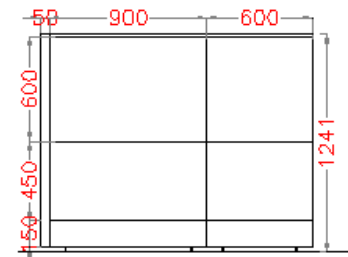
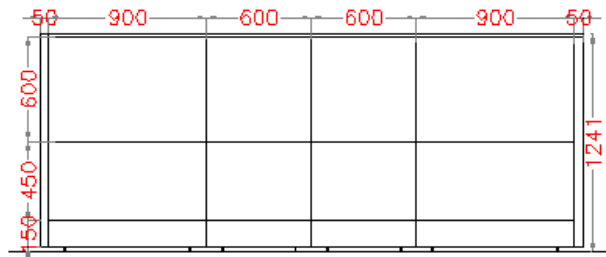
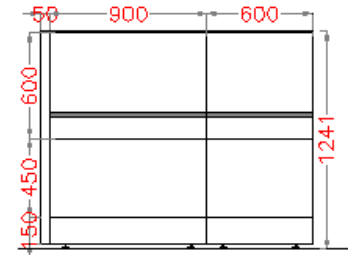
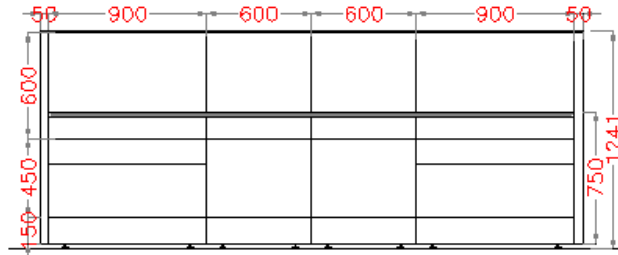
3.0 TILES: Typical Elevation – Showing Inside & Outside tile configuration is shown below.

3.1 TILE CONFIGURATION

3.2 Outer Sides top of Workstation Tile: Fabric Magnetic

3.3 Inside top of Workstation: Fabric Tackable

3.4 All Bottom Tile: All Pre Laminate





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### 4.0 TRIMS

Frames are to be fitted with Flat Trims of 56.5 mm x 10.5 mm and average wall thickness of 1.0 mm. These trims are made from Powder coated aluminum alloy extrusions. The trims are fitted on the top horizontal using M6 x 35 L Nut-bolts and the open vertical ends of the upright using M6 x 25 L Bolt & Nut.

### 4.1 JOINERY TRIMS

The open vertical joineries for the year configurations of 2 way and 3 way 90 degree will be covered with 2 way 90 degree (square type) and 3 way 90 degree aluminum alloy. Vertical trims of 1.2 mm average wall thickness, which will be powder coated and press-fitted onto the universal connector made of 2.0 mm thick M.S. using the 0.5 mm thick spring steel snap fit clip.

### 4.2 JOINERY CAPS:

Diecast powder coated caps should be supplied as and where required.

### 4.3 SUPPORT BRACKETS:

The work surfaces are mounted on the new 13" inch work surface brackets of 2.0 mm thick M.S. A corner brackets is used to support the work surface at the corner junction of the frames.

### 4.4 PENINSULAR LEG: (for Type "B" workstation)

These shall be made of MS ERW tube of dia 89 and of 2 mm thickness, pretreated and powder coated with Powder Coating. These are provided with M S Level adjusters, for adjustability upto +/-20 mm.

### 5.0 WORKTOPS:

5.1 Worktop 25 mm thick pre-laminated (with PVC lipping) - Work top shall be made of 25 mm thick Pre-laminated particle board. All the edges of work surface shall be provided with machine pressed 2 mm thick PVC lipping glued with hot melt EVA glue.

5.2 Work top shall be mounted onto the partition panels for work stations by means of cantilever brackets made from 2.0 mm thick CRCA steel duly pretreated and powder coated in black colour. The work surface shall be provided with circular cut out of Dia. 65 mm as per the requirement, for passing of wires. These cut outs shall be provided with ABS covers.

### 6.0 PLASIC KEY BOARD PULL OUT TRAY:

6.1 Plastic Key Board Pull out Tray shall be of size 514 mm (W) x 307 mm (D) x 42 mm (H) approx. and shall be moulded using virgin PVC material.

6.2 Colour of the Plastic Keyboard Tray shall be Brown/black/dark grey



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6.3 Key Board shall be mounted on single extension Ball Slides.

### 7.0 CPU TROLLEY:

CPU Trolley shall be made of MS Sheet adjustable in nature with two numbers lockable castor with length 225-330 mm (adjustable), width of 225 mm and height of 330 mm.

### 8.0 3-DRAWER PEDESTAL:

The 3 Drawer Pedestal Unit shall have the outer dimension of 646 mm (H) x 390 (W) x 585 mm (D). The drawer unit shall consist of 2 Box Drawer & One Filing Drawer. The Drawers shall be mounted on double extension telescopic ball slides. It should freely slide in horizontal direction. The construction shall be welded assembled and shall have 0.8 mm thick CRCA Body Shell, drawer front & tray, front side stiffener, Top & Bottom. It shall have 10 lever CAM Lock and shall have central locking. It shall be finished with epoxy polyester powder coating and shall be coated with minimum thickness of 50 microns (+/-10).

### 9.0 WORK STATION CLUSTERS CONFIGURATION:

The design and supply of workstation shall be as the configurations indicated below for number seating:

The work stations are classified in to ,

- |                 |                                       |
|-----------------|---------------------------------------|
| 9.1 Type A1 for | Single person seating (not preferred) |
| 9.2 Type A2 for | Two persons seating                   |
| 9.3 Type A3 for | Three persons seating (not preferred) |
| 9.4 Type A4 for | Four persons seating                  |
| 9.5 Type A5 for | Five persons seating (not preferred)  |
| 9.6 Type A6 for | Six persons seating                   |
| 9.7 Type A7 for | Seven persons seating (not preferred) |
| 9.8 Type A8 for | Eight persons seating                 |

Fig.9.1 CLUSTER TYPE A2

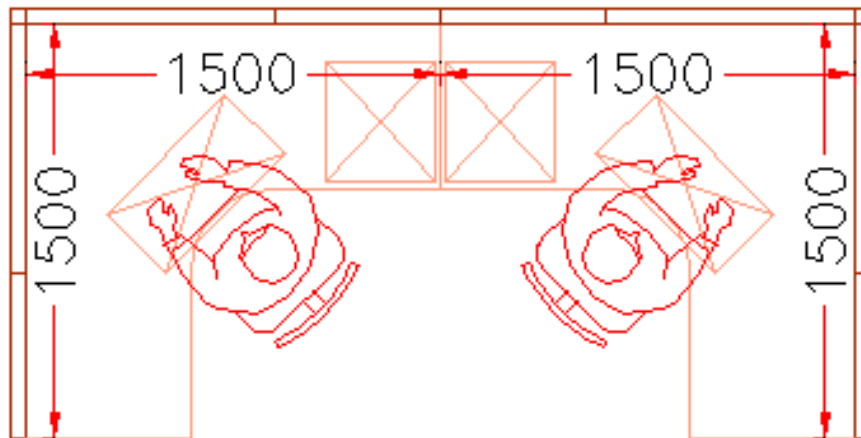
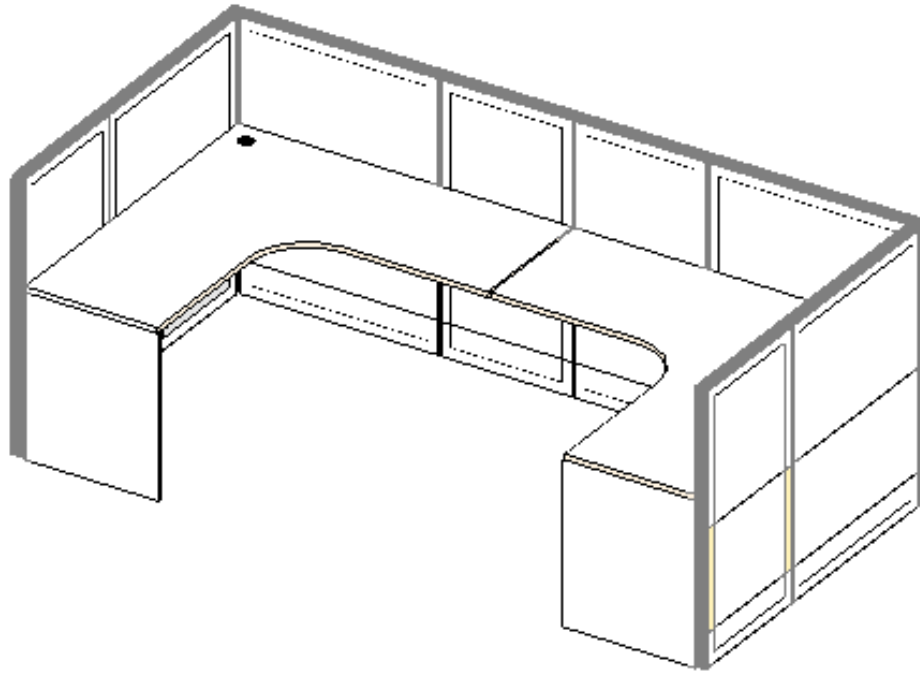


Fig.9.2 CLUSTER TYPE

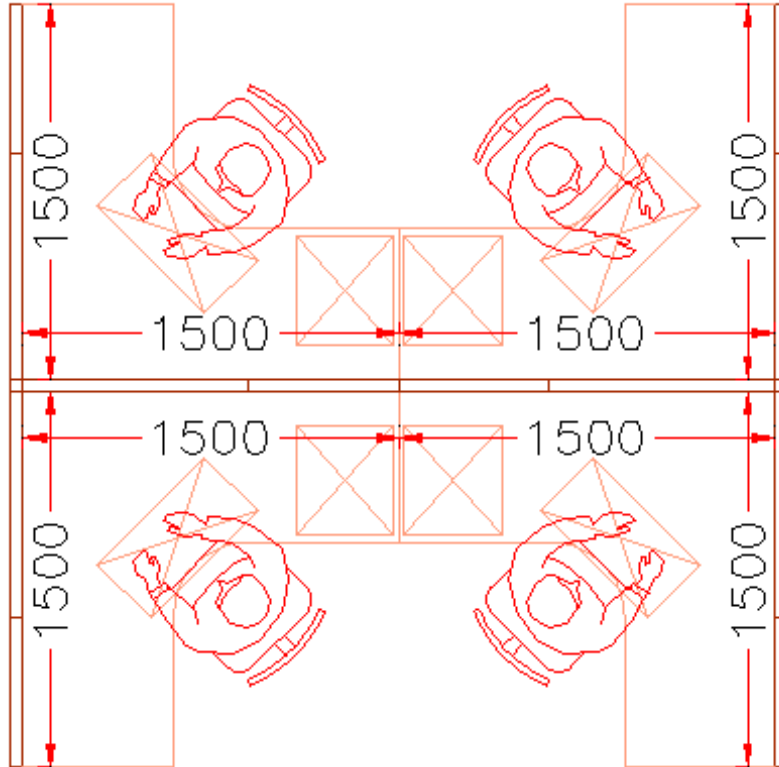
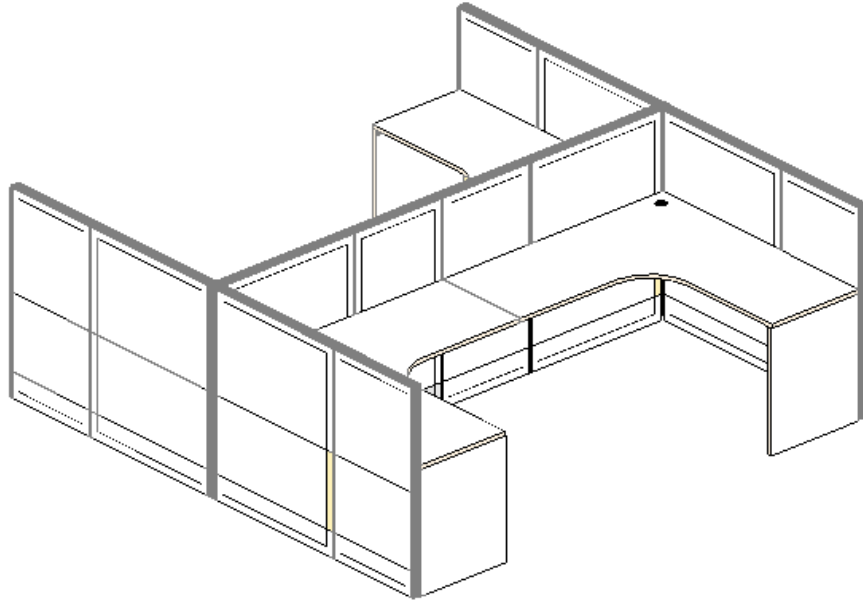


Fig. 9.3 CLUSTER TYPE A6

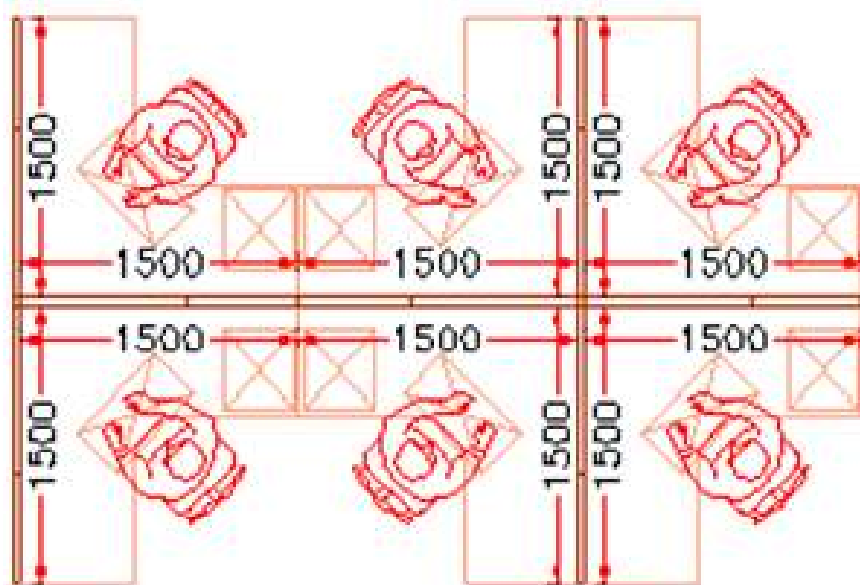
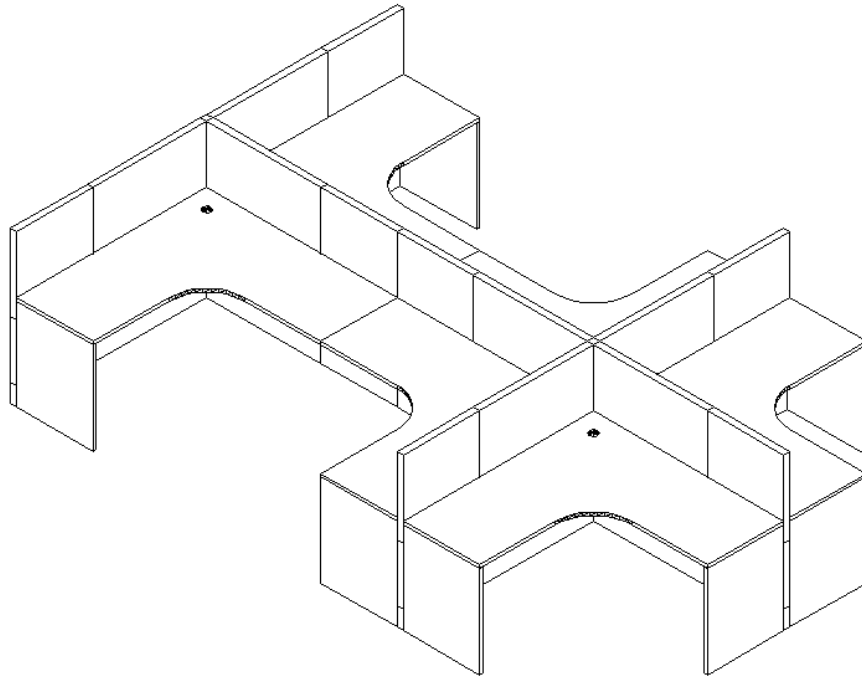


Fig.9.4 CLUSTER TYPE A8

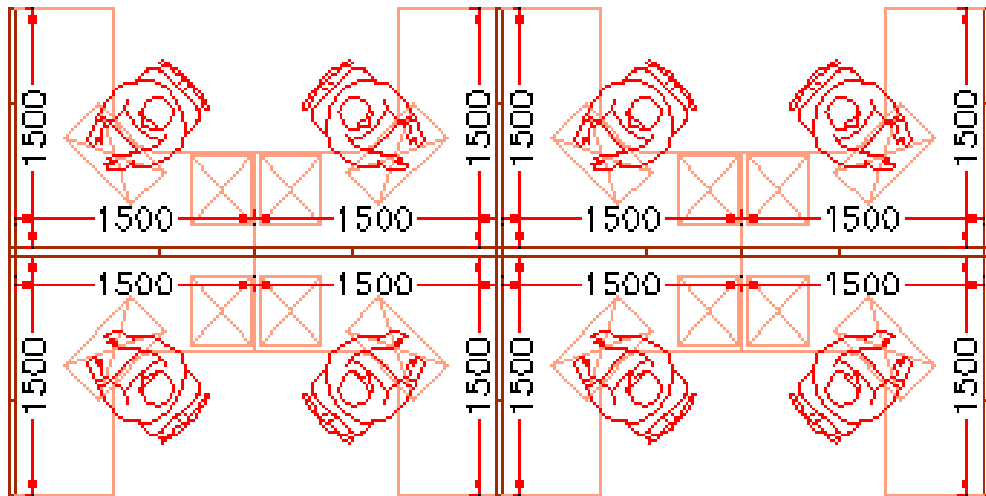
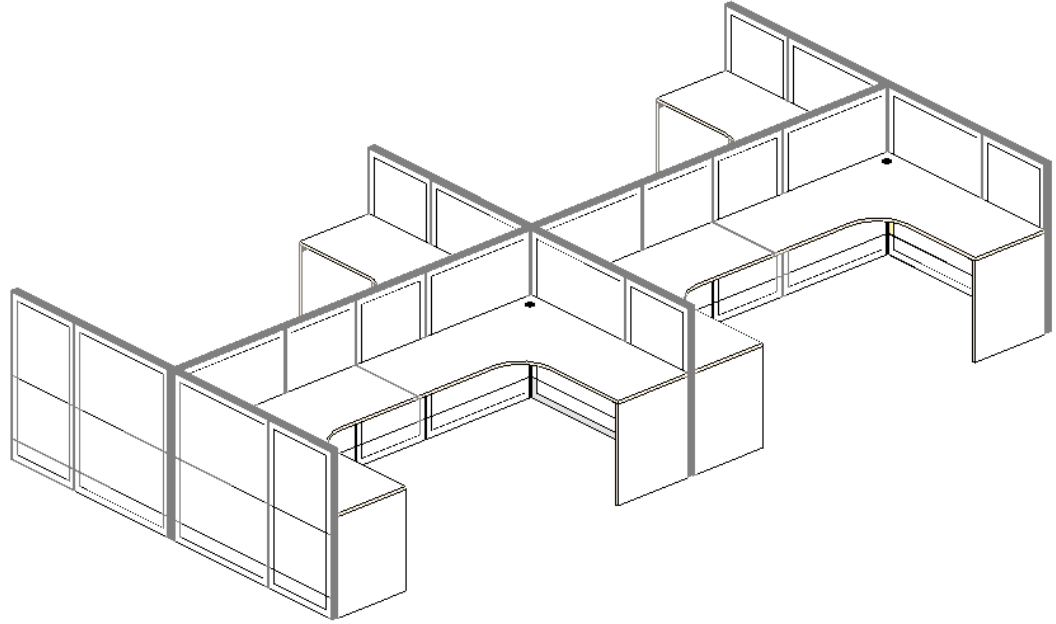
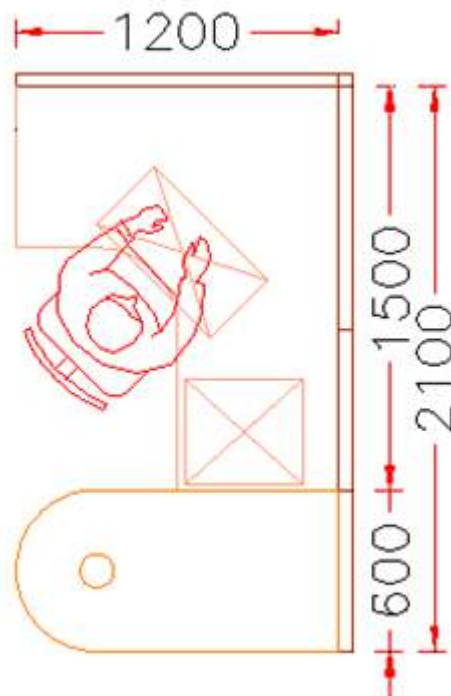
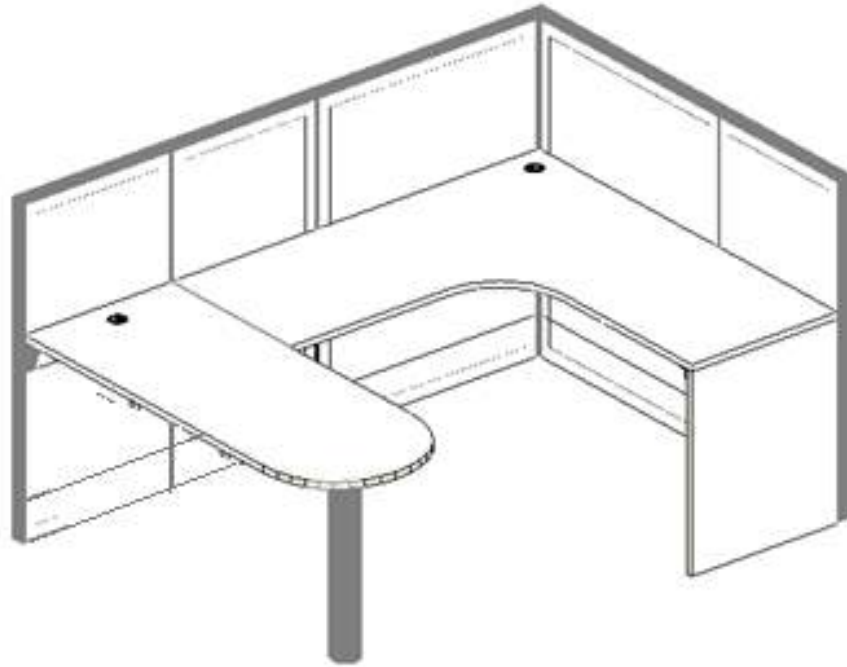


Fig. 9.5 WORKSTATION TYPE B





## SPECIFICATION FOR MODULAR FURNITURE

515:HR/FURN/MODU

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### 10.0 GENERAL REQUIREMENTS:

- (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.

### 10.1 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 12.5mm thick MDF Material base or particle board of minimum 9mm thick base with lamination of approved colour.



## SPECIFICATION FOR MODULAR FURNITURE

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(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.

### 10.2 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.

### 10.3 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).

### 10.4 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.



## SPECIFICATION FOR MODULAR FURNITURE

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(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.

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 BHEL authorities.



## SPECIFICATION FOR CHAIR TYPE "A"

515/HR/CHR/TP-A

REV NO 00

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### REVISION HISTORY SHEET

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DEPARTMENT

DATE :  
18/07/2014



## SPECIFICATION FOR CHAIR TYPE "A"

515/HR/CHR/TP-A

REV NO 00

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### A. General:

This specification covers the requirements Cushioned Chair to be used in conferences in the auditorium in BHEL-Electronics Division Bangalore. Products furnished under this specification shall meet or exceed the following requirements

Chairs shall present a neat, well-finished appearance and shall be free of all imperfections and/or defects, which might affect appearance, normal life, or serviceability.

Chairs shall be furnished completely assembled and ready for use.

Details not specified herein shall be in accordance with standard commercial practices for products of this type.

The colors of the chair finish and upholstery shall be selected from the manufacturer's standard colors.

### B. Technical Specification :

All dimensions are in mm unless otherwise specified.

Dimensions shall be; (please refer the figure)

Seat height (from floor) 475mm to 600mm (nominal)

Over all height from floor 900mm to 1025mm Variable

Chair depth of seat 500 mm (nominal)

Chair width of seat 500 mm (nominal)

Limits on these dimensions are + or – 15mm

#### 1. Design:

The structural design of the chairs shall be such that any sustained or impacted weight will be uniformly distributed on all supporting parts with no excessive strain on any one supporting part under normal use.

The frame shall be protected during stacking by the manufacturer's standard design.

The cushions can be formed to permit a handhold between it and the upper back steel frame support (optional).

#### 2. Materials

2.1 The materials used in the construction of the chairs shall conform to the requirements stated herein.

2.2 The steel used in the fabrication of the legs, seat frame and back frame shall be, commercial quality, cold rolled steel as defined in the applicable section of the Sheet Steel Manual. Steel tubing shall be either seamless or continuous seam welded. The thickness of steel used for individual parts shall be as specified and are minimum thicknesses permitted subject to the tolerance



## SPECIFICATION FOR CHAIR TYPE "A"

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given in the Sheet Steel Manual. The steel tubing shall be smooth, free of rust, scale, pits, scratches, laps, crimps, and buckles.

- 2.3 Polyurethane foam, slab or molded, which may be contained in the chair seat, must meet the following requirements:
- 2.4 Back Cushion Foam requirements:  
IFD Density Category, 18 2.4 Comfort Soft
- 2.5 Seat Cushion Foam requirements:  
IFD Density Category 31 2.7 Medium
- 2.6 The urethane foam shall be a flexible high resiliency polyurethane material suitable for use as furniture cushioning. It shall be manufactured from pure polyether type polyurethane without the addition of fillers. Pigments may be used to designate grades etc. The foam shall be open cell structure, 100% new material, and shall be such that odors and absorbed materials from alcohol, body fluids, and other substances shall be readily removed by washing with soap and mild detergents without damage to the urethane foam. The pad shall be one piece, and securely bonded to the base. Minimum seat thickness is 40mm inches. Minimum back thickness shall be 40mm. Density values have a tolerance of +/- 3
- 2.7 Urethane foam shall be tested in accordance with ASTM-3574, and shall conform to the following minimum standards
- 2.8 a) Density - The procedure as outlined in Sections 9-14 shall be followed to determine the density.
- 2.9 b) Compression Set - Constant Deflection-Sections 37-44 shall be used to determine the compression set. The maximum set shall be 10% of the original thickness of the specimen when compressed to 90%. Report this value as Ct.
- 2.10 c) Load Deflection - Indentation Force Deflection Test- Specified Deflection Test B1. Sections 16-21 shall be used to determine the Indentation Force Deflection (IFD).
- 2.11 Upholstered backs shall be padded with adequate quantity, quality, and composition of padding materials in accordance with best industry practice to maintain proper shape and comfort in continued daily use.
- 2.12 All upholstery materials including polyurethane foam and other padding used in the construction of the back (and in miscellaneous components) shall comply with all applicable requirements.



## SPECIFICATION FOR CHAIR TYPE "A"

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### **3. Fabrication:**

- 3.1 Welds: All brazing and welding shall assure rigid joints in proper alignment. Welds shall be sound, without porosity, and shall provide rigid, one-piece units, free of burrs and sharp edges. Bends in the welded frame shall be machine formed.
- 3.2 Upholstery: The padded seat and backrest assembly shall be securely attached with tabs or fasteners and shall not loosen under normal use. The seat and back-upholstered assemblies shall match in construction, design, and color.
- 3.3 Legs, Seat Frame and Back Frame: The frame and legs shall be made from a minimum 1.6mm thick round tubular steel, minimum One i25mm diameter. Frames shall be seam welded to produce strong unit constructions.
- 3.4 Chair Seats and Backs: Chairs shall be furnished with upholstered back and seat assemblies consisting of support panel, padding, and upholstery, secured to the frame with metal fasteners.
- 3.5 Seat: The seat shall be upholstered

### **4. Finish**

- 4.1 All painted surfaces shall be thoroughly cleaned and free of dirt, oil, grease, moisture, or other foreign material prior to painting. The cleaning and priming of the surfaces shall conform to one of the methods industry norms. at the manufacturer's option.
- 4.2 Paint Finish: After cleaning, the frame shall be dipped or sprayed with a suitable primer coat that is compatible with the top or finish coat. The finish coat shall consist of a baked enamel coating applied and baked in accordance with the enamel manufacturer's recommendations (or the manufacturer's standard epoxy based coating of comparable quality). The enamel shall be a non-chipping type. There shall be no indication of rust or decay under the coating. An equivalent thermo-set epoxy powder coating, electrostatically applied and baked on, shall also be acceptable.
- 4.3 Back: The upholstered back shall have a minimum of four (4) fasteners or tabs attaching it to the frame, and enclosed within the tubular back support. The upholstery material shall be stapled at the edge.
- 4.4 Stacking Bumpers required: Manufacturer's standard design to prevent damage when stacked.

4.5 Glides required: Glides shall be manufacturer's standard polymer or metal construction.



All dimensions to be maintained. Uncertain points ( if any) to be clarified before execution.



## SPECIFICATION FOR VISITOR CHAIR TYPE "V"

515/HR/CHR/TP-V

REV NO 00

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18/07/2014



## SPECIFICATION FOR VISITOR CHAIR TYPE “V”

515/HR/CHR/TP-V

REV NO 00

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### A. General:

This specification covers the requirements Cushioned Chair to be used in conferences in the auditorium in BHEL-Electronics Division Bangalore. Products furnished under this specification shall meet or exceed the following requirements

Chairs shall present a neat, well-finished appearance and shall be free of all imperfections and/or defects, which might affect appearance, normal life, or serviceability.

Chairs shall be furnished completely assembled and ready for use.

Details not specified herein shall be in accordance with standard commercial practices for products of this type.

The colors of the chair finish and upholstery shall be selected from the manufacturer's standard colors.

### B. Technical Specification :

All dimensions are in mm unless otherwise specified.

Dimensions shall be; (please refer the figure)

Seat height (from floor) 475mm (nominal)

Over all height from floor 810mm

Chair depth of seat 600 mm (nominal)

Chair width of seat 550 mm (nominal)

Limits on these dimensions are + or – 15mm

#### 1. Design:

The structural design of the chairs shall be such that any sustained or impacted weight will be uniformly distributed on all supporting parts with no excessive strain on any one supporting part under normal use.

The frame shall be protected during stacking by the manufacturer's standard design.

The cushions can be formed to permit a handhold between it and the upper back steel frame support (optional).

#### 2. Materials

2.1 The materials used in the construction of the chairs shall conform to the requirements stated herein.

2.2 The steel used in the fabrication of the legs, seat frame and back frame shall be, commercial quality, cold rolled steel as defined in the applicable section of the Sheet Steel Manual. Steel tubing shall be either seamless or continuous seam welded. The thickness of steel used for individual parts shall be as specified and are minimum thicknesses permitted subject to the tolerance



## SPECIFICATION FOR VISITOR CHAIR TYPE “V”

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given in the Sheet Steel Manual. The steel tubing shall be smooth, free of rust, scale, pits, scratches, laps, crimps, and buckles.

- 2.3 Polyurethane foam, slab or molded, which may be contained in the chair seat, must meet the following requirements:
- 2.4 Back Cushion Foam requirements:  
IFD Density Category, 18 2.4 Comfort Soft
- 2.5 Seat Cushion Foam requirements:  
IFD Density Category 31 2.7 Medium
- 2.6 The urethane foam shall be a flexible high resiliency polyurethane material suitable for use as furniture cushioning. It shall be manufactured from pure polyether type polyurethane without the addition of fillers. Pigments may be used to designate grades etc. The foam shall be open cell structure, 100% new material, and shall be such that odors and absorbed materials from alcohol, body fluids, and other substances shall be readily removed by washing with soap and mild detergents without damage to the urethane foam. The pad shall be one piece, and securely bonded to the base. Minimum seat thickness is 40mm. Minimum back thickness shall be 40mm. Density values have a tolerance of +/- 3
- 2.7 Urethane foam shall be tested in accordance with ASTM-3574, and shall conform to the following minimum standards
- 2.8 a) Density - The procedure as outlined in Sections 9-14 shall be followed to determine the density.
- 2.9 b) Compression Set - Constant Deflection-Sections 37-44 shall be used to determine the compression set. The maximum set shall be 10% of the original thickness of the specimen when compressed to 90%. Report this value as Ct.
- 2.10 c) Load Deflection - Indentation Force Deflection Test- Specified Deflection Test B1. Sections 16-21 shall be used to determine the Indentation Force Deflection (IFD).
- 2.11 Upholstered backs shall be padded with adequate quantity, quality, and composition of padding materials in accordance with best industry practice to maintain proper shape and comfort in continued daily use.
- 2.12 All upholstery materials including polyurethane foam and other padding used in the construction of the back (and in miscellaneous components) shall comply with all applicable requirements.



## SPECIFICATION FOR VISITOR CHAIR TYPE “V”

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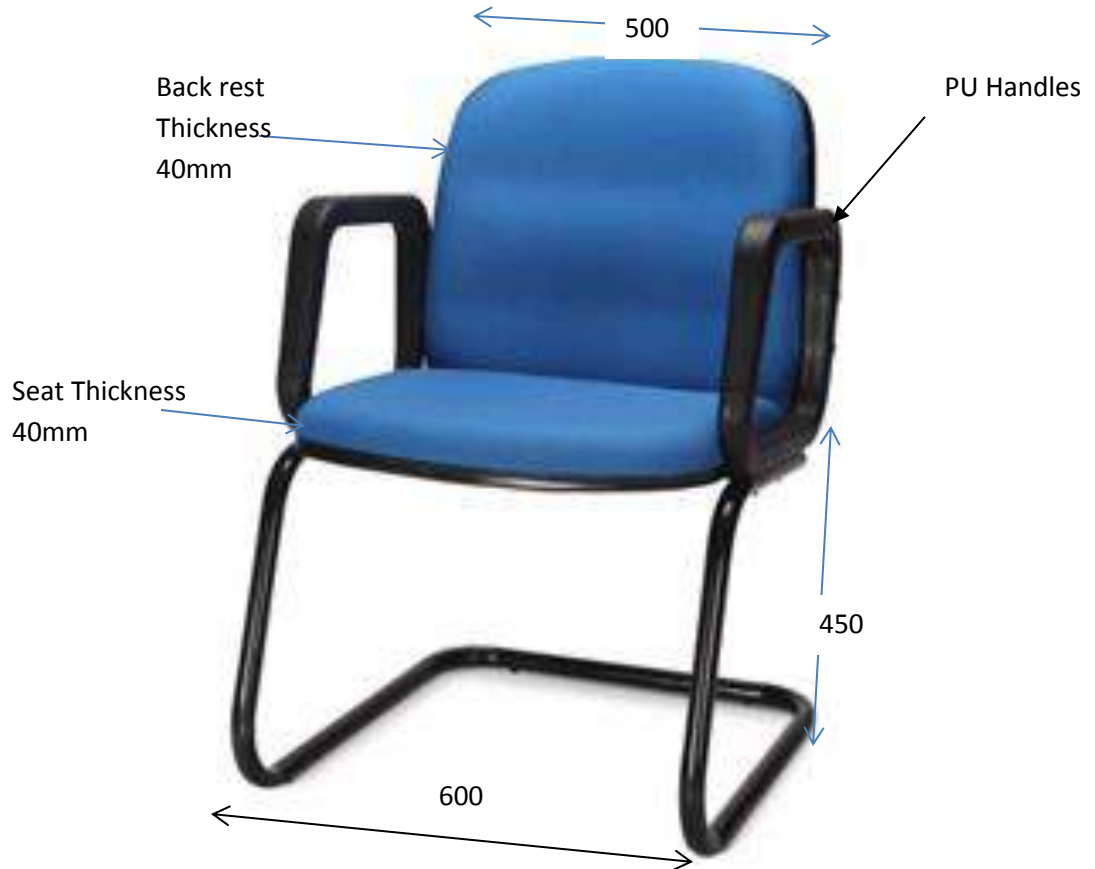
### **3. Fabrication:**

- 3.1 Welds: All brazing and welding shall assure rigid joints in proper alignment. Welds shall be sound, without porosity, and shall provide rigid, one-piece units, free of burrs and sharp edges. Bends in the welded frame shall be machine formed.
- 3.2 Upholstery: The padded seat and backrest assembly shall be securely attached with tabs or fasteners and shall not loosen under normal use. The seat and back-upholstered assemblies shall match in construction, design, and color.
- 3.3 Legs, Seat Frame and Back Frame: The frame and legs shall be made from a minimum 1.6mm thick round tubular steel, minimum One i25mm diameter. Frames shall be seam welded to produce strong unit constructions.
- 3.4 Chair Seats and Backs: Chairs shall be furnished with upholstered back and seat assemblies consisting of support panel, padding, and upholstery, secured to the frame with metal fasteners.
- 3.5 Seat: The seat shall be upholstered

### **4. Finish**

- 4.1 All painted surfaces shall be thoroughly cleaned and free of dirt, oil, grease, moisture, or other foreign material prior to painting. The cleaning and priming of the surfaces shall conform to one of the methods industry norms. at the manufacturer's option.
- 4.2 Paint Finish: After cleaning, the frame shall be dipped or sprayed with a suitable primer coat that is compatible with the top or finish coat. The finish coat shall consist of a baked enamel coating applied and baked in accordance with the enamel manufacturer's recommendations (or the manufacturer's standard epoxy based coating of comparable quality). The enamel shall be a non-chipping type. There shall be no indication of rust or decay under the coating. An equivalent thermo-set epoxy powder coating, electrostatically applied and baked on, shall also be acceptable.
- 4.3 Back: The upholstered back shall have a minimum of four (4) fasteners or tabs attaching it to the frame, and enclosed within the tubular back support. The upholstery material shall be stapled at the edge.
- 4.4 Stacking Bumpers required: Manufacturer's standard design to prevent damage when stacked.

4.5 Glides required: Glides shall be manufacturer's standard polymer or metal construction.



All dimensions to be maintained. Uncertain points ( if any) to be clarified before execution.



## SPECIFICATION FOR MODULAR PARTITION

515:HR/MOD/PRTN

REV NO 00

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### REVISION HISTORY SHEET

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18/07/2014



## SPECIFICATION FOR MODULAR PARTITION

515:HR/MOD/PRTN

REV NO 00

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### **A. General:**

This specification covers the requirements Modular Partition for Offices to be used in Offices of BHEL-Electronics Division Bangalore. Products furnished under this specification shall meet or exceed the following requirements

Modular Partition shall present a neat, well-finished appearance and shall be free of all imperfections and/or defects, which might affect appearance, normal life, or serviceability.

All Partition and accessories shall be furnished completely assembled and read for use.

Details where ever not specified herein shall be in accordance with standard commercial practices for products of this type.

The colors of the chair finish and upholstery shall be selected from the manufacturer's standard colors after obtaining due approval.

### **B. Technical Specification :**

#### **1.0 Specification for Modular Partition**

1.1 A typical Modular Partition for running various seating of two persons is as shown in fig.1 below.

1.3 Each work station Type "A" shall be of 1500mm x 1500mm (5' x 5') as shown in fig.1.

Senior Officer Work station, Type "B", shall be of dimension 2100mm x 1500 mm as per typical arrangement shown in fig.2 and is to be provided with one Peninsular Worktop of 1500mm Width & 750mm'. Also, one Modesty Panel is to be provided for Type 'B' the Section Officer.

Height of the frame minimum of 1230 mm (including the Top Trim & Glide Screws).

#### **2.0 MAIN FRAMES**

2.1.The frame should comprise of.2 vertical uprights, a top horizontal tube and a bottom C Channel as a welded structure.

2.2.Vertical upright to be made from 1.5 thick CRCA M.S. formed into "C" channel of 28.4x40. The top horizontal has to be of 1.2 mm thick M.S. tube of 25.4 x 25.4 mm (Ix 1 inch).

2.3. The bottom horizontal is a 1.5mm thick M.S. 'c' channel of size 38.1 mm (1 1/2 in x 1 in).



# SPECIFICATION FOR MODULAR PARTITION

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2.4. The frame has to be powder coated in standard Dark Grey/brown/black colour.

2.5. The pitch for mounting the brackets on the upright is to be 25.4 mm. The rectangular slot for wires on the upright is 60 mm (H) x 18 mm (W), 1 no. at the bottom and 2 nos. at the intermediate level wherein each slot can allow 9 power cables of Dia. 10 or 32 data cables of Dia. 6. The bottom horizontal would also have 2 slots for carrying wires, which are of the size 100mm (L) x 20 mm (W) for wire carrying.

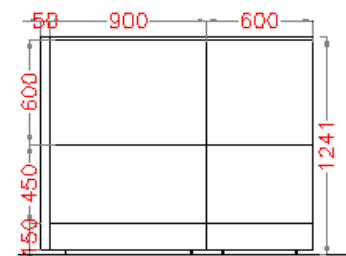
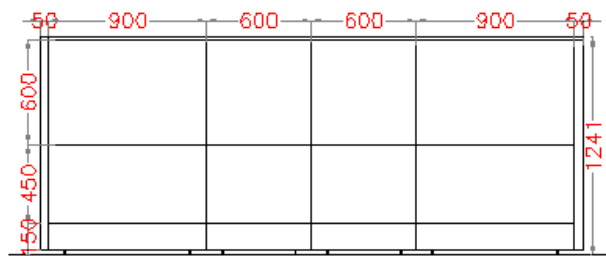
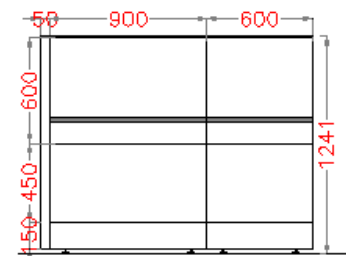
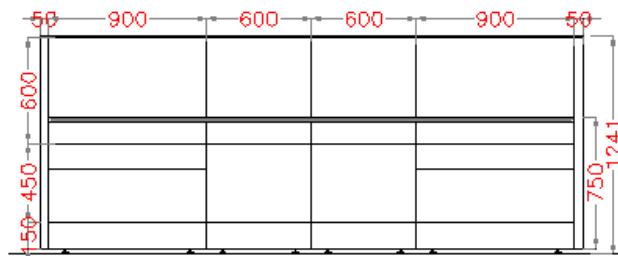
3.0 TILES: Typical Elevation – Showing Inside & Outside tile configuration is shown below.

3.1 TILE CONFIGURATION

3.2 Outer Sides top of Workstation Tile: Fabric Magnetic

3.3 Inside top of Workstation: Fabric Tackable

3.4 All Bottom Tile: All Pre Laminate



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#### 4.0 TRIMS

Frames are to be fitted with Flat Trims of 56.5 mm x 10.5 mm and average wall thickness of 1.0 mm. These trims are made from Powder coated aluminum alloy extrusions. The trims are fitted on the top horizontal using M6 x 35 L Nut-bolts and the open vertical ends of the upright using M6 x 25 L Bolt & Nut.

#### 4.1 JOINERY TRIMS

The open vertical joineries for the year configurations of 2 way and 3 way 90 degree will be covered with 2 way 90 degree (square type) and 3 way 90 degree aluminum alloy. Vertical trims of 1.2 mm average wall thickness, which will be powder coated and press-fitted onto the universal connector made of 2.0 mm thick M.S. using the 0.5 mm thick spring steel snap fit clip.

#### 4.2 JOINERY CAPS:

Diecast powder coated caps should be supplied as and where required.

#### 4.3 SUPPORT BRACKETS:

The work surfaces are mounted on the new 13" inch work surface brackets of 2.0 mm thick M.S. A corner brackets is used to support the work surface at the corner junction of the frames.

#### 9.0 PARTITION CONFIGURATION:

The design and supply of Modular partition frame shall be as per configurations indicated below:

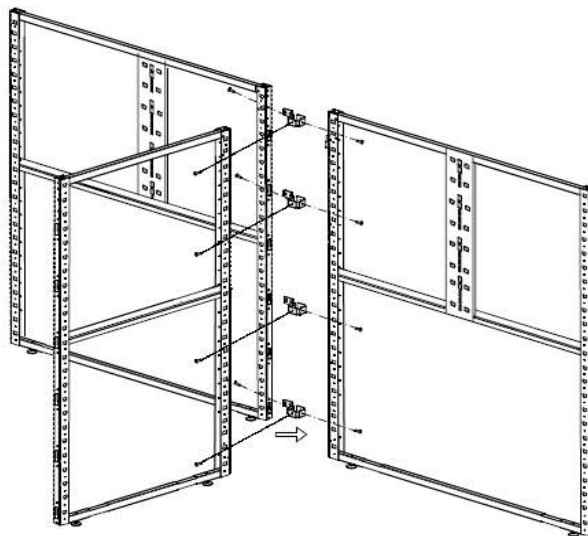


Fig.9.0 Typical partition frame assembly

9.1. The partitions over all dimensions along with tiles and other accessories

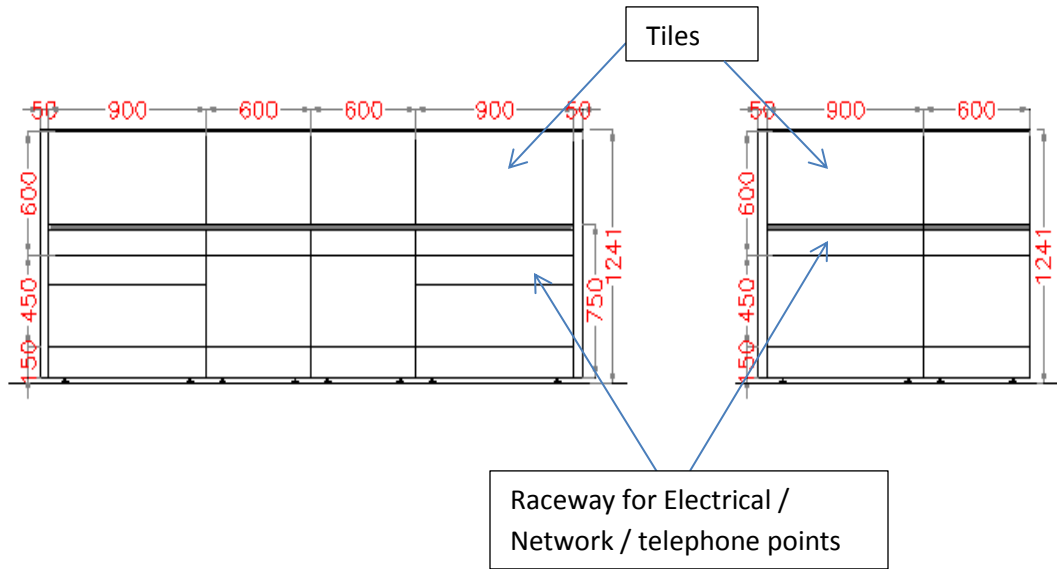


Fig.9.1 Details of dimension for partitions

9.2 Types of partions:

9.2.a Type T1

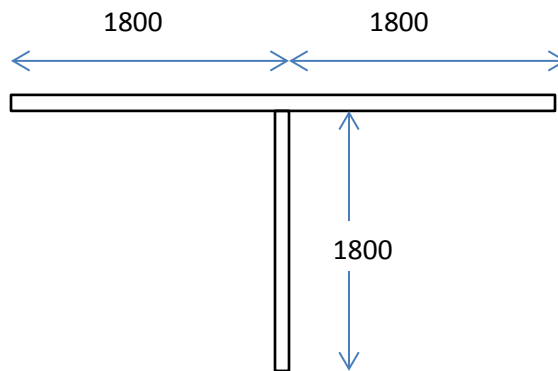


Fig.9.2a Partition Type T1

## 9.2.a Type T2

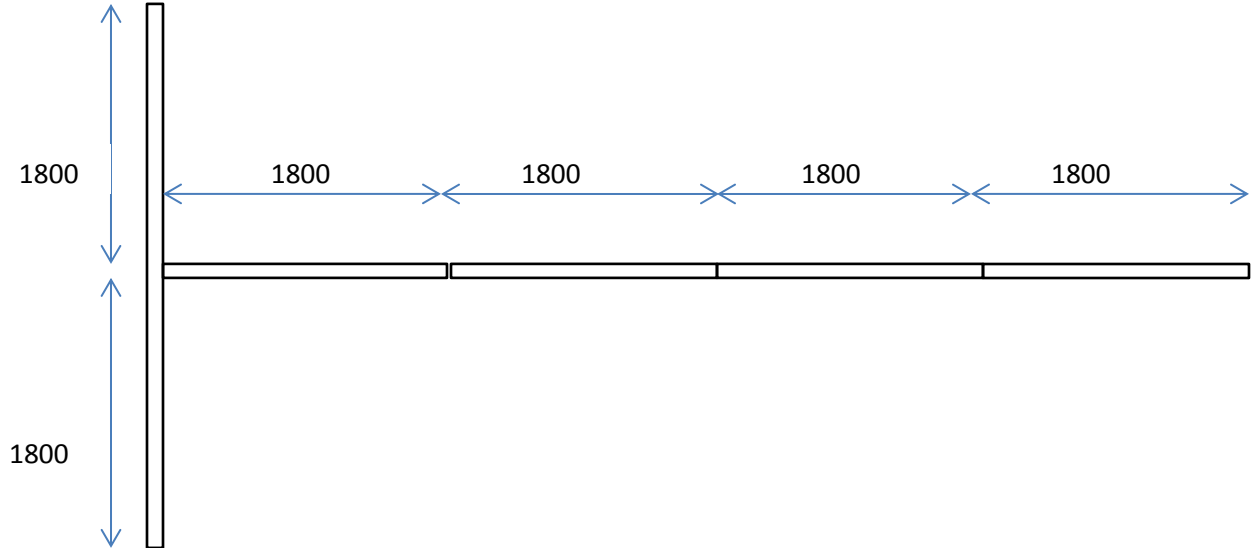


Fig.9.2a Partition Type T2

## 10.0 GENERAL REQUIREMENTS:

- The partition panels shall be tile based & shall have overall minimum thickness of 60 mm.
- 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).
- These vertical channels shall have suitable and sturdy arrangement to accept tile cladding.
- 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).
- Connectors shall be of die cast aluminum with a waterfall edge for a continuous transition from horizontal to vertical trim.
- 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.



## SPECIFICATION FOR MODULAR PARTITION

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- (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.

### 10.1 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 12.5mm 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.

### 10.2 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.



## SPECIFICATION FOR MODULAR PARTITION

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(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.

### 10.3 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).

### 10.4 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.

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 BHEL authorities.



**SPECIFICATION FOR  
MODULAR CONFERENCE  
TABLE**

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**REVISION HISTORY SHEET**

REV NO.	DATE	NATURE OF CHANGE	REASONS	CHANGED BY	APPROVED BY
00	18/07/2014	NEW		BANAMITRA MISHRA	K.PARTHIBAN

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**ISSUED BY:**  
HUMAN  
RESOURCES  
DEPARTMENT

**DATE :**  
18/07/2014



# SPECIFICATION FOR MODULAR CONFERENCE TABLE

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## A. General:

This specification covers the requirements Modular Conference table for 14 seater for conference rooms to be used in Offices of BHEL-Electronics Division Bangalore. Products furnished under this specification shall meet or exceed the following requirements

The conference table shall present a neat, well-finished appearance and shall be free of all imperfections and/or defects, which might affect appearance, normal life, or serviceability.

All Panels and accessories shall be furnished completely assembled and ready for use.

Details where ever not specified herein shall be in accordance with standard commercial practices for products of this type.

The colors of the chair finish shall be selected from the manufacturer's standard colors after obtaining due approval.

## B. Technical Specification :

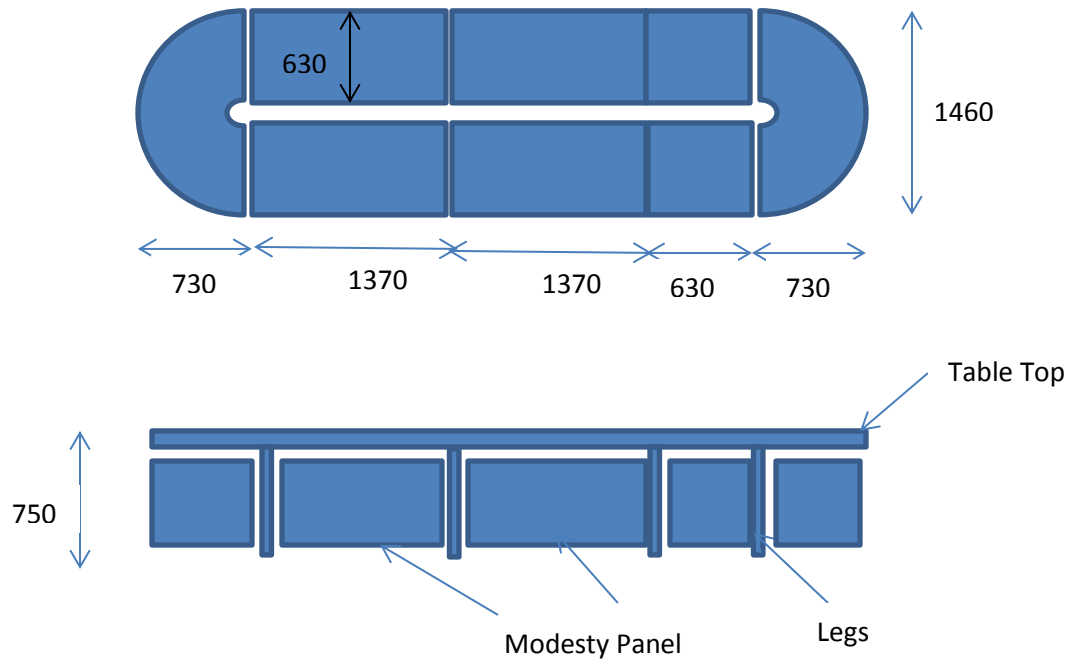
1.0 The conference table in general shall have similar configuration as shown in the fig.1



Fig.1 Typical Modular Conference Table

**2.0 Dimensions:**

The overall dimension of the conference table shall be as shown in the fig.2 below.

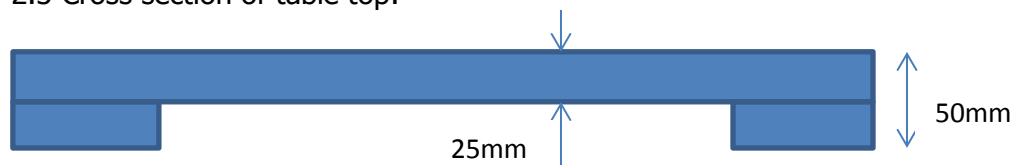


**2.1 Table top s 25 mm thick prelamated (with PVC lipping/ or with teakwood /beech wood lipping):**

Table top shall be made of 25 mm thick pre-laminated particle board. All the edges of work surface shall be provided with machine pressed 1 mm thick PVC/teak wood lipping glued with hot melt EVA glue. Work top shall be mounted onto the partition panels by means of cantilever brackets made from 2.0 mm thick CRCA steel duly pretreated and powder coated in black colour.

**2.2 All the dimension shall have a tolerance of of +/- 10 mm**

**2.3 Cross section of table top:**



Edges of the table top may of rounded /curved or square



## SPECIFICATION FOR MODULAR CONFERENCE TABLE

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### 2.4 Leg support:

The leg supports shall be of particle board of 25mm+25mm with height adjusting bottom fasteners as shown in fig.1.

### 2.5: Modesty panel :

Modesty panels as shown in fig.1 and fig.2 shall be provided, which shall be of minimum 25mm thickness pre-laminated particle board.

### 3.0.Painting

Stoving epoxy corrosion resistance painting with 7 tank phosphate treatment, Primer coat, first coat and final coat followed by baking in oven . Alternatively powder coating of epoxy polyester paint may be used for all metal parts.

### 3.1 Colour :

The colour of the table top laminate shall be unless specified , be beach wood finish with uniform grain structure. However final approval shall be obtained before finalization of colours/patterns from BHEL EDN.

### 4.0 Commissioning :

The scope includes Erection & Commissioning of the equipment at BHEL, Electronics Division Mysore Road Bangalore.

### 5.0 Guarantee:

One year from the date of commissioning for trouble free Operation.

### 6.0 Reference:

Customers reference list and value of supply to be furnished

### 7.0 General Maintenance Requirements

- a) Operation, maintenance and spare parts manual have to be supplied in triplicate along with the equipment.
- b) List of recommended spares for two years with price list to be provided for of normal use along with the offer.
- c) All service requirements like power, air etc. if applicable has to be listed and intimated well in advance.
- d) Training for operation and maintenance personnel have to be arranged.
- e) All components should be of reputed make and easily available in the market.
- f) Supplier has to offer guarantee/ warranty for a period of one year from the date of commissioning and handing over.
- g) Suitable lubrication system is to be provided. The lubrication points are to be identified on the equipment. with respect to the O & M manual



## SPECIFICATION FOR MOBILE STORAGE RACK

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00	18/07/2014	NEW		BANAMITRA MISHRA	K.PARTHIBAN

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MISHRA

**APPROVED BY :**  
K.PARTHIBAN

**ISSUED BY:**  
HUMAN  
RESOURCES  
DEPARTMENT

**DATE :**  
18/07/2014

## A. General:

This specification covers the requirements Mobile Storage System for storing of documents to be used in Offices of BHEL-Electronics Division Bangalore. Products furnished under this specification shall meet or exceed the following requirements

Mobile Storage System shall present a neat, well-finished appearance and shall be free of all imperfections and/or defects, which might affect appearance, normal life, or serviceability.

All Panels and accessories shall be furnished completely assembled and read for use.

Details where ever not specified herein shall be in accordance with standard commercial practices for products of this type.

The colors of the chair finish shall be selected from the manufacturer's standard colors after obtaining due approval.

## B. Technical Specification :

1.0 PURPOSE: This unit is to be used for the storage of documents of Finance-Establishment group.

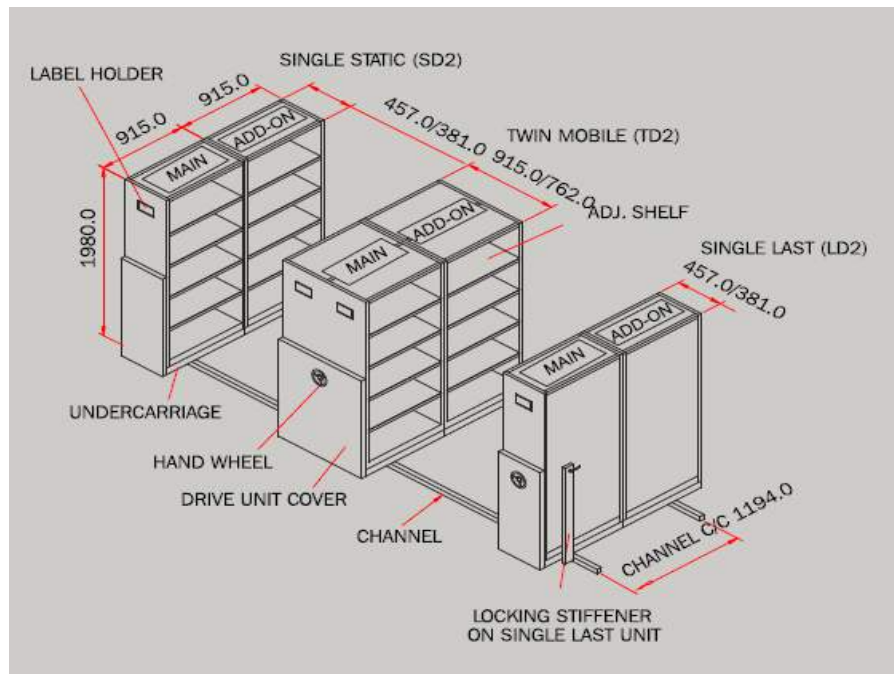


Fig.1 Typical layout of storage system

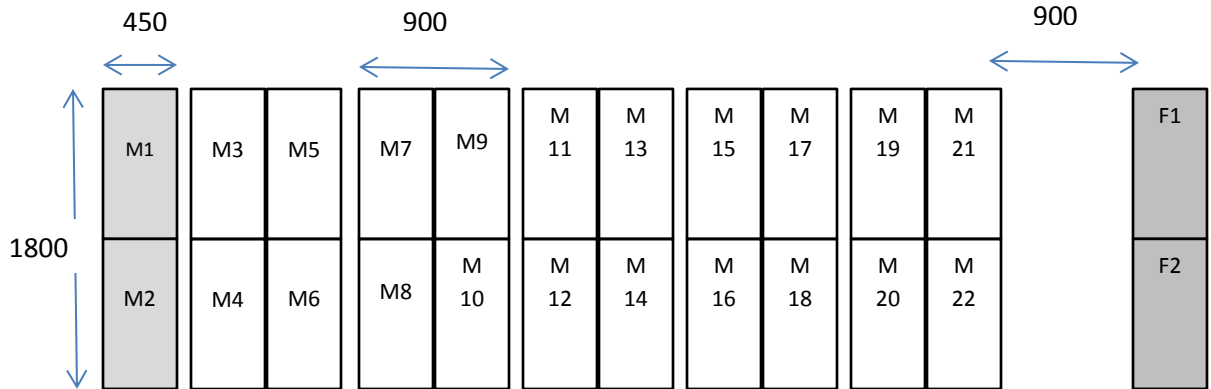


## SPECIFICATION FOR MOBILE STORAGE RACK

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All dimensions are in mm  
Dimensional Tolerance +20mm  
F=fixed units  
M=Movable units

Fig 2: Overall layout

### 1.1 FUNCTIONAL SPECIFICATION:

#### 1.2 No. of units (Refer Fig.2)

S/no	Description	Unit	Qty
1	No. of single faced units ( stationery) F1 &F2	Nos	1
2	No. of single faced units ( Movable) M1& M2	Nos	1
3	No. Of Double faced units (Movable) M3 to M22	Nos	5

1.3 Dimension of each single faced mobile /fixed unit (M1&M2 and F1 & F2) : (900X2)1800W X 450D X1980 H

1.4 Dimension of each double faced mobile unit (M3 to M22) : (900X2)1800W X(450X2)900D X1980 H

#### 1.5 Shelves:

Each unit shall be provide with shelves to make up 5 compartments and shall be strong enough to carry the document load corresponding to overll load mentioned.

#### 2.0 Layout:

The overall layout of Mobile storage system shall be as shown in the fig.2. Over all foot print space occupied shall be 6700mm x 2200mm including that of projection of chain drive and handle. Rails shall be provided with suitable floor Spreader, end stopper, Grouting and locking arrangements for the system.



## SPECIFICATION FOR MOBILE STORAGE RACK

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### 2.1 Material for used:

The panels, cladding, Back cladding sheets used for the mobile storage system shall be of CRCA sheet of 18G.

### 2.2. Doors:

All individual mobile units shall be provided with Double Door with Locking arrangements

### 2.3 Guide rails

High grade bright mild steel, anchored to the floor and (25mm sq. bright bar) levelled to the track (twin track).

### 2.4 Chassis:

The chassis shall be of Welded rugged steel channel construction.

2.5 Wheels for to ensure minimal mobile Low friction, spherically ground carriage contact with track with flanges to ensure parallel course.

### 2.6. Bearing

Bearing shall be self-aligning, anti-friction lubrication type requiring no maintenance

### 2.7.Painting

Stoving epoxy corrosion resistance painting with 7 tank phosphate treatment, Primer coat, first coat and final coat followed by baking in oven . Alternatively powder coating of epoxy polyester paint may be used.

### 2.8 Colour :

The colour shall be unless specified , be beige and brown combination. Approval shall be obtained before finalization of colours.

### 3.0 Other features:

3.1 Speed of the Loaded system :1 mtr/min(typical)

3.2 Rated Load per under carriage :4000kg safety Provisions

3.3 Safety Provisions :Locking provision for individual carriages, central locking. Device , End stopper to prevent derailment during the movement of carriages

4.0 Commissioning : The scope includes Erection & Commissioning of the equipment at BHEL, Electronics Division Mysore Road Bangalore.

### 5.0 Guarantee:

One year from the date of commissioning for trouble free Operation.



## SPECIFICATION FOR MOBILE STORAGE RACK

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### 6.0 Reference :

Customers reference list and value of supply to be furnished

### 7.0 General Maintenance Requirements

- a) Operation, maintenance and spare parts manual have to be supplied in triplicate along with the equipment.
- b) List of recommended spares for two years with price list to be provided for of normal use along with the offer.
- c) All service requirements like power, air etc. if applicable has to be listed and intimated well in advance.
- d) Training for operation and maintenance personnel have to be arranged.
- e) All components should be of reputed make and easily available in the market.
- f) Supplier has to offer guarantee/ warranty for a period of one year from the date of commissioning and handling over.
- g) Suitable lubrication system is to be provided. The lubrication points are to be identified on the equipment. with respect to the O & M manual



**Bharat Heavy Electricals Ltd.,**  
(A Government of India undertaking)  
**Electronics Division**  
PB No.2606, Mysore Road, Bangalore-560026,India

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**General Terms & Conditions for Supply of CAPITAL ITEMS**  
**(Imported &Indigenous)**  
**Doc Ref: CPD-2012**

**I. Enquiry / Request For Quotation (RFQ):**

- (a) Any Purchase Order resulting from this enquiry shall be governed by **these general terms and conditions listed below and special terms and conditions, if any, along with this enquiry** of Bharat Heavy Electricals Limited, Electronics Division, Bangalore-560026 (**hereinafter referred to as BHEL EDN**).
- (b) Any of the terms and conditions not acceptable to vendor, shall be explicitly mentioned in the quotation. Otherwise, it will be treated as that all terms and conditions of this enquiry are acceptable.
- (c) If counter terms and conditions are offered by vendor, BHEL EDN shall not be governed by such terms and conditions, unless it is agreed and incorporated in the Purchase Order of BHEL EDN.
- (d) Any deviation to the terms and conditions not mentioned in the quotation by vendor in response to this enquiry will not be considered, if put forth subsequently or after issue of order, unless clarification is sought for by BHEL EDN and agreed upon in the Purchase Order of BHEL EDN.
- (e) BHEL EDN reserves the right to adopt Reverse Auction for the enquiry sent, at its discretion.
- (f) BHEL EDN shall be at liberty to cancel the tender at any time, before ordering, without assigning any reason.
- (g) Any specific terms and conditions to be complied will be mentioned in RFQ.

**II. General Terms and conditions:**

1. **TWO PARTS BID:** Quotation shall be submitted in two parts bid i.e.

(a) **Techno-commercial i.e., Un-priced Bid (in one sealed envelope):**

Techno-commercial bid shall be submitted with complete description of the equipment, specification compliances to the enquired specification and all the commercial terms & conditions indicated in the **COMMERCIAL TERMS (ANNEXURE-A / ANNEXURE-B)**. Any other enclosure, which the vendor wishes to submit like product catalogue, technical literature etc., may also be submitted in a sealed envelope super scribed clearly as "**TECHNO-COMMERCIAL BID**" with **RFQ No. and DUE DATE**. An un-priced copy of price bid (without price) shall also be enclosed with the techno-commercial bid for evaluation of commercial terms. **The vendor shall not give the price in the technical bid. EMD Payment if applicable as mentioned in RFQ shall be enclosed along with the Techno-commercial Bid.**

Confirmation to BHEL specifications shall be indicated by the vendor in the respective columns provided in the purchase specification wherever applicable. Deviations to the specification / item description, if any shall be brought out clearly indicating "DEVIATION TO BHEL SPECIFICATION" without fail as a part of technical offer.

Compliance to Pre-qualification criteria (if applicable) shall also be enclosed with the Techno-commercial bid.

Manufacturer's name, their trade mark and brand, part number, alternate material to the one asked in enquiry, if any, should be mentioned in quotation and illustrative leaflets giving technical particulars etc. are to be attached to facilitate consideration and technical evaluation of the quotation.

BHEL EDN material code number (as in enquiry) shall be indicated for each item quoted.

**(b) Price Bid (in one sealed envelope):**

Price bid should contain basic unit prices, discount if any, applicable taxes & duties, packing & forwarding charges (if applicable), Freight & insurances (if applicable) FOB charge (if applicable) etc., in a sealed envelope super scribed clearly as "**PRICE BID**" with **RFQ No. and DUE DATE**. Installation, commissioning, start-up and training charges (if any) shall also be indicated in the price bid.

It is preferred to indicate the rates in both figures and words. In such case, if there is difference / discrepancy between the rates in figures and words, the **least of the two** rates will be considered.

**(c) Tender Offer (above two envelopes inside another sealed envelope):**

Both these sealed envelopes [(a) Techno-commercial i.e., un-priced Bid and (b) Price Bids] shall be kept in a single sealed envelope and super scribed clearly with **RFQ No. and DUE DATE**.

2. The above sealed envelope (Tender) shall reach our office on or before the due date by **13:00 hrs.** Quotations are to be dropped in the tender box marked for the **OPENING ON** respective days i.e., **MONDAY (BOX NO.4)/ WEDNESDAY (BOX NO.6)/ FRIDAY (BOX NO.8)** kept at **BHEL-EDN's Reception area of our works** with caption "**CE, SC & PV, DEFENCE**". **Quotations also can be dispatched by Couriers / Registered post / FAX / e-mail to the Purchase Executive indicated in the RFQ at the risk of vendor / bidder.**

Quotation through courier / register post / fax / email when addressed to the specific fax number and email address given in the enquiry, to be sent well in advance to enable BHEL EDN purchase personnel to drop in the tender box before the scheduled opening date and time. **Vendor is fully responsible for lack of secrecy on information of such quotations.** Vendor shall confirm with the concerned purchase executive after sending the offer regarding such delivery mode to ensure participation. BHEL EDN is not responsible for any delay in receipt of quotation sent by vendor through post/fax/email.

Late Tenders i.e., Tenders received after due date will be rejected.

3. The rate quoted against each item shall be in units stated in the enquiry. Where quotation is in terms of unit other than that in enquiry, relationship between the two units must be furnished in the quotation.
4. As far as possible, the quotations shall be free from corrections / overwriting. Corrections / overwriting, if any should be signed by authorized person with the company seal. Any typographical errors, totaling mistakes, currency mistakes, multiplication mistakes, summary mistakes observed in your priced bids, BHEL may consider whichever is beneficial to BHEL for evaluation. Vendor shall doubly ensure that the quote is correct and complete. The corrections / overwriting if any shall be signed with the seal.
5. Quotations are to be duly signed. Unsigned bids/offers are liable for rejection.
6. Tenders will be opened at **13:30 hrs.** and the venue is NEB, 2<sup>nd</sup> floor, MM conference hall. All the tenderers or their authorized representatives (with authorization letter from their principals) may witness opening of techno-commercial bid on the due date.
7. After evaluation of techno-commercial bids, price bids of only those which are technically & commercially accepted, will be opened on a subsequent date, which will be intimated to the concerned in advance for witnessing of price bid opening.
8. The quantity in each item to be purchased may vary from quantity enquired according to the actual requirement at the time of placing the purchase order. Quantity discount, if any, should be mentioned in the quotation.
9. BIDDERS (for indigenous purchase) shall indicate clearly Excise duty, Education Cess, Sales Tax/VAT, Octroi, Exit/Entry tax, Service Tax as applicable for the quoted items. In the absence of clarity of these, any claim at a later date will not be entertained. Any changes in Taxes and duties after award of the contract will not be considered except such are those, which are imposed by Govt., notification within the contractual delivery after placement of PO. Seeking price amendments for change in Excise duty due to crossing of turnover limits will not be considered under any circumstances.

**10. EARNEST MONEY DEPOSIT (EMD):**

EMD if applicable is mandatory and will be indicated in the RFQ. EMD shall be sent either by Pay Order or Demand Draft in favour of M/s Bharat Heavy Electricals Ltd, Electronics Division, Bangalore only. In case of foreign bidders, e-payment may also be made as EMD, details shall be obtained from purchase executive

EMD by the Tenderer will be forfeited as per Tender Documents if, the successful bidder/vendor refuses to honour the Order after award of the same on him and/or withdraws his bid and /or unilaterally changes the offer and/or any of its terms & conditions within the validity period. EMD of unsuccessful Tenderers shall be returned on acceptance of award /LOI/PO on successful Tenderer. The EMD of successful bidder shall be returned only after submission of Contract Execution Bank Guarantee (CEBG).

EMD will not carry any interest.

EMD will be waived in the following cases on submission of required documents by:

- a) Central / State - PSUs / Government departments
- b) Valid Micro and Small Enterprises under MSME. If claiming exemption under Micro or Small enterprise, submit the notarized/attested copy of your certificate along-with the original auditor's certificate stating the investment in your plant and machinery as on 31.03.2013 as per the format in Annexure-I

**11. DUN & BRADSTREET REPORT (for Foreign purchase):**

In case of foreign vendors, BHEL reserves the right to verify the Dun & Bradstreet report during techno-commercial scrutiny. Please mention your DUNS Number in the techno-commercial bid.

**12. Payment of Agency Commission to Indian Agent (for Foreign purchase):**

i. BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods. However, if the foreign principal desires to avail of the services of an Indian agent, then the foreign principal should ensure compliance to regulatory guidelines - which require mandatory submission of an Agency Agreement.

ii. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of Government of India, issued from time to time.

iii. The Agency Agreement should specify the precise relationship between the foreign OEM / foreign principal and their Indian agent and their mutual interest in the business. All services to be rendered by agent/ associate, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign supplier/ Indian agent. Any payment, which the agent or associate receives in India or abroad from the OEM, whether as commission or as a general retainer fee should be brought on record in the Agreement and be made explicit in order to ensure compliance to laws of the country.

iv. Any agency commission to be paid by BHEL to the Indian agent shall be in Indian currency only.

v. Tax deduction at source is applicable to the agency commission paid to the Indian agent as per the prevailing rules.

vi. In the absence of any agency agreement, BHEL shall not deal with any Indian agent (authorized representatives / associate / consultant, or by whatever name called) and shall deal directly with the foreign principal only for all correspondence and business purposes.

vii. The "Guidelines for Indian Agents of Foreign Suppliers" enclosed at annexure –'A' shall apply in all such cases.

viii. The supply and execution of the Purchase Order (including indigenous supplies/ service) shall be in the scope of the OEM/ foreign principal. The OEM/ foreign principal should submit their offer inclusive of all indigenous supplies/ services and evaluation will be based on 'total cost to BHEL'. In case OEM/ foreign principal recommends placement of order(s) towards indigenous portion of supplies/ services on Indian supplier(s)/ agent on their behalf, the credentials/ capacity/ capability of the Indian supplier(s)/ agent to make the supplies/ services shall be checked by BHEL as per the extant guidelines of Supplier Evaluation, Approval & Review Procedure (SEARP), before opening of price bids. In this regard, details may be checked as per Annexure-H. It will be the responsibility of the OEM/ foreign principal to get acquainted with the evaluation requirements of Indian supplier/ agent as per SEARP available on [www.bhel.com](http://www.bhel.com).

The responsibility for successful execution of the contract (including indigenous supplies/ services) lies with the OEM/ foreign principal. All bank guarantees to this effect shall be in the scope of the OEM/ foreign principal.

**13. VALUE FOR ERECTION & COMMISSIONING AT BHEL:**

Erection & Commissioning (E&C) value will include services to be rendered at BHEL like erection, commissioning, job proving, performance tests, and training to operators etc.

The estimated percentage of E&C value shall be 10% or as specified in the RFQ.

E&C value should be quoted separately by bidders. Only in case where quoted value is less than the value (in %) specified in the NIT or separate E&C values are not mentioned in the offer, value for E&C portion shall be deemed to be considered as the value indicated in NIT & accordingly supply value will be adjusted from that quoted value and balance will be released as E&C payment as per clause 16.

**14. TOTAL COST TO BHEL:**

The bidders shall quote charges for 'Supply' and 'Erection & Commissioning' separately.

Purchase order will be placed on the lowest quotation (L1) only among the technically & commercially accepted quotations. Lowest quotation (L1) is determined on the basis of the total cost to BHEL.

The evaluation of tender shall be on the basis of total cost to BHEL including supply and Erection and Commissioning. For evaluation Exchange rate (TT selling rate of SBI) ruling on the date of Tender opening (Techno-commercial / un-priced Bid) will be considered for converting foreign currency to Indian currency. Loading factors for deviations to BHEL commercial terms & conditions will be considered.

**15. FIRM PRICE:** Rates quoted should be firm from the date of P.O., to the completion of supply and no enhancement in the rates and changes in the techno-commercial terms will be allowed once the quotation is accepted and order is placed.

If Erection & Commissioning is in vendor's scope, then the price shall remain FIRM till commissioning & handing over of the complete system.

**16. TERMS OF PAYMENT:****(a) FOR FOREIGN PURCHASE:**

Payment will be made against "**SIGHT DRAFT**" on presentation of documents to our bankers. Subject to loading factors as per **Clause 32 (Ai)**, BHEL may agree for the payment through LC at its discretion. For LC payment bank charges within India will be borne by BHEL and outside India will be to vendor's account.

The payment terms are as follows:

~~(i) 90% against complete dispatch documents i.e. AWB / BOL, Invoice, Packing list, Warranty certificate, Nil shortage certificate, Certificate of country of origin etc., & balance 10 % after completion of commissioning or on submission of Performance Bank Guarantee (PBG).~~

(ii) 80% against complete dispatch documents i.e. AWB / BOL, Invoice, Packing list, Warranty certificate, Nil shortage certificate, Certificate of country of origin etc., 10% after completion of commissioning & balance 10 % on submission of Performance Bank Guarantee (PBG) (where both commissioning & PBG are applicable).

Note: If PBG could not be submitted, vendors can also accept for the final 10% payment, payable after the warranty period + 6 months of claim period against supplementary invoice subject to the completion of commissioning (if applicable). In such cases loading for PBG is not applicable.

If payment terms as mentioned by BHEL are not agreed by bidder, such bidder have to submit Bank Guarantee at the time of payment / opening of LC in the prescribed Format of the amount, exceeding 80% of the PO value, valid till issue of E&C Certificate for the equipment.

**Payment through L/C:**

Where the payments are through L/C (L/C opening charges are to be loaded), payment of Supply value shall be 80% on dispatch and 20% on issue of E&C Certificate. Payment of E&C value shall be made against E&C certificate issued by BHEL. E&C certificate shall be issued on satisfactory completion of erection, commissioning, job proving, performance tests, and training to operators etc. as envisaged in PO. The L/C shall be opened by BHEL as per following:

- (i) Within 30 Days of receipt of acceptable CEBG, an irrevocable unconfirmed L/C will be opened for 30% of the payment towards supply, due on shipment i.e. 24% of the Supply value of PO (30% of 80%).

Not earlier than 60 days before the shipment date, the value of this irrevocable unconfirmed L/C would be enhanced from 24 % to 80% of the Supply value of PO.

The above L/C can be negotiated after the Shipment against submission of B/L or AWB and such other documents as mentioned in the PO. The above L/C will be valid for a period extending 21 days beyond the shipment date for negotiation of documents.

- (ii) 15 days prior to the scheduled & confirmed arrival of the technicians of supplier with their names, an irrevocable unconfirmed L/C will be opened for a value equal to 20% of the Supply value of PO plus 100% of the E&C value of PO. The validity of L/C would be sufficient to cover the period required for the completion of E&C plus 21 days as negotiation period.

This L/C can be negotiated after: (a) Completion of E&C of the equipment in BHEL and against E&C certificate issued by BHEL and (b) Submission of Performance Bank Guarantee (PBG) by Supplier in the prescribed Format valid for 30 days beyond the warranty period, from one of the Consortium Banks of BHEL or from a reputed Bank and confirmed by Consortium Bank of BHEL for 10% of total PO Value. The PBG confirmation charges shall be borne by vendor.

Under all circumstances, CEBG will be kept valid till the PBG becomes operational.

**(b) FOR INDIGENOUS PURCHASE:**

- ~~(i) 90% basic payment + 100% taxes & duties shall be within 45 days & balance 10 % after completion of commissioning or on submission of Performance Bank Guarantee (PBG).~~

- (ii) 80% payment of Supply value shall be made within 45 days from the date of receipt of material at BHEL. Balance 20% of Supply value plus 100% of the E&C portion of PO value will be paid against E&C certificate issued by BHEL and submission of Performance Bank Guarantee (PBG) valid for 30 days beyond the warranty period by Supplier from any of the

**Consortium Banks of BHEL for 10% of total PO Value in the prescribed Format. The PBG confirmation charges shall be borne by vendor.**

Note: If PBG could not be submitted, vendors can also accept for the final 10% payment, payable after the warranty period + 6 months of claim period against supplementary invoice subject to the completion of commissioning (if applicable). In such cases loading for PBG is not applicable.

If payment terms as mentioned by BHEL are not agreed by bidder, such bidder have to submit Bank Guarantee at the time of payment in the prescribed Format of the amount, exceeding 80% of the PO value, valid till issue of E&C Certificate for the equipment.

**17. ADVANCE PAYMENT: Quotations with “Advance payment” without fully securing with equal value of BG shall be liable for rejection.**

**18. PENALTY: Failure to supply/completion of E&C within the delivery time as per purchase order will make the vendor liable to an unconditional **penalty of 0.5 % (half percent) per week at the basic price of the goods/E&C for the undelivered quantity, subject to a maximum of 10%.****

If pre-shipment inspection is involved, date of issue of pre-shipment call by the vendor along with test certificates / test reports / certificate of conformance / calibration reports as proof of completion will be treated as date of dispatch for the purpose of penalty calculation. In the absence of reports stated above, actual date of inspection will be considered as date of dispatch for penalty calculation.

Date of receipt / Date of dispatch / Date of LR / Date of Airway bill / Date of pre-shipment inspection call with relevant documents as stated above, whichever is applicable as mentioned in PO shall be considered for determination of actual delivery date for the purpose of penalty calculation. BHEL is not liable for delayed OA for opening LC or corrections/amendment to LC asked after opening of LC.

**19. Contract Execution Bank Guarantee (CEBG):**

**CEBG shall be required for all POs where value (Supply + E&C) of each P.O. is more than Rs. 20 lakhs. CEBG should be submitted as per the format in Annexure-D.**

The successful vendor shall have to furnish a Contract Execution Bank Guarantee (CEBG) for 10% of the Total PO value in the prescribed format within 30 days from the date of P.O. but before L/C opening. CEBG shall be from one of the Consortium Banks of BHEL or from a reputed Bank and confirmed by any Consortium Bank of BHEL. All bank charges on account of issuance and confirmation of CEBG whether incurred in India or outside India will have to be borne by the vendor.

CEBG shall be kept valid until 30 days after the date of E&C Certificate, which will be issued on completion of Erection & Commissioning of equipment which includes erection, commissioning, job proving, performance tests, and training to operators etc. as prescribed in PO.

If the supplier fails to submit the CEBG even within 60 days from the date of PO, BHEL reserves the right to cancel PO & forfeit the EMD given by the supplier. In addition, in such case, action will be initiated in line with extant guidelines for Suspension of Business dealings with Suppliers.

**20. PBG:** Performance Bank Guarantee (PBG) (If applicable): The vendor shall submit a PBG worth 10% of basic equipment value in the form and substance acceptable to BHEL from any of the Banks indicated in **ANNEXURE-G**. Such PBG shall be as per the format provided at **ANNEXURE - E/ ANNEXURE - F** and drawn on a non-judicial stamp paper of value Rs.100/-.

PBG shall be valid for 30 days beyond the warranty period of 12 months from the date of commissioning or 18 months from the date of dispatch whichever is earlier or as mentioned in the RFQ. The PBG shall also have 6 months claim period from the date of expiry of such validity of bank guarantee.

**The Bank Guarantee shall be submitted directly to the concerned Purchase Executive by the issuing Bank with their forwarding letter.** BHEL will verify independently with the bank to establish the authenticity.

**21. WARRANTY:** Goods dispatched shall have warranty period of 18 months from the date of dispatch or 12 months from the date of commissioning whichever is earlier or as mentioned in the RFQ.

**22. TERMS OF DELIVERY:**

**(a) FOR IMPORTED PURCHASE:**

Price offered shall be for goods packed and delivered F.O.B. (named international Airport / sea port) including packing, forwarding, Handling, Ancillary charges like processing of Sight Draft, Letter of credit (L/C) if applicable, negotiation of bank documents, Export declaration, Certificate of origin etc.

Packing shall be Road / Rail / Air / Sea worthy, best suitable for transshipment and to take care of transit damages. If containerized, no. of containers & size of container shall be mentioned. Packing weight (gross & nett) Packing dimensions shall be given prior to shipment to ascertain whether the consignment can be carried on standard cargo in contract or as ODC.

Wooden packing material for all the foreign consignments should be treated as per ISPM-15 & Fumigation / Phytosanitary certificate to be submitted to the freight forwarders/ BHEL along with the invoice, AWB, packing list etc.

Vendors shall indicate the name of International Airport/ Seaport. The consignment shall be handed over to BHEL approved freight forwarded as mentioned in PO.

Note: Name of International Airport has to be selected from any one of the airports indicated in the table provided in ANNEXURE –C.

**(b) FOR INDIGENOUS PURCHASE:**

Equipment shall be delivered on Ex-EDN/ Ex-ESD BHEL, Bangalore basis, inclusive of freight, packing, insurance & forwarding charges.

Packing shall be Road / Rail / Air / Sea worthy, best suitable for transshipment and to take care of transit damages.

Smaller consignments can be dispatched through Courier services/ RPP with the prior approval of the purchasing Executive.

**23. DELIVERY REQUIREMENT:** The bidders should quote their earliest schedule for Supply and E&C against the schedule indicated in the RFQ. BHEL, however, reserves the right to accept an offer not meeting the RFQ schedule.

In the quotation, earliest firm delivery (number of days or weeks) by which material will be dispatched from the date of Purchase order must be indicated. It is recommended to avoid Quotations with delivery term such as `ex-stock`, `subject to prior sale`, or `delivery at the earliest`. Date of BHEL PO is the reference for all purposes.

**24. VALIDITY:** Quotation should remain valid for a period of **90 days** from the date of technical bid opening. Offer with Non-conformance is liable for rejection.

**25. POST-ORDER REQUISITES:**

(a) Vendor shall give an Order Acknowledgement indicating the delivery date within one week of receipt of PO.

(b) Pre-shipment inspection at vendor's works, if required, will be carried out by BHEL. Required assistance will have to be provided by the vendor at the time of pre-shipment inspection.

(c) Test certificates, Calibration certificates and warranty certificates as stipulated at the time of ordering shall be furnished.

(d) Items shall be dispatched by Air/Road/Rail/Sea worthy packing. Any damage and later rejection, due to poor / improper packing shall be to vendor's account.

(e) Any damage/rejection should be made good or replaced immediately without any extra cost to BHEL such as freight, duties, taxes etc. The liability is restricted to the value of the order.

(f) Wherever commissioning is involved, it shall be carried out by the vendor's qualified engineers. Scope of work includes installation, commissioning and start-up trials till satisfactory performance level is reached as certified by BHEL.

(g) BHEL will not be responsible for any loss, damage or injuries to vendor's personnel sustained during installation / commissioning / start-up trials. Vendor shall ensure compliance with all statutory requisites as laid down by local bodies, state & Central Government. Vendor shall indemnify BHEL for all damages/ losses to various personnel during their presence in BHEL's premises for whatever purpose. The following shall be ensured by the vendor:

a) Vendor/contractor shall ensure that the vendor/contractor's workmen always follow safe work procedure during erecting/ commissioning activities.

b) Vendor/contractor shall ensure that the vendor/contractor's workmen wear safety PPEs (shoes, helmets, safety belt etc.) while on erecting/ commissioning work and similar works.

c) Vendor/contractor shall ensure adequate supervision of the activity by his/her supervisor/engineer during the erecting/ commissioning activities.

d) Vendor/contractor shall ensure that vendor/contractor's workmen meet legal requirement such as ESI/Workmen Compensation Act/Accident/medical insurance etc.

e) Vendor/contractor shall take work permit before commencement of the non-routine works of this nature.

f) Undertaking that vendor/contractor will adhere to necessary legal/safety requirements and BHEL shall be kept indemnified against any untoward events taking place during the course of work.

(h) Suitable markings & damage control indicating devices shall be provided where applicable.

26. Equipment shall comply with the standard requirements of ISO 14001 & OHSAS 18001.

27. **RISK PURCHASE:** The purchaser at his discretion may also make purchase of the materials **NOT** supplied in time at the **RISK & COST** of the supplier. In this event, it will be obligatory on the part of the supplier who fails to supply the goods in time to make good to BHEL any loss due to such risk purchase

**28. GENERAL TERMS AND CONDITIONS GOVERNING REVERSE AUCTION (RA):**

(a) Against this enquiry for the subject item/system with detailed scope of supply as per enquiry specifications, BHEL may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING ON INTERNET. • For the proposed RA, technically and commercially acceptable bidders only shall be eligible to participate.

(b) In case of RA, BHEL will engage the services of a service provider for conduct of the RA who will provide all necessary training and assistance to the bidders before commencement of on line bidding on internet.

(c) Business rules governing the RA will be communicated to the bidders through service provider for compliance.

(d) Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of RA. Without the compliance, the vendor will not be eligible to participate in the event.

(e) BHEL will provide a sample calculation sheet (in EXCEL format) which would help the bidders to arrive at "Net Cash outflow to BHEL" considering various price / cost elements like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) etc. for each of the bidders to enable them to arrive at "Net Cash outflow to BHEL ( Total Cost to BHEL)" which is the amount the bidder would be bidding during the RA.

(f) RA will be conducted on scheduled date & time and at the end of event, the lowest bidder value will be known on the network.

(g) The lowest bidder has to Fax the duly signed "Price Break-up" in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail.

(h) Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct further business with BHEL, as per the prevailing procedure.

**29. REGRET LETTER:** In case any vendor is unable to quote, vendor shall send a regret letter without fail. In case of non-receipt of quotations or regret letters for three consecutive enquiries, such vendor is liable to be removed from our vendor list.

**30.** Any dispute arising out of this, shall be referred to the sole arbitration of Head of Dept. Materials Management of group concerned, BHEL EDN or any other officer nominated by him and his award shall be final and binding on the parties. The venue of the arbitration in all cases shall be Bangalore.

**31.** Any legal suit in respect of this enquiry lies in the court of Jurisdiction of Bangalore (India) only.

**32. LOADING FACTORS:**

Loading factors as detailed below will be added to the quoted price (basic) to evaluate the lowest quote for non compliance of BHEL standard commercial terms.

**A: Bank Guarantee and Loading against non-acceptance of BHEL's Payment Terms:**

If payments terms as mentioned by BHEL are not agreed by bidder, such bidder have to submit Bank Guarantee at the time of payment / opening of LC in the prescribed Format of the amount, exceeding 80% of the PO value, valid till issue of E&C Certificate for the equipment. However, in no case, payment against dispatch shall exceed 90% of the PO Value.

Additionally, for any deviation sought including as mentioned above, in Payment Terms by bidder w.r.t. tender conditions, following loading shall be followed:

- (a) Benchmark Prime Lending Rate (BPLR) of SBI as applicable on the scheduled date of tender opening + 2%, for the amount & period of relaxation sought by bidder.
- (b) On account of payment through LC, if insisted by bidder, Bank charges shall also be loaded for the deviation in (i) opening of LC by BHEL and (ii) period and amount of LC w.r.t. NIT norms, as per the prevailing bank rates.

**(i). For non compliance of standard Terms of payment (For Foreign Purchase Orders)**

Sl. No.	BHEL standard term	If you quote	Loading factor in % for non-compliance
1	<del>90% against "SIGHT DRAFT" + 10% against PBG (where PBG only is applicable)</del>	Payment through Letter of Credit (LC) with bank charges to respective accounts	(BPLR+2%) x Percentage quoted through LC
2	80% against "SIGHT DRAFT" + 10% after commissioning +10% against PBG (where both E&C and PBG are applicable)	Payment through Letter of Credit (LC) with bank charges to respective accounts	(BPLR+2%) x Percentage quoted through LC

**A(ii).For non compliance of standard Terms of payment (For Indigenous Purchase Orders)**

Sl. No.	BHEL standard term	If you quote	Loading factor in % for non-compliance
1	<del>90% basic payment + 100% taxes &amp; duties with 45 days credit + 10% against PBG (where PBG only is applicable)</del>	Payment through bank	(BPLR+2%) x percentage quoted through bank / proforma invoice
		Payment against proforma invoice	
		100% with 45 days credit & against submission of PBG	Nil
2	80% basic payment + 100% taxes & duties with 45 days credit + 10% after commissioning +10% against PBG (where both commissioning & PBG are applicable)	Payment through bank	(BPLR+2%) x percentage quoted through bank / proforma invoice
		Payment against proforma invoice	
		100% with 45 days credit after commissioning & submission of PBG	Nil

**B. For non compliance of Penalty clause for in 'SUPPLY' and 'E&C':**

For the purpose of penalty for delay E&C of the equipment the duration will be reckoned from the date of intimation by BHEL to vendor for readiness of site

Penalty on delay in 'Supply' and/or 'E&C' will be applicable to the delays attributed to vendor. Penalty will be considered separately for 'Supply' and 'E&C'.

The rate of penalty for delayed Supply shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in supply subject to a maximum of 10% of total PO value (Supply + E&C).

The rate of penalty for delayed E&C shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in E&C subject to a maximum of 10% of total PO value (Supply + E&C).

Maximum penalty for delay in Supply and E&C together shall be limited to 15% of total PO value (Supply + E&C).

In case PO includes more than one machine, the penalty shall be @ 0.5% per week of delay on total PO value (Supply + E&C) for the delayed machine.

In case any bidder is not accepting the above penalty for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder.

Sl. No.	BHEL standard term	If you quote	Loading factor for non-compliance
1	The rate of penalty for delayed Supply shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in supply subject to a maximum of 10% of total PO value (Supply + E&C).	Not agreed.	10%
		Other than the above.	10% - (minus) agreed max. %
2	The rate of penalty for delayed E&C shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in E&C subject to a maximum of 10% of total PO value (Supply + E&C).	Not agreed.	10%
		Other than the above.	10% - (minus) agreed max. %

In case, any shortage is noticed viz-a-viz PO requirement in the main equipment / spares, such shortages shall be replenished by supplier on FOR destination basis without any cost implication to BHEL i.e. Custom Duty and freight charges etc. up to destination for such short supplies shall be borne by the supplier.

Supply period indicated by bidder should include reasonable time required for approval of drawings and other inputs from BHEL. In the Techno-Commercial Bid, the bidder shall submit milestones for various activities in co-relation with Supply and E&C period quoted by him.

**C. For non compliance of Performance Bank Guarantee (PBG) (If applicable):**

Sl. No.	BHEL standard term	If you quote	Loading factor for non-compliance
1	PBG for 10% of the basic material cost shall be furnished in the BHEL prescribed format.	Not agreed.	10 %
		Other than the above.	10% - (minus) agreed max. %

**D. For non conformance to delivery requirement indicated in the RFQ:**

Sl. No.	BHEL standard term	If you quote	Loading factor for non-compliance
1	Delivery requirement as indicated in the RFQ in number of weeks from the date of issue of PO	Not agreed for the stipulated delivery in the RFQ	0.5 % per week up to max., of 10% for the difference in delivery period

**E. For non compliance of Warranty:**

Sl. No.	BHEL standard term	If you quote	Loading factor for non-compliance
1	18 months from the date of dispatch or 12 months from the date of commissioning whichever is earlier or as indicated in the RFQ	Not agreed.	6%
		Less than 12 months or as indicated in the RFQ	0.5 % per month for the difference in period

**F (i) For Non- agreement on delivery at BHEL-EDN/ESD (For Foreign Purchase Orders):**

Sl. No.	BHEL standard term	If you quote	Loading factor for non-compliance
1	FOB / CIF to nearest international Airport/Seaport	Not agreed for the standard term of delivery	10 %

**F(ii) For Non- agreement on delivery at BHEL-EDN/ESD (For Indigenous Purchase Orders):**

Sl. No.	BHEL standard term	If you quote	Loading factor for non-compliance
1	Ex- EDN or ESD / BHEL, Bangalore (Free delivery to BHEL Bangalore including freight, packing & forwarding charges)	Not agreed for the standard term of delivery	10 %

**ANNEXURE-A**

**COMMERCIAL TERMS (to be enclosed with TECHNO-COMMERCIAL BID)**  
**(for Foreign Purchase Orders)**

Sl. No.	Particulars	Bidder's confirmation
1	<b>Price basis:</b> Firm i.e., from the date of PO to completion of supply [Price Variation Clause (PVC) not acceptable]	Acceptable / Not acceptable
2	EMD as mentioned in RFQ	Submitted/Not submitted
3	CEBG as detailed in clause 19	Acceptable / Not acceptable
4	<b>Terms of Payment:</b> Against "SIGHT DRAFT" on presentation of documents to our bankers. <del>(a) 90 % is payable on negotiation of complete set of original documents balance 10 % after completion of commissioning or on submission of PBG</del> (b) 80 % is payable on negotiation of complete set of original documents, 10% after commissioning & balance 10% against submission of PBG (where both Commissioning & PBG are applicable). (c) Deviation if any please specify	(a) Acceptable / Not acceptable (b) Acceptable / Not acceptable (c)
5	<b>BHEL's penalty clause:</b> (a) Delay in delivery as per PO delivery date will result in penalty of penalty of 0.5 % (half percent) per week at the basic price of the goods/E&C for the undelivered quantity, subject to a maximum of 10% individually. (b) Deviation if any Please specify	(a) Acceptable / Not acceptable (b)
.6	<b>Performance Bank guarantee (If applicable):</b> PBG for 10% of the basic material cost shall be furnished in the BHEL prescribed format as detailed in clause 20.	Yes / No
7	<b>Terms of delivery:</b> (a) F.O.B international Airport/Seaport as per clause 19 (a)(Indicate name of International Airport/Seaport) (b) Deviation if any Please specify	(a)Acceptable / Not acceptable (b)
8	<b>Warranty:</b> (a) 18 months from the date of dispatch or 12 months from the date of commissioning or as specified in RFQ (b) Deviation if any Please specify	(a)Acceptable / Not acceptable (b)
9	<b>Delivery period:</b> Indicate number of weeks from the date of issue of Purchase order	_____Weeks
10	<b>Validity:</b> (a) Quotation should remain valid for a period of 90 days from the due date (b) Deviation if any Please specify	(a) Acceptable / Not acceptable (b)
11	<b>Bank charges(If applicable):</b> (a) Bank charges within India is to BHEL account and outside India is to Vendor's account (b) Deviation if any Please specify	(a) Acceptable / Not acceptable (b)
12	Weight and Dimension of consignment with packing	Furnished / To be furnished

Signature of tenderer / with seal

**ANNEXURE-B**

**COMMERCIAL TERMS (to be enclosed with TECHNO-COMMERCIAL BID)**  
**(For Indigenous Purchase Orders)**

Sl.No.	Particulars	Bidder's confirmation
1	<b>Price basis:</b> Firm i.e., from the date of PO to completion of supply [Price Variation Clause (PVC) not acceptable]	Acceptable / Not acceptable
2	EMD as mentioned in RFQ	Submitted/Not submitted
3	CEBG as detailed in clause 19	Acceptable / Not acceptable
4	<b>Excise duty:</b> If applicable indicate %.	Applicable / Not applicable ED: _____%
5	<b>Sales tax:</b> If applicable indicate %	Applicable / Not applicable (a) VAT _____% (b) CST _____% against form C
6	<b>Service tax:</b> If applicable indicate %	Applicable / Not applicable ST: _____%
7	<b>Payment terms:</b> <del>(a) 90 % basic payment + 100% taxes, duties &amp; freight charges with 45 days credit &amp; balance 10 % after completion of commissioning or on submission of PBG</del> (b) 80 % basic payment + 100% taxes, duties & freight charges with 45 days credit, 10% after commissioning & balance 10% against submission of PBG ( where both commissioning & PBG are applicable) (c) Deviation if any please specify	(a) Acceptable / Not acceptable (b) Acceptable / Not acceptable (c)
8	<b>BHEL's penalty clause:</b> (a) Delay in delivery as per PO delivery date will result in penalty of penalty of 0.5 % (half percent) per week at the basic price of the goods/E&C for the undelivered quantity, subject to a maximum of 10% individually. (b) Deviation if any Please specify	(a) Acceptable / Not acceptable (b)
9	<b>Performance Bank guarantee (PBG) (If applicable):</b> PBG for 10% of the basic material cost shall be furnished in the BHEL prescribed format as per clause 20.	Yes / No
10	<b>Terms of delivery:</b> (a) Ex- EDN or ESD / BHEL, Bangalore (Free delivery to BHEL Bangalore including freight, packing & forwarding charges) (b) Deviation if any Please specify	(a) Acceptable / Not acceptable (b)
11	<b>Warranty:</b> (a) 18 months from the date of dispatch or 12 months from the date of commissioning or as specified in RFQ (b) Deviation if any Please specify	(a) Acceptable / Not acceptable (b)
12	<b>Delivery period:</b> Indicate number of weeks from the date of issue of Purchase order	_____ Weeks
13	<b>Validity:</b> (a) Quotation should remain valid for a period of 90 days from the due date (b) Deviation if any Please specify	(a) Acceptable / Not acceptable (b)
14	<b>Bank charges (If applicable):</b> (a) All Bank charges to vendor's account (b) Deviation if any Please specify	(a) Acceptable / Not acceptable (b)
15	Weight and Dimension of consignment with packing	Furnished / To be furnished

Signature of tenderer / with stamp

**ANNEXURE- C**

**LIST OF INTERNATIONAL AIRPORTS**

Sl. No	Country	Air Ports
1	Austria	Vienna, Linz, Graz
2	Australia	Sydney, Melbourne, Perth
3	Belgium	Antwerp, Brussels
4	Canada	Toronto, Montreal
5	China	Shangai
6	Cyprus	Lamaca
7	Czech Republic	Prague (Via Frankfurt)
8	Denmark	Copenhagen
9	Egypt	Cairo
10	Finland	Helsinki
11	France	Paris (Rossy), Lyon
12	Germany	Darmstadt, Manihem, Nurnberg, Hamburg, Stuttgart, Munich, Koln, Dusseldorf & Hannover, Frankfurt, Berlin
13	Hongkong	Hongkong
14	Italy	Rome, Milan, Turin, Bologna, Florence
15	Ireland	Dublin
16	Isrel	Telaviv
17	Japan	Tokyo, Osaka
18	Malaysia	Kaulalampur, Penang
19	Neatherlands	Amsterdam, Rotterdam
20	Newzealand	Auckland
21	Norway	Oslo
22	Oman	Muscat
23	Philiphines	Manila
24	Romania	Bucharest
25	Russia	Moscow
26	Saudi Arabia	Riyad
27	Singapore	Singapore
28	Slovakia	Bartislowa
29	South Africa	Johannesburg, Durban
30	South korea	Kimpo
31	Spain	Barcelona
32	Sweden	Stockholm, Gothenburg, Milano
33	Switzerland	Basle, Zurich, Geneva
34	Taiwan	Taipei
35	U.A.E.	Dubai
36	U.K.	Landon (Heathrow), Newcastle, Oxford, Cheltham, Bristol, Wellingborough, Birmingham, East Midland, Manchester, Leeds, Glasgow.
37	U.S.A.	Newyork, Chicago, Sanfrancisco, Los Angeles, Atlanta
38	Ukraine	Kiev

**ANNEXURE – D****CONTRACT EXECUTION BANK GUARANTEE BOND**

This deed of guarantee made this ..... day of ..... 20... by the..... Bank Ltd, (hereinafter referred to as “the Bank”) in favour of Bharat Heavy Electricals Limited, Bangalore having its registered Office at New Delhi with its Unit Office at Bangalore where as M/s..... having its registered office at ..... (hereafter called the “the Contractor”) have entered in to contract with Bharat Heavy Electricals Limited, Bangalore for the supply of ..... vide Purchase Order No ..... dated .....

1. We ..... Bank Ltd, do hereby undertake to pay to Bharat Heavy Electricals Limited, Bangalore an amount not exceeding Rs..... against any loss or damage caused to or suffered or would be caused to or suffered by Bharat Heavy Electricals Limited, Bangalore by reason of any breach by the said Contractor of any of the terms or conditions contained in the said Purchase Order.

2. We, ..... Bank Ltd, do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from Bharat Heavy Electricals Limited, Bangalore stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by Bharat Heavy Electricals Limited, Bangalore by reason of any breach by the said Contractor of any of the terms or conditions contained in the said Purchase Order or by reason of the Contractor’s failure to perform the said Purchase Order. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....

3. We, ..... Bank Ltd, further agree to the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Purchase Order and that it shall continue to be enforceable till all the dues of Bharat Heavy Electricals Limited, Bangalore under or by virtue of the said Purchase Order have been fully paid and its claims satisfied or discharged or till Bharat Heavy Electricals Limited, Bangalore certifies that the terms and conditions of the said Purchase Order have been fully and properly carried out by the said Contractor and accordingly discharges the guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the ..... we shall be discharged from all liability under this guarantee thereafter. But where such claim or demand has been preferred by the Company with the Bank before the expiry of the said date the claim shall be enforceable and Payable only by any one of the BHEL Consortium Banks in India ( List is attached herewith) notwithstanding the fact that the said enforcement is effected after the said date



For the purpose of this clause, any letter making demand on the Bank by Bharat Heavy Electricals Limited, Bangalore dispatched by Registered Post with Ack. Due or by Telegram or by any Electronic media addressed to the Bank ( **any one of the BHEL Consortium Banks as per list attached as selected by the vendor**) shall be deemed to be the claim / demand in writing referred to above irrespective of the fact as to whether and when the said letter reaches the Bank, as also any letter containing the said demand or claim is lodged with the Bank personally.

4. We,.....Bank Ltd, further agree with Bharat Heavy Electricals Limited, Bangalore that Bharat Heavy Electricals Limited, Bangalore shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Purchase Order or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by Bharat Heavy Electricals Limited, Bangalore against the said Contractor and to forbear or enforce any of the terms and conditions relating to the said Purchase Order and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor or for any forbearance, act or omission on the part of Bharat Heavy Electricals Limited, Bangalore or any indulgence by Bharat Heavy Electricals Limited, Bangalore to the said Contractor or by any such matter of thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

5. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Bangalore.

We, ..... Bank Ltd, lastly undertake not to revoke this guarantee during its currency except with the previous consent of Bharat Heavy Electricals Limited, Bangalore in writing.

In witness whereof we..... (indicate the name of Bank) have hereunto setout Bank

Seal the..... day ..... month 201

**The contact details of the Issuing Bank such as Email ID, Phone No. and Fax No. should be indicated in the CEBG. Also please note that the CEBG should be forwarded to us with the covering letter of the issuing Bank with signature and seal.**

**(1) It should be typed in the Rs. 100 value of stamp paper.**

**(2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.**

**(3) It should be submitted with bank covering letter with sign and seal of the bank official.**

Please note that issuance of the CEBG without meeting the above requirement will render the document invalid.

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**ANNEXURE-E**

**PERFORMANCE BANK GUARANTEE  
(FOR FOREIGN PURCHASE ORDERS)**

**BANK NAME AND ADDRESS**

Bharat Heavy Electricals Limited (BHEL),  
Electronics Division,  
PB No. 2606,  
Mysore Road,  
BANGALORE- 560 026  
INDIA

Dear Sir,

Ref: CONTRACT PERFORMANCE GUARANTEE.

WHEREAS you have entered into a contract reference No PO NO. \_\_\_\_\_ with M/s \_\_\_\_\_ having its registered office at \_\_\_\_\_ for the supply of \_\_\_\_\_ as detailed in your purchase order No. \_\_\_\_\_ which is hereinafter referred to as "the said contract" and WHEREAS M/s \_\_\_\_\_ has undertaken to produce a Bank Guarantee for 10% ( Ten Percent ) of \_\_\_\_\_ the contract price amounting to \_\_\_\_\_ ( \_\_\_\_\_ ) to secure its obligations to Electronics Division, BHEL having its registered office at New Delhi for the performance of the contract including the warranty of the equipment supplied, We \_\_\_\_\_ Bank \_\_\_\_\_ hereby expressly, irrevocably and unreservedly undertake and guarantee as principal obligors on behalf of M/s \_\_\_\_\_ that in the event Bharat Heavy Electricals Ltd. (B.H.E.L.) declares to us in writing that M/s \_\_\_\_\_ has not fulfilled any obligation according to the contractual obligation of the said contract, to pay you on demand and without demur to Bharat Heavy Electricals Ltd., Electronics Division , Mysore Road, P.B.No. 2606, Bangalore-560 026, India an amount of \_\_\_\_\_ (in words \_\_\_\_\_ ) subject to as may be determined below:

- 1) Notwithstanding any right M/s. \_\_\_\_\_ may have directly against you or any disputes raised by M/s \_\_\_\_\_, Your written demand shall be conclusive evidence to us that repayment is due under the terms of the said contract and shall be binding on us.
- 2) We shall not be discharged or released from this undertaking and Guarantee by any arrangements, variations made between you and M/s. \_\_\_\_\_ with or without our consent and Knowledge or by any alterations in the obligations of M/s. \_\_\_\_\_ by any forbearance whether as to payment, time, performance or otherwise.
- 3) This guarantee shall remain valid until the end of twenty-four weeks after the close of the warranty period or until the same is reported by BHEL to us whichever is earlier.
- 4) We agree and undertake not to revoke this guarantee during its validity unless discharged in writing by you subject to the provision of clause (7) below.



- 5) This guarantee shall be a continuing guarantee subject to the foregoing and shall not be discharged by any change in the constitution of the Bank or M/s. \_\_\_\_\_.
- 6) This guarantee shall be governed by and constructed in accordance with the Laws of India.
- 7) At any time \_\_\_\_\_ Bank may render this guarantee null and void by paying to Bharat Heavy Electricals Ltd. the full amount being \_\_\_\_\_ (in \_\_\_\_\_ words \_\_\_\_\_)

For and on behalf of Bank  
by its Authorised Signatory

**Note:**

- (1) To be executed in INR 100 Non-Judicial stamp paper by any authorized Indian Bank.
- (2) To be submitted directly by banker to concerned executive in purchase dept., Please give BHEL address to banker.
- (3) Do not enclose with Bank document.
- (4) Any Modification & omissions to this are not permitted



**ANNEXURE - F**

**PERFORMANCE BANK GUARANTEE  
(FOR INDIGENOUS PURCHASE ORDERS)**

THIS DEED OF GUARANTEE made and executed on the \_\_\_\_\_ day of \_\_\_\_\_ (year), by the \_\_\_\_\_ (Bank), registered under the Companies Act 1956/Nationalised Bank constituted under the Banking Companies (acquisition and transfer of undertakings) Act constituted under the State Bank of India Act / Subsidiary Banks Act, having its registered / head office at \_\_\_\_\_ represented herein by its Branch Manager / authorised representative Sri. \_\_\_\_\_ & Sri. \_\_\_\_\_ (Hereinafter called 'guarantor ' which term shall mean and include its successors and assigns)

**IN FAVOUR OF BHARAT HEAVY ELECTRICALS LIMITED**

\_\_\_\_\_ (Buyer's Name), a company registered under the companies Act, 1956 having its registered office at BHEL House at Siri Fort , New Delhi-100 049 and its Electronics Division at Mysore road, Bangalore-26 (hereinafter referred to as the 'Company' Which term shall include its successors and assigns):

Whereas the company has placed an order on \_\_\_\_\_ (State the name of the company / firm and its address) (hereinafter referred to as the 'Supplier' which term shall mean and include its liquidators, successors and assign) for the supply of system under order / Contract No \_\_\_\_\_ Dt \_\_\_\_\_.

AND WHEREAS the supplier has agreed to supply the materials and carryout the works as detailed and in accordance with the terms set out in the said order/contract.

AND WHEREAS the company is not required to pay to the supplier a sum of Rupees \_\_\_\_\_ being the 10% of the value of the goods supplied / Works performed / Services rendered under the said order / contract between the supplier and the company, till the company is satisfied with the mechanical Warranties and the performance standards stipulated in the said order / contract between the company and the supplier has been duly fulfilled, except against a Bank Guarantee for the said sum of Rs \_\_\_\_\_ in favour of the company by reputed Bank, in which case the company has agreed to make payment to the supplier of the said sum of Rupees \_\_\_\_\_ being ( ...% ) of the value of the goods supplied / Works performed / Services rendered under the agreement between the supplier and the company and the Guarantor has at the request of the supplier, agreed to furnish this Guarantee subject to the terms and conditions stated below:

NOW THIS DEED WITNESSES THAT IN pursuance of the above said agreement, the guarantor hereby agrees and covenants With company is as follows :-

- 1) That during the period this contract of Guarantee remains effectual, the guarantor shall be liable in respect of the amount due and owing to the company in respect of the payments to the extent of Rs \_\_\_\_\_ (in words) \_\_\_\_\_ against any loss or damage caused to or suffered by the company by reasons of any breach of the terms of the said order / contract / Agreement by the supplier.
- 2) The Guarantor hereby undertakes to pay the amounts due and payable under this guarantee without any demur, merely on demand from the company intimating that the amount claimed is due by way of loss or damage caused to or suffered or would be caused or suffered by the supplier of any terms contained in the said order / contract. Any such demand made on the guarantor shall be conclusive as regards the amount due and payable by the Guarantor irrespective of the fact whether the Contractor / supplier admits or denies.

- 3) The Guarantor further agrees that the agreement herein contained shall remain in force and effect till all the supplies to be made / Works to be performed / Services to be rendered under the said order / contract / agreement are completed to the entire satisfaction of the company or till company certifies that the terms and conditions of the said order / contract / agreement have been fully and properly carried out by the said supplier and accordingly discharges the Guarantee. Unless a demand or claim under this guarantee is made on the guarantor in writing on or before the expiry of claim period indicated in clause 6 below , the guarantor shall be discharged from all the liability under this guarantee thereafter.
- 4) The guarantor further agrees with the company that the company shall have the fullest liberty without the consent of the guarantor and without effecting in any manner the obligations of the guarantor hereunder to vary any of the terms of the said order / contract / agreement or extend the time of performance by the said supplier from time to time or refrain from exercising the power exercisable by the company against the said supplier or to forebear or omit to enforce any of the terms and conditions relating to the said order / contract / agreement, and the guarantor shall not be relieved of its liability in whole or in part , by reason of any act, commission or forbearance on the part of the company or by reason of any such variation, or extension being granted to the said supplier or by reason of any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving the guarantor.
- 5) The guarantor undertakes not to revoke this guarantee during its currency except with the previous consent of the company in writing.
- 6) Notwithstanding anything herein above contained, the liability of the guarantor under these presents is restricted to Rs\_\_\_\_\_. The guarantee shall be in force till its expiry on \_\_\_\_\_ unless a demand is made on the guarantor within SIX months from the date of expiry, all the liability of the guarantor under this guarantee shall stand fully discharged. The decision of the claimant in regard to breach of contract is final and binding on the Bank.

IN WITNESS whereof, the guarantor, acting through its authorised representative has executed this deed of Guarantee on the day, month and year first above written.

(Seal of the Bank to be affixed )

WITNESS

1.

2.

**ANNEXURE - G****BHEL MEMBER BANKS (CONSORTIUM BANKS)**

**PBG SHALL BE ISSUED FROM THE FOLLOWING BANKS OR THEIR BRANCH OFFICES ONLY**

1	<b>STATE BANK OF INDIA</b>
2	<b>PUNJAB NATIONAL BANK</b>
3	<b>HDFC BANK</b>
4	<b>SYNDICATE BANK</b>
5	<b>CANARA BANK</b>
6	<b>INDIAN BANK</b>
7	<b>ST. BANK OF HYDERABAD</b>
8	<b>ICICI BANK</b>
9	<b>STANDARD CHARTERED BANK</b>
10	<b>UCO BANK</b>
11	<b>KOTAK MAHINDRA</b>
12	<b>ORIENTAL BANK OF COMMERCE</b>
13	<b>STATE BANK OF TRAVANCORE</b>
14	<b>CENTRAL BANK</b>
15	<b>IDBI BANK</b>
16	<b>FEDERAL BANK</b>
17	<b>HSBC LTD</b>
18	<b>DEUTSCHE BANK</b>
19	<b>CORPORATION BANK</b>
20	<b>CITI BANK</b>
21	<b>BANK OF BARODA</b>
22	<b>ABN AMRO BANK</b>
23	<b>UNITED BANK OF INDIA</b>
24	<b>VIJAYA BANK</b>
25	<b>UNION BANK OF INDIA</b>
26	<b>PUNJAB &amp; SIND BANK</b>
27	<b>ANDHRA BANK</b>
28	<b>BANK OF INDIA</b>
29	<b>AXIS BANK</b>

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The list of BHEL approved consortium bank may be updated from time to time. Please check with the purchasing executives for correctness.

**ANNEXURE – H**

This format is applicable only to Indian Suppliers/ Agents supplying indigenous portion of Foreign Purchases.

<b>SEARP (SRF) Clause No</b>	<b>Detail</b>
	<b>Name &amp; address of the firm</b>
<b>1.0</b>	<b>Products/ Systems / Services being considered for</b>
<b>2.0</b>	<b>General Information</b>
2.2	Name of Chief Executive
2.3	Details of authorized signatory
<b>3.0</b>	<b>Ownership Information</b>
3.1	Type of firm
3.2	Nature of Business <ul style="list-style-type: none"> <li>• Attach <b>authorization letter</b> and <b>agency agreement</b> from Principal ( from whom capital equipment is procured)</li> <li>• Attach copy of declaration from Foreign Principal for <b>total guarantee/ warranty of indigenous supplies</b></li> </ul>
3.3	Year of establishment
3.4	Year of commencement of business
<b>4.0</b>	<b>Registration particulars</b>
4.1	Permanent Account No.
4.2 / 4.3	Sales Tax / TIN no
4.6	Service tax no. (in case of E&C)
<b>5.0</b>	<b>Organisational strength</b>
<b>6.0</b>	<b>Other particulars</b>
6.1	If the company is already registered with other units
6.2	Directors/ Partners, if related to any BHEL Employee
6.9	If any Ex BHEL Personnel employed by the Company
6.12	Details of pending legal issues with BHEL
6.13	Bank Account information
<b>9.0</b>	<b>Financial information</b>
9.6	Sales/ Turnover details of last 3 years (or from the date of incorporation whichever is less )

**ANNEXURE – I**

Annexure - I

**Certificate by Chartered Accountant on letter head**

This is to Certify that M/S .....  
(hereinafter referred to as 'company') having its registered office at  
..... is registered under MSMED Act 2006, (Entrepreneur  
Memorandum No (Part-II) ..... dtd:.....  
Category: ..... (Micro/Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as on  
date..... as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No.S.O.1722(E) dated October 5, 2006 :  
Rs.....Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:  
Rs.....Lacs

The above investment of Rs.....Lacs is within permissible limit of  
Rs.....Lacs for .....Micro / Small (Strike off which is not applicable)  
Category under MSMED Act 2006.

Date:

(Signature)

Name -

Membership number -

Seal of Chartered Accountant