



Bharat Heavy Electricals Ltd.,
Electronics Division,
Mysore Road, Bangalore – 560 026

Tender Document for "Supply and E&C support services for Control Desk, Draw out console, Rack and Furniture for NTPC Nabinagar 3X660MW projects (Ref. NKR0000131)"

TENDER REFERENCE DOC	NKR0000131
TENDER DOCUMENT AVAILABLE FROM	Refer eprocurement system website
LAST DATE AND TIME FOR SUBMISSION OF TENDER	Refer eprocurement system website
DATE AND TIME FOR TENDER OPENING	Refer eprocurement system website
SUBMISSION OF TENDER	Bidder to submit tender in E-procurement site : https://bheleps.buyjunction.in/ . Refer instructions give in tender document for offer submission of bid in E-procurement site. Service provider: M-junction

This Tender Document Contains documents as per below index:

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REQUEST FOR QUOTATION

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER: NKR0000131
RFQ DATE: REFER EPROCUREMENT SYSTEM
RFQ DUE DATE: REFER EPROCUREMENT SYSTEM

(for all correspondence)
Purchase Executive : Nilmani Kumar-Engr-CE-MM-PR/ Mrs. Savitha B-DGM-CE-MM-PR
Phone : 080-26998663/26998694
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SI No.	Material Code	Description	Qty	Unit
1	PR0500003004	Unit Control Desk 7m HMI Operator desk/UCD with drawout console (7m) as per PSPEC PS4042648 Part A and Annexure-I drawing title "UNIT CONTROL DESK OF 7 SECTIONS".	3	Set
2	PR0500003098	Drawout Console for 7m UCD Nabinagar II - Process Drawout Console (CWD01) 2. Electrical Draw out Console (CWD02) for 7 meters Unit Control Desk for Nabinagar II Station C&I Package as per PS4042648 Part B (including Part B Annexures I and II).	3	Set
3	PR0500002996	Unit Incharge Desk 2m - Unit Incharge Desk (2m) as per PSPEC PS4042650 Section 1A and drawing I.	3	Set
4	PR0500002988	Shift Incharge Desk 2m - Shift Incharge Desk (2m) as per PSPEC PS4042650 Section 1B and drawing II	1	Set
5	PR0500002970	Water System Desk 4m - Water System Desk (4m) as per PSPEC PS4042650 Section 1D and drawing IV.	1	Set
6	PR0500003123	AHP Desk 3m - AHP Desk (3m) as per PSPEC PS4042650 Section 1C and drawing III.	1	Set
7	PR0500003115	CHP Desk 4m- HMI 4 section operator desk with drawout console (4m) for CHP Package-as per Pspec No. PS4042649 Part A and Part A drawing titled "CHP Desk of 4 mtrs".	1	Set
8	PR0500003080	Drawout Console for 4m CHP Desk Nngr II - CHP Draw out Console for 4 meters CHP Desk for Nabinagar II Station C&I Package as per PS4042649 Part B.	1	Set
9	PR0500003063	WORKSTATION FURNITURE (SECTION OF 2) - Workstation furniture 2 section as per PSEPC PS4042647 PART-A and annexure I drawing.	52	Set
10	PR0500003047	PC RACK (For 4 PCs) - PC Rack (Rack behind LVS) for accommodating 4 PCs as per PSEPC PS4042647 PART-C and annexure III drawing.	21	Set
11	PR0500003039	SERVER RACK (For 2 PCs & miniUPS) - Server Rack for accommodating 2 PCs/Servers along with their miniUPS & battery as per PSEPC PS4042647 PART-D and annexure IV drawing.	47	Set
12	PR0500003020	Printer Rack (For 3 A4 Printers) - Printer Rack for accommodating 3 A4 Printers as per PSEPC PS4042647 PART-E and annexure V drawing which can be used in conjunction with Workstation furniture.	10	Set
13	PR0500003012	Conference Table (For 15 chairs) - Conference Table for accommodating 15 chairs as per PSEPC PS4042647 PART-F and annexure IV drawing.	1	Set
14	PR0500003071	Mandatory Spares Drawout Console Nngr II - Mandatory Spares for Drawout Console for Nabinagar II Station C&I Package as per PS4042648 Part B annexure III.	1	Set

- This is only RFQ not an order.
- In all correspondence quote RFQ No. & due date.
- Quotation should remain valid for a minimum period of 120 days from due date.
- In case of non-receipt of Quotation or regret letter for 3 consecutive RFQs you are liable to be removed from our vendors list.
- Excise Chapter Heading should be mentioned for all items where VAT is applicable .

Unitwise quantity breakup

Sl No	System	Material Code	Item	Qty
1	Unit 1	PR0500003004	Unit Control Desk 7m	1
		PR0500003098	Drawout Console for 7m UCD Nabinagar II	1
		PR0500002996	Unit Incharge Desk 2m	1
		PR0500002988	Shift Incharge Desk 2m	1
		PR0500002970	Water System Desk 4m	1
		PR0500003123	AHP Desk 3m	1
		PR0500003115	CHP Desk 4m	1
		PR0500003080	Drawout Console for 4m CHP Desk Nngr II	1
		PR0500003063	WORKSTATION FURNITURE (SECTION OF 2)	24
		PR0500003047	PC RACK (For 4 PCs)	9
		PR0500003039	SERVER RACK (For 2 PCs & miniUPS)	19
		PR0500003020	Printer Rack (For 3 A4 Printers)	6
		PR0500003012	Conference Table (For 15 chairs)	1
2	Unit 2	PR0500003004	Unit Control Desk 7m	1
		PR0500003098	Drawout Console for 7m UCD Nabinagar II	1
		PR0500002996	Unit Incharge Desk 2m	1
		PR0500003063	WORKSTATION FURNITURE (SECTION OF 2)	14
		PR0500003047	PC RACK (For 4 PCs)	6
		PR0500003039	SERVER RACK (For 2 PCs & miniUPS)	14
		PR0500003020	Printer Rack (For 3 A4 Printers)	2
3	Unit 3	PR0500003004	Unit Control Desk 7m	1
		PR0500003098	Drawout Console for 7m UCD Nabinagar II	1
		PR0500002996	Unit Incharge Desk 2m	1
		PR0500003063	WORKSTATION FURNITURE (SECTION OF 2)	14
		PR0500003047	PC RACK (For 4 PCs)	6
		PR0500003039	SERVER RACK (For 2 PCs & miniUPS)	14
		PR0500003020	Printer Rack (For 3 A4 Printers)	2
4	Mandatory Spares	PR0500003071	Mandatory Spares Drawout Console Nngr II	1

Pre-Qualification Requirements (PQR)

1.0 The bidder should have manufactured and supplied such modular control desk (Table top should be ASS plus MDF) and workstation furniture for any project (Industry/Power/Process) prior to the date of quotation.

2.0 The bidder should have manufactured and supplied such draw out console enclosures with mosaic consoles, prior to the date of quotation.

3.0 Makes of mosaic console items proposed for this project shall have to be from the approved sources mentioned in this specifications. The bidder must have the necessary technical competency and expertise to design, assemble and wire the make/brand of mosaic items to be offered by them.

Submit reference list of Projects wherein offered system is supplied. Also copies of purchase order and dispatch documents should be mandatorily furnished for proof of the above

(Reetesh)
MS
(MCA 81900)

		 A4-10	PURCHASE SPECIFICATION WORKSTATION FURNITURE, RACKS & CONFERENCE TABLE		PS/404/2647			
					REV No. : 00			
					Page 1 of 8			
COPYRIGHT AND CONFIDENTIAL The information contained in this document is the property of BHARAT HEAVY ELECTRICALS LIMITED This must not be used directly or indirectly, in any manner detrimental to the interest of the company		EQUIPMENTS : WORKSTATION FURNITURE (SECTION OF 2) WORKSTATION FURNITURE (SECTION OF 1) PC RACK/RACK BEHIND LVS SERVER RACK PRINTER RACK CONFERENCE TABLE						
		<u>TITLE</u> PURCHASE SPECIFICATION WORKSTATION FURNITURE & RACKS		Dept Code 404	DRN.	NAME	SIGN	DATE
PREPARED	MARSHAL SANDHU		22.1.2016					
			22.1.2016					
APPROVED	REETESH KR		22.1.2016					

		बी एच ई एल  A4-10	PURCHASE SPECIFICATION WORKSTATION FURNITURE, RACKS & CONFERENCE TABLE	PS/404/2647		
				REV No. : 00		
				Page 2 of 8		
REVISION HISTORY SHEET						
COPYRIGHT AND CONFIDENTIAL The information contained in this document is the property of BHARAT HEAVY ELECTRICALS LIMITED This must not be used directly or indirectly, in any manner detrimental to the interest of the company	REV No.	DATE	NATURE OF CHANGE	REASON	PREPARED BY	REVIEWED BY
	00	22.1.2016	FIRST ISSUE	---	MS	RKA

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Sl. No.	Specification	Supplier's Remark
1	Design, Manufacture / Fabrication and Supply of in Position Control Room Racks as per indicative drawing (Annexure-II)	
2	It shall consists of Vertical, Horizontal and Base supports with their coverings and Work surfaces and Pullout Keyboard Trays, concealed wire way management profiled trays with covers in both Horizontal and Vertical Directions complete with clamps, adapter sleeve, switches, foot rest etc.	
3	VERTICAL SUPPORT : Support legs dimensions as per drawing in minimum 2.0 mm thick extruded / profiled aluminium / laminated steel, to hold mounting base, work surface and shelves. Side and top supports / stiffeners to be provided, as required, for strength and supporting wire ways.	
4	WORK SURFACE •Worktop of dimensions as per the drawing. It shall be made of MDF board, laminated/veneered on both sides, having minimum 25mm thickness. •Profiled Steel Support and cantilevered beam, if required, in Die Cast Aluminium/Steel, to support legs and pillars which are to be powder coated in approved color/shade. •Worktop to have keyboard trays of compact design with provisions for sliding, complete with mounting arrangement. •Shelves to hold the CPU to be height adjustable.	
5	Each module shall consist of document rack with transparent cover and adjustable partition, tilt adjustable foot rest, Sliding keyboard tray with adjustable height and tilt, telephone arm, storage tray, copy holder, paper tray, task light etc. It shall have locking provision for security. The components shall be suitable for integration/fabrication without any welding technology.	

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- Profiled steel support and cantilevered beam, if required, in Die Cast Aluminium/Steel, to support legs and pillars which are to be powder coated in approved color/shade.
- Shelves to hold the CPU to be height adjustable.

7	For ensuring proper cooling in door closed condition, in front side & rear side, louvers in top tier and bottom tier to be provided and on rear side exhaust fans to be provided in parallel to these louvers.
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PRINTER RACK

Sl. No.	Specification	Supplier's Remark
1	Design, Manufacture / Fabrication and Supply of in Position printer Racks as per indicative drawing (Annexure-V)	
2	VERTICAL SUPPORT : Support legs dimensions as per the drawing, in minimum 2.0 mm thick extruded / profiled aluminium / laminated steel, to hold mounting base Shelves. Side and top supports/stiffeners to be provided, as required, for strength and supporting wire ways.	
3	SHELVES - Shelves dimensions as per drawing, shall be made of MDF board, laminated/veneered on both sides, having minimum 25mm thickness. - Profiled Steel Support and cantilevered beam, if required, in Die Cast Aluminium/Steel, to support legs and pillars which are to be powder coated in approved color/shade.	
4	Paper tray to be provided as shown in drawing.	

1. The CPU units of servers / workstations will weigh approximately 20 kgs each, miniUPS and battery together will weigh around 60 kgs totally. The design proposed should be capable of supporting the above load.
2. Dimensions are indicative, detailed component size and specification may be vendor specific within broad specs given above.
3. As required Nos. of 4 way, 5/15 Amps power socket strip mounted on each of the shelves.



PURCHASE SPECIFICATION WORKSTATION FURNITURE, RACKS & CONFERENCE TABLE

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PART – F

CONFERENCE TABLE

Sl. No.	Specification	Supplier's Remark
1	Design, Manufacture / Fabrication and Supply of in Position Conference with provision for accommodating 15 chairs. as per indicative drawing (Annexure-VI)	
2	It shall consists of Vertical, Horizontal and Base supports with their coverings and Work surfaces as required. Concealed wire way management profiled trays with covers in both Horizontal and Vertical Directions.	
3	VERTICAL SUPPORT : Support legs dimensions as per drawing in minimum 2.0 mm thick extruded / profiled aluminium / laminated steel, to hold mounting base and work surface. Side and top supports / stiffeners to be provided, as required, for strength and supporting wire ways.	
4	WORK SURFACE •Worktop of dimensions as per the drawing. It shall be made of MDF board, laminated/veneered on both sides, having minimum 25mm thickness. •Profiled Steel Support and cantilevered beam, if required, in Die Cast Aluminium/Steel, to support legs and pillars which are to be powder coated in approved color/shade.	

NOTE:

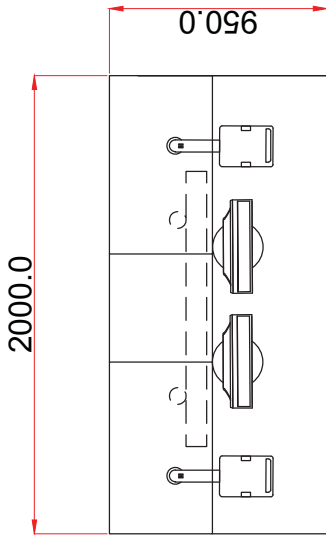
1. Dimensions are indicative, detailed component size and specification may be vendor specific within broad specs given above.

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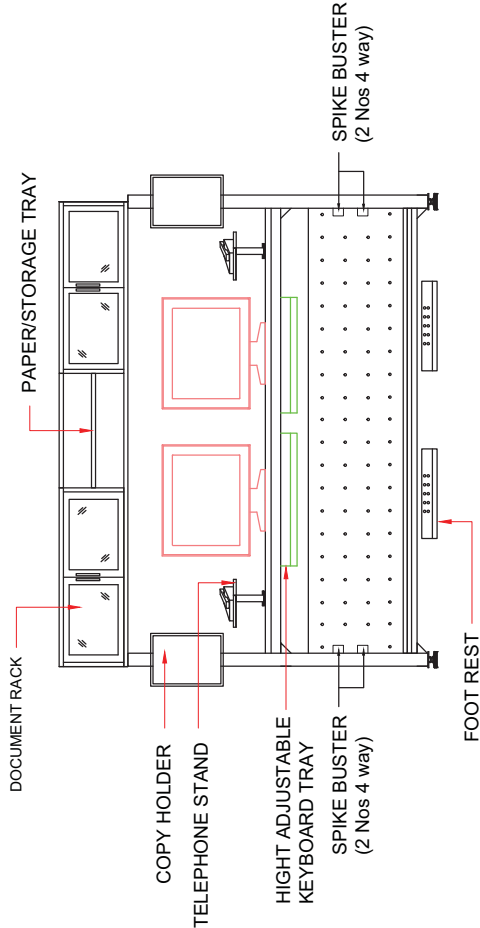
		 A4-10	PURCHASE SPECIFICATION WORKSTATION FURNITURE, RACKS & CONFERENCE TABLE	PS/404/2647
				REV No. : 00
				Page 8 of 8
PART – G: – GENERAL SPECIFICATIONS WHEREVER APPLICABLE				
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	1	Finished surface to be free from waves, belies or other imperfections. Surface to be Powder Coated or if Spray painted, 2 coats of inhibitive epoxy primer surface to be applied. Paint with Minimum of 2 coats of Primer and 2 sprays of final finish color to be applied OR powder coated with epoxy paint. Exact color and shade of components will be specified at the time of Order placement. Minimum thickness for Aluminum Sheets: is 30 microns. For MS Components: is 65 microns		
	2	Along with offer detailed drawings showing sectional view, top view, front view, and rear view of desks and tables, electrical wiring diagram with bill of materials for each item.		
	3	Documents to be submitted for manufacturing approval: - Detailed OGA with front view, top view, rear view, sectional view, and floor cut-out details for desks and tables. - Electrical Wiring Diagram with BOM of racks, workstation furniture and printer racks. - Quality Plan - Color Shade options.		
	4	Supplier internal Test certificate for dimensions, visual inspection, paint, HV, IR, electrical functions to be submitted before giving inspection calls to BHEL.		
	5	Inspection by BHEL / CUSTOMER at supplier's work.		
	6	For PC and Server Rack in order to ensure proper cooling arrangement, in door closed condition, in front side & rear side, louvers in top tier and bottom tier to be provided and on rear side exhaust fans to be provided in parallel to these louvers.		
	7	All items will be directly dispatched to project site from supplier works after obtaining necessary clearance from BHEL. Consignee details will be intimated at the time of placement of PO.		
	8	All items shall be packed in complete weather proof packing with sufficient cushioning to avoid transit damage. Suitable pallet shall be provided for handling and transportation		
	9	Name Plates with following details are to be provided for each shipping section. - Item: As per PO - Project Name / Unit no: As per PO - Customer Name: As per PO - BHEL Order No.: As per PO - Date of dispatch to site: As per PO		
	10	Assembly, erection and installation, including laying of power cables, keyboard, mouse and monitor extender cables, termination of the cables, at site to be carried out by supplier. Offer to include charges for same along with necessary touch up etc.		
	11	Modifications as per site requirements to be done on free of cost to match with floor opening for cables. Site work for aligning and matching the curvature of desk as shown in enclosed drawing is under supplier scope.		
	12	Warranty: Offer to include “Two years warranty at site” for all items against manufacturing defects from date of supply. Warranty to include all costs towards material, labor, to & fro, traveling, accommodation and stay etc. Exact location of the project site will be intimated at the time of PO.		

ANNEXURE - I

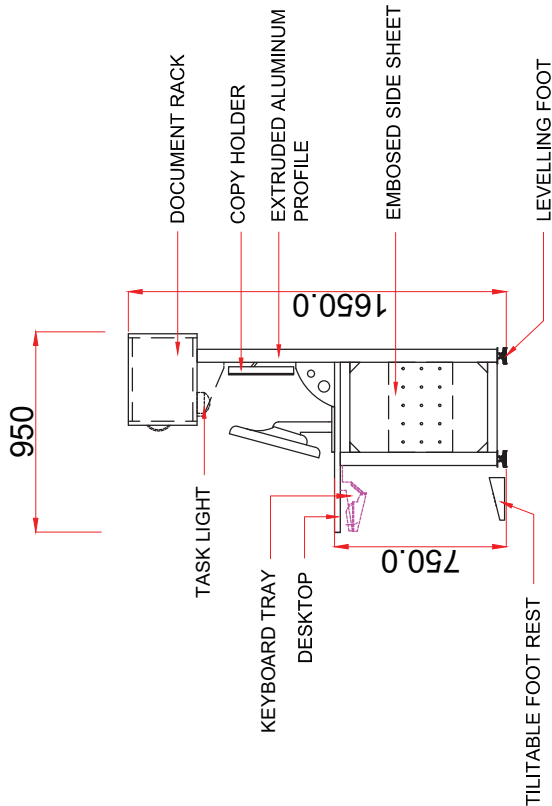
WORKSTATION FURNITURE (SECTION OF 2)



TOP VIEW



FRONT VIEW



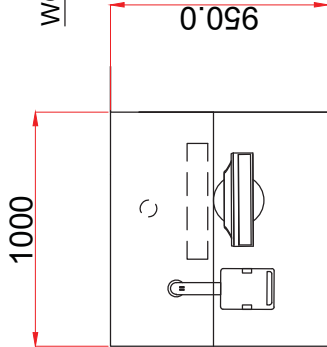
SIDE VIEW

NOTE :

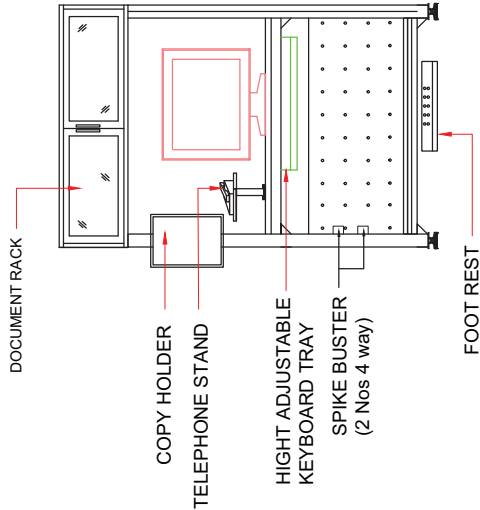
- 1) WORK SURFACE THK : 25 MM (PARTICLE BOARD)
- 2) COLOR OF LAMINATE - AS PER APPROVAL
- 3) PAINT SHADE
- 4) PAINT THICKNESS
- 5) TOTAL ALUMINIUM EXTRUSION - CROMATISED & THEN POWDER COATED IN ALUMINIUM GREY (RAL 9006)
- 6) CPU DIMENSIONS : 445(H) X 171(W) X 47(D) MM.
- 7) UPS DIMENSIONS : 220(H) X 150(W) X 47(D) MM.
- 8) UPS & BATTERY DIMENSIONS : 250 (W) X 65 (D) X 306(H) MM.
- 9) 4 WAY SPIKE BUSTER (9/15 A RATED)
- 10) COLOR OF PVC EXTRUSION - RAL 5012 OR SIMILAR
- 11) TO BE PROVIDED FOR EACH SECTION OF WORKSTATION
- 12) CPU's & MONITORS ARE SHOWN FOR ILLUSTRATION PURPOSE ONLY, IT IS NOT PART OF THIS OGA .

ANNEXURE - II

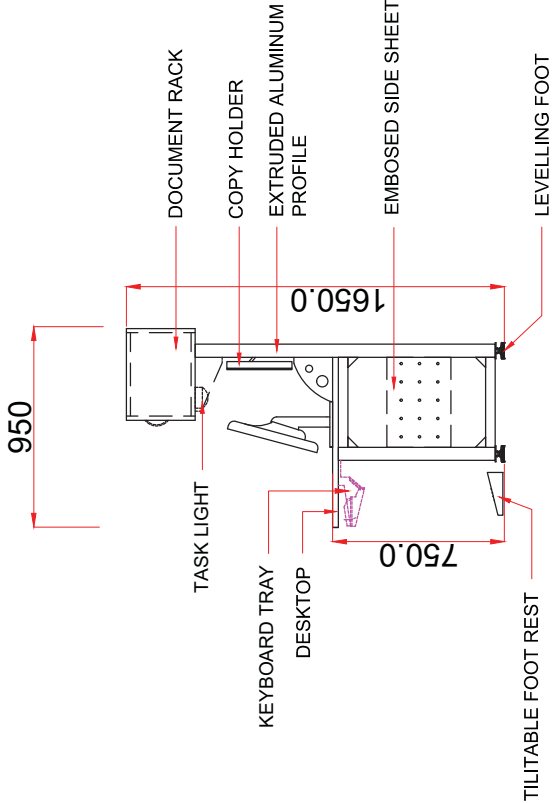
WORKSTATION FURNITURE (SECTION OF 1)



TOP VIEW



FRONT VIEW



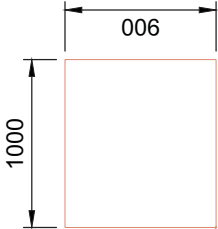
SIDE VIEW

NOTE :

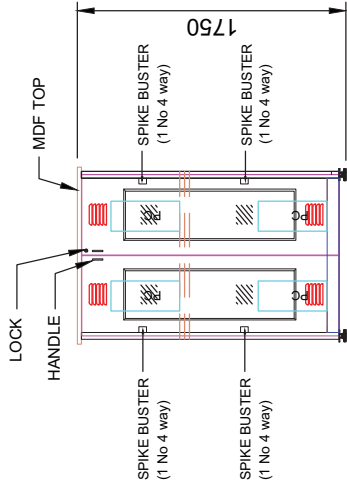
- 1) WORK SURFACE THK : 25 MM (PARTICLE BOARD)
- 2) COLOR OF LAMINATE - AS PER APPROVAL
- 3) PAINT SHADE
SIDE & BACK SHEET - AS PER APPROVAL
- 4) PAINT THICKNESS
MS COMPONENTS : MIN. 60 MICRON
- 5) TOTAL ALUMINIUM EXTRUSION - CROMATISED & THEN
POWDER COATED IN ALUMINUM GREY (RAL 9006)
- 6) CPU DIMENSIONS : 445(H) X 171(W) X 471(D) MM.
UPS DIMENSIONS : 220(H) X 150(W) X 410(D) MM.
22" MONITOR DIMENSIONS : 514 (W) X 65 (D) X 306(H) MM.
UPS & BATTERY DIMENSIONS : 250 (W) X 550(H) X 550(D) MM.
- 7) COLOR OF PVC EXTRUSION - RAL 5012 OR SIMILAR
- 8) 4 WAY SPIKE BUSTER (S/15 A RATED)
TO BE PROVIDED FOR EACH SECTION OF WORKSTATION
- 9) CPU & MONITORS ARE SHOWN FOR ILLUSTRATION
PURPOSE ONLY, IT IS NOT PART OF THIS OGA.

ANNEXURE - III

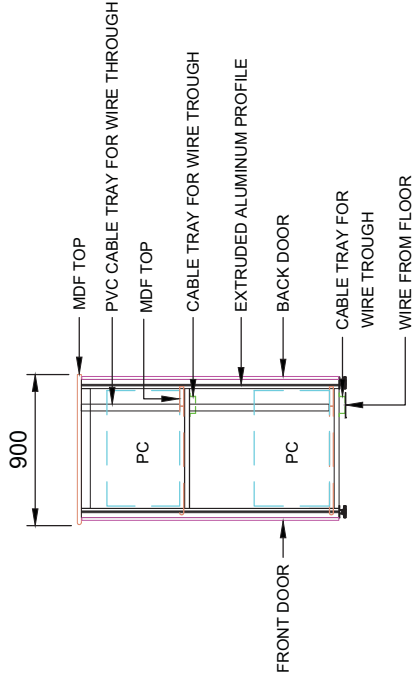
PC RACK (RACK BEHIND LVS)



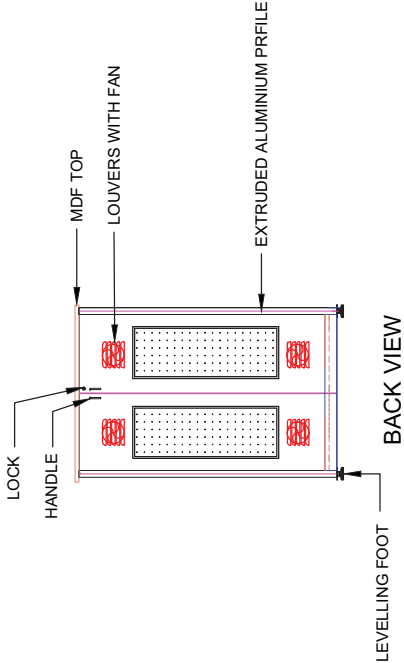
TOP VIEW



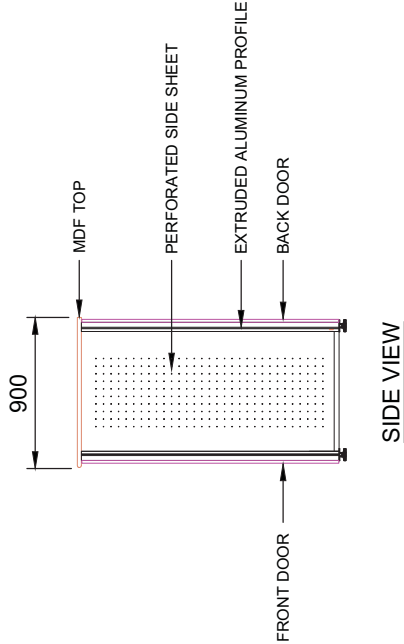
FRONT VIEW



SECTIONAL SIDE VIEW



BACK VIEW

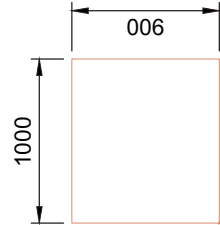


SIDE VIEW

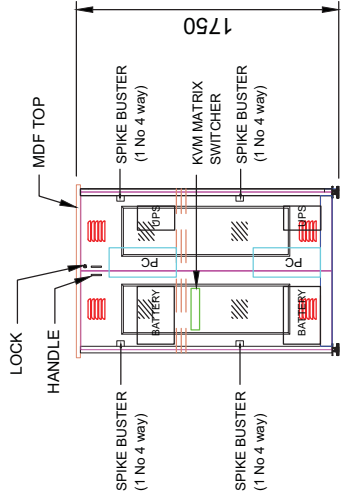
NOTE :-

1. SHELVES THK : 25 MM (MDF)
2. SIDE SHEET THICKNESS - 1.6mm
3. COLOR OF LAMINATE - AS PER APPROVAL
3. PAINT SHADE
4. SIDE COVER & BACK DOOR - (AS PER APPROVAL)
4. EXTREME SIDE COVERS WILL BE EMBOSSED
5. ALL ALUMINIUM EXTRUSION WILL BE POWDER COATED IN ALUMINIUM GREY
6. WORKSTATIONS OF OWS WILL BE KEPT IN CLOSED RACK WITH GLASS DOOR (FRONT) & PERFORATED SHEET DOOR (REAR).
7. THE CPU UNITS OF SERVERS / WORKSTATIONS WILL WEIGH APPROXIMATELY 20 KGS EACH, THE DESIGN PROPOSED SHOULD BE CAPABLE OF SUPPORTING THE ABOVE LOAD

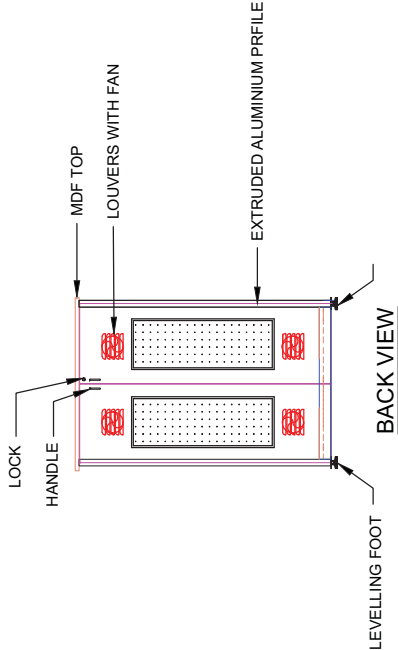
ANNEXURE - IV



TOP VIEW



FRONT VIEW

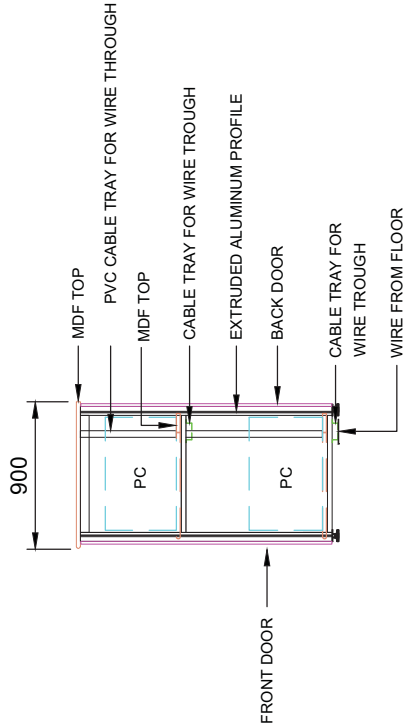


BACK VIEW

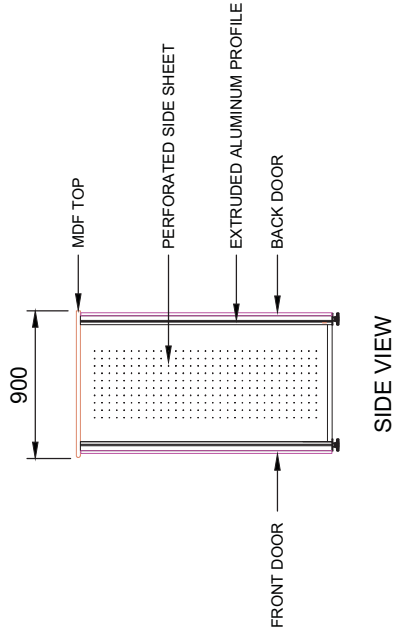
SERVER RACK

NOTE :-

1. SHELVES THK : 25 MM (MDF)
2. SIDE SHEET THICKNESS - 1.6mm
3. COLOR OF LAMINATE - AS PER APPROVAL
4. PAINT SHADE
5. SIDE COVER & BACK DOOR - (AS PER APPROVAL)
6. EXTREME SIDE COVERS WILL BE EMBOSSED
7. ALL ALUMINIUM EXTRUSION WILL BE POWDER COATED IN ALUMINIUM GREY.
8. WORKSTATIONS OF OWS WILL BE KEPT IN CLOSED RACK WITH GLASS DOOR (FRONT) & PERFORATED SHEET DOOR (REAR).
9. THE CPU UNITS OF SERVERS / WORKSTATIONS WILL WEIGH APPROXIMATELY 20 KGS EACH, MINIUPS AND BATTERY TOGETHER WILL WEIGH AROUND 60 KGS TOTALLY. THE DESIGN PROPOSED SHOULD BE CAPABLE OF SUPPORTING THE ABOVE LOAD

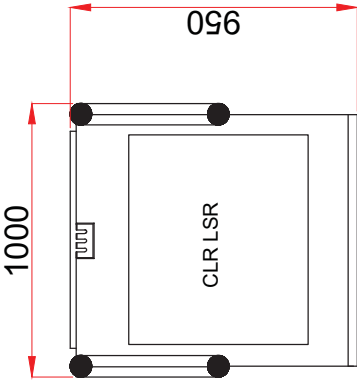


SECTIONAL SIDE VIEW



SIDE VIEW

ANNEXURE -V

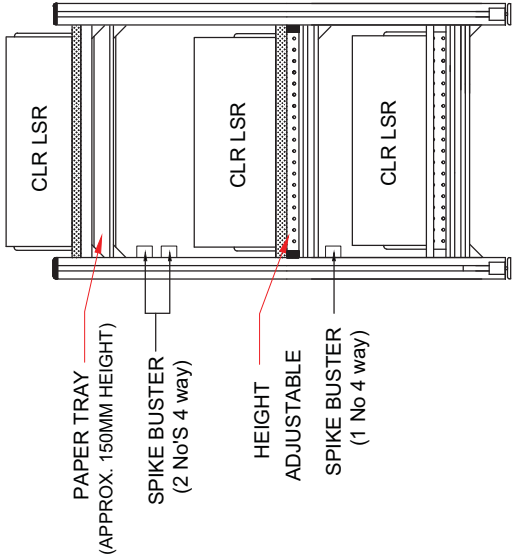


TOP VIEW

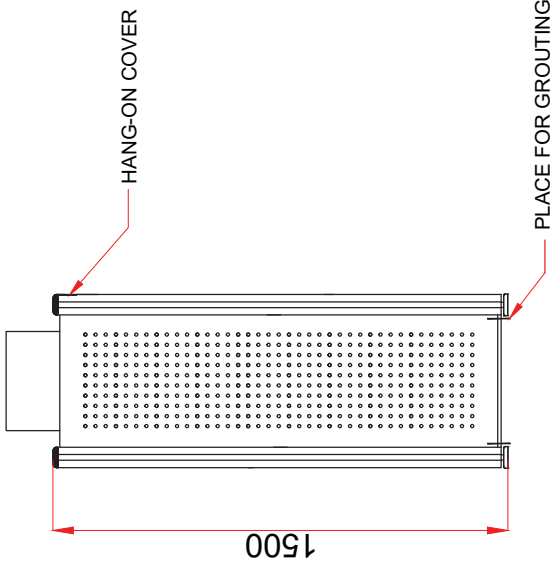
PRINTER RACK

NOTE :

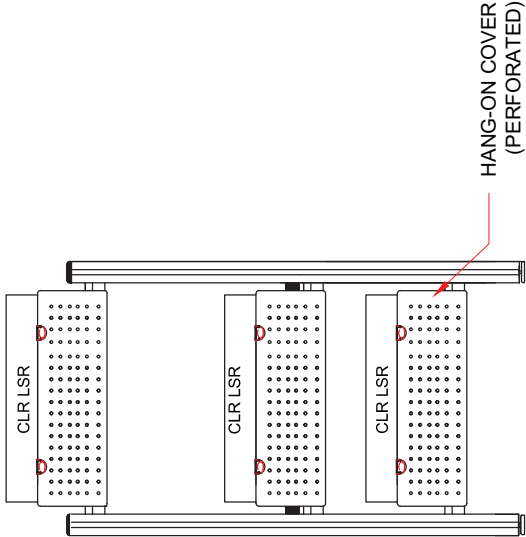
- 1) SHELVES THK : 25 MM
- 2) COLOR OF TOP AND SIDE & HANG ON COVERS AND BACK : AS PER APPROVAL
- 3) ALL ALUMINUM EXTRUSIONS WILL BE POWDER COATED IN ALUMINUM GREY
- 4) DIMENSION ARE INDICATIVE AND SUBJECT TO SLIGHT CHANGE, VENDOR TO PROVIDE EXACT DIMENSION IN THEIR DRAWING.



FRONT VIEW

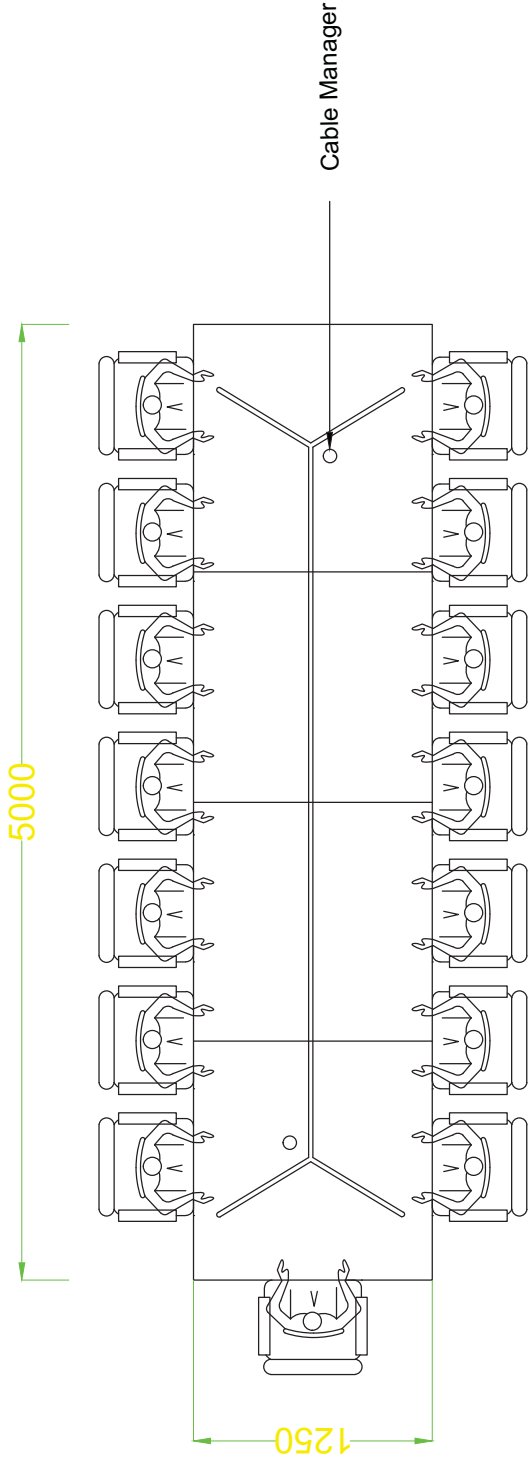


SIDE VIEW

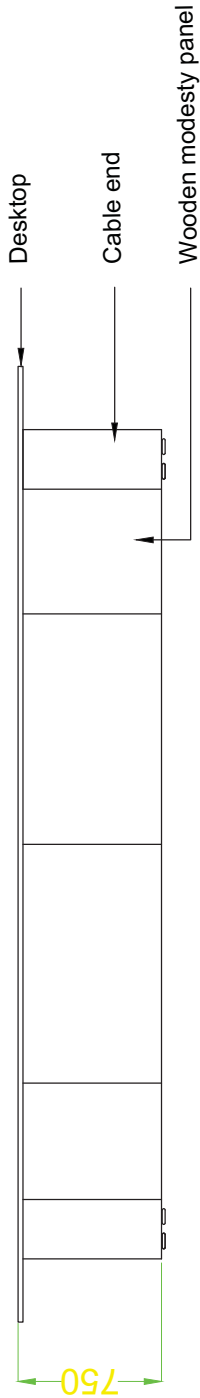


REAR VIEW

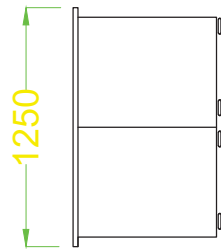
ANNEXURE -VI



TOP VIEW



FRONT VIEW



SIDE VIEW

NOTES:-

- 1) Table top is made of 25mm thk MDF.
 - 2) color of laminate - As per approval.
 - 3) Modesty Panel & Gable End.
- Make: Pyrotech workspace



A4-10

PURCHASE SPECIFICATION

HMI OPERATOR DESK /UCD (7 m) & DRAWOUT CONSOLE

PS/404/2648

REV No. : 00

PART A: Page 1 of 4

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EQUIPMENTS: OPERATOR DESK/UCD (7 m) WITH DRAWOUT CONSOLE

<u>TITLE</u> PURCHASE SPECIFICATION HMI OPERATOR DESK /UCD (7 m) & DRAWOUT CONSOLE	Dept Code 404	DRN.	NAME	SIGN	DATE
		PREPARED	MARSHAL SANDHU		24.1.2016
		APPROVED	REETESH KUMAR		24.1.2016

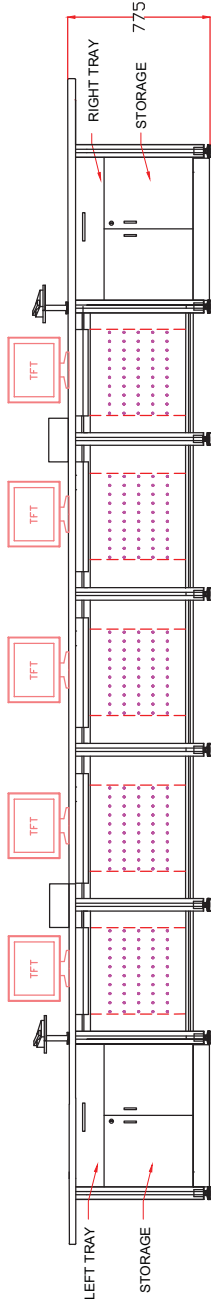
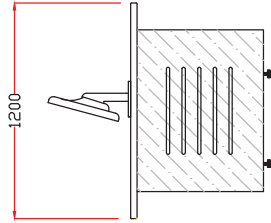
		बी एच ई एल A4-10	PART A: PURCHASE SPECIFICATION HMI OPERATOR DESK /UCD (7 m)		PS/404/2648	
					REV No. : 00	
					PART A: Page 2 of 4	
REVISION HISTORY SHEET						
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	00	24.1.2016	FIRST ISSUE	---	MS	RKA

		 A4-10	PART A: PURCHASE SPECIFICATION HMI OPERATOR DESK /UCD (7 m)	PS/404/2648
				REV No. : 00
				PART A: Page 4 of 4
PART A1 – GENERAL SPECIFICATIONS				
COPYRIGHT AND CONFIDENTIAL The information contained in this document is the property of BHARAT HEAVY ELECTRICALS LIMITED This must not be used directly or indirectly, in any manner detrimental to the interest of the company	Sl. No.	Specification	Supplier's Remark	
	1	Finished surface to be free from waves, belies or other imperfections. Surface to be Powder Coated or if Spray painted, 2 coats of inhibitive epoxy primer surface to be applied. Paint with Minimum of 2 coats of Primer and 2 sprays of final finish color to be applied OR powder coated with epoxy paint. Exact color and shade of components will be specified at the time of Order placement. Minimum thickness for Aluminum Sheets: is 30 microns. For MS Components: is 65 microns		
	2	Along with offer detailed drawings showing sectional view, top view, front view, and rear view of desks and tables, electrical wiring diagram with bill of materials for each item, and images and/or catalogue of computer chairs.		
	3	Documents to be submitted for manufacturing approval: - Detailed OGA with front view, top view, rear view, sectional view, and floor cut-out details for desks and tables. - Electrical Wiring Diagram with BOM of HMI operator desk, draw-out consoles, synchroscope, and Two section desk. - Quality Plan - Color Shade options.		
	4	Supplier internal Test certificate for dimensions, Visual inspection, paint, HV, IR, electrical functions to be submitted before giving inspection calls to BHEL.		
	5	Inspection by BHEL / CUSTOMER at supplier's work.		
	6	All items will be directly dispatched to project site from supplier works after obtaining necessary clearance from BHEL. Consignee details will be intimated at the time of placement of PO.		
	7	All items shall be packed in complete weather proof packing with sufficient cushioning to avoid transit damage. Suitable pallet shall be provided for handling and transportation		
	8	Name Plates with following details are to be provided for each shipping section. - Item: As per PO - Project Name / Unit no: As per PO - Customer Name: As per PO - BHEL Order No.: As per PO - Date of dispatch to site: As per PO		
	9	Assembly, erection and installation, including laying of power cables, keyboard, mouse and monitor extender cables, termination of the cables, at site to be carried out by supplier. Offer to include charges for same along with necessary touch up etc.		
	10	Modifications as per site requirements to be done on free of cost to match with floor opening for cables. Site work for aligning and matching the curvature of desk as shown in enclosed drawing is under supplier scope.		
	11	Warranty: Offer to include “Two years warranty at site” for all items against manufacturing defects from date of supply. Warranty to include all costs towards material, labor, to & fro, traveling, accommodation and stay etc. Exact location of the project site will be intimated at the time of PO.		
Note: Supplier is required to submit the filled, signed and stamped copy of this specification along with the offer, failing which offer is liable for rejection. Annexures: DRAWING I – HMI Operator desk/UCD (7 m) drawing				

UNIT CONTROL DESK OF 7 SECTIONS

NOTES :

- 1) THE TOP SURFACE OF CONTROL DESK SHALL BE 30MM THICK WITH THE TOP 12MM OF ACRYLIC SOLID SURFACE AND THE REMAINING 18MM OF LAMINATED MEDIUM DENSITY .
- 2) COLOR OF TABLE TOP : AS PER APPROVAL.
- 3) FOOT, CANTILEVER, BEAMS, CABLE MANAGERS TO BE MADE OF EXTRUDE/CAST ALUMINIUM/CRCA LAMINATED STEEL. SUPPORT LEGS & HORIZONTAL SUPPORTS (IF REQUIRED) BELOW WORK SURFACE TO BE OF MINIMUM 2.0MM THICK. SUITABLE DIE/CAST/EXTRUDED ALUMINIUM/CRCA LAMINATED STEEL.
- 4) ALL ALUMINIUM EXTRUSIONS WILL BE POWDER COATED IN ALUMINIUM GREY
- 5) PAINT SHADE : AS PER APPROVAL
- 6) DIMENSIONS ARE INDICATIVE AND SUBJECT TO CHANGE BASED ON MODEL/SUPPLIER AVAILABILITY.



SIDE VIEW

FRONT VIEW

		PURCHASE SPECIFICATION FOR DRAWOUT CONSOLES NABINAGAR 3X660MW				PS4042648	
						REV No : 00	
		A4-11	PARTB: PG 01 OF 04				
		PURCHASE SPECIFICATIONS FOR DRAW-OUT CONSOLES PROJECT : 3X660MW NABINAGAR STPP CUSTOMER: M/s NTPC					
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			PREP KS	CHKD MS	APPVD AG	ISSUED 415	DATE 06-03-2016

		PURCHASE SPECIFICATION FOR DRAWOUT CONSOLES NABINAGAR 3X660MW	PS4042648
			REV No : 00
			PARTB: PG 02 OF 04
		SPECIFICATION OF DRAWOUT CONSOLES WITH ENCLOSURES OF MAIN PLANT CONTROL DESK	
COPY RIGHT AND CONFIDENTIAL THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICAL LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY		1.0 CONSTRUCTION	
		1.1 The sections with drawout consoles shall be located on either end of the desk sections meant for operator consoles, and shall, in general, have similar constructional features, including top surface material and colour, as those of the sections meant for operator consoles. These two end section will be aligned and fixed with other desk sections, so that there is perfect match of the top surfaces.	
		1.2 The left control desk section, will house a mosaic draw-out type console with a mosaic grid for Process console [CWD01] having 16 rows of 24mm and 10 columns of 48mm as per NTPC document for Process layout. The profile should be similar to the one provided for monitors in the operator console.	
		1.3 The right control desk section, will house a mosaic draw-out type console with a mosaic grid for Electrical console [CWD02] having 20 rows of 24mm and 12 columns of 48mm as per:NTPC Doc. No.: 0370-4051-POI-W-018. It will also house a synchronization plaque with a mosaic grid console having rows of 24mm and columns of 48mm and mimic as per SLD, shown in the above document. The profile should be exactly similar to the one provided for monitors in the operator consoles, with adjustable mounting arrangement.	
		1.4 The metallic mosaic grid and mosaic items to be mounted on the above consoles shall be in the scope of the supplier. These mosaic grids and items [other than what is specified under 'Notes' in the subsequent annexures], shall be from either of the following sources: i) TEW, Germany ii) Pro-plan, Germany The overall dimensions along with framework for the required mosaic grids as specified in 1.2 and 1.3 above shall be clearly brought out in the offer.	
		1.5 Specification of all items is given in Annexure I,II & III. These are to be taken in conjunction with the NTPC layout drawing for Process side console and NTPC Doc. No.: 0370-4051-POI-W-018 for ECD & Synchroscope plaque.	
		1.6 The Layout drawings are subject to approval by customer - M/s NTPC. If the item/quantity/engraving shown is revised, or any additional items are added in the final approved drawing, the same to be taken care by the supplier.	
		1.7 The items shall be arranged as per NTPC approved final Layout drawings. In case of increase in item quantities, specified in subsequent Annexures w.r.t the final approved drawings, the extra items will have to be supplied loose.	

		PURCHASE SPECIFICATION FOR DRAWOUT CONSOLES NABINAGAR 3X660MW	PS4042648 REV No : 00 PARTB: PG 03 OF 04
	A4-11		
COPY RIGHT AND CONFIDENTIAL THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICAL LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY		1.8 Necessary support arrangements as required for the consoles shall be provided by the supplier. 1.9 Below the draw-out consoles, an enclosure shall be provided in each section for housing terminal blocks with 20% spares and such other components as may be required for complete wiring of the consoles. 1.10 The left and right control desk section enclosures will have one double leaf door in the front, below the draw-out portion, and one double leaf door at the rear. 1.11 The left and right control desk sections shall have removable gland plates made of 2.0mm thick CRCA sheet. The gland plates shall be provided along with neoprene gasket. It should be fixed to the top flange of the bottom frame. The size of gland plates for each shipping section shall be suitably selected for easy handling. 1.12 The items to be mounted on consoles will be terminated on suitable TBs. The no. of connections per section is identified in the subsequent pages. All the wiring has to be done using FRLS cables of 1.5, 0.75 or 0.5 sqmm as required. 1.13 It has to ensured that the cables used for connection to items on the draw-out consoles should have sufficient length to facilitate full drawing out of console; without disturbing any of the terminations or damaging any of the cables or associated equipment. 1.14 Supplier to provide assistance at site for - erection of the console desk sections. - any modification or alteration w.r.t addition/deletion/relocation of components and - any wiring to be done at site. Separate price to be quoted for site work of these sections. This price shall however be claimed by the vendor only on actual visit to and completion of work at site. 1.15 As part of technical offer Vendor shall submit necessary Overall General Arrangement drawing of these sections along with the OGA drawing for the other sections of the CRT Desk. Vendor shall also furnish the make & model no. of all the items in the BOM.	

		PURCHASE SPECIFICATION FOR DRAWOUT CONSOLES NABINAGAR 3X660MW	PS4042648 REV No : 00 PARTB: PG 04 OF 04
	A4-11	1.16 In the event of P.O., the vendor is required to submit BOM with Console Layout drawings, Internal General Arrangement drawings for the internal arrangement of components & Electrical schematic drawing with wiring of all console items up to the terminal blocks. BOM to include the following- All mosiac mounted items with make/part no. , inside mounted item details, datasheets of mosaic mounted items & vendor specific Console layout drawings. All documents are required to be submitted to customer M/s NTPC for approval. 1.17 List of Mandatory Spares [common for all 3 units & 1no. CHP drawout console items] to be supplied for these consoles is given in subsequent pages - Annexure III. However, this list shall be based on final approved layout & subjected to approval by customer - M/s NTPC. If the quantity specified is revised, or any additional items are added in the final approved list, the same to be taken care by the supplier. Hence, a seperate lumpsum price, along with unit prices, is to be quoted for Mandatory Spares. 1.18 4Nos. of Emergency PBs [For Turbine Trip, Fire Protection-1, MFT-1 , MFT-2]with: - 4 changeover contacts, - protective cover, - with min rating of 2A each and - wired upto TBs are to be supplied and mounted on the UCD. [All other details like make, etc. will be the same as other mosaic items].	
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PURCHASE SPECIFICATION FOR

DRAWOUT CONSOLES

NABINAGAR 3X660MW

PS4042648

REV No : 00

PARTB: ANX-I / Pg 01 of 04

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**ANNEXURE - I
LIST OF ITEMS FOR CONTROL DESK SECTION
CWD01 [PROCESS DRAWOUT CONSOLE]**

Sl. No.	DESCRIPTION	Qty/unit
1	Emergency OFF PB with red colour protective cover. Size: 48X48mm. Contacts: 2. Changeover suitable for 24V DC. Connection with Plug-in connector. Module colour RAL7035.	11
2	Emergency OFF PB with red colour protective cover. Size: 48X48mm. Contacts: 4Changeover suitable for 24V DC. Connection with Plug-in connector. Module colour RAL7035.	1
3	Recessed PB module. PB colour: Grey. Size: 48X24mm. Contacts: 2 NO. Suitable for 24V DC. Connection with Plug-in connector. Module colour RAL7035.	6
4	PB module with 2 PB and 4 LEDs. Size 48X24 mm. Button colour: Red LED colour : Red,Green,Red,Green PB's with 2 NO contacts ; LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	4
5	PB module with 2 PB and 3 LEDs. Size 48X24 mm. Button colour: Red, Green LED colour : Green, Yellow, Red PB's with 2 NO contacts LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	36
6	PB module with 1 PB and 4 LEDs. Size 48X24 mm. Button colour: Red LED colour : All Green PB's with 2 NO contacts LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	1
7	PB module with 2 PB and 4 LEDs. Size 48X24 mm. OR PB module with 1PB and 4 LEDs Button colour: Red LED colour : All Green PB's with 2 NO contacts OR with 4NO contacts incase of 1PB 4Led type LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	1
8	PB module with 2 PB . Size 48X24 mm. Button colour: Red ,Green PB's with 2 NO contacts Connection with Plug-in connector, Module colour RAL7035	1

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PURCHASE SPECIFICATION FOR
DRAWOUT CONSOLES
NABINAGAR 3X660MW

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Sl. No.	DESCRIPTION	QTY/ UNIT																								
9	2 LED signal module. [Location -L10] LED colour: Red, Green Size: 48X24mm. LEDs suitable for 24V DC. Connection with rear Plug-in connector. Module colour RAL7035.	2																								
10	2 LED signal module. LED colour: All Red Size: 48X24mm. LEDs suitable for 24V DC. Connection with rear Plug-in connector. Module colour RAL7035.	2																								
11	3 LED signal module. LED colour: All Red Size: 48X24mm. LEDs suitable for 24V DC. Connection with required rear Plug-in connectors. Module colour RAL7035.	3																								
12	6 LED signal module. LED colour: column 1 -Red , column 2- Green Size: 48X24mm. LEDs suitable for 24V DC. Connection with rear Plug-in connector. Module colour RAL7035.	9																								
13	Plug-in connectors suitable for above modules. [If connectors are different for different type of items, actual quantity of each type of connector shall be accordingly split and quoted].	As required																								
14	Blank modules. Size: 48X24mm. Module colour RAL7035.	As required																								
15	Blank modules with engravings as per drawings. Size: 48X24mm. Module colour RAL7035.	As per Layout																								
16	Digital Display module. 3 1/2 digit or 4 digit Display colour: Green. Seven segment display. Power Supply: 24V DC. Screw type connector. Input- 4-20mA. Size: 48X24mm. Preferably Programmable type Ranges as given below: <table><tr><th>Digital Indicator service</th><th>Location</th><th>Range</th></tr><tr><td>SEPARATOR LEVEL</td><td>F1</td><td>0-15 M</td></tr><tr><td>TURBINE SPEED</td><td>E10</td><td>0-3900 rpm</td></tr><tr><td>MAIN TURBINE LUB OIL PRESS</td><td>B10</td><td>0-4 bar</td></tr><tr><td>MAIN TURBINE JACK OIL PRESS</td><td>C10</td><td>0..400 kg/cm2</td></tr><tr><td>SEAL OIL/H2 DP</td><td>D10</td><td>0-1 bar</td></tr><tr><td>CONDENSER VACUUM</td><td>L6</td><td>0-1.22ata</td></tr><tr><td>MW</td><td>I10</td><td>-33- 841.2 MW</td></tr></table>	Digital Indicator service	Location	Range	SEPARATOR LEVEL	F1	0-15 M	TURBINE SPEED	E10	0-3900 rpm	MAIN TURBINE LUB OIL PRESS	B10	0-4 bar	MAIN TURBINE JACK OIL PRESS	C10	0..400 kg/cm2	SEAL OIL/H2 DP	D10	0-1 bar	CONDENSER VACUUM	L6	0-1.22ata	MW	I10	-33- 841.2 MW	7
Digital Indicator service	Location	Range																								
SEPARATOR LEVEL	F1	0-15 M																								
TURBINE SPEED	E10	0-3900 rpm																								
MAIN TURBINE LUB OIL PRESS	B10	0-4 bar																								
MAIN TURBINE JACK OIL PRESS	C10	0..400 kg/cm2																								
SEAL OIL/H2 DP	D10	0-1 bar																								
CONDENSER VACUUM	L6	0-1.22ata																								
MW	I10	-33- 841.2 MW																								



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PURCHASE SPECIFICATION FOR
DRAWOUT CONSOLES
NABINAGAR 3X660MW

PS4042648

REV No : 00

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Sl. No.	DESCRIPTION	Qty/unit
17	Mosaic Grid along with frame to house the above items 16 rows of 24mm and 10 columns of 48mm Module colour RAL 7035	1
18	Crimping tool for mosaic items for making connections. [To be supplied loose].	1
19	Removal tool for mosaic items from mosaic items. [To be supplied loose].	1

Sl. No.	DESCRIPTION [INSIDE MOUNTED ITEMS]	Qty/unit
1	Crimp contacts suitable for inserting into connectors for wiring	As reqd
2	Cage clamp 8level TBs with 2 input and 2 outputs with shorting links and accessories	As reqd +20%
3	Clip-on TB 10 sqmm with accessories.	As reqd +20%
4	Door switch.	2
5	CFL Lamp.	1
6	Fuse 4A with fuse base.	1
7	HRC Link.	1
8	Power socket 5/15A.	1
9	MCB-6A	1
10	Diode -6A with heatsink	2
11	Fuse TB with fuse cartridges	As per wiring

		PURCHASE SPECIFICATION FOR DRAWOUT CONSOLES NABINAGAR 3X660MW	PS4042648 REV No : 00 PARTB: ANX-I / Pg 04 of 04
	A4-11	NOTES: - Orientation of LEDs are as per console layout drawing - Inscriptions on the mosaic tiles shall be provided as per final approved Layout drawing. - Internally mounted items & their quantities are subjected to change, based on the final approved schematic diagram. - Total no. of connections will be approximately: CWD01: 700 connections. - Digital Indicators shall be from one of the following sources: Weigel, Germany Gossen, Germany Metrowatt, Germany Camilie Bauer, Germany ABB, Germany Yokogowa, Japan Foxbro, UK Siemens Chino - Moving Coil Analog Indicators shall be from one of the following sources: Weigel, Germany Gossen, Germany Seimens, Germany Metrowatt, Germany Camilie Bauer, Germany Ganz, Germany	
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PURCHASE SPECIFICATION FOR
DRAWOUT CONSOLES
NABINAGAR 3X660MW

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ANNEXURE - II
LIST OF ITEMS FOR CONTROL DESK SECTION
CWD02 [ELECTRICAL DRAWOUT CONSOLE]

Sl. No.	DESCRIPTION	Qty/unit
1	PB module with 3 PB and 4 LEDs. Size 48X24 mm. Button colour: Red, Grey, Green LED colour : Green, Yellow, Blue, Red PB's with 2 NO contacts LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	7
2	PB module with 3 PB and 3 LEDs. Size 48X24 mm. Button colour: All Grey LED colour : All Red PB's with 2 NO contacts LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	2
3	PB module with 2 PB and 4 LEDs. Size 48X24 mm. Button colour: Red, Green LED colour : Green, Yellow, Blue, Red PB's with 2 NO contacts LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	21
4	PB module with 2 PB and 3 LEDs. Size 48X24 mm. Button colour: Red, Green LED colour : Green, Yellow, Red PB's with 2 NO contacts LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	12
5	PB module with 2 PB and 2 LEDs. Size 48X24 mm. Button colour: All Grey LED colour : All Red PB's with 2 NO contacts LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	4
6	PB module with 2 PB and 2 LEDs. Size 48X24 mm. Button colour: Red, Green LED colour : Green, Red PB's with 2 NO contacts LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	1

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PURCHASE SPECIFICATION FOR

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Sl. No.	DESCRIPTION	Qty/unit
7	1 LED Symbol module Size 48X24 mm LED located in the centre of module LED colour: Red LED's suitable for 24V DC Connection with Plug-in connector Module colour RAL 7035	7
8	Selector Switch 2 position Size: 48X24mm. Module colour RAL7035. Configuration: 2 pole 2 position stayput. Contacts rating: 24V DC, 10A [with terminals in both positions]	4
9	Key operated Switch. 3position Size: 48X24mm. Module colour RAL7035. Configuration: 2 pole 3 position stayput with center OFF Key removable in OFF position Contacts rating: 24V DC, 10A	1
10	Recessed PB module. PB colour: Grey. Size: 48X24mm. Contacts: 2 NO. Suitable for 24V DC. Connection with Plug-in connector. Module colour RAL7035.	3
11	Plug-in connectors suitable for above modules. [If connectors are different for different type of items, actual quantity of each type of connector shall be accordingly split and quoted].	As required
12	Blank modules. Size: 48X24mm. Module colour RAL7035.	As reqd.
13	Blank modules with engravings as per drawings. Size: 48X24mm. Module colour RAL7035.	As reqd.
14	Mosaic Grid along with frame to house the above items having 20 rows of 24mm and 12 columns of 48mm Module colour RAL 7035	1
15	Crimping tool for mosaic items for making connections. [To be supplied loose].	1
16	Removal tool for mosaic items from mosaic items. [To be supplied loose].	1



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PURCHASE SPECIFICATION FOR

DRAWOUT CONSOLES

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REV No : 00

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LIST OF ITEMS FOR CONTROL DESK SECTION
CWD02 [SYNCHROSCOPE PLAQUE]

Sl. No.	DESCRIPTION	Qty/unit
1	1 LED Symbol module Size 48X24 mm LED located in the centre of module LED colour: Red LED's suitable for 24V DC Connection with Plug-in connector Module colour RAL 7035	1
2	1 LED Symbol module Size 48X24 mm LED located in the centre of module LED colour: Green LED's suitable for 24V DC Connection with Plug-in connector Module colour RAL 7035	1
3	Moving coil Voltmeter. Scale: 0-150V. Input: 110V AC. Size: 48X48mm. Angle of deflection: 90Deg. Accuracy class: 1.5 or better. Bezel colour: Black. Dial Colour: White. Suitable for mounting on mosaic grid.	2
4	Moving coil Voltmeter. Scale: 45-55Hz. Input: 110V AC. Size: 48X48mm. Angle of deflection: 90Deg. Accuracy class: 1.5 or better. Bezel colour: Black. Dial Colour: White. Suitable for mounting on mosaic grid.	2
5	Synchroscope Rotating Iron. Size: 96X96mm. Dial: Radial arc approx 360Deg. Input: 110V AC. Bezel colour: Black. Dial Colour: White. Suitable for mounting on mosaic grid.	1
6	Mimic and Engraving on Blank Tiles as per drawing.	As reqd.
7	Blank modules as per drawing. Size: 48X24mm / 48x48mm. Module colour RAL7035.	As reqd.
8	Mosaic Grid along with frame to house the above items 20 rows of 24mm and 12 columns of 48mm Module colour RAL 7035	1

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PURCHASE SPECIFICATION FOR

DRAWOUT CONSOLES

NABINAGAR 3X660MW

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Sl. No.	DESCRIPTION [INSIDE MOUNTED ITEMS]	QTY / UNIT
1	Crimp contacts suitable for inserting into connectors for wiring	As reqd
2	Cage clamp 8level TBs with 2 input and 2 outputs with shorting links and accessories	As reqd +20% spare
3	Clip-on TB 10 sqmm with accessories.	As reqd +20% spare
6	Door switch.	2
7	CFL Lamp.	1
8	Fuse 4A with fuse base.	1
9	HRC Link.	1
10	Power socket 5/15A.	1

NOTES:

1. Inscriptions on the mosaic tiles/Mimics [for U#1,U#2 & U#3], shall be provided as per final approved Layout drawings. [Text '1PB' to be changed to '2PB' & '3PB' for U#2 & U#3 layout. Similar changes to be incorporated in the SLD for U#2 & U#3 to be shown in the synchroscope plaque]
2. Internally mounted items and quantities are subject to change as per requirement in final approved Scheme.
3. Total no. of connections will be approximately:
CWD02: 600 connections.
4. Moving Coil Indicators shall be from one of the following sources:
Weigel, Germany
Gossen, Germany
Seimens, Germany
Ganz, Germany
5. Synchroscope shall be from one of the following sources:
AE, Mumbai
Alstom, Chennai
Reyrolle, UK
ABB, Germany



PURCHASE SPECIFICATION FOR

DRAWOUT CONSOLES

NABINAGAR 3X660MW

PS4042648

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ANNEXURE - III
LIST OF MANDATORY SPARES [Common for U#1,2 &3]

Sl. No.	DESCRIPTION	QTY
1	Console mounted mosaic devices. [PB&LED modules-to be classified based on LED/PB colour, LED modules-to be classified based on LED colour, Emergency PB, Recessed PBs, Digital Indicator, Analog Indicators, Switches [all varieties to be individually listed], Voltmeters, Frequency Meters, Synchroscope, etc.]	10% of each type to max. 5 nos. of each type.
2	Replacement Lamps / LEDs for each type of lamp / LED	100%
3	Blank Tiles	10% of total no. of tiles.
4	MCBs	10% of each type & rating
5	Fuses	100% of each type & rating

NOTE:

1. The required mandatory spares as per contract are as above. [% to calculated based on total quantity of 3 units & CHP console]
2. Detailed list in subsequent sheets is subject to approval by customer & will be based on final approved layouts

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PURCHASE SPECIFICATION FOR

DRAWOUT CONSOLES

NABINAGAR 3X660MW

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[LIST OF MANDATORY SPARES -DETAILED LIST]

Sl. No.	DESCRIPTION	QTY
1	Emergency OFF PB with red colour protective cover. Size: 48X48mm. Contacts: 2. Changeover suitable for 24V DC. Connection with Plug-in connector. Module colour RAL7035.	4
2	Recessed PB module. PB colour: Grey. Size: 48X24mm. Contacts: 2 NO. Suitable for 24V DC. Connection with Plug-in connector. Module colour RAL7035.	3
3	PB module with 3 PB and 4 LEDs. Size 48X24 mm. Button colour: Red, Grey, Green LED colour : Green, Yellow, Blue, Red PB's with 2 NO contacts LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	3
4	PB module with 3 PB and 3 LEDs. Size 48X24 mm. Button colour: All Grey LED colour : All Red PB's with 2 NO contacts LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	1
5	PB module with 2 PB and 4 LEDs. Size 48X24 mm. Button colour: Red, Green LED colour : Green, Yellow, Blue, Red PB's with 2 NO contacts LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	5
6	PB module with 2 PB and 4 LEDs. Size 48X24 mm. Button colour: All Red LED colour : Red, Green, Red, Green PB's with 2 NO contacts LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	2
7	PB module with 2 PB and 3 LEDs. Size 48X24 mm. Button colour: Red, Green LED colour : Green, Yellow, Red PB's with 2 NO contacts ; LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	5
8	PB module with 2 PB and 2 LEDs. Size 48X24 mm. Button colour: All Grey LED colour : All Red PB's with 2 NO contacts; LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	2

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		PURCHASE SPECIFICATION FOR DRAWOUT CONSOLES NABINAGAR 3X660MW		PS4042648
				REV No : 00
				ANNEX-III / Page 03 of 05
A4-11		[LIST OF MANDATORY SPARES -DETAILED LIST]		
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		9	PB module with 2 PB and 2 LEDs. Size 48X24 mm. Button colour: Red, Green LED colour : Green,Red PB's with 2 NO contacts , LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	1
		10	PB module with 2 PB and 4 LEDs. Size 48X24 mm. OR PB module with 1PB and 4 LEDs Button colour: Red LED colour : All Green PB's with 2 NO contacts OR with 4NO contacts incase of 1PB 4Led type LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	1
		11	PB module with 1 PB and 4 LEDs. Size 48X24 mm. Button colour: All Red & LED colour: All Green PB's with 2 NO contacts ; LED's suitable for 24 V DC Connection with Plug-in connector, Module colour RAL7035	1
		12	PB module with 2 PB. Size 48X24 mm. Button colour: Red , Green PB's with 2 NO contacts Connection with Plug-in connector, Module colour RAL7035	1
		13	PB module with 1 PB Size 48X24 mm. [In CHP console] Button colour: Red PB's with 2 NO contacts Connection with Plug-in connector, Module colour RAL7035	5
		14	6 LED signal module. LED colour: column 1 -Red , column 2- Green Size: 48X24mm. LEDs suitable for 24V DC. Connection with rear Plug-in connector. Module colour RAL7035.	3
		15	3 LED signal module. LED colour: All Red Size: 48X24mm. LEDs suitable for 24V DC. Connection with rear Plug-in connector. Module colour RAL7035.	1
		16	2 LED signal module. LED colour: Red, Green Size: 48X24mm. LEDs suitable for 24V DC. Connection with rear Plug-in connector. Module colour RAL7035.	1
		17	2 LED signal module. LED colour: All Red Size: 48X24mm. LEDs suitable for 24V DC. Connection with rear Plug-in connector. Module colour RAL7035.	1



PURCHASE SPECIFICATION FOR

DRAWOUT CONSOLES

NABINAGAR 3X660MW

PS4042648

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[LIST OF MANDATORY SPARES -DETAILED LIST]

Sl. No.	DESCRIPTION	QTY
18	1 LED Symbol module Size 48X24 mm LED colour: Red, Located in the centre of module LED's suitable for 24V DC Connection with Plug-in connector Module colour RAL 7035	3
19	1 LED Symbol module Size 48X24 mm LED colour: Green, Located in the centre of module LED's suitable for 24V DC Connection with Plug-in connector Module colour RAL 7035	1
20	Moving coil Voltmeter. Scale: 0-150V. Input: 110V AC. Size: 48X48mm. Angle of deflection: 90Deg. Accuracy class: 1.5 or better. Bezel colour: Black. Dial Colour: White. Suitable for mounting on mosaic grid.	1
21	Moving coil Frequency meter. Scale: 45-55Hz. Input: 110V AC. Size: 48X48mm. Angle of deflection: 90Deg. Accuracy class: 1.5 or better. Bezel colour: Black. Dial Colour: White. Suitable for mounting on mosaic grid.	1
22	Synchroscope Rotating Iron. Size: 96X96mm. Dial: Radial arc approx 360Deg. Input: 110V AC. Bezel colour: Black. Dial Colour: White. Suitable for mounting on mosaic grid.	1
23	Selector Switch 2 position Size: 48X24mm. Module colour RAL7035. Configuration: 2 pole 2 position stayput. Contacts rating: 24V DC, 10A	2
24	Key operated Switch. 3 position Size: 48X24mm. Module colour RAL7035. Configuration: 2 pole 3 position stayput with center OFF Key removable in OFF position Contacts rating: 24V DC, 10A	1

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PURCHASE SPECIFICATION FOR
DRAWOUT CONSOLES
NABINAGAR 3X660MW

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[LIST OF MANDATORY SPARES -DETAILED LIST]

Sl. No.	DESCRIPTION	QTY
25	Digital Display module. 3 1/2 digit or 4 digit [as reqd.] Display colour: Green. Seven segment display. Power Supply: 24V DC. Screw type connector. Input- 4-20mA. Size: 48X24mm. Programmable type with Push button	3
26	Emergency OFF PB with red colour protective cover. Size: 48X48mm. Contacts: 4NO+4NC suitable for 24V DC. Minimum contact rating-2A Connection with Plug-in connector. Module colour RAL7035.	2
27	LED Red	435
28	LED Green	363
29	LED Yellow	246
30	LED Blue	69
31	Blank modules.Module colour RAL7035. [10% of total qty]	As
32	MCB[10% of each type & rating]	As
33	Fuses [100% of each type & rating]	As

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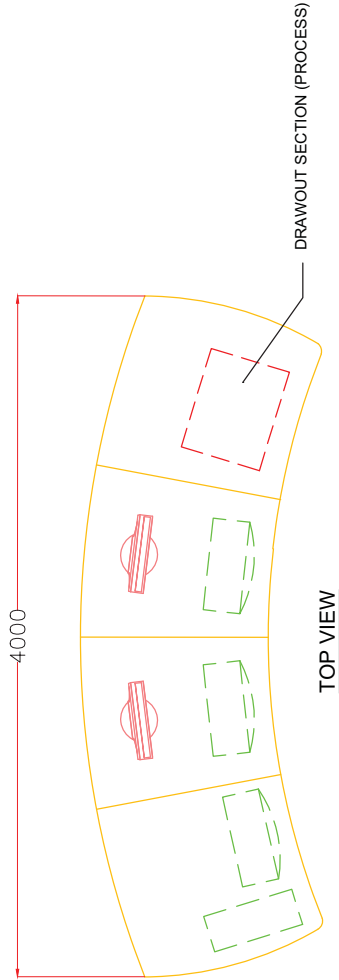
<u>TITLE</u> PURCHASE SPECIFICATION CHP DESK FOUR SECTION (OPEN TYPE) 4 M LENGTH	Dept Code 404	DRN.	NAME	SIGN	DATE
		PREPARED	MARSHAL SANDHU		24.1.2016
		APPROVED	REETESH KUMAR		24.1.2016

		भी एच डी एल A4-10	PURCHASE SPECIFICATION CHP DESK FOUR SECTION (OPEN TYPE) 4 M LENGTH		PS/404/2649																														
					REV No. : 00																														
					PARTA: Page 2 of 4																														
REVISION HISTORY SHEET <table><tr><th>REV No.</th><th>DATE</th><th>NATURE OF CHANGE</th><th>REASON</th><th>PREPARED BY</th><th>REVIEWED BY</th></tr><tr><td>00</td><td>24.1.2016</td><td>FIRST ISSUE</td><td>---</td><td>MS</td><td>RKA</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						REV No.	DATE	NATURE OF CHANGE	REASON	PREPARED BY	REVIEWED BY	00	24.1.2016	FIRST ISSUE	---	MS	RKA																		
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		 A4-10	PURCHASE SPECIFICATION CHP DESK FOUR SECTION (OPEN TYPE) 4 M LENGTH		PS/404/2649
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					PARTA: Page 3 of 4
			<u>SECTION1 – FOUR SECTION (OPEN TYPE) CHP DESK 4 M LENGTH</u>		
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	1	Desk is required as per drawing enclosed (DRAWING-I). It shall be furnished fully wired with necessary provision for convenience outlets, internal lighting, grounding, ventilation, space heating, anti-vibration pads, internal piping & accessories as required for completeness of the system.			
	2	The Desk shall be free Modular, non-welded construction, and free standing table top type with front & back cover, constructed of 1.6 mm thick CRCA steel plates. The desk should consist of vertical, horizontal and base support with their coverings for work surface, sliding keyboard trays, mouse pads, monitor shelf and concealed cable and wire way management, perforated trays with covers in both horizontal and vertical.			
	3	Foot, cantilever beams, Cable managers to be made of Extruded/Cast Aluminium/CRCA laminated steel, Support legs and Horizontal supports (if required) below Work surface to be of minimum 2.0 mm thick suitable extruded Aluminum /CRCA laminated steel profile. The structure frame shall consist of extruded aluminum top and bottom horizontal beams and vertical support tensioned together to form an integrated, finished curvilinear shaped frame. Vertical & Horizontal support, minimum 2.5mm and 2mm thick respectively, have to be provided for the structure frame. Extreme side legs shall be illuminated type and should complete the overall form and aesthetics of the desk.			
	4	The top surface of desk shall be 30mm thick with the top 12mm of acrylic solid surface and remaining 18mm of laminated medium density fiber board.			
	5	Desk width, depth shall be as per the drawing enclosed (DRAWING-I).			
	6	Profiled extended support and cantilevered beam of Aluminum / steel with suspension hook (if required) to support legs to be provided which should have powder coated finish in approved color / shade.			
	7	The Desk can be designed, manufactured and supplied in separate shipping sections.			
	8	As required number of 4 way - 5/15 Amps power socket strip mounted on each section to power monitor and CPU.			
	9	The Desk should have a draw out console on one side of desk section for process side. Detailed specification is available in PART-B			
NOTE: 1. Dimensions are indicative, detailed component size and specification may be vendor specific within broad specs given above.					

	 A4-10	PURCHASE SPECIFICATION CHP DESK FOUR SECTION (OPEN TYPE) 4 M LENGTH		PS/404/2649
				REV No. : 00
				PART A: Page 4 of 4
SECTION 2 – GENERAL SPECIFICATIONS				
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	1	Finished surface to be free from waves, belies or other imperfections. Surface to be Powder Coated or if Spray painted, 2 coats of inhibitive epoxy primer surface to be applied. Paint with Minimum of 2 coats of Primer and 2 sprays of final finish color to be applied OR powder coated with epoxy paint. Exact color and shade of components will be specified at the time of Order placement. Minimum thickness for Aluminum Sheets: is 30 microns. For MS Components: is 65 microns		
	2	Along with offer detailed drawings showing sectional view, top view, front view, and rear view of desks and tables, electrical wiring diagram with bill of materials for each item, and images and/or catalogue of computer chairs.		
	3	Documents to be submitted for manufacturing approval: ▪ Detailed OGA with front view, top view, rear view, sectional view, and floor cut-out details for desks and tables. ▪ Electrical Wiring Diagram with BOM of HMI operator desk, draw-out consoles, synchroscope, and Two section desk. ▪ Quality Plan ▪ Color Shade options.		
	4	Supplier internal Test certificate for dimensions, Visual inspection, paint, HV, IR, electrical functions to be submitted before giving inspection calls to BHEL.		
	5	Inspection by BHEL / CUSTOMER at supplier's work.		
	6	All items will be directly dispatched to project site from supplier works after obtaining necessary clearance from BHEL. Consignee details will be intimated at the time of placement of PO.		
	7	All items shall be packed in complete weather proof packing with sufficient cushioning to avoid transit damage. Suitable pallet shall be provided for handling and transportation		
	8	Name Plates with following details are to be provided for each shipping section. ▪ Item: As per PO ▪ Project Name / Unit no: As per PO ▪ Customer Name: As per PO ▪ BHEL Order No.: As per PO ▪ Date of dispatch to site: As per PO		
	9	Assembly, erection and installation, including laying of power cables, keyboard, mouse and monitor extender cables, termination of the cables, at site to be carried out by supplier. Offer to include charges for same along with necessary touch up etc.		
	10	Modifications as per site requirements to be done on free of cost to match with floor opening for cables. Site work for aligning and matching the curvature of desk as shown in enclosed drawing is under supplier scope.		
11	Warranty: Offer to include "Two years warranty at site" for all items against manufacturing defects from date of supply. Warranty to include all costs towards material, labor, to fro, traveling, accommodation and stay etc. Exact location of the project site will be intimated at the time of PO.			
Note: Supplier is required to submit the filled, signed and stamped copy of this specification along with the offer, failing which offer is liable for rejection. Annexures: DRAWING I – CHP FOUR SECTION (OPEN TYPE) DESK (4 m) drawing				

CHP DESK OF 4 mtrs



NOTES :

- 1) THE TOP SURFACE OF CONTROL DESK SHALL BE 30MM THICK WITH THE TOP 12MM OF ACRYLIC SOLID SURFACE AND THE REMAINING 18MM OF LAMINATED MEDIUM DENSITY .
- 2) COLOR OF TABLE TOP : AS PER APPROVAL.
- 3) FOOT, CANTILEVER, BEAMS, CABLE MANAGERS TO BE MADE OF EXTRUDE/CAST ALUMINIUM/CRCA LAMINATED STEEL . SUPPORT LEGS & HORIZONTAL SUPPORTS (IF REQUIRED) BELOW WORK SURFACE TO BE OF MINIMUM 2.0MM THICK. SUITABLE DIE/CAST/EXTRUDED ALUMINIUM/CRCA LAMINATED STEEL.
- 4) ALL ALUMINIUM EXTRUSIONS WILL BE POWDER COATED IN ALUMINIUM GREY
- 5) PAINT SHADE : AS PER APPROVAL
- 6) DIMENSIONS ARE INDICATIVE AND SUBJECT TO CHANGE BASED ON MODEL/SUPPLIER AVAILABILITY.

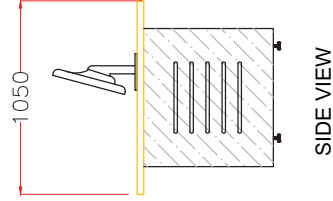
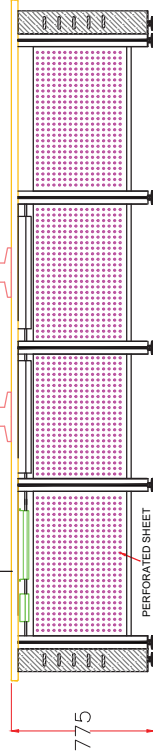
CHP LVS OWS1
&
CHP LVS OWS2

CHP OWS1

CHP OWS2

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	 A4-11	PURCHASE SPECIFICATION FOR CHP DRAWOUT CONSOLE NABINAGAR 3X660MW			PS4042649		
					REV No : 00		
					PARTB: PG 01 OF 03		
		PURCHASE SPECIFICATIONS FOR CHP DRAW-OUT CONSOLE PROJECT : 3X660MW NABINAGAR STPP CUSTOMER: M/s NTPC					
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			PREP KS	CHKD MS	APPVD AG	ISSUED 415	DATE 24/05/2016

		 A4-11	PURCHASE SPECIFICATION FOR CHP DRAWOUT CONSOLE NABINAGAR 3X660MW	PS4042649 REV No : 00 PARTB: PAGE 02 OF 03
COPY RIGHT AND CONFIDENTIAL THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICAL LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY			SPECIFICATION OF DRAWOUT CONSOLE WITH ENCLOSURE OF CHP CONTROL DESK 1.0 CONSTRUCTION 1.1 The CHP drawout console section shall in general, have similar constructional features, including top surface material and colour, as those of the sections meant for operator consoles. This section will be aligned and fixed with other desk sections, so that there is perfect match of the top surfaces. 1.2 The mosaic draw-out type console shall be with a mosaic grid having 10 rows of 24mm and 10 columns of 48mm. The profile should be similar to the one provided for monitors in the operator console. 1.3 The metallic mosaic grid and mosaic items to be mounted on the above consoles shall be in the scope of the supplier. These mosaic grids and items, shall be from either of the following sources: i) TEW, Germany ii) Pro-plan, Germany The overall dimensions along with framework for the required mosaic grid as specified in 1.2 above shall be clearly brought out in the offer. 1.4 The Layout drawing is subject to approval by customer - M/s NTPC. If the item/quantity shown is revised, or any additional items are added in the final approved drawing, the same to be taken care by the supplier. Layout drawing to be prepared based on items/service descriptions as per NTPC doc.:0370-4051-P01-G-104 1.5 An overall specification list of all items, for all consoles, is given in Annexure IV. This has to be taken in conjunction with NTPC Doc. No.: 0370-4051-POI-G-104 1.6 The items shall be arranged as per final approved Layout drawing. In case of increase in item quantities, specified in Annexure IV w.r.t the final approved drawings, the extra items will have to be supplied lose. 1.7 Necessary support arrangements as required for the consoles shall be provided by the supplier. 1.8 Below the draw-out consoles, an enclosure shall be provided in each section for housing terminal blocks with 20% spares and such other components as may be required for complete wiring of the consoles. 1.7 The control desk section enclosure will have one double leaf door in the front, below the draw-out portion, and one double leaf door at the rear.	

		PURCHASE SPECIFICATION FOR DRAWOUT CONSOLES NABINAGAR 3X660MW	PS4042649 REV No : 00 PARTB: PAGE 03 OF 03
	A4-11		
COPY RIGHT AND CONFIDENTIAL THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICAL LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY		1.8 The control desk sections shall have removable gland plates made of 2.0mm thick CRCA sheet. The gland plates shall be provided along with neoprene gasket. It should be fixed to the top flange of the bottom frame. The size of gland plates for each shipping section shall be suitably selected for easy handling. 1.9 The items to be mounted on draw-out consoles will be terminated on suitable TBs. The no. of connections per section is identified in the subsequent pages. All the wiring has to be done using FRLS cables of 1.5, 0.75 or 0.5 sqmm as required. 1.10 It has to ensured that the cables used for connection to items on the draw-out consoles should have sufficient length to facilitate full drawing out of console; without disturbing any of the terminations or damaging any of the cables or associated equipment. 1.11 Supplier to provide assistance at site for - erection of the desk sections to be mounted on the consoles, - any alternation w.r.t addition/deletion/relocation of components and - any wiring to be done at site. Separate price to be quoted for site work of these sections. This price shall however be claimed by the vendor only on actual visit to and completion of work at site. 1.12 As part of technical offer Vendor shall submit necessary Overall General Arrangement drawing of this section along with the OGA drawing for the other sections of the CRT Desk. Vendor shall also furnish the make & model no. of all the items in the BOM. 1.13 In the event of P.O., the vendor is required to submit Internal General Arrangement drawings for the internal arrangement of components, Electrical schematic drawing with wiring of all console items of this section and BOM of all items with detailed part no. of all mosaic mounted items. BOM to include vendor specific Console Layout drawing & datasheets. All documents are subjected to approval by customer - M/s NTPC. 1.15 1No. of Emergency PB with: - 4 changeover contacts, - protective cover, - with min rating of 2A each and - wired upto TBs are to be supplied and mounted on the UCD. [All other details like make, etc. will be the same as other mosaic items]. 1.16 Mandatory spares to be included in the main UCD package. Pl refer Annexure-III of main UCD package	

**PURCHASE SPECIFICATION FOR****CHP - DRAWOUT CONSOLE****NABINAGAR 3X660MW****PS4042649****REV No : 00****PARTB: ANX-IV/Pg 01 of 02**

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LIST OF ITEMS FOR CHP DRAWOUT CONSOLE

Sl. No.	DESCRIPTION	Qty
1	Mosaic Grid along with frame to house the above items 10 rows of 24mm and 10 columns of 48mm Module colour RAL 7035	1
2	1PB Module Size: 48X24mm. Contacts: 2 NO. Suitable for 24V DC. Connection with Plug-in connector. Module colour RAL7035. PB colour: Red.	44
3	Recessed PB module. PB colour: Grey. Size: 48X24mm. Contacts: 2 NO. Suitable for 24V DC. Connection with Plug-in connector. Module colour RAL7035.	1
4	Engravings on Blank tiles as per drawing	1 Lot
5	Blank modues Size: 48X24mm. Module colour RAL7035.	55 [As reqd.]
6	Crimping tool for mosaic items for making connections. [To be supplied loose].	1
7	Removal tool for mosaic items from mosaic items. [To be supplied loose].	1

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PURCHASE SPECIFICATION FOR

CHP - DRAWOUT CONSOLE

NABINAGAR 3X660MW

PS4042649

REV No : 00

PARTB: ANX-IV/Pg 02 of 02

LIST OF ITEMS FOR CHP DRAWOUT CONSOLE

Sl. No.	DESCRIPTION [INSIDE MOUNTED ITEMS]	Qty
1	Crimp contacts suitable for inserting into connectors for wiring	As reqd
2	Cage clamp 8level TBs with 2 input and 2 outputs with shorting links and accessories	As reqd +20%
3	Clip-on TB 10 sqmm with accessories.	As reqd +20%
4	Crimping tool for mosaic items for making connections	1
5	Removal tool for mosaic items from mosaic grid	1
6	Door switch.	2
7	CFL Lamp.	2
8	Fuse 4A with fuse base.	1
9	HRC Link.	1
10	Power socket 5/15A.	1

NOTES:

1. Inscriptions on the mosaic tiles shall be provided as per final approved Layout drawing.
2. Internally mounted items and quantities are subject to change as per requirement in final approved Scheme.
3. Arrangement shall be as per final approved layout of CHP Draw-out console.

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UID, Shift In-Charge, AHP & Water System Desks

Page 1 of 7

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1. UNIT INCHARGE DESK (2 m) TWO SECTION CLOSED TYPE
2. SHIFT INCHARGE DESK (2 m) TWO SECTION CLOSED TYPE
3. AHP DESK (3 m) THREE SECTION OPEN TYPE
4. WATER SYSTEM DESK (4 m) FOUR SECTION OPEN TYPE



A4-10

PURCHASE SPECIFICATION
UID, Shift In-Charge, AHP & Water System Desks

PS/404/2650

REV No. : 00

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REVISION HISTORY SHEET

REV No.	DATE	NATURE OF CHANGE	REASON	PREPARED BY	REVIEWED BY
00	24.1.2016	FIRST ISSUE	---	MS	RKA

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		 A4-10	PURCHASE SPECIFICATION UID, Shift In-Charge, AHP & Water System Desks		PS/404/2650
					REV No. : 00
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<u>SECTION1A – TWO SECTION (CLOSED TYPE) UNIT INCHARGE DESK (UID)</u>					
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	1	UID is required as per drawing enclosed (DRAWING-I). It shall be furnished fully wired with necessary provision for convenience outlets, internal lighting, grounding, ventilation, space heating, anti-vibration pads, internal piping & accessories as required for completeness of the system.			
	2	The UID shall be free Modular, non-welded construction, and free standing table top type with front & back cover, constructed of 1.6 mm thick CRCA steel plates. The desk should consist of vertical, horizontal and base support with their coverings for work surface, sliding keyboard trays, mouse pads, monitor shelf and concealed cable and wire way management, perforated trays with covers in both horizontal and vertical.			
	3	Foot, cantilever beams, Cable managers to be made of Extruded/Cast Aluminium/CRCA laminated steel, Support legs and Horizontal supports (if required) below Work surface to be of minimum 2.0 mm thick suitable extruded Aluminum /CRCA laminated steel profile. The structure frame shall consist of extruded aluminum top and bottom horizontal beams and vertical support tensioned together to form an integrated, finished curvilinear shaped frame. Vertical & Horizontal support, minimum 2.5mm and 2mm thick respectively, have to be provided for the structure frame. Extreme side legs shall be illuminated type and should complete the overall form and aesthetics of the desk.			
	4	The top surface of desk shall be 30mm thick with the top 12mm of acrylic solid surface and remaining 18mm of laminated medium density fiber board.			
	5	Desk width, depth shall be as per the drawing enclosed (DRAWING-I). CPU shall be mounted inside the Desk.			
	6	Profiled extended support and cantilevered beam of Aluminum / steel with suspension hook (if required) to support legs to be provided which should have powder coated finish in approved color / shade.			
	7	The Desk can be designed, manufactured and supplied in separate shipping sections.			
	8	For ensuring proper cooling in door closed condition, in front side & rear side, louvers to be provided and on rear side exhaust fans to be provided with these louvers.			
	9	As required number of 4 way - 5/15 Amps power socket strip mounted on each section to power monitor and CPU.			
NOTE: Dimensions are indicative, detailed component size and specification may be vendor specific within broad specs given above.					

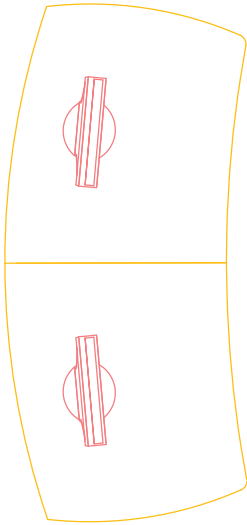
		 A4-10	PURCHASE SPECIFICATION UID, Shift In-Charge, AHP & Water System Desks	PS/404/2650
				REV No. : 00
				Page 4 of 7
<u>SECTION1B – TWO SECTION (CLOSED TYPE) SHIFT INCHARGE DESK</u>				
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	1	Desk is required as per drawing enclosed (DRAWING-II). It shall be furnished fully wired with necessary provision for convenience outlets, internal lighting, grounding, ventilation, space heating, anti-vibration pads, internal piping & accessories as required for completeness of the system.		
	2	The Desk shall be free Modular, non-welded construction, and free standing table top type with front & back cover, constructed of 1.6 mm thick CRCA steel plates. The desk should consist of vertical, horizontal and base support with their coverings for work surface, sliding keyboard trays, mouse pads, monitor shelf and concealed cable and wire way management, perforated trays with covers in both horizontal and vertical.		
	3	Foot, cantilever beams, Cable managers to be made of Extruded/Cast Aluminium/CRCA laminated steel, Support legs and Horizontal supports (if required) below Work surface to be of minimum 2.0 mm thick suitable extruded Aluminum /CRCA laminated steel profile. The structure frame shall consist of extruded aluminum top and bottom horizontal beams and vertical support tensioned together to form an integrated, finished curvilinear shaped frame. Vertical & Horizontal support, minimum 2.5mm and 2mm thick respectively, have to be provided for the structure frame. Extreme side legs shall be illuminated type and should complete the overall form and aesthetics of the desk.		
	4	The top surface of desk shall be 30mm thick with the top 12mm of acrylic solid surface and remaining 18mm of laminated medium density fiber board.		
	5	Desk width, depth shall be as per the drawing enclosed (DRAWING-II). CPU shall be mounted inside the Desk.		
	6	Profiled extended support and cantilevered beam of Aluminum / steel with suspension hook (if required) to support legs to be provided which should have powder coated finish in approved color / shade.		
	7	The Desk can be designed, manufactured and supplied in separate shipping sections.		
	8	For ensuring proper cooling in door closed condition, in front side & rear side, louvers to be provided and on rear side exhaust fans to be provided with these louvers.		
	9	As required number of 4 way - 5/15 Amps power socket strip mounted on each section to power monitor and CPU.		
	NOTE: Dimensions are indicative, detailed component size and specification may be vendor specific within broad specs given above.			

		 A4-10	PURCHASE SPECIFICATION UID, Shift In-Charge, AHP & Water System Desks		PS/404/2650
					REV No. : 00
					Page 5 of 7
			<u>SECTION1C – THREE SECTION (OPEN TYPE) AHP DESK</u>		
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		1		Desk is required as per drawing enclosed (DRAWING-III). It shall be furnished fully wired with necessary provision for convenience outlets, internal lighting, grounding, ventilation, space heating, anti-vibration pads, internal piping & accessories as required for completeness of the system.	
		2		The Desk shall be free Modular, non-welded construction, and free standing table top type with front & back cover, constructed of 1.6 mm thick CRCA steel plates. The desk should consist of vertical, horizontal and base support with their coverings for work surface, sliding keyboard trays, mouse pads, monitor shelf and concealed cable and wire way management, perforated trays with covers in both horizontal and vertical.	
		3		Foot, cantilever beams, Cable managers to be made of Extruded/Cast Aluminium/CRCA laminated steel, Support legs and Horizontal supports (if required) below Work surface to be of minimum 2.0 mm thick suitable extruded Aluminum /CRCA laminated steel profile. The structure frame shall consist of extruded aluminum top and bottom horizontal beams and vertical support tensioned together to form an integrated, finished curvilinear shaped frame. Vertical & Horizontal support, minimum 2.5mm and 2mm thick respectively, have to be provided for the structure frame. Extreme side legs shall be illuminated type and should complete the overall form and aesthetics of the desk.	
		4		The top surface of desk shall be 30mm thick with the top 12mm of acrylic solid surface and remaining 18mm of laminated medium density fiber board.	
		5		Desk width, depth shall be as per the drawing enclosed (DRAWING-III).	
		6		Profiled extended support and cantilevered beam of Aluminum / steel with suspension hook (if required) to support legs to be provided which should have powder coated finish in approved color / shade.	
		7		The Desk can be designed, manufactured and supplied in separate shipping sections.	
		8		As required number of 4 way - 5/15 Amps power socket strip mounted on each section to power monitor and CPU.	
		NOTE: Dimensions are indicative, detailed component size and specification may be vendor specific within broad specs given above.			

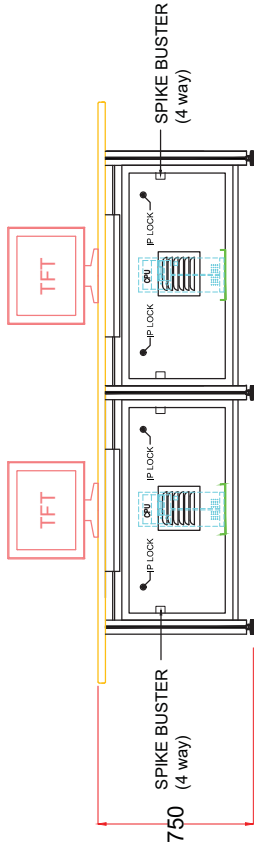
		 A4-10	PURCHASE SPECIFICATION UID, Shift In-Charge, AHP & Water System Desks		PS/404/2650
					REV No. : 00
					Page 6 of 7
			<u>SECTION1D – FOUR SECTION (OPEN TYPE) WATER SYSTEM DESK</u>		
COPYRIGHT AND CONFIDENTIAL The information contained in this document is the property of BHARAT HEAVY ELECTRICALS LIMITED This must not be used directly or indirectly, in any manner detrimental to the interest of the company			Sl. No.	Specification	Supplier's Remark
			1	Desk is required as per drawing enclosed (DRAWING-IV). It shall be furnished fully wired with necessary provision for convenience outlets, internal lighting, grounding, ventilation, space heating, anti-vibration pads, internal piping & accessories as required for completeness of the system.	
			2	The Desk shall be free Modular, non-welded construction, and free standing table top type with front & back cover, constructed of 1.6 mm thick CRCA steel plates. The desk should consist of vertical, horizontal and base support with their coverings for work surface, sliding keyboard trays, mouse pads, monitor shelf and concealed cable and wire way management, perforated trays with covers in both horizontal and vertical.	
			3	Foot, cantilever beams, Cable managers to be made of Extruded/Cast Aluminium/CRCA laminated steel, Support legs and Horizontal supports (if required) below Work surface to be of minimum 2.0 mm thick suitable extruded Aluminum /CRCA laminated steel profile. The structure frame shall consist of extruded aluminum top and bottom horizontal beams and vertical support tensioned together to form an integrated, finished curvilinear shaped frame. Vertical & Horizontal support, minimum 2.5mm and 2mm thick respectively, have to be provided for the structure frame. Extreme side legs shall be illuminated type and should complete the overall form and aesthetics of the desk.	
			4	The top surface of desk shall be 30mm thick with the top 12mm of acrylic solid surface and remaining 18mm of laminated medium density fiber board.	
			5	Desk width, depth shall be as per the drawing enclosed (DRAWING-IV).	
			6	Profiled extended support and cantilevered beam of Aluminum / steel with suspension hook (if required) to support legs to be provided which should have powder coated finish in approved color / shade.	
			7	The Desk can be designed, manufactured and supplied in separate shipping sections.	
			8	As required number of 4 way - 5/15 Amps power socket strip mounted on each section to power monitor and CPU.	
			NOTE: Dimensions are indicative, detailed component size and specification may be vendor specific within broad specs given above.		

		 A4-10	PURCHASE SPECIFICATION UID, Shift In-Charge, AHP & Water System Desks		PS/404/2650
					REV No. : 00
					Page 7 of 7
<u>SECTION 2 – GENERAL SPECIFICATIONS</u>					
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	1	Finished surface to be free from waves, belies or other imperfections. Surface to be Powder Coated or if Spray painted, 2 coats of inhibitive epoxy primer surface to be applied. Paint with Minimum of 2 coats of Primer and 2 sprays of final finish color to be applied OR powder coated with epoxy paint. Exact color and shade of components will be specified at the time of Order placement. Minimum thickness for Aluminum Sheets: is 30 microns. For MS Components: is 65 microns			
	2	Along with offer detailed drawings showing sectional view, top view, front view, and rear view of desks and tables, electrical wiring diagram with bill of materials for each item, and images and/or catalogue of computer chairs.			
	3	Documents to be submitted for manufacturing approval: ▪ Detailed OGA with front view, top view, rear view, sectional view, and floor cut-out details for desks and tables. ▪ Electrical Wiring Diagram with BOM of HMI operator desk, draw-out consoles, synchroscope, and Two section desk. ▪ Quality Plan ▪ Color Shade options.			
	4	Supplier internal Test certificate for dimensions, Visual inspection, paint, HV, IR, electrical functions to be submitted before giving inspection calls to BHEL.			
	5	Inspection by BHEL / CUSTOMER at supplier's work.			
	6	All items will be directly dispatched to project site from supplier works after obtaining necessary clearance from BHEL. Consignee details will be intimated at the time of placement of PO.			
	7	All items shall be packed in complete weather proof packing with sufficient cushioning to avoid transit damage. Suitable pallet shall be provided for handling and transportation			
	8	Name Plates with following details are to be provided for each shipping section. ▪ Item: As per PO ▪ Project Name / Unit no: As per PO ▪ Customer Name: As per PO ▪ BHEL Order No.: As per PO ▪ Date of dispatch to site: As per PO			
	9	Assembly, erection and installation, including laying of power cables, keyboard, mouse and monitor extender cables, termination of the cables, at site to be carried out by supplier. Offer to include charges for same along with necessary touch up etc.			
	10	Modifications as per site requirements to be done on free of cost to match with floor opening for cables. Site work for aligning and matching the curvature of desk as shown in enclosed drawing is under supplier scope.			
	11	Warranty: Offer to include “Two years warranty at site” for all items against manufacturing defects from date of supply. Warranty to include all costs towards material, labor, to fro, traveling, accommodation and stay etc. Exact location of the project site will be intimated at the time of PO.			
Note: Supplier is required to submit the filled, signed and stamped copy of this specification along with the offer, failing which offer is liable for rejection.					
Annexures:					
DRAWING I – UNIT INCHARGE DESK (2 m) TWO SECTION CLOSED TYPE drawing					
DRAWING II – SHIFT INCHARGE DESK (2 m) TWO SECTION CLOSED TYPE drawing					
DRAWING III – AHP DESK (3 m) THREE SECTION OPEN TYPE drawing					
DRAWING IV – WATER SYSTEM DESK (4 m) FOUR SECTION OPEN TYPE drawing					

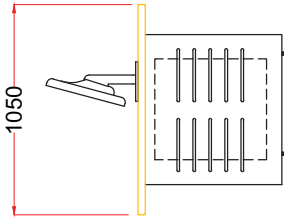
UNIT INCHARGE DESK (2M CLOSED TYPE) 2 SECTIONS



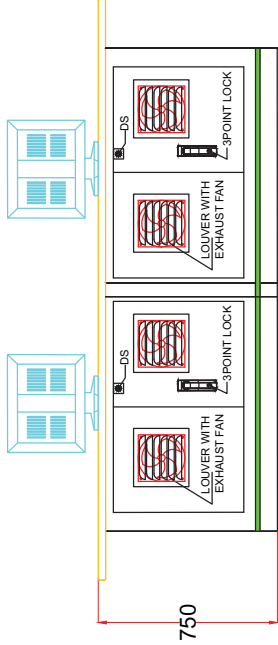
TOP VIEW



FRONT VIEW



SIDE VIEW

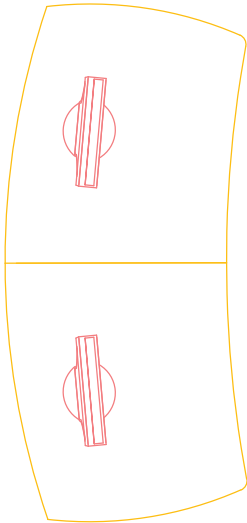


REAR VIEW

NOTES :

- 1) THE TOP SURFACE OF CONTROL DESK SHALL BE 30MM THICK WITH THE TOP 12MM OF ACRYLIC SOLID SURFACE AND THE REMAINING 18MM OF LAMINATED MEDIUM DENSITY .
- 2) COLOR OF TABLE TOP : AS PER APPROVAL.
- 3) FOOT, CANTILEVER, BEAMS, CABLE MANAGERS TO BE MADE OF EXTRUDE/CAST ALUMINIUM/CRCA LAMINATED STEEL, SUPPORT LEGS & HORIZONTAL SUPPORTS (IF REQUIRED) BELOW WORK SURFACE TO BE OF MINIMUM 20MM THICK.
- 4) SUITABLE DIE/CAST/EXTRUDED ALUMINIUM/CRCA LAMINATED STEEL.
- 5) ALL ALUMINIUM EXTRUSIONS WILL BE POWDER COATED IN ALUMINIUM GREY
- 6) PAINT SHADE : AS PER APPROVAL
- 6) DIMENSIONS ARE INDICATIVE AND SUBJECT TO CHANGE BASED ON MODEL/SUPPLIER AVAILABILITY.

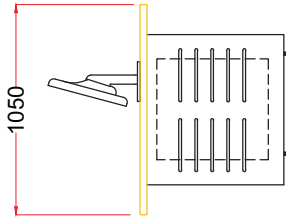
SHIFT INCHARGE DESK (2M CLOSED TYPE) 2 SECTIONS



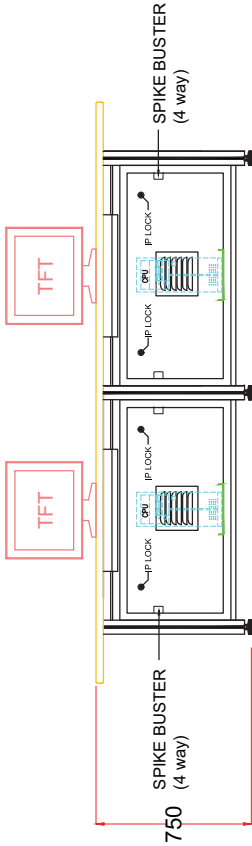
TOP VIEW

NOTES :

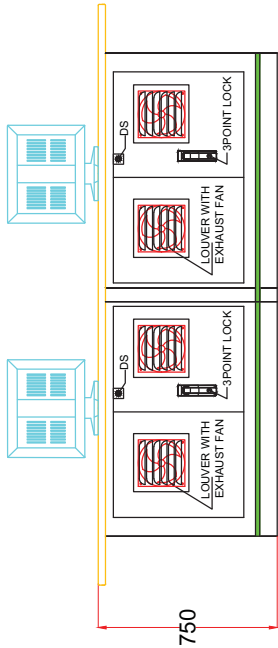
- 1) THE TOP SURFACE OF CONTROL DESK SHALL BE 30MM THICK WITH THE TOP 12MM OF ACRYLIC SOLID SURFACE AND THE REMAINING 18MM OF LAMINATED MEDIUM DENSITY .
- 2) COLOR OF TABLE TOP : AS PER APPROVAL.
- 3) FOOT, CANTILEVER, BEAMS, CABLE MANAGERS TO BE MADE OF EXTRUDE/CAST ALUMINIUM/CRCA LAMINATED STEEL, SUPPORT LEGS & HORIZONTAL SUPPORTS (IF REQUIRED) BELOW WORK SURFACE TO BE OF MINIMUM 20MM THICK.
- 4) SUITABLE DIE/CAST/EXTRUDED ALUMINIUM/CRCA LAMINATED STEEL.
- 5) ALL ALUMINIUM EXTRUSIONS WILL BE POWDER COATED IN ALUMINIUM GREY
- 6) PAINT SHADE : AS PER APPROVAL
- 7) DIMENSIONS ARE INDICATIVE AND SUBJECT TO CHANGE BASED ON MODEL/SUPPLIER AVAILABILITY.



SIDE VIEW

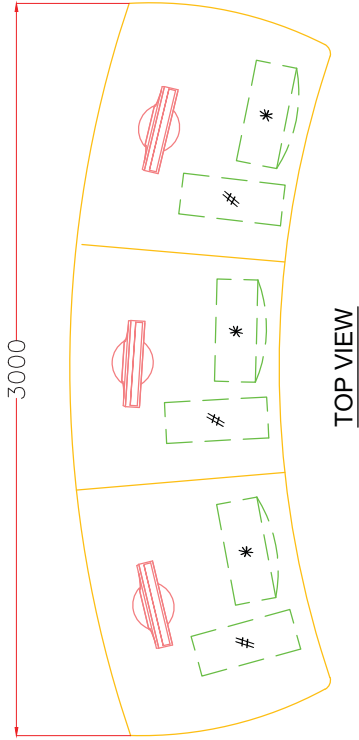


FRONT VIEW

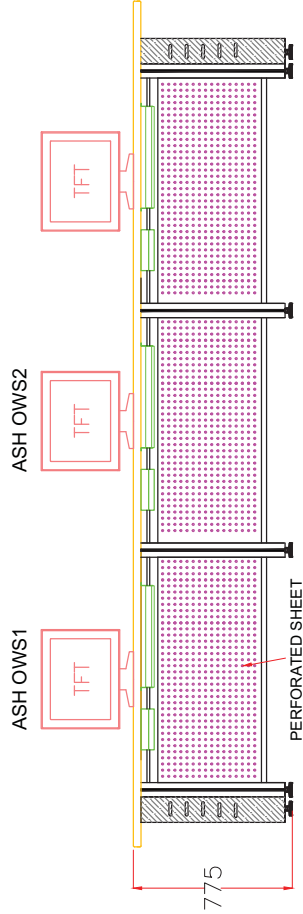


REAR VIEW

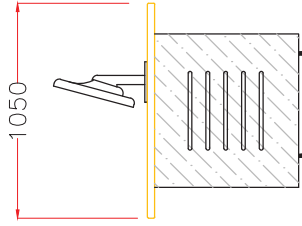
AHP DESK (3M OPEN TYPE) 3 SECTIONS



TOP VIEW



FRONT VIEW



SIDE VIEW

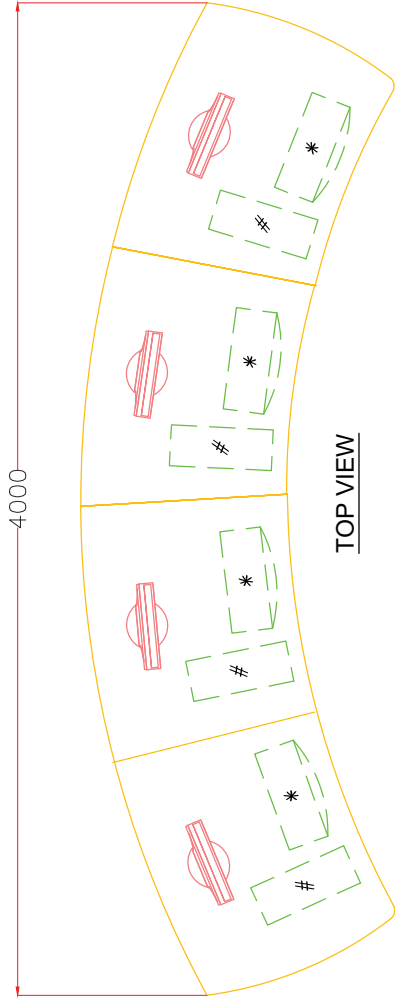
NOTES :

- 1) THE TOP SURFACE OF CONTROL DESK SHALL BE 30MM THICK WITH THE TOP 12MM OF ACRYLIC SOLID SURFACE AND THE REMAINING 18MM OF LAMINATED MEDIUM DENSITY .
- 2) COLOR OF TABLE TOP : AS PER APPROVAL.
- 3) FOOT, CANTILEVER, BEAMS, CABLE MANAGERS TO BE MADE OF EXTRUDE/CAST ALUMINIUM/CRCA LAMINATED STEEL, SUPPORT LEGS & HORIZONTAL SUPPORTS (IF REQUIRED) BELOW WORK SURFACE TO BE OF MINIMUM 2.0MM THICK. SUITABLE DIE/CAST/EXTRUDED ALUMINIUM/CRCA LAMINATED STEEL.
- 4) ALL ALUMINIUM EXTRUSIONS WILL BE POWDER COATED IN ALUMINUM GREY
- 5) PAINT SHADE : AS PER APPROVAL
- 6) DIMENSIONS ARE INDICATIVE AND SUBJECT TO CHANGE BASED ON MODEL/SUPPLIER AVAILABILITY.

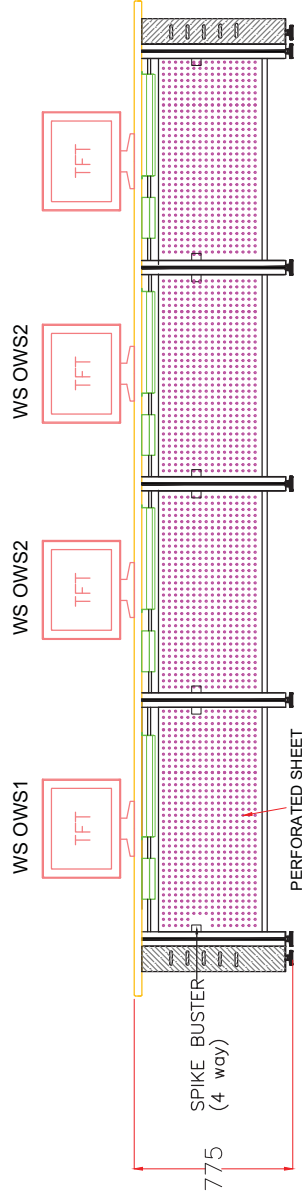
LEGEND :

- # KEY BOARD TRAY IS FOR ASH LVS OWS1 & 2
- * KEY BOARD TRAY IS FOR ASH OWS1 & 2

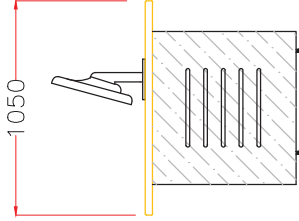
WATER SYSTEM DESK (4M OPEN TYPE) 4 SECTIONS



TOP VIEW



FRONT VIEW



SIDE VIEW

NOTES :

- 1) THE TOP SURFACE OF CONTROL DESK SHALL BE 30MM THICK WITH THE TOP 12MM OF ACRYLIC SOLID SURFACE AND THE REMAINING 18MM OF LAMINATED MEDIUM DENSITY .
- 2) COLOR OF TABLE TOP : AS PER APPROVAL.
- 3) FOOT, CANTILEVER, BEAMS, CABLE MANAGERS TO BE MADE OF EXTRUDE/CAST ALUMINIUM/CRCA LAMINATED STEEL, SUPPORT LEGS & HORIZONTAL SUPPORTS (IF REQUIRED) BELOW WORK SURFACE TO BE OF MINIMUM 2.0MM THICK.
- 4) SUITABLE DIE/CAST/EXTRUDED ALUMINIUM/CRCA LAMINATED STEEL.
- 5) ALL ALUMINIUM EXTRUSIONS WILL BE POWDER COATED IN ALUMINUM GREY
- 6) PAINT SHADE : AS PER APPROVAL
- 6) DIMENSIONS ARE INDICATIVE AND SUBJECT TO CHANGE BASED ON MODEL/SUPPLIER AVAILABILITY.

LEGEND :

- # KEY BOARD TRAY IS FOR WS LVS OWS1,2 & 3
- * KEY BOARD TRAY IS FOR WS OWS1,2 & 3



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Ltd.,
(A Government of India undertaking)
Electronics Division
PB 2606 , Mysore Road Bangalore , 560026 INDIA

Page 1 of 4

CE: PR: 003- Rev 00

SPECIAL COMMERCIAL CONDITIONS OF CONTRACT

Reference is brought to BHEL's Instructions to Bidders (Document Ref: CE: PR: 001- Rev 00) and General Commercial Conditions for Contract (Document Ref: CE: PR: 002- Rev 00). These two documents along with Special Conditions of Contract annexed to this RFQ will form an integral part of the contract as and when the RFQ culminates into a Purchase Order / Contract.

RFQ No: NKR0000131 RFQ Date: As per EPS
Due Date: AS PER EPS Project: Nabinagar 3X660MW
Item Description: Control Desk and Workstation Furniture

Purchase Executives: In cases where tender documents are bulky, or due to some reasons tender documents are required to be submitted by hand, the offers are to be handed over to either of the following Purchase Officers: Mr.Nilmani Kumar , Engineer,CE MM PR_or Mr.H D CHANDRAIAH,Sr.Manager,CE MM PR

E-mail IDs: In case offers are sent through E-mail, please send the offers to both of the following email IDs: nilmanikumar@bheledn.co.in& pennuguru@bheledn.co.in

E-tendering: Applicable / ~~Not Applicable~~

Type of Bid: Three part Bid system (Refer clause B of ITB)

Reverse Auction: ~~Not Applicable~~ / Will be intimated during commercial clarifications to technically acceptable vendors.
In case BHEL does not resort to Reverse Auction, the price bids and price impacts (if any) shall be opened as per BHEL's standard practice.

~~**Splitting of tendered quantity to MSE vendors:** The tendered quantity will /will not be split to MSE vendors subject to submission of relevant documents by vendors. Refer clause H of Instructions to Bidders for conditions applicable and for information on documents to be submitted.~~

Destination:a) For indigenous supply - Items are to be directly despatched to BHEL's Site Office or Stores/Customer's Stores located at/near **NABINAGAR NEAR DEHRO-ON-SONE IN BIHAR STATE** Road Permit, if applicable, will be issued by BHEL along with Despatch Clearance.

b) For Import supply – Port of discharge will be Chennai-Seaport and port of delivery will be ICD-Bangalore

Project Benefits:

Indigenous scope of supply:

- a) Project is Deemed Export contract, Mega Power Project or Ultra Mega Power Project: Eligible for "NIL" Excise Duty. Necessary documents for availing Excise Duty exemption by suppliers will be furnished by BHEL.
- b) ~~Physical Export project: Eligible for complete exemption of Excise Duty & Sales Tax. Necessary documents for availing such benefits will be furnished by BHEL to suppliers.~~
- **Imported scope of supply:**
 - a) Merit Duty is applicable
 - b) ~~Physical Export project: Eligible for complete exemption of Customs Duty.~~

Terms of Delivery:

Indicate station of despatch:

Indicate place of manufacturing (wherever applicable): _____

- **Indigenous scope of supply:** Ex-works (including Packing & Forwarding charges but excluding Taxes & Duties): _____
- **Imported scope of supply: C.I.P-Bangalore (For Air Consignment)/C.I.F.-Chennai** (Including Packing, Forwarding, Handling, Ancillary charges like processing of Sight Draft/ Letter of Credit, negotiation of bank documents, Export declaration, Country of Origin etc): _____

S NO.	TERMS	BHEL ACCEPTABLE TERM	BIDDER'S CONFIRMATION	DEVIATION IF ANY
01	Validity	The offer will be valid for a period of 120 days from the date of technical bid opening.	AGREE	
02	Excise Duty & Cess	If applicable, indicate current rate of Excise Duty and maximum rate of Excise Duty (against proof of Excise Invoice). However, for calculation purpose and arriving at "Total Cost to BHEL" maximum rate of Excise Duty will be considered. In case Excise Duty remains firm throughout the contract, the same shall be specifically indicated. Otherwise, maximum Excise Duty will be considered for arriving at lowest bidder. However, reimbursement of Excise Duty shall be at actuals against proof of Excise Invoice only. (Within contractual delivery). Physical export contract eligible for complete exemption of Excise duty against submission of necessary documents by BHEL like ARE-1/CT-1 form.	APPLICABLE / NOT APPLICABLE Present rate of Excise Duty with CESS% Maximum rate of Excise Duty with CESS%	
03	Central Sales Tax (CST)	If applicable, indicate current rate of sales tax against form "C". For issue of original form "C", vendor has to furnish "E1/E2" form. To enable vendor give E1/E2 form, photocopy of C form will be issued by BHEL. Please confirm submission of "E1/E2 Sale form". For physical export project, Sales Tax is exempted against necessary documents furnished by BHEL.	APPLICABLE / NOT APPLICABLE Present Sales Tax rate against form "C" % CONFIRMED	
04	Value Added Tax (VAT)	If applicable, indicate current rate of VAT. When VAT is applicable, BHEL ROD's/ Nodal Agency's Name, TIN No. and address to be indicated in invoice. (Note that two original invoice and one tax invoice should be submitted to BHEL).	APPLICABLE / NOT APPLICABLE VAT rate at present % NOTED	
05	Octroi	If applicable, indicate current rate of octroi.	AGREE Present Octroi rate%	
06	Freight Charges (for indigenous scope of supply)	Freight charges shall be to vendor's account. Quote lumpsum reasonable Freight charges separately in priced offer, plus service tax if any. Vendor's offer will be evaluated on "Total cost basis" including freight charges. Vendor shall book the consignment through their approved Road carriers on "Freight pre-paid" and door delivery consignee copy attached basis. Freight charges to be claimed from BHEL along with POD (Proof of Delivery) on original L/R.	AGREED and quoted as lumpsum amount in price bid. Service Tax ____% (extra /inclusive in freight charges)	
07	Service Tax on E&C and Training Charges	If applicable, indicate current rate of Service Tax _____% Service Tax Regn. No. _____ Confirmation that Service Tax register is maintained.	APPLICABLE / NOT APPLICABLE CONFIRMED	

08	Parting of license for imported raw materials	In case of Mega project, Ultra-Mega project and Physical Export project where Custom Duty and Excise Duty are NIL and vendor is importing any raw materials / components for the enquired item, same are eligible for Zero Customs duty. As per EXIM policy, BHEL will part the import licence with the vendors to obtain import licence by themselves and custom clear the raw materials/ components by availing zero customs duty. Hence, please furnish list of raw materials / components to be imported by you with Quantity and CIF value (for which BHEL has to share import licence). The benefit due to the above shall be passed on to BHEL and confirmed in the quotation. If there are no imported raw materials/components, same shall be confirmed in the offer.	AGREE — CIF value — Yes, benefit passed on to BHEL in the priced quotation. We confirm that there are no imported components.	
09	Delivery Period	Within 07 weeks from the date of issue of approved documents or manufacturing clearance by BHEL, whichever is later.	AGREE weeks	
10	Guarantee/ Warranty	18 months from the date of delivery of goods or 12 months from the date of commissioning of goods, whichever is earlier.	AGREE	
11	Inspection agency	Materials will be inspected by : • BHEL • Customer/Consultant/BHEL nominated Third Party Inspection Agency (TPIA)	AGREE	
12	Terms of Payment at the time of material supply	Refer Clause "F" of Instructions to Bidder for BHEL standard Payment terms and loading factors applicable for non-compliance against payment terms: Indigenous Scope: a) Supply with E&C b) Supply with Supervision of E&C c) Supply only Imported Scope: d) Supply with E&C e) Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V.	AGREE YES / NO CONFIRMED	
13	Performance Bank Guarantee (PBG)	PBG will be applicable for a period of 24 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause "G" of Instructions to Bidders.	AGREE	
14	Terms of Payment not related to material supply	For Training: 100% will be paid in 45 days from the date of completion of Training or 15 days from the date of submission of complete set of documentation, whichever is later. Separate invoice shall be submitted for Training charges along with documentary evidence. For Engineering & Documentation Charges: 100% will be paid in 45 days from the date of approval of final documents or 15 days from the date of submission of invoice, whichever is later. Separate invoice to be submitted for Engineering & documentation charges.	AGREE	
15	Mode of despatch	Indigenous Scope: By Road on Door Delivery Consignee Copy attached basis through your approved transporter (unless otherwise indicated in Despatch Instructions), only on receipt of Despatch Clearance from BHEL.	AGREE	

		Imported Scope: By Air/Sea through BHEL approved Consolidator/Freight Forwarder, only on receipt of Despatch Clearance from BHEL.		
16	Despatch Documents	Complete set of despatch documents (original + 1 photocopy set) as per Purchase Order shall be forwarded to BHEL directly. Depending upon the project/customer demands, despatch documents may include one or more documents from the following: Commercial Invoice, Excise Invoice (if ED is applicable), Lorry Receipt (L/R), Packing List, Air Way Bill (AWB), Country of origin certificate, Warranty Certificate, Insurance Intimation letter, NIL Short Shipment Certificate, Original Performance Bank Guarantee (directly from issuing bank to BHEL), POD (Proof of Delivery) on original L/R, Disclaimer Certificate (as per BHEL format attached as Annexure XI) along with ER-1 form & attested excise invoice (as per project demands like Nuclear Power plant) etc. The precise list of despatch documents needed for a particular project will be specified in the Purchase Order. One set of Invoice, Packing List and L/R or AWB shall be e-mailed/faxed immediately to BHEL-EDN after despatch.	AGREE	
17	O & M Manuals	As built Drawings, O & M Manuals and other approved documents shall be furnished in required no. of sets as per Specification/Purchase Order. Note: Supply of above documents (O&M) in required no. of sets along with material shall be indicated in packing list. If not mentioned BHEL may insist for submission in required sets once again.	AGREE	
18	Quantity Tolerance	If applicable, indicate Quantity tolerance for each of the line item. For Impulse/seamless/ GI pipes one random length applicable for each variety of pipes.	CONFIRMED	Quantity Tolerance% Per Variety
19	Evaluation criteria for tendered item	Itemwise evaluation of tendered item. Splitting of tendered quantity to MSE vendors (if any) is applicable. OR Items will not be split on item wise lowest offer. All the items in the tender will be evaluated and procured as a SINGLE package i.e. ordering will be done on Single L1 vendor.	AGREE	
20	Integrity Commitment	Integrity commitment will be applicable in the tender process and execution of contracts as mentioned in clause "1" of Instructions to Bidders.	AGREE	

With this, it is inferred that vendor has understood and accepts all terms & conditions as indicated in Instructions to Bidders (Document Ref: CE: PR: 001- Rev 00) & General Commercial Conditions for Contract (Document Ref: CE: PR: 002- Rev 00).

VENDOR'S SIGNATURE WITH SEAL

NOTE: The above filled-in and signed-sealed document (in original) shall be furnished as part of Part-I Bid without fail. If no deviations are brought, it will be treated as if all terms and conditions of this enquiry are accepted by vendor without any deviation.



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भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Ltd.,
(A Government of India undertaking)
Electronics Division
PB 2606 , Mysore Road Bangalore , 560026 INDIA

CE: PR: 002- Rev 00

GENERAL COMMERCIAL CONDITIONS FOR CONTRACT

These 'General Commercial Conditions for Contract for Purchase' hereinafter referred to as GCC apply to all enquiries, tenders, requests for quotations, orders, contracts and agreements concerning the supply of goods and the rendering of related services (hereinafter referred to as "deliveries") to Bharat Heavy Electricals Limited and any of its units, regions or divisions (hereinafter referred to as "BHEL" or the Purchaser) or its projects / customers.

Any deviations from or additions to these GCC require BHEL's express written consent. The general terms of business or sale of the vendor shall not apply to BHEL. Acceptance, receipt of shipments or services or effecting payment shall not mean that the general terms of business or sale of the vendor have been accepted.

Orders, agreements and amendments thereto shall be binding if made or confirmed by BHEL in writing. Only the Purchasing department of BHEL is authorized to issue the Purchase Order or any amendment thereof.

Definitions: Throughout these conditions and in the specifications, the following terms shall have the meanings assigned to them, unless the subject matter or the context requires otherwise.

- 'The Purchaser' means Bharat Heavy Electricals Limited, Electronics division, Mysore road, Bangalore 560 026, a Unit of Bharat Heavy Electricals Limited (A Govt. of India Undertaking) incorporated under the Companies Act having its registered office at BHEL House, Siri Fort, New Delhi-110049, India and shall be deemed to include its successors and assigns. It may also be referred to as BHEL.
- 'The vendor' means the person, firm, company or organization on whom the Purchase Order is placed and shall be deemed to include the vendor's successors, representative heirs, executors and administrator as the case may be. It may also be referred to as Seller, Contractor or Supplier.
- 'Contract' shall mean and include the Purchase Order incorporating various agreements, viz. tender/ RFQ, offer, letter of intent / acceptance / award, the General Conditions of Contract and Special Conditions of Contract for Purchase, Specifications, Inspection / Quality Plan, Schedule of Prices and Quantities, Drawings, if any enclosed or to be provided by BHEL or his authorized nominee and the samples or patterns if any to be provided under the provisions of the contract.
- 'Parties to the Contract' shall mean the 'The Vendor' and the Purchaser as named in the main body of the Purchase Order.

Interpretation:

In the contract, except where the context requires otherwise:

- words indicating one gender include all genders;
- words indicating the singular also include the plural and words indicating the plural also include the singular;
- provisions including the word "agree", "agreed" or "agreement" require the agreement to be recorded in writing, and
- "Written" or "in writing" means hand-written, type-written, printed or electronically made, and resulting in a permanent record.


(S. V. Rao)

Applicable Conditions:

1. **Price Basis:** All prices shall be firm until the purchase order is executed / completed in all respects. No price variations / escalation shall be permitted unless otherwise such variations / escalations are provided for and agreed by BHEL in writing in the purchase order.
2. **Validity:** The offer will be valid for a period of 120 days from the date of technical bid opening date. Validity beyond 120 days, if required, will be specified in the SCC (special conditions of contract).
3. **Ordering and confirmation of Order:** Vendor shall send the order acceptance on their company letter head within two weeks from the date of Purchase Order or such other period as specified / agreed by BHEL. BHEL reserves the right to revoke the order placed if the order confirmation differs from the original order placed. The acceptance of goods/services/supplies by BHEL as well as payments made in this regard shall not imply acceptance of any deviations.
The purchase order will be deemed to have been accepted if no communication to the contrary is received within two weeks (or the time limit as specified / agreed by BHEL) from the date of the purchase order.

4. **Documentation:** After receipt of Purchase Order, vendor should submit required documents like drawings, bill of materials, datasheets, catalogues, quality plan, test procedure, type test report , O & M Manuals and/or any other relevant documents as per Specification/Purchase Order, as and when required by BHEL/Customer.

At any stage within the contract period, the vendor shall notify of any error, fault or other defect found in BHEL's documents /specifications or any other items for reference. If and to the extent that (taking account of cost and time) any vendor exercising due care would have discovered the error, fault or other defect when examining the documents/specifications before submitting the tender, the time for completion shall not be extended. However if errors, omissions, ambiguities, inconsistencies, inadequacies or other defects are found in the vendor's documents, they shall be corrected at his cost, notwithstanding any consent or approval.

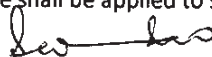
5. **Penalty:**

For delay in documentation: In the event of delay in submission of complete set of documents ((like drawings, bill of materials, datasheets, catalogues, quality plan etc. as called in tender specifications including soft copies wherever applicable) in required sets beyond three weeks (or as agreed/indicated in the Purchase Order) from the date of Purchase Order, penalty at 0.5% (half percent) per week or part thereof, limited to a maximum of 5% (five percent) of the basic material value of the Purchase Order will be applicable.

For delay in delivery: In the event of delay in agreed contractual delivery as per Purchase Order, penalty @ 0.5 % (half percent) per week or part thereof but limited to a max of 10% (ten percent) value of undelivered portion (basic material cost) will be applicable. Delivery will commence from the date of document approval by customer / BHEL or date of issue of manufacturing clearance, whichever is later. The date for which Inspection call is issued by vendor along with test certificates / test reports / Certificate of Conformance / calibration reports, as proof of completion of manufacturing will be treated as date of deemed delivery for penalty calculation. In the absence of furnishing such document indicated above as proof of completion of manufacturing along with inspection call, actual date of inspection will be considered as date of deemed delivery and BHEL will not be responsible for delay in actual date of inspection.

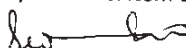
Penalty for delayed documentation/delayed delivery, if applicable, shall be deducted at the time of first payment. If penalty is applicable for duration of less than a week, penalty @ 0.5% (half percent) of the basic material value will be deducted.

6. **Contract variations (Increase or decrease in the scope of supply):** BHEL may vary the contracted scope as per requirements at site. If vendor is of the opinion that the variation has an effect on the agreed price or delivery period, BHEL shall be informed of this immediately in writing along with technical details. Where unit rates are available in the Contract, the same shall be applied to such additional work. Vendor shall not


(Sivas)

perform additional work before BHEL has issued written instructions / amendment to the Purchase Order to that effect. The work which the vendor should have or could have anticipated in terms of delivering the service(s) and functionality (i.e.) as described in this agreement, or which is considered to be the result of an attributable error on the vendor's part, shall not be considered additional work.

7. **Reverse Auction:** BHEL reserves the right to follow REVERSE AUCTION PROCEDURE (ONLINE BIDDING ON NETWORK) before finalising the Purchase order on technically competent bidders, as per the guidelines given in Annexure III. In case BHEL does not resort to Reverse Auction, the price bids and price impacts (if any) already submitted and available with BHEL shall be opened as per BHEL's standard practice.
8. **Inspection:** Prior written notice of at least 10 days shall be given along with internal test certificates / COC and applicable test certificates. Materials will be inspected by BHEL-EDN-QS/CQS or BHEL nominated Third Party Inspection Agency (TPIA) or BHEL authorized Inspection Agency or Customer / Consultant or jointly by BHEL & Customer / consultant. All tests have to be conducted as applicable in line with approved Quality plan or QA Checklist or Purchase specification and original reports shall be furnished to BHEL-EDN, Bangalore for verification / acceptance for issue of dispatch clearance.
All costs related to inspections & re-inspections shall be borne by vendor. Whether the Contract provides for tests on the premises of the vendor or any of his Sub-contractor/s, vendor shall be responsible to provide such assistance, labour, materials, electricity, fuels, stores, apparatus, instruments as may be required and as may be reasonably demanded to carry out such tests efficiently. Cost of any type test or such other special tests shall be borne by BHEL only if specifically agreed to in the purchase order.
9. **Transit Insurance:** Transit insurance coverage between vendor's works and project site shall be to the account of BHEL, unless specifically agreed otherwise. However, vendor shall send intimation directly to insurance agency (as mentioned in dispatch instructions issued by BHEL) through fax/courier/e-mail, immediately on dispatch of goods for covering insurance. A copy of such intimation sent by vendor to insurance agency shall be given to BHEL along with dispatch documents. Dispatch documents will be treated as incomplete without such intimation copy. BHEL shall not be responsible for sending intimations to insurance agency on behalf of the vendor.
10. **High Sea Sales (HSS):** Customs clearance of the consignment landed on Indian Sea / Air ports will be done by BHEL based on the original HSS documents provided by vendors.
Any delay in submission of complete / correct HSS documents to BHEL may incur demurrage charges. All demurrage charges on account of incomplete / incorrect HSS documents submission by vendor will be to vendor's account and all such charges will be recovered from any of the available vendor bills with BHEL.
11. **Packaging and dispatch:** The Seller shall package the goods safely and carefully and pack them suitably in all respects considering the peculiarity of the material for normal safe transport by Sea / Air / Rail / Road to its destination suitably protected against loss, damage, corrosion in transit and the effect of tropical salt laden atmosphere. The packages shall be provided with fixtures / hooks and sling marks as may be required for easy and safe handling. If any consignment needs special handling instruction, the same shall be clearly marked with standard symbols / instructions. Hazardous material should be notified as such and their packing, transportation and other protection must conform to relevant regulations.
The packing, shipping, storage and processing of the goods must comply with the prevailing legislation and regulations concerning safety, the environment and working conditions. Any Imported/Physical Exports items packed with raw / solid wood packing material should be treated as per ISPM – 15 (fumigation) and accompanied by Phytosanitary / Fumigation certificate. If safety information sheets (MSDS – Material Safety Data Sheet) exist for an item or the packaging, vendor must provide this information without fail along with the consignment.
Each package must be marked with Consignee name, Purchase order number, Package number, Gross weight and net weight, dimensions (L x B x H) and Seller's name. Packing list of goods inside each package with PO item number and quantity must also be fixed securely outside the box to indicate the contents of each box. Total number of packages in the consignment must also be indicated.
Separate packing & identification of items should be as follows.
 1. Main Scope - All items must be tagged with part no. & item description.
 2. Commissioning spares - All items must be tagged with part no. & item description.
 3. Mandatory spares - All items must be tagged with part no. & item description.


(Svr Rao)

12. Assignment of Rights & Obligations; Subcontracting: Vendor is not permitted to subcontract the delivery or any part thereof to third party or to assign the rights and obligations resulting from this agreement in whole or in part to third parties without prior written permission from BHEL. Any permission or approval given by the BHEL shall, however, not absolve the vendor of the responsibility of his obligations under the Contract.
13. Progress report: Vendor shall render such report as to the progress of work and in such form as may be called for by the concerned purchase officer from time to time. The submission and acceptance of such reports shall not prejudice the rights of BHEL in any manner.
14. Non-disclosure and Information Obligations: Vendor shall provide with all necessary information pertaining to the goods as it could be of importance to BHEL. Vendor shall not reveal confidential information that may be divulged by BHEL to Vendor's employees not involved with the tender/ contract & its execution and delivery or to third parties, unless BHEL has agreed to this in writing beforehand. Vendor shall not be entitled to use the BHEL name in advertisements and other commercial publications without prior written permission from BHEL.
15. Cancellation / Termination of contract: BHEL shall have the right to completely or partially terminate the agreement by means of written notice to that effect. Termination of the Contract, for whatever reason, shall be without prejudice to the rights of the parties accrued under the Contract up to the time of termination.
BHEL shall have the right to cancel/foreclose the Order/ Contract, wholly or in part, in case it is constrained to do so, on account of any decline, diminution, curtailment or stoppage of the business.
16. Risk Purchase Clause: In case of failure of supplier, BHEL at its discretion may make purchase of the materials / services NOT supplied / rendered in time at the RISK & COST of the supplier. Under such situation, the supplier who fails to supply the goods in time shall be wholly liable to make good to BHEL any loss due to risk purchase.
In case of items demanding services at site like erection and commissioning, vendor should send his servicemen /representatives within 7 days from the service call. In case a vendor fails to attend to the service call, BHEL at its discretion may also make arrangements to attend such service by other parties at the **RISK & COST** of the supplier. Under such situation the supplier who fails to attend the service shall be wholly liable to make good to BHEL any loss due to risk purchase / service including additional handling charges due to the change.
17. Shortages: In the event of shortage on receipt of goods and/or on opening of packages at site, all such shortages shall be made good within a reasonable time that BHEL may allow from such intimation and free of cost. In case BHEL raises an insurance claim, the cost of material limited to insurance settled amount less handling charges will have to be reimbursed by the Supplier.
Transit Damages: In the event of receipt of goods in damaged condition or having found them so upon opening of packages at site, Supplier shall make good of all such damages within a reasonable time from such intimation by BHEL. In case BHEL raises an insurance claim, the cost of material limited to insurance settled amount less handling charges will be reimbursed.
18. Remedial work: Notwithstanding any previous test or certification, BHEL may instruct the vendor to remove and replace materials/goods or remove and re-execute works/services which are not in accordance with the purchase order. Similarly BHEL may ask the vendor to supply materials or to execute any services which are urgently required for any safety reasons, whether arising out of or because of an accident, unforeseeable event or otherwise. In such an event, Vendor shall provide such services within a reasonable time as specified by BHEL.
19. Indemnity Clause: Vendor shall comply with all applicable safety regulations and take care for the safety of all persons involved. Vendor is fully responsible for the safety of its personnel or that of his subcontractor's men / property, during execution of the Purchase Order and related services. All statutory payments including PF, ESI or other related charges have to be borne by the vendor. Vendor is fully responsible for ensuring that all legal compliances are followed in course of such employment.

(Signature)
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20. Product Information, Drawings and Documents: Drawings, technical documents or other technical information received by Vendor from BHEL or vice versa shall not, without the consent of the other party, be used for any other purpose than that for which they were provided. They may not, without the consent of the Disclosing party, otherwise be used or copied, reproduced, transmitted or communicated to third parties. All information and data contained in general product documentation, whether in electronic or any other form, are binding only to the extent that they are by reference expressly included in the contract.

Vendor, as per agreed date/s but not later than the date of delivery, provide free of charge information and drawings which are necessary to permit and enable BHEL to erect, commission, operate and maintain the product. Such information and drawings shall be supplied in as many numbers of copies as may be agreed upon.

All intellectual properties, including designs, drawings and product information etc. exchanged during the formation and execution of the Contract shall continue to be the property of the disclosing party.

21. Intellectual Property Rights, Licenses: If any Patent, design, Trade mark or any other intellectual property rights apply to the delivery (goods / related service) or accompanying documentation shall be the exclusive property of the Vendor and BHEL shall be entitled to the legal use thereof free of charge by means of a non-exclusive, worldwide, perpetual license. All intellectual property rights that arise during the execution of the Purchase Order/ contract for delivery by vendor and/or by its employees or third parties involved by the vendor for performance of the agreement shall belong to BHEL. Vendor shall perform everything necessary to obtain or establish the above mentioned rights. The Vendor guarantees that the delivery does not infringe on any of the intellectual property rights of third parties. The Vendor shall do everything necessary to obtain or establish the alternate acceptable arrangement pending resolution of any (alleged) claims by third parties. The Vendor shall indemnify BHEL against any (alleged) claims by third parties in this regard and shall reimburse BHEL for any damages suffered as a result thereof.

22. Force Majeure: Notwithstanding anything contained in the purchase order or any other document relevant thereto, neither party shall be liable for any failure or delay in performance to the extent said failures or delays are caused by the "Act of God" and occurring without its fault or negligence, provided that, force majeure will apply only if the failure to perform could not be avoided by the exercise of due care and vendor doing everything reasonably possible to resume its performance.

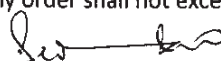
A party affected by an event of force majeure which may include fire, tempest, floods, earthquake, riot, war, damage by aircraft etc., shall give the other party written notice, with full details as soon as possible and in any event not later than seven (7) calendar days of the occurrence of the cause relied upon. If force majeure applies, dates by which performance obligations are scheduled to be met will be extended for a period of time equal to the time lost due to any delay so caused.

Notwithstanding above provisions, in an event of Force Majeure, BHEL reserves for itself the right to cancel the order/ contract, wholly or partly, in order to meet the overall project schedule and make alternative arrangements for completion of deliveries and other schedules.

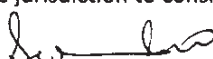
23. Guarantee / Warranty: Wherever required, and so provided in the specifications / Purchaser Order, the Seller shall guarantee that the stores supplied shall comply with the specifications laid down, for materials, workmanship and performance. Unless otherwise specified, guarantee / warranty period shall be 30 months after the date of delivery of goods or 24 months from the date of commissioning of goods whichever is earlier. The guarantee / warranty period as described above shall apply afresh to replaced, repaired or re-executed parts of a delivery. Unless otherwise specifically provided in the Purchase Order, Vendor's liability shall be co terminus with the expiration of the applicable guarantee / warranty period.

24. Limitation of Liability: Vendor's liability towards this contract is limited to a maximum of 100% of the contract value and consequential damages are excluded. However the limits of liability will have no effect in cases of criminal negligence or wilful misconduct.

The total liability of Vendor for all claims arising out of or relating to the performance or breach of the Contract or use of any Products or Services or any order shall not exceed the total Contract price.


(S. V. Rao)

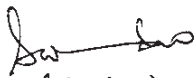
25. Liability during guarantee / warranty: Vendor shall arrange replacement / repair of all the defective materials / services under its obligation under the guarantee / warranty period. The rejected goods shall be taken away by vendor and replaced / repaired. In the event of the vendor's failure to comply, BHEL may take appropriate action including disposal of rejections and replenishment by any other sources at the cost and risk of the vendor.
In case, defects attributable to vendor are detected during first time commissioning or use, vendor shall be responsible for replacement / repair of the goods as required by BHEL at vendor's cost. In all such cases expiry of guarantee / warranty will not be applicable.
26. Liability after guarantee / warranty period: At the end of the guarantee / warranty, the Vendor's liability ceases except for latent defects (latent defects are defects / performance issues noticed after the guarantee / warranty has expired). The Contractor's liability for latent defects warranty for the plant and equipment including spares shall be limited to a period of six months from the end of the guarantee / warranty period of the respective plant and equipment including spares or first time commissioning whichever is later but not later than 3 (three) years from the date of shipment.
27. Compliance with Laws: Vendor shall, in performing the contract, comply with all applicable laws. The vendor shall make all remittances, give all notices, pay all taxes, duties and fees, and obtain all permits, licences and approvals, as required by the laws in relation to the execution and completion of the contract and for remedying of any defects; and the Contractor shall indemnify and hold BHEL harmless against and from the consequences of any failure to do so.
28. Settlement of Disputes: Except as otherwise specifically provided in the Purchase Order, decision of BHEL shall be binding on the vendor with respect to all questions relating to the interpretation or meaning of the terms and conditions and instructions herein before mentioned and as to the completion of supplies/work/services, other questions, claim, right, matter or things whatsoever in any way arising out of or relating to the contract, instructions, orders or these conditions or otherwise concerning the supply or the execution or failure to execute the order, whether arising during the schedule of supply/work or after the completion or abandonment thereof. Any disputes or differences among the parties shall to the extent possible be settled amicably between the parties thereto, failing which the disputed issues shall be settled through arbitration. Vendor shall continue to perform the contract, pending settlement of dispute(s).
29. Arbitration Clause: In case amicable settlement is not reached in the event of any dispute or difference arising out of the execution of the Contract or the respective rights and liabilities of the parties or in relation to interpretation of any provision in any manner touching upon the Contract, such dispute or difference shall (except as to any matters, the decision of which is specifically provided for therein) be referred by either party to the sole arbitration of an Arbitrator appointed by the Executive Director/ General Manager of the purchasing unit/ region/ division of BHEL. Vendor shall have no objection even if the Arbitrator so appointed is an employee of BHEL or has ever dealt/ had to deal with any matter relating to this Contract.
Subject as aforesaid the provisions of the Arbitration and Conciliation Act, 1996 of India or any statutory modification or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceedings under this clause. It is a term of contract that the party initiating arbitration shall specify the dispute or disputes to be referred to arbitration under this clause together with the amount or amounts claimed in respect of each such dispute. The venue for the arbitration shall be Bangalore, India. The award of the arbitrator shall be a speaking award and shall be final, conclusive and binding on all parties to this contract.
The cost of arbitration shall be borne equally by the parties. Notwithstanding the existence of any dispute or difference or any reference for the arbitration, the vendor shall proceed with and continue without hindrance the performance of the work under the contract with due diligence and expedition in a professional manner.
30. Applicable Laws and Jurisdiction of Courts: Prevailing Indian laws both substantive and procedural, including modifications thereto, shall govern the Contract. Subject to the conditions as aforesaid, the competent courts in BANGALORE alone shall have jurisdiction to consider over any matters touching upon this contract.


(Srdas)

31. General Terms: That any non-exercise, forbearance or omission of any of the powers conferred on BHEL and /or any of its authorities will not in any manner constitute waiver of the conditions hereto contained in these presents.

That the headings used in this agreement are for convenience of reference only.

That all notices etc., to be given under the Purchase order shall be in writing, type script or printed and if sent by registered post or by courier service to the address given in this document shall be deemed to have been served on the date when in the ordinary course, they would have been delivered to the addressee.


(Sv Rao)

32. Fraud Prevention Policy: The bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.



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भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Ltd.,
(A Government of India undertaking)
Electronics Division

PB 2606 , Mysore Road Bangalore , 560026 INDIA

CE: PR: 001- Rev 00

INSTRUCTIONS TO BIDDERS (Common for all RFQs)

Bidder is requested to read the instructions carefully and submit their quotation covering all the points:

A. GENERAL INSTRUCTIONS:

1. Any Purchase Order resulting from this enquiry shall be governed by the Instructions to Bidders (document reference: CE: PR: 001 – Rev 00), General Conditions of Contract (document reference: CE: PR: 002 - Rev 00) and Special Conditions of Contract, if any, of the enquiry.
2. Any deviations from or additions to the “General Conditions of Contract” or “Special Conditions of Contract” require BHEL’s express written consent. The general terms of business or sale of the bidder shall not apply to this tender.
3. Bidders (also includes the term suppliers / contractors wherever used in this document) are instructed to quote their most competitive price and best delivery, etc. in the offer. Prices should be indicated in both figures & words. **(Please also refer clause 11 under section B)**
4. Regret letter (either through post or by mail) indicating reasons for not quoting must be submitted without fail, in case of non-participation in this tender. If a bidder fails to respond against 3 consecutive tenders for the same item, he will be liable for removal as a registered vendor of BHEL.
5. Procurement directly from the manufacturers shall be preferred. However, if the OEM / Principal insist on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer / supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer / supplier or the manufacturer / supplier could bid directly but not both. In case bids are received from the manufacturer / supplier and his agent, bid received from the agent shall be ignored.
6. Consultant / firm (and any of its affiliates) shall not be eligible to participate in the tender/s for the related goods for the same project if they were engaged for consultancy services for the same project.
7. If an Indian representative / associate / liaison office quotes on behalf of a foreign based bidder, such representative shall furnish compulsorily the following documents:
 - a. Authorization letter to quote and negotiate on behalf of such foreign-based bidder.
 - b. Undertaking from such foreign based bidder that such contract will be honored and executed according to agreed scope of supply and commercial terms and conditions.
 - c. Undertaking shall be furnished by the Indian representative stating that the co-ordination and smooth execution of the contract and settlement of shortages / damages / replacement / repair of imported scope till system is commissioned and handed over to customer will be the sole responsibility of the Indian representative / associates / agent / liaison office.
 - d. Refer **Annexure X** on “Guidelines for Indian Agents”.
8. In case of imported scope of supply, customs clearance & customs duty payment will be to BHEL account after the consignment is received at Indian Airport / Seaport. Bidders must provide all original documents required for completing the customs clearance along with the shipment. Warehousing charges due to

incomplete or missing documentation will be recovered from the supplier's bill. All offers for imported scope of supply must be made from any of the gateway ports (within the country) indicated. **(Refer Annexure I)**

9. The offers of the bidders who are on the banned list and also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of the banned firms is available on BHEL website: **www.bhel.com**
10. Business dealings with bidders will be suspended if they are found to have indulged in any malpractices / misconduct which are contrary to business ethics like bribery, corruption, fraud, pilferage, cartel formation, submission of fake/false/forged documents, certificates, information to BHEL or if they tamper with tendering procedure affecting the ordering process or fail to execute a contract, or rejection of 3 consecutive supplies or if their firms / works are under strike / lockout for a long period.

B. GUIDELINES FOR PREPARATION OF OFFER:

1. Quotation shall be submitted in Single Part Bid, Two Part Bid or Three Part Bid, as called for in the tender:
 - **SINGLE PART BID:** Technical and Commercial Bid with prices along with price summary & filled in BHEL Standard Commercial terms and conditions in a single sealed envelope.
 - **TWO PART BID:** Unpriced offer i.e. "Techno-commercial Bid" with filled in BHEL Standard Commercial terms and conditions in a sealed envelope **along with the copy of the "Price Bid" without the prices** should be enclosed in one cover and the cover must be super scribed "**Techno-commercial offer**) and Priced offer i.e. "Price Bid" containing price summary in a separate sealed envelope and must be super scribed "**Price Bid**". Both these envelopes shall be enclosed in a single sealed envelope super scribed with enquiry number due date of tender and any other details as called for in the tender document.
 - **THREE PART BID:** Pre-qualification Bid (Part-I), Techno Commercial Bid with filled in BHEL Standard Commercial terms and conditions (Part-II), and Price Bid (Part-III). All three envelopes shall be enclosed in a single sealed envelope super scribed with enquiry number due date of tender and any other details as called for in the tender document.

If any of the offers (Part I, Part II or Part III) are not submitted before the due date and time of submission or if any part of the offer is incomplete the entire offer of the bidder is liable for rejection.

2. Supplier shall ensure to super scribe each envelope with RFQ number, RFQ Date, RFQ Due date and time, Item Description and Project clearly & boldly. Also mention on the envelope whether it is "Techno Commercial Bid" or "Price Bid" or "Pre-Qualification Bid". Please ensure complete address, department name and purchase executive name is mentioned on the envelope (before dropping in the tender box or handing over) so that the tender is available in time for bid opening.
3. BHEL standard Commercial Terms and Conditions (duly filled, signed & stamped) must accompany Technical-Commercial offer without fail and should be submitted in original only. Xerox copy will not be accepted.
4. Any of the terms and conditions not acceptable to supplier, shall be explicitly mentioned in the Techno-Commercial Bid. If no deviations are brought out in the offer it will be treated as if all terms and conditions of this enquiry are accepted by the supplier without deviation.
5. Deviation to this specification / item description, if any, shall be brought out clearly indicating "DEVIATION TO BHEL SPECIFICATION" without fail, as a part of Techno-Commercial Bid. If no deviations are brought out in the offer it will be treated as if the entire specification of this enquiry is accepted without deviation.
6. Suppliers shall submit one set of original catalogue, datasheets, bill of materials, dimensional drawings, mounting details and / or any other relevant documents called in purchase specification as part of Technical Bid.
7. "Price Bid" shall be complete in all respects containing price break-up of all components along with all

applicable taxes and duties, packing & forwarding charges (if applicable), freight charges (if applicable) etc. Once submitted no modification / addition / deletion will be allowed in the "Price Bid." Bidders are advised to thoroughly check the unit price, total price to avoid any discrepancy.

8. In addition, bidder shall also quote for erection & commissioning charges (E&C charges), documentation charges, service charges, testing Charges (type & routine), training charges, service tax, etc. wherever applicable. The price summary must indicate all the elements clearly.
9. Vendors should indicate "lump sum" charges (including To & Fro Fare, Boarding, Lodging, Local Conveyance etc.) for Supervision of Erection, Commissioning and handing over to customer. The quotation shall clearly indicate scope of work, likely duration of commissioning, pre-commissioning checklist and service tax (if any).
10. Wherever bidders require PAC (Project Authority Certificate) for import of raw materials, components required for Mega Power Projects, Export Projects or other similar projects wherein supplies are eligible for customs duty benefits, lists and quantities of such items and their values (CIF) has to be mentioned in the offer. Prices must be quoted taking into account of such benefits.
11. All quotations shall be free from corrections /overwriting. Corrections if any should be authenticated with signature and seal. Any typographical error, totaling mistakes, currency mistake, multiplication mistake, summing mistakes etc. observed in the price bids will be evaluated as per **Annexure II** "Guidelines for dealing with Discrepancy in Words & Figures – quoted in price bid". BHEL decision will be final.

C. GUIDELINES FOR OFFER SUBMISSION:

1. Offers / Quotations must be dropped in tender box before 13.00 Hrs. on or before due date mentioned in RFQ. The offers are to be dropped in the proper slot of the Tender Box kept in our reception area with caption "CE, SC&PV, DEFENCE." Tenders are opened on 3 days in a week (Monday/Wednesday/Friday). Tender must be deposited in the slot corresponding to the day (Monday - Box no.4/Wednesday - Box no. 6 /Friday - Box no.8) while depositing the offer. **(This clause will not be applicable for e-tenders)**
2. E-Mail / Internet / EDI offers received in time shall be considered only when such offers are complete in all respects. In case of offers received through E-mail, please send the offer to the email ID specified in the SCC of the tender. (Refer to SCC document of tender)
3. In cases where tender documents are bulky, or due to some reasons tender documents are required to be submitted by hand or through posts/couriers, the offers are to be handed over either of the two officers whose names are mentioned in the RFQ. (Refer to SCC document of tender)
4. Tenders will be opened on due date, time and venue as indicated in the RFQ in the presence of bidders at the venue indicated in the RFQ. In case of e-procurement, bidders can see tender results till seven days after due date and time.
5. Vendor will be solely responsible:
 - a. For submission of offers before due date and time. Offers submitted after due date and time will be treated as "Late offers" and will be rejected.
 - b. For submission of offers in the correct compartment of the tender box based on the day of due date (Monday/Wednesday/Friday). Please check before dropping your offer in the correct tender box.
 - c. For depositing offers in proper sealed condition in the tender box. If the bidder drops the tender in the wrong tender box or if the tender document is handed over to the wrong person BHEL will not be responsible for any such delays.
 - d. For offers received through email etc., suppliers are fully responsible for lack of secrecy on information and ensuring timely receipt of such offers in the tender box before due date & time.
 - e. In case of e-tender, all required documents should be uploaded before due date and time. Availability of power, internet connections, etc. will be the sole responsibility of the vendor. Wherever assistance is

needed for submission of e-tenders, help line numbers and executives of service provider of BHEL may be contacted.

Service provider: M-junction

Website address: <https://bheleps.buyjunction.in/>

Helpline no.: 033-66106426/6217/6013/6046/6176 (9:30 am to 5:30 pm)

9163348283/9163348284/9163348285/9163348286/8584008116 (5:30 pm to 8:30 pm)

Purchase Executive / BHEL will not be responsible for any of the activities relating to submission of offer.

D. PROCESSING OFFERS RECEIVED:

1. Any discount / revised offer submitted by the supplier on its own shall be accepted provided it is received on or before the due date and time of offer submission (i.e. Part-I bid). The discount shall be applied on pro-rata basis to all items unless specified otherwise by the bidder.
2. Changes in offers or Revised offers given after Part-I bid opening shall not be considered as a part of the original offer unless such changes / revisions are requested by BHEL.
3. In case there is no change in the technical scope and / or specifications and / or commercial terms & conditions, the supplier will not be allowed to change any of their bids after Technical bids are opened (after the due date and time of tender opening).
4. In case of changes in scope and/ or technical specifications and/ or commercial terms & conditions by BHEL and it accounts for price implications from vendors, all techno-commercially acceptable bidders shall be asked by BHEL (after freezing the scope, technical specifications and commercial terms & conditions) to submit the impact of such changes on their price bid. Impact price will be applicable only for changes in technical specification / commercial conditions by BHEL. The impact price must be submitted on or before the cut-off date specified by BHEL and the original price bid and the price impact bid will be opened together at the time of price bid opening.
5. BHEL EDN reserves the right to adopt Reverse Auction or standard Price Bid Opening procedure for price evaluation, at its discretion. This will be decided after completion of technical evaluation of tender. **(Refer Annexure III for Guidelines for Reverse Auction).**
6. Un-opened bids (including price bids) will be returned to the respective bidders after release of PO and receipt of order acknowledgement from the successful bidder.
7. After receipt of Purchase Order, supplier should submit required documents like drawings, bill of materials, datasheets, catalogues, quality plan, test procedure, type test report , O & M Manuals and / or any other relevant documents as per Specification / Purchase Order, as and when required by BHEL / Customer.
8. Any deviation to the terms and conditions not mentioned in the quotation by supplier in response to this enquiry will not be considered, if put forth subsequently or after issue of Purchase Order, unless clarification is sought for by BHEL EDN and agreed upon in the Purchase Order.
9. Evaluation shall be on the basis of delivered cost (i.e. "Total Cost to BHEL").
 "Total Cost to BHEL" shall include total basic cost, packing & forwarding charges, taxes and duties, freight charges, insurance, service tax for services, any other cost indicated by vendor for execution of the contract and loading factors (for non-compliance to BHEL Standard Commercial Terms & Conditions). Benefits arising out of Nil Import Duty on Mega Projects, Physical Imports or such 100% exemptions (statutory benefits), customer reimbursements of statutory duties (like Excise Duty, CST, VAT) will also be taken into account at the time of tender evaluation. (wherever applicable and as indicated in SCC document of tender)

10. For evaluation of offers in foreign currency, the exchange rate (TT selling rate of SBI) shall be taken as under:

Single part bids: Date of tender opening

Two/three part bids: Date of Part-I bid opening

Reverse Auction: Date of Part-I bid opening

In case of Performance Bank Guarantee (PBG) also, exchange rate will be considered as mentioned above for converting foreign currency to Indian currency and vice versa.

If the relevant day happens to be a bank holiday, then the exchange rate as on the previous working day of the bank (SBI) shall be taken.

11. Ranking (L-1, L-2 etc.) shall be done only for the techno-commercially acceptable offers.

E. INFORMATION ON PAYMENT TERMS:

1. All payments will be through Electronic Fund transfer (EFT). Vendor has to furnish necessary details as per BHEL standard format **(Refer Annexure IV)** for receiving all payments through NEFT. (Applicable for Indian vendors only)
2. In case of High Sea Sales transaction, customs clearance of the consignment landed on Indian Sea / Air ports will be done by BHEL based on the original HSS documents provided by vendors. All warehousing charges due to delay in submission of complete and or correct HSS documents to BHEL will be to suppliers account only. Such recovery will be made out of any of the available bills. **(Refer Annexure V)**.
3. Statutory deductions, if any, will be made and the deduction certificate shall be issued. In case vendor does not provide PAN details, the TDS deduction shall be at the maximum percentage stipulated as per the provisions of Income Tax Act. (Applicable for Indian vendors only).
Foreign vendors shall submit relevant details of their bankers like Swift Code, Banker's Name & Address etc.
4. Vendors must submit bills & invoices along with required supporting documents in time. Incomplete documentation / delayed submission of invoice / documents will result in corresponding delay in payment.

F. STANDARD PAYMENT TERMS OF BHEL-EDN

Purchase Orders for indigenous procurement

(a) SUPPLY WITH E&C:

- 1) 85% of basic value (excluding E&C charges) + 100% of taxes, duties and freight charges will be paid in 45 days from the date of dispatch or 15 days from the date of submission of complete set of documentation whichever is later.
- 2) 15% of basic value (retention money), (excluding E&C charges) will be paid in 15 days from the date of submission of documents against supplementary invoice with proof of completion of E&C along with E & C charges (if any)

(b) SUPPLY WITH SUPERVISION OF E&C:

- 1) 90% basic value (excluding E&C charges) + 100% of taxes, duties and freight charges will be paid in 45 days from the date of dispatch or 15 days from the date of submission of complete set of documentation whichever is later.
- 2) 10% of basic value (retention money), (excluding E&C charges) will be paid in 15 days from the date of completion of erection and commissioning against supplementary invoice with proof of completion of E&C along with supervision charges (if any)

(c) SUPPLY ONLY:

- 1) 100% of PO value with taxes, duties and freight will be paid in 45 days from the date of dispatch or 15 days from the date of submission of complete set of documentation whichever is later.

Purchase orders for import procurement:**(d) SUPPLY WITH E&C:**

- 1) 85% of the basic value (excluding E&C charges) will be paid in 45 days, against usance draft of 45 days, from the date of AWB/BOL on submission of complete set of documents.
- 2) 15% of basic value (retention money), (excluding E&C charges) will be paid in 15 days from the date of completion of E&C along with E & C charges against supplementary invoice with proof of completion of E&C (if any).

(e) SUPPLY WITH SUPERVISION OF E&C:

- 1) 90% of the value of the order will be paid on the 45th day, against usance draft of 45 days, from the date of AWB/BOL on submission of complete set of documents.
- 2) 10% of basic value (retention money) will be paid in 15 days from the date of completion of erection and commissioning against supplementary invoice with proof of completion of E&C along with supervision charges (if any).

(f) SUPPLY ONLY:

- 1) 100% of PO value will be paid against usance draft of 45 days from the date of dispatch or 15 days from the date of submission of complete set of documents whichever is later.

LOADING FACTORS FOR PAYMENT TERMS:

- 1) For offers received with requests for negotiation of documents through bank loading will be 15% of basic value (all bank charges to be borne by the seller).
(This loading factor is applicable only for purchase orders for indigenous supply).
- 2) In all cases where credit period is 30 days but not in line with the above mentioned standard payment terms offered loading applicable will be 5% of basic value.
(This loading factor is applicable only for purchase orders for indigenous supply).
- 3) For offers received with Letter of Credit payment term in place of sight draft payment term, loading applicable will be 5% of basic value. Additional loading of 5% will be applicable for payment terms as Letter of Credit with usance of less than 45 days.
(This loading factor is applicable only for purchase orders for imported supply).
- 4) For offers received with Sight Draft payment terms with usance of less than 45 days, loading of 5% will be applicable.
(This loading factor is applicable only for purchase orders for imported supply).
- 5) All payment terms with credit period of less than 30 days for indigenous supply and any other variation of payment terms are liable for rejection.
- 6) Standard payment terms indicated in para F (a), (b), (c), (d), (e) and (f) will not attract any loading.

Note 1: Basic value of Purchase Order mentioned above will include all components of the purchase order and will exclude only taxes, duties, freight and E&C charges (wherever applicable).

Wherever the Purchase Order is split into import portion and indigenous portion of supply the retention money will be 15% or 10% (as applicable) of both purchase order values put together.

Note 2: *If the E&C could not be completed till the end of the Warranty period due to reasons not attributable to the supplier, BHEL may consider releasing the retention money to the supplier against Bank Guarantee for equivalent value valid for an initial period of one year.*

G. Bank guarantee (BG) / Performance bank guarantee (PBG):

1. Bank guarantee (BG) / Performance bank guarantee (PBG) will be applicable as called in the tender documents. Such PBG shall be valid for a period of 36 months + claim period of 6 months for a value equal to 10 % of the basic value of the purchase order. No deviation for the duration of PBG / BG will be permitted.
 - a. PBG shall be from any of the BHEL consortium of bankers (**refer Annexure VI**).
 - b. PBGs from nationalized banks are also acceptable.
 - c. PBG should be sent directly by the bank to the dealing executive mentioned in the purchase order located at the address mentioned in the purchase order. PBG should be in the format indicated. (**Refer annexures VII & VIII respectively**). No deviation to these formats will be allowed.
 - d. Confirmation from any of the BHEL consortium of banks or any of the Indian Public Sector Banks is essential for the acceptance of PBGs issued by foreign banks (located outside India).
 - e. Expired BGs / PBGs will be returned only after expiry of the claim period or on completion of the contractual obligation.
 - f. **Non acceptance for submission of PBG will attract loading as indicated below**
 - i. Loading will be equal to the percentage of value for which BG / PBG is not provided. (Ex: if PBG / BG is given for 3 % of the basic value against 10% specified, loading applicable will be 7% (10 – 3 = 7 %). This value will be added to the quoted price while evaluating the lowest offer.

H. PROVISIONS APPLICABLE FOR MSE VENDORS (MICRO AND SMALL ENTERPRISES)

Vendors who qualify as MSE vendors are requested to submit applicable certificates (as specified by the Ministry of Micro, Small and Medium Enterprises) at the time of vendor registration. Vendors have to submit any of the following documents along with the tender documents in the Part I / Technical bid cover to avail the applicable benefits.

- a. Valid NSIC certificate or
- b. Entrepreneur's Memorandum part II (EM II) certificate (deemed valid for 2 years).
- c. EM II certificate with CA certificate (**in the prescribed format given in Annexure IX**) applicable for the year certifying that the investment in plant and machinery of the vendor is within permissible limits as per the MSME Act 2006 for relevant status where the deemed validity is over.
- d. Documents submitted for establishing the credentials of MSE vendors must be valid as on the date of part I / technical bid opening for the vendors to be eligible for the benefits applicable for MSE vendors. Documents submitted after the Part I / Technical bid opening date will not be considered for this tender.

PURCHASE PREFERENCE FOR MSE VENDORS:

- e. MSE vendors quoting within a price band of L1 + 15% shall be allowed to supply up to 20% of the requirement against this tender provided
 1. The MSE vendor matches the L1 price
 2. L1 price is from a non MSE vendor
 3. L1 price will be offered to the nearest vendor nearest to L1 in terms of price ranking (L2 - nearest to L1). In case of non-acceptance by the MSE vendor (L2) next ranking MSE vendor will be offered who is within the L1 + 15% band (if L3 is also within 15% band).
 4. 20% of the 20% (i.e. 4% of the total enquired quantity) will be earmarked for SC/ST owned MSE firms provided conditions as mentioned in (1) and (2) are fulfilled.

5. In case no vendor under SC / ST category firms are meeting the conditions mentioned in (1) and (2) or have not participated in the tender, in such cases the 4% quantity will be distributed among the other eligible MSE vendors who have participated in the tender.
6. Serial no. 1 to 5 will not be applicable wherever it is not possible to split the tendered quantity / items on account of customer contract requirement, or the items tendered are systems. Such information that tendered quantity will not be split will be indicated in the SCC.

I. INTEGRITY COMMITMENT IN THE TENDER PROCESS, AND EXECUTION OF CONTRACTS:

1. Commitment by BHEL:

BHEL commits to take all measures necessary to prevent corruption in connection with the Tender process and execution of the Contract. BHEL will, during the tender process, treat all bidder / suppliers in a transparent and fair manner, and with equity.

2. Commitment by Bidder(s)/ Contractor(s):

- a. The Bidder(s)/ Contractor(s) commit(s) to take all measures to prevent corruption and will not directly or indirectly try to influence any decision or benefit which he is not legally entitled to.
- b. The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding or any actions to restrict competition.
- c. The Bidder(s)/ Contractor(s) will not commit any offence under the relevant Acts. The Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain or pass on to others, any information or document provided by BHEL as part of business relationship.
- d. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to the relevant guidelines issued from time to time by Government of India/ BHEL.

If the Bidder(s) / Contractor(s), before award or during execution of the Contract commit(s) a transgression of the above or in any other manner such as to put his reliability or credibility in question, BHEL is entitled to disqualify the Bidder(s) / Contractor (s) from the tender process or terminate the contract and/ or take suitable action as deemed fit.

PURCHASE EXECUTIVE

ANNEXURE - I
LIST OF INTERNATIONAL GATEWAY AIRPORTS

For airbased consignment, terms of delivery will be on FCA basis from following listed airports only.
This list is valid from 01.03.2013 to 28.02.2015. Vendors are requested to verify this list for use after
28.02.2015.

SCHEDULE NO	COUNTRY	CURRENCY CODE	AIRPORT
D01	UK	GBP	LONDON (HEATHROW)
D02	UK	GBP	NEW CASTLE
D03	UK	GBP	OXFORD. CHETLAM
D04	UK	GBP	BRISTOL. WELLINGBOROUGH
D05	UK	GBP	BIRMINGHAM
D06	UK	GBP	EAST MIDLANDS
D07	UK	GBP	MANCHESTER
D08	UK	GBP	LEEDS
D09	UK	GBP	GLASGOW
D10	FRANCE	EURO	PARIS (ROISSY) & LYON
D11	SWEDEN	EURO	STOCKHOLM
D12	SWEDEN	EURO	GOTHENBERG & MALMO
D13	ITALY	EURO	ROMA, MILAN
D14	ITALY	EURO	TURIN, BOLOGNA, FLORENCE
D15	NETHERLANDS	EURO	AMSTERDAM, ROTTERDAM
D16	AUSTRIA	EURO	VIENNA, LINZ, GRAZ
D17	BELGIUM	EURO	ANTWERP, BRUSSELS
D18	DENMARK	DKK	COPENHAGEN
D19	JAPAN	JPY	TOKYO, OSAKA
D20	SINGAPORE	SGD	SINGAPORE
D21	CANADA	CAD	TORONTO
D22	CANADA	CAD	MONTREAL
D23	USA	USD	NEW YORK, BOSTON
D24	USA	USD	CHICAGO
D25	USA	USD	SAN FRANCISCO, LOS ANGELES
D26	USA	USD	ALANTA, HOUSTON
D27	GERMANY	EURO	MUNICH, KOLN, DUSSELDORF, HANNOVER, HAMBURG, STUTTGART, DAMSTADT, MANIHIEM, NURUMBERG
D28	GERMANY	EURO	FRANKFURT
D29	GERMANY	EURO	BERLIN
D30	SWITZERLAND	SFR	BASLE, ZURICH, GENEVA
D31	SPAIN	EURO	BARCELONA
D32	AUSTRALIA	AUD	SYDNEY
D33	AUSTRALIA	AUD	MELBOURNE
D34	AUSTRALIA	AUD	PERTH
D35	CZECH	EURO	PRAGUE
D36	HONG KONG	HKD	HONG KONG
D37	NEW ZELAND	NZD	AUCKLAND
D38	RUSSIA	USD	MOSCOW
D39	SOUTH KOREA	USD	KIMPO INTERNATIONAL, INCHEON
D40	FINLAND	EURO	HELSINKI
D41	ROMANIA	EURO	BUCHAREST
D42	NORWAY	EURO	OSLO
D43	IRELAND	EURO	DUBLIN
D44	ISRAEL	USD	TEL AVIV
D45	UAE	USD	DUBAI
D46	OMAN	USD	MUSCAT
D47	EGYPT	USD	CAIRO
D48	TAIWAN	USD	TAIPEI
D49	UKRAINE	USD	KIEV
D50	CHINA	USD	SHANGHAI, SHENZHEN
D51	PHILIPINES	USD	MANILA
D52	MALAYSIA	USD	KUALALUMPUR, PE NANG
D53	CYPRUS	USD	LARNACA
D54	SOUTH AFRICA	USD	JOHANNESBERG, DURBAN
D55	SLOVAKIA	EURO	BARTISLOVA
D56	SAUDI ARABIA	SAR	RIYADH
D57	TURKEY	EURO	ISTANBUL
D58	THAILAND	USD	BANGKOK
D59	BRAZIL	USD	SAO PAULO, RIO DE JANEIRO

ANNEXURE – II
DISCREPANCY IN WORDS & FIGURES – QUOTED IN PRICE BID

Following guidelines will be followed in case of discrepancy in words & figures-quoted in price bid:

(a) If, in the price structure quoted for the required goods/services/works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.

(b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and

(c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

(d) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.

ANNEXURE-III
GUIDELINES FOR REVERSE AUCTION PROCEDURE

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 (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit "online sealed bid" in the Reverse Auction. Non-submission of "online sealed bid" by the bidder for any of the eligible items for which techno-commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.
3. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
6. Bidders have to fax the Compliance form before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.
7. In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" 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) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.
8. Reverse auction will be conducted on scheduled date & time.
9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
10. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, as provided on case-to-case basis to Service provider within two working days of Auction without fail.
11. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL's standard practice.
12. Bidders shall be required to read the "Terms and Conditions" section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the "Business Rules of Reverse Auction", which will be communicated before the Reverse Auction.
13. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.
14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
15. In case BHEL decides to go for reverse auction, the H1 bidder (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

ANNEXURE - IV
Electronic Funds Transfer (EFT) OR
Paylink Direct Credit Form

Please Fill up the form in **CAPITAL LETTERS** only.

TYPE OF REQUEST(Tick one): ☐ CREATE ☐ CHANGE

BHEL Vendor / Supplier Code:	
Company Name :	
Permanent Account Number(PAN):	
Address	

City:	PINCODE	STATE
-------	---------	-------

Contact Person(s)	
Telephone No:	
Fax No:	
e-mail id:	

1 Bank Name:	
2 Bank Address:	
3 Bank Telephone No:	
4 Bank Account No:	
5 Account Type: Savings/Cash Credit	
6 9 Digit Code Number of Bank and branch appearing on MICR cheque issued by Bank	
7 Bank IFSC Code(applicable for NEFT)	
8 Bank IFSC code(applicable for RTGS)	(Indian Financial System Code)

- A I hereby certify that the particulars given above are true, correct and complete and that I, as a representative for the above named Company, hereby authorise BHEL, EDN, Bangalore to electronically deposit payments to the designated bank account.
- B If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL / transferring Bank responsible.
- C This authority remains in full force until BHEL, EDN, Bangalore receives written notification requesting a change or cancellation.
- D I have read the contents of the covering letter and agree to discharge the responsibility expected of me as a participant under ECS / EFT.

Date:

Authorised Signatory:

Designation:

Telephone No. with STD Code

Company Seal

Bank Certificate

We certify that _____ has an Account No _____ with us and we confirm that the bank details given above are correct as per our records.

Date: _____ (.....)
Place: _____ Signature

Please return completed form **along with a blank cancelled cheque or photocopy** thereof to:

Bharath Heavy Electricals Ltd,

Attn:

Electronics Division, Mysore Road,

BANGALORE - 560 026

In case of any Query, please call concerned purchase executive.

ANNEXURE - V
PRESENT PROCEDURE FOR SALE IN TRANSIT (HIGH SEA SALES)

In case of High Sea Sales, vendor should submit following documents:

1. ORIGINAL HIGH SEA SALES AGREEMENT

- Sale agreement (on Rs. 200/- non-judicial stamp paper & notarised with 2 witnesses with identity) has to be signed between BHEL and the Party importing material. The date of the sale documents should be in between the date of House Air Way Bill / Bill of Lading and before landing of the goods in Indian origin.
- The date of the stamp paper should be prior to the Air Way Bill / Bill of Lading date.
- Following shall be included in the High Sea Sales Agreement:
“THE BUYER ALSO UNDERTAKE DISCHARGES, THE OBLIGATION AND FULFILLMENT OF CONDITIONS, IF ANY, ATTACHED TO THE IMPORTATION, ASSESSMENT AND CLEARANCE OF THE GOODS IN TERMS CUSTOMS TARIFF ACT 1975, THE CUSTOMS ACT 1962 & RULES & REGULATIONS MADE THERE UNDER AND OTHER RELEVANT ACTS, ORDERS, NOTIFICATIONS”.

2. ORIGINAL INVOICES: INDIGENOUS RUPEE INVOICE & FOREIGN CURRENCY INVOICE

- Prices should be C.I.F., designated airport/seaport basis.
- I.E.C., C.S.T., K.S.T. Nos. to be mentioned.
- Description of item (Nomenclature), Unit & Quantity in both the Foreign Currency & the Indigenous Invoice in Rupee shall be exactly as per Purchase Order Description of item, Quantity and Unit. The Indigenous Invoice value shall be exactly as per Purchase Order value.
- Seller should give Foreign Currency Invoice from the original consignor. The Foreign Currency Invoice value should be at least 2% (two per cent) less than the Indigenous Rupee Invoice value in equivalent foreign currency.

4. ORIGINAL HOUSE AIR WAY BILL/ BILL OF LADING

- The sale agents should duly endorse House Air Way Bill (HAWB) for air shipments or original Bill of Lading (O.B.L.) for sea shipments and Foreign Currency Invoice in favour of BHEL-EDN.

5. ORIGINAL CARGO ARRIVAL NOTICE FROM FORWARDER.

6. ORIGINAL DELIVERY ORDER ISSUED IN NAME OF BHEL-EDN.

7. ORIGINAL PACKING LIST.

8. A LETTER TO THE COMMISSIONER OF CUSTOMS FOR EFFECTING ABOVE SALE.

9. A LETTER TO THE DEPUTY ASSESSOR (OCTROI) FOR EFFECTING ABOVE SALE IN FAVOUR OF BHEL.

REMARKS: In case vendor needs any clarifications on the above, the same may be sought in writing.

Annexure-VI
BHEL MEMBER BANKS (LIST OF CONSORTIUM BANKS)

BANK GUARANTEE (BG) SHALL BE ISSUED FROM THE FOLLOWING BANKS ONLY:

	Nationalised Banks		Nationalised Banks
1	Allahabad Bank	19	Vijaya Bank
2	Andhra Bank		Public Sector Banks
3	Bank of Baroda	20	IDBI
4	Canara Bank		Foreign Banks
5	Corporation Bank	21	CITI Bank N.A
6	Central Bank	22	Deutsche Bank AG
7	Indian Bank	23	The Hongkong and Shanghai Banking Corporation Ltd. (HSBC)
8	Indian Overseas Bank	24	Standard Chartered Bank
9	Oriental Bank of Commerce	25	The Royal Bank of Scotland N.V.
10	Punjab National Bank	26	J P Morgan
11	Punjab & Sindh Bank		Private Banks
12	State Bank of India	27	Axis Bank
13	State Bank of Hyderabad	28	The Federal Bank Limited
14	Syndicate Bank	29	HDFC Bank
15	State Bank of Travancore	30	Kotak Mahindra Bank Ltd
16	UCO Bank	31	ICICI Bank
17	Union Bank of India	32	IndusInd Bank
18	United Bank of India	33	Yes Bank

Note:

- All BGs must be issued from BHEL consortium banks listed above.
- BHEL may accept BG from other Nationalised Banks also which are not listed above.
- BG will not be accepted from Scheduled Banks and Co-operative Banks.
- In case BG is issued from a bank located outside Indian territory and is issued in foreign currency, the BG must be routed through and confirmed by any one of the above mentioned consortium banks or any of the Indian Public Sector Banks.
- This list is subject to changes. Hence vendors are requested to check this list every time before issuing BGs.

ANNEXURE-VII

BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited ¹ (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____ through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) having its registered office at _____ ² hereinafter referred to as the 'Contractor/Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated³ valued at Rs.....⁴ (Rupees -----)/FC.....(in words.....) for⁵ (hereinafter called the 'Contract') and the Contractor having agreed to provide a Contract Performance Guarantee, equivalent to% (.... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

we,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer a maximum amount Rs ----- (Rupees -----) without any demur, immediately on a demand from the Employer, .

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. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor/ Supplier in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the contractors/supplier shall have no claim against us for making such payment.

We thebank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We BANK further agree with the Employer that the Employer 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 Contract or to extend time of performance by the said Contractor/Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Contractor/Supplier and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor/Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Contractor/Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's liabilities.

This Guarantee shall remain in force upto and including.....⁶ and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Contractor/Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the⁷we shall be discharged from all liabilities under this guarantee thereafter.

We, BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....⁸
- b) This Guarantee shall be valid up to⁹

c) Unless the Bank is served a written claim or demand on or before _____¹⁰ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

¹ NAME AND ADDRESS OF EMPLOYER I.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ PROJECT/SUPPLY DETAILS

⁵ BG AMOUNT IN FIGURES AND WORDS

⁶ VALIDITY DATE

⁷ DATE OF EXPIRY OF CLAIM PERIOD

⁸ BG AMOUNT IN FIGURES AND WORDS.

⁹ VALIDITY DATE

¹⁰ DATE OF EXPIRY OF CLAIM PERIOD

ANNEXURE-VIII

Note for performance bank guarantee:

1. To be executed in Rs. 100/- Non-Judicial stamp paper.
2. To be submitted by issuing bank to Purchase Dept. directly. Please give BHEL address to banker.
3. Do not enclose with Bank document.
4. Modifications and additions/deletions to this BG format shall not be permitted.
5. **In Case of Bank Guarantees submitted by Foreign Vendors-**
 - a. **From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
 - b. **From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
 - b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank (BHEL's Consortium Bank). It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
 - b.2 **In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank** (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
 - b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.
 - b.4 The BG should clearly specify that the demand or other document can be presented in electronic form.

Annexure - IX
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 Industries vide its notification No.S.O.1722 (E) dated October 5, 2006:
- 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 in 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

Guidelines for Indian Agents
ANNEXURE - X

- Definition of Indian Agent: An Indian Agent of foreign principal is an individual, a partnership, an association of persons, a private or public company, that carries out specific obligation(s) towards processing of BHEL tender or finalization or execution of BHEL's contract on behalf of the foreign supplier.

In case of yes, vendor to note the following and reply accordingly:

- 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-B (copy enclosed). 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.

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.

--X--

Vendor's Signature with Seal

Guidelines for Indian Agents of Foreign Suppliers

- 1.0 There shall be compulsory registration of agents for all Global (Open) Tender and Limited Tender. An agent who is not registered with BHEL shall apply for registration in the registration form in line with SEARP.
- 1.1 Registered agents will file an authenticated Photostat copy duly attested by a Notary Public/Original certificate of the Principal confirming the agency agreement and giving the status being enjoyed by the agent and the commission/ remuneration/ salary/ retainerhip being paid by the principal to the agent before the placement of order by BHEL.
- 1.2 Wherever the Indian representatives have communicated on behalf of their principals and the foreign parties have stated that they are not paying any commission to the Indian agents, and the Indian representative is working on the basis of salary or as retainer, a written declaration to this effect should be submitted by the party (i.e. Principal) before finalizing the order.
- 2.0 **Disclosure of particulars of agents/ representatives in India, if any.**
- 2.1 Tenderers of Foreign nationality shall furnish the following details in their offers:
 - 2.1.1 The Bidder(s)/ Contractor(s) of foreign origin shall disclose the name and address of the agents/ representatives in India if any and the extent of authorization and authority given to commit the Principals. In case the agent/ representative be a foreign Company, it shall be confirmed whether it is existing Company and details of the same shall be furnished.
 - 2.1.2 The amount of commission/ remuneration included in the quoted price(s) for such agents/ representatives in India.
 - 2.1.3 Confirmation of the Tenderer that the commission/ remuneration, if any, payable to his agents/ representatives in India, may be paid by BHEL in Indian Rupees only.
- 2.2 Tenderers of Indian Nationality shall furnish the following details in their offers:
 - 2.2.1 The Bidder(s)/ Contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any, indicating their nationality as well as their status, i.e. whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal specifically authorizing the agent to make an offer in India in response to tender either directly or through the agents/ representatives.
 - 2.2.2 The amount of commission/ remuneration included in the price (s) quoted by the Tenderer for himself.
 - 2.2.3 Confirmation of the foreign principals of the Tenderer that the commission/ remuneration, if any, reserved for the Tenderer in the quoted price(s), may be paid by BHEL in India in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Stores and Spares in case of operation items.
- 2.3 In either case, in the event of contract materializing, the terms of payment will provide for payment of the commission/ remuneration, if any payable to the agents/ representatives in India in Indian Rupees on expiry of 90 days after the discharge of the obligations under the contract.
- 2.4 Failure to furnish correct and detailed information as called for in paragraph 2.0 above will render the concerned tender liable to rejection or in the event of a contract materializing, the same liable to termination by BHEL. Besides this there would be a penalty of banning business dealings with BHEL or damage or payment of a named sum.

Disclaimer Certificate For Deemed Export Benefits

I, (Name & Designation)on behalf of M/s. (Name and address of the supplier) hereby certify that we have supplied the following goods to M/s..... (Name and address of the recipient):

S.No.	Inv. No. & date	Description of goods	Unit	Qty.	Value

1. We are the manufacturer exporters/suppliers and are registered/not registered with Central Excise and have not availed and will not avail CENVAT facility in respect of the input/components used in aforesaid supplies. We have also not availed and will not avail rebate on the inputs/components used in aforesaid supplies.

OR

We are the suppliers and our supporting manufacturer(s) is/are registered/not registered with Central Excise and have not availed and will not avail CENVAT facility in respect of the inputs/components used in aforesaid supplies.

2. We also certify that we have not been issued any Advance Authorization/Duty Free Import Authorization in respect of the aforesaid supplied goods and have not availed any benefit thereon.

3. We further state that we have not drawn nor will draw any benefit for deemed export and we have no objection if M/s..... (Name and address of the recipient) draws the deemed export benefits on the supplies mentioned above. (Required to be given in case benefits are claimed by recipient of goods).

OR

We have not given disclaimer certificate to M/s..... (Name and address of the recipient) and will not give disclaimer certificate, in future, in respect of these supplies for claiming deemed export benefits (Required to be given in case benefits are claimed by DTA suppliers).

GUIDELINES FOR QUOTING IN E-PROCUREMENT SYSTEM

- 1. Wherever item required is one set, vendor has to mandatorily give break-up of items as per Bill of material of specification (Including spares) in Techno-commercial bid as attachment and Break-up price for each item in price bid as attachment. In case of difference in total as per Break-up price given and EPS portal price bid, price quoted in EPS portal price bid only will be final and considered for evaluation.**
2. Vendor is requested to fill up the "Global Discount" column of the e-tender price bid if any discount to be offered for consideration of price evaluation. Discount mentioned anywhere else will deemed to be invalid.
3. Price quoted by vendors in the EPS portal price bid will be final and other price quoted anywhere else in the attachment will deemed to be invalid.
4. Final comparative statement will subject to evaluation considering the other price impacts like loading factor and project benefits (refer attached special commercial conditions for project benefit).
5. Any technical or commercial clarification for this tender can be raised on or before **13.08.2016**. No clarification will be entertained by BHEL after given cutoff date.
6. Applicable special commercial condition for the tender is attached along with tender documents. Submit duly filled and signed SCC along with your offer. Commercial terms quoted in SCC only will be considered for evaluation.