


REQUEST FOR QUOTATION

	BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA	RFQ NUMBER: ANK0000211 RFQ DATE : 17.01.2019	Due Date/Day: 30.01.2019 WED Time : 13:00 HRS Tender Box : Reception Area Opening Venue: NEW ENGG. BLDG
MMI:PU:RF:003	(address for communication) :		(for all correspondence)
		Purchase Executive : Ankita Reja Phone : 08025146134 Fax : E-mail: ankitareja@bhel.in	

1. Please drop your offer before due date & time in the tender at the reception of BHEL-ESD, Electronic city-1, Bangalore.
2. Offers by e-mail are also accepted. The offers by Email shall be sent to Email ID defnesdmm@bhel.in with subject line RFQ: ANK0000211.
3. Quotations and Items should be delivered to:
 BHEL-ESD,
 PLOT NO 98,
 ELECTRONIC CITY PHASE 1,
 HOSUR ROAD,
 BANGALORE-560100,
 KARNATAKA.
4. The following are the attachments along with the RFQ:
 - RFQ Special instructions
 - Pre-Qualification Criteria Ref: PQ-460-014 & Purchase Specification Ref: PS-460-0174
 - Commercial clarifications sheet (To be submitted along with offer)
 - Unpriced bid format (Price bid to be submitted in this format. Unpriced bid should be submitted as part of Part-II bid)
 - Instructions to Bidders and General Commercial Conditions of Contract

SI No.	Description	Qty	Unit	Delivery qty	Delivery Date
1	DS0830006110 LCP Enclosures for 3.5MW TA * HSN/SAC : 9032 Local Control Panel (LCP) Enclosures for 3.5MW TA as per BHEL PS-460-0174	1	ST	1	03.04.2019

Total Number of Items - 1

- 1.
- 2.

TWO PART BID - SUBMIT TECHNICAL AND PRICE BID IN SEPARATE SEALED COVERS

NOTES :

- 1.This RFQ is Governed by :
 - a)INSTRUCTIONS TO BIDDERS/SELLERS(Doc No :BHEL:EDN:ITB-SHOP) available at **www.bheledn.com (RFQ-PO Terms & Conditions)**
 - b)GENERAL CONDITIONS OF CONTRACT FOR PURCHASE(Doc no :BHEL:EDN:GCC-SHOP) available at **www.bheledn.com (RFQ-PO Terms & Conditions)**
 - c)Any other specific Terms and Conditions mentioned.
 2. Bidders / Representatives who would like to be present during opening of offers are required to furnish authorization letter for the same .
- * The HSN/SAC no mentioned against the line items in the RFQ are indicative only.

For and On behalf of BHEL.

Ankita Reja
 Contrl Eqpm - ESD

1 OF 1

RFQ No. ANK0000211 - SPECIAL INSTRUCTIONS

1. The quotation is to be submitted in three part bids: “Pre-Qualification Bid”, “Techno-commercial bid” & “Price Bid” separately. Bid Shall Be Submitted as per the Instruction given In ITB & GCC - Instructions to bidders (Doc No : BHEL:EDN:ITB-SHOP) & General Terms and conditions (Doc No : BHEL:EDN:GCC-SHOP). All Supporting documents related to PQC shall be enclosed in Pre-Qualification Bid
2. Please drop your offer before due date & time in the tender box named “**WEDNESDAY**” kept at the reception of BHEL-ESD, Electronic city, Bangalore.
3. QUOTATIONS SHOULD BE SENT TO:
BHEL-ESD, PLOT NO. #98, ELECTRONIC CITY PHASE 1, HOSUR ROAD, BANGALORE- 560100.
4. Offers by e-mail are also accepted. Offers by email should contain separate files for techno-commercial, PQC and price bids. The offers by Email shall be sent to Email ID defnesdmm@bhel.in with the subject ANK0000211_30.01.2019_Wednesday_LCP Enclosures.
5. Tender opening Time is 01:30 PM on the tender due date, Place: Tender opening room @ BHEL-ESD, Electronic city Phase-1, Bangalore.
6. Please indicate the price both in figures and words clearly.
7. Please quote Price Bid As Per Price Bid Format Enclosed.
8. Please Submit Unpriced Bid (Copy Of Price Bid After Hiding Price) Along With Technical Bid.
9. Any deviations from or additions to the ITB & GCC - Instructions to bidders (Doc No: BHEL:EDN:ITB-SHOP) & GCC - Instructions to bidders (Doc No: BHEL:EDN:ITB-SHOP) require BHEL's express written consent. The general terms of business or sale of the bidder shall not apply to this tender.
10. Non acceptance / deviations if any to the terms and conditions of the RFQ shall be clearly and explicitly mentioned in the offer, otherwise it will be treated that all the terms and conditions of the RFQ are accepted by the bidder in total.
11. Items belong to LCP for 3.5MW TA project.
12. Items to be manufactured as per BHEL PS-460-0174.
13. Documents to be submitted along with the PQC are specified in PQC.
14. The Data sheets of all bought out items to be submitted along with technical offer.
15. Supplier had to give clause wise compliance to PS-460-0174 along with technical offer.
16. The supplier has to offer raw material for inspection within 2 weeks from date of PO.
17. Delivery: 12 weeks from the date of Purchase order.
18. Warranty as per clause 13 of PS-460-0174.
19. Items should be delivered to
BHEL-ESD,Plot #98,
Electronic City Phase 1,
Hosur Road,Bangalore- 560100.



**PRE-QUALIFICATION CRITERIA
DEFENCE ENGINEERING**

PQ-460-014

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**PQC For LCP Enclosures
Of 3.5MW TA
(DS0830006110)**

APPROVED

PREPARED

ISSUED

DATE

07-01-2019



PRE-QUALIFICATION CRITERIA DEFENCE ENGINEERING

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PQC For LCP Enclosures of 3.5MW TA.

1.0 PRE-QUALIFICATION CRITERIA (PQC)


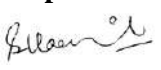
The supplier shall necessarily meet the following conditions.

Sl. No	Particulars	Supplier's Confirmation (Y/N)
1	The vendor shall be an Original Equipment Manufacturer (OEM)	
2	The vendor shall have the fabrication facilities to manufacture SS316L enclosures.	
3	The vendor shall have atleast 2 (two) certified TIG welders. <i>TIG welder's qualification certificate to be submitted.</i>	
4	The vendor shall have experience of supplying enclosures to atleast 2 (two) defence customers. <i>Reference / PO copy of the customers to be submitted along with technical offer.</i>	
5	The annual Financial Turnover of the bidder in the preceding 2 (two) financial years as on 31.03.2018 shall be at least 2 (Two) Crores/year. <i>Supporting document to be furnished along with technical offer.</i>	

Note:

- 1) The Pre-Qualification Criteria (PQC) are mandatory requirements and the technical bid will be considered only if all the above PQC are met.
- 2) All Supporting documents related to PQC Sl. No. 3, 4 & 5 shall be enclosed in techno-commercial offer.
- 3) Due to large size of drawings, the drawings are not included. Interested vendors who are willing to participate in enquiry can contact BHEL for detailed drawings.
- 4) Contact Details:
 - a) Mr. B Mallaiah, Manager/DABG-Engg (mallaiah@bhel.in, 080-25146161 & 9449869810)
 - b) Mr. Baradhi P, AGM/DABG-Engg (baradhi@bhel.in, 080-25146163 & 99720 60345)
 - c) Mrs. Ankita Reja, Sr. Engr/MM-ESD (ankitareja@bhel.in, 080-25146134)

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09-201 Rev No. 01	Form No.		PRODUCT STANDARD DEFENCE ENGINEERING		PS-460-0174 Rev No. 00 Page 1 of 13
<p style="text-align: center;"> Purchase Specification For Local Control Panel (LCP) Enclosures of 3.5MW TA (DS0830006110) </p>					
Ref. Doc	Revisions : Refer to record of revisions :		Prepared :  B Mallaiah	Approved :  S Parandaman	Date: 29-12-2018

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RECORD OF REVISIONS				
Rev. No.	Date	Revision Details	Revised By	Approved By
00	29-12-2018	Initial Release	B Mallaiah	S Parandaman


09-201 Rev No. 01	Form No.	 <p style="text-align: center;">PRODUCT STANDARD DEFENCE ENGINEERING</p>	PS-460-0174 Rev No. 00 Page 3 of 13
<p style="text-align: center;">COPYRIGHT AND CONFIDENTIAL</p> <p>The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company .</p>		<p><u>CONTENTS</u></p> <ol style="list-style-type: none"> 1. Intent of Specification 2. Scope of supply 3. Exclusions 4. Free supply items by BHEL if any to be mounted 5. Applicable Standards and Tests 6. Technical requirements 7. Supplier documentation 8. Quality assurance plan 9. Packaging and forwarding 10. Testing and Inspection 11. Enclosures 12. Confidentiality & Non-Disclosure Agreement 13. Warranty 14. Annexure – A 	
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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.		<p>1. INTENT OF SPECIFICATION</p> <p>1.1 This specification covers manufacture, stage inspection by owner or their authorized representatives & testing of Local Control Panel (LCP) Enclosure for naval (onboard naval systems) applications.</p> <p>1.2 It is not the intent to specify completely herein all the details of design and construction of equipment. However, the equipment shall be complete in all respects conforming to high standards of components which may not have been specifically mentioned, but are essential for satisfactory and trouble free operation/maintenance of the equipment.</p> <p>1.3 The supplier while quoting shall go through the specifications in detail and all the attachments thereof and furnish all documentation as indicated elsewhere in the specification. Deviations from specifications, if any, should be clearly specified. Compliance shall be assumed if not mentioned otherwise.</p> <p>1.4 The scope of supply also includes final packing of the Enclosure and dispatch to BHEL – Electronics System Division (ESD), Bangalore.</p> <p>1.5 The material, constructional & testing requirement of LCP shall confirm to the specified standards.</p> <p>2. SCOPE OF SUPPLY: (REFER ANNEXURE – A)</p> <p>2.1 Local Control Panel (LCP) enclosure majorly consists of following items as given below,</p> <ol style="list-style-type: none"> 1. Enclosures <ol style="list-style-type: none"> (a) Combined Breaker & Control Unit Enclosure (b) Transformer Enclosure 2. Name plates 3. EMI/EMC Gasket (Part No. 209-1301.00-L2006, Dirak make) 4. IP Gaskets (Part No.225-1008, Dirak make) <p>2.2 Other items to be mounted / used in the LCP enclosures are,</p> <ol style="list-style-type: none"> 1. Bushes 2. Studs 3. Fasteners 	
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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.		<ol style="list-style-type: none"> 4. Door Hinges (Part No.218-9303, Dirak make) 5. Dish Handle (Part No. 213-0705.51, Dirak make (for Door thickness of 2mm)) 6. DIN Rail (EN50022, 35x15) 7. Eyebolts etc. <p>Annexure – A contains the list of drawings required for the manufacture of LCP enclosures.</p> <p>Scope of supply of the supplier will also cover</p> <ol style="list-style-type: none"> 1. Raw Material Testing (only for metal sheets) 2. Manufacture 3. Assembly 4. Surface Preparation and Painting 5. Inspection 6. Packaging & Forwarding to BHEL-ESD premises <p>This shall include sourcing of mechanical Commercial-off-the-Shelf (COTS) components like Hinges, eye-bolts, fasteners, rivets, EMI/EMC gaskets, IP gaskets etc., as specified in the relevant drawings for the enclosures.</p> <p>Note: For detailed process of painting and preservative packaging please refer to documents “BHEL-NC-DMDE01” and “BHEL-NC-DMDE02” respectively.</p> <p>3. EXCLUSIONS</p> <p style="text-align: center;">---Nil---</p> <p>4. Free supply items to be mounted in the equipment</p> <p>4.1 The following items shall be provided by BHEL and are to be checked for mounting by the vendor as per the mounting arrangement drawings attached to this specification.</p> <ol style="list-style-type: none"> a) Panel PC (sample)* b) GRP & Master Trip relay (sample)* c) Panel meters, Lamps, Switches & Push buttons (sample)* d) Cable Glands (sample)* 	
	Ref. Doc		<p><i>*Items a, b, c & d given above shall be provided on returnable basis. Only required number of such components will be provided to supplier in order to check for proper fitment of the same.</i></p>

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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.		<p>5. Applicable Standards and Tests:</p> <p>5.1 All components used in the enclosures should be such that the enclosure can withstand the following environmental / mechanical conditions.</p> <p style="padding-left: 40px;">Protection class: IP23 (Minimum) as per IEC 60529</p> <p>5.2 The supplier has to provide raw material test certificate (Chemical Analysis and Hardness Test) for sheet metal of all thickness used, 1 sample each per heat / batch from NABL accredited labs. The raw material testing (Chemical & Mechanical) will be witnessed by BHEL's customer. Further OEM's Certificate of Conformity (COC) for bought out items (like Hinges, eye-bolts, fasteners, rivets, gaskets, etc.) is to be provided.</p> <p>5.3 In addition to the above conformance, supplier has to provide 3 numbers of representative samples of each item for subjecting to salt corrosion and mould growth test. Also the supplier has to provide 3 no. each of the representative samples raw material sheets and painted samples of size 5"x5".</p> <p>5.3a Representative samples are for the total number of enclosures under scope of supply.</p> <p>6. Technical Requirements:</p> <p>a) The requirement of LCP enclosure is for naval (onboard naval systems) applications. The enclosure is to be fabricated using material SS316L (Stainless Steel) unless otherwise specified in the relevant drawings listed at Annexure - A. The other materials within scope of supply of supplier should also be as per the relevant drawings listed in Annexure – A.</p> <p>b) The LCP enclosure shall be fabricated as per Manufacturing Drawings and assembled as per Assembly Drawings provided in Annexure – A.</p> <p>c) The supplier has to supply enclosure with all required mechanical components as detailed in the specification.</p> <p>d) The thickness of all the materials that goes into the making of the enclosure to be strictly followed as per the individual drawings supplied by BHEL and drawing numbers mentioned at Annexure – A.</p> <p>e) All Channels & angles used in enclosure to be bent from SS316L sheets only.</p> <p>f) Unless otherwise mentioned in the drawing, dimensional tolerances are to be followed as per the document BHEL Plant Std. ED 023 04 99.</p> <p>g) The supplier has to use the Hinges / rivets / fasteners / gaskets / adhesives as mentioned in the relevant drawings from the same manufacturer / equivalent.</p> <p>h) The supplier has to follow the operational procedures exactly as mentioned in the drawings such as welding, riveting, etc. The supplier has to ensure that no deformation takes place due to overheating caused by welding. The welding process</p>	
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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.		<p>have to be carried out in controlled manner. The supplier has to carry out weld DPT which will be witnessed by BHEL's customer.</p> <p>i) Unless otherwise mentioned in the drawing, all junction point or edge due to bending operation has to be filled with welding material. Every junction must be water proof. Welding material in excess must be removed by grinding tool. Continuous electric welding on all external perimeters, external areas of body shall not show evidences of welding as shown in respective drawings. Specific lengths of internal welding are to be made as per the drawing supplied by BHEL.</p> <p>j) The welding to be carried out by TIG welding process, by a qualified welder and the weld material shall be suitable for base material SS316L.</p> <p>k) The supplier has to exactly follow the welding dimensions and length of welding as mentioned in the relevant drawings.</p> <p>l) The notes related to different process steps given in the individual drawings are to be strictly followed. In case of any non-compliance to the guidelines shall be brought to the notice of BHEL and prior consent to be taken from BHEL before proceeding for further assembly.</p> <p>m) The supplier has to ensure the uniformity & straightness of the enclosures after welding. The supplier also has to ensure that there are no machining burrs and sharp corners and to be removed or trimmed.</p> <p>n) The painting color of the enclosure is Eau-di-Nil (Code No 216 as per IS 5). Finishing and painting shall be as per the document "BHEL-NC-DMDE01".</p> <p>Note: <i>The drilling / cut out / Engraving / Screen Printing / Marking details of gland plate & Front Plates will be provided later. The fabrication of this plate will not be carried out without consent of BHEL.</i></p> <p style="text-align: center;"><i>Any Cut-outs internal or external to be made only with the consent of BHEL.</i></p> <p>7. Supplier Documentation:</p> <p>a) As part of Technical Proposal, supplier has to provide a point wise compliance to each of the clauses of this specification document.</p> <p>b) Welder qualification certificate (WPS & PQR) to be submitted along with technical proposal.</p> <p>c) OEM's data sheets of all components (in the scope of supplier), satisfying the requirements stated in this document shall be furnished by supplier to BHEL along with the Technical Offer.</p> <p>d) During the execution of the project, supplier shall maintain version controlled documentation process related to manufacturing process and to be shared as and when required by BHEL including any approved deviations.</p>	
	Ref. Doc		

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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.		<p>8. Quality Assurance Plan : The Quality Assurance Plan to be followed as per “BHEL-NC-DMDE03” document.</p> <p>9. Packaging & Forwarding: The packaging and forwarding shall be as per “BHEL-NC-DMDE02” document.</p> <p>10. Testing & Inspection: The supplier has to provide raw material test certificate (Chemical & Mechanical) for sheet metal from NABL accredited labs and OEM's Certificate of Conformity (COC) for bought out items (like eye-bolts, fasteners, rivets, gaskets, etc.). In addition to the above conformance, supplier has to provide 3 numbers of representative samples of each item for subjecting to salt corrosion and mould growth test. Also the supplier has to provide 3 no. each of the representative samples raw material sheets and painted samples of size 5”x5” (refer clause 5.2, 5.3 & 5.3a). The supplier has to inform BHEL at least 3 days in advance for stage inspection after each process – viz., raw material inspection/stamping, fabrication and painting before starting the subsequent process. The next process can only be started after clearance from BHEL. Supplier has to facilitate inspection from BHEL’s customer at any stage of the project. During the manufacturing process, any ambiguity or lack of information related to any process step as observed by supplier to be resolved in consultation with BHEL.</p> <p>11. Enclosures:</p> <ol style="list-style-type: none"> 1) Drawings, List of additional items & List of fasteners as per Annexure – A 2) Finishing (Painting) as per BHEL-NC-DMDE01 (Annexure – B) 3) Preservative packaging as per BHEL-NC-DMDE02 (Annexure – C) 4) Quality Assurance Plan as per BHEL-NC-DMDE03 (Annexure – D) 5) Dimensional tolerances as per BHEL Plant Std. ED 023 04 99 (Annexure – E) 6) Plating as per BHEL Plant Std. ED 06 73 696 (Annexure – F) <p>12. Confidentiality & Non-Disclosure Agreement: The supplier has to enter into a Confidentiality and Non-Disclosure Agreement with BHEL to be eligible for participating in the bid and further execution of the contract / order.</p> <p>13. Warranty: The supplier has to give a warranty of the product for a period of 24 months from the date of supply. The warranty includes the repair/replacement of the defective parts/items at supplier works / BHEL / Onboard Ship. The cost of logistics for movement of parts / items for repair / replacement to be borne by the supplier.</p>	
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**Annexure – A
List of Drawings**

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	DOCUMENT DESCRIPTION	DOC. NO.	SL. NO.
	COMBINED BREAKER & CONTROL UNIT ENCLOSURE ASSY	36860300041	1
A	MECH ASSY (TA BREAKER UNIT)	36860300063	2
	1 MECH SUB-ASSY (TA BREAKER UNIT)	36860300064	3
	2 FRAME ASSY (TA BREAKER UNIT)	36860300065	4
	3 CORNER ASSY (FRONT LEFT)	36860300066	5
	4 CORNER ASSY (FRONT RIGHT)	36860300067	6
	5 CORNER ASSY (REAR LEFT)	36860300068	7
	6 CORNER ASSY (REAR RIGHT)	36860300069	8
	7 BOTTOM PLATE ASSY	36860300070	9
	8 TOP PLATE ASSY	36860300071	10
	9 DOOR-1 ASSY (FRONT TOP)	36860300072	11
	10 DOOR-2 ASSY (FRONT MIDDLE)	36860300073	12
	11 DOOR-3 ASSY (FRONT BOTTOM)	36860300074	13
	12 DOOR-4 ASSY (REAR TOP)	36860300075	14
	13 DOOR-5 ASSY (RIGHT SIDE)	36860300076	15
	14 FRONT DOORS HORIZONTAL SUPPORT ASSY	36860300077	16
	15 FRAME ASSY (TA BREAKER UNIT EXTN)	36860300078	17
	16 CORNER ASSY (FRONT LEFT EXTN)	36860300079	18
	17 CORNER ASSY (FRONT RIGHT EXTN)	36860300080	19
	18 CORNER ASSY (REAR LEFT EXTN)	36860300081	20
	19 CORNER ASSY (REAR RIGHT EXTN)	36860300082	21
	20 BOTTOM PLATE ASSY (TA BREAKER UNIT EXTN)	36860300083	22
	21 TOP PLATE ASSY (TA BREAKER UNIT EXTN)	36860300084	23
	22 DOOR-1 ASSY (LEFT & RIGHT EXTN)	36860300085	24
	23 DOOR-2 ASSY (REAR EXTN)	36860300086	25
	24 DOOR-3 ASSY (TOP EXTN)	36860300087	26
	25 FRAME ASSY (BREAKER SUPPORT)	36860300088	27
	26 FRAME ASSY (CT PHASE SIDE)	36860300089	28
	27 FRAME ASSY (CT NEUTRAL SIDE)	36860300090	29
	28 ANGLE PLATE ASSY-4	46860300052	30
	29 PLATE ASSY-1 (TB'S)	46860300053	31
	30 PLATE ASSY-2 (TB'S)	46860300054	32
	31 PLATE ASSY-3 (MCB)	46860300055	33
	32 CHANNEL (PT MOUNTING)	46860300056	34
	33 PLATE (PT MOUNTING)	46860300057	35
	34 INSULATOR CHANNEL-1	46860300058	36

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35	INSULATOR CHANNEL-2	46860300059	37
36	INSULATOR CHANNEL-3	46860300060	38
37	INSULATOR CHANNEL-4	46860300061	39
38	INSULATOR CHANNEL-5	46860300062	40
39	INSULATOR CHANNEL-6	46860300063	41
40	INSULATOR CHANNEL-7	46860300064	42
41	INSULATOR CHANNEL-8	46860300065	43
42	INSULATOR CHANNEL-9	46860300066	44
43	INSULATOR-1	46860300067	45
44	INSULATOR-3	46860300069	46
45	R-PHASE OUTPUT BUS BAR	46860300070	47
46	Y-PHASE OUTPUT BUS BAR	46860300071	48
47	B-PHASE OUTPUT BUS BAR	46860300072	49
48	R-PHASE OUTPUT BUS BAR FOR CABLES	46860300073	50
49	Y-PHASE OUTPUT BUS BAR FOR CABLES	46860300074	51
50	B-PHASE OUTPUT BUS BAR FOR CABLES	46860300075	52
51	R-PHASE INPUT BUS BAR	46860300076	53
52	Y-PHASE INPUT BUS BAR	46860300077	54
53	B-PHASE INPUT BUS BAR	46860300078	55
54	RN-PHASE BUS BAR	46860300079	56
55	YN-PHASE BUS BAR	46860300080	57
56	BN-PHASE BUS BAR	46860300081	58
57	BASE FRAME ASSY (TA BREAKER UNIT)	36860300093	59
58	NAME PLATE (TA BREAKER UNIT)	46860300089	60
59	NEUTRAL SHROTING BUS BAR	46860300092	61
B			
	MECH ASSY (TA CONTROL UNIT)	36860300042	62
1	MECH SUB-ASSY (TA CONTROL UNIT)	36860300043	63
2	FRAME ASSY (TA CONTROL UNIT)	36860300044	64
3	CORNER ASSY (FRONT LEFT)	36860300045	65
4	CORNER ASSY (FRONT RIGHT)	36860300046	66
5	CORNER ASSY (REAR LEFT)	36860300047	67
6	CORNER ASSY (REAR RIGHT)	36860300048	68
7	BOTTOM PLATE ASSY	36860300049	69
8	TOP PLATE ASSY	36860300050	70
9	DOOR-1 ASSY (FRONT TOP LEFT SIDE)	36860300051	71
10	DOOR-2 ASSY (FRONT TOP RIGHT SIDE)	36860300052	72
11	DOOR-3 ASSY (FRONT MIDDLE LEFT SIDE)	36860300053	73
12	DOOR-4 ASSY (FRONT MIDDLE RIGHT SIDE)	36860300054	74
13	DOOR-5 ASSY (FRONT BOTTOM)	36860300055	75



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14	DOOR-6 ASSY (LEFT SIDE)	36860300056	76
15	DOOR-7 ASSY (REAR SIDE)	36860300057	77
16	FRONT DOORS HORIZONTAL SUPPORT ASSY	36860300058	78
17	FRONT DOORS VERTICAL SUPPORT ASSY	36860300059	79
18	CHANNEL-1 (POWER SUPPLY)	46860300025	80
19	CHANNEL-2 (POWER SUPPLY)	46860300026	81
20	PLATE-1 (PS)	46860300027	82
21	PLATE-2 (PS)	46860300028	83
22	SUPPORT BRACKET-1 (PS)	46860300029	84
23	SUPPORT BRACKET-2 (PS)	46860300030	85
24	ANGLE PLATE ASSY-1	46860300031	86
25	ANGLE PLATE ASSY-2	46860300032	87
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List of Common / Additional items

SL.NO.	DESCRIPTION	DOC NO.	QTY
1	SPECIAL SCREW	46860300003	Refer to Assy drawings
2	HANDLE BOX	46860300004	Refer to Assy drawings
3	IP GASKET	46860300006	120m
4	RFI/EMI GASKET	46860300007	120m
5	DUST FILTER (IP5X)	46860300090	12m




List of Fasteners

LIST OF FASTENERS			
SL. NO.	DESCRIPTION	QTY	MATERIAL
1	ALLEN HEAD SCREW M4X12	20	SS304
2	ALLEN HEAD SCREW M5X16	20	SS304
3	ALLEN HEAD SCREW M5X20	160	SS304
4	ALLEN HEAD SCREW M6X20	200	SS304
5	ALLEN HEAD SCREW M8X30	200	SS304
6	ALLEN HEAD SCREW M10X15	75	SS304
7	ALLEN HEAD SCREW M10X45	100	SS304
8	ALLEN HEAD SCREW M10X60	50	SS304
9	HEX HEAD SCREW M12X50	75	SS304
10	HEX HEAD SCREW M12X80	30	SS304
11	HEX HEAD SCREW M12X120	120	SS304
12	HEX HEAD SCREW M12X130	15	SS304
13	PLAIN WASHER (ID 4.5mm)	40	SS304
14	PLAIN WASHER (ID 5.5mm)	360	SS304
15	PLAIN WASHER (ID 6.5mm)	400	SS304
16	PLAIN WASHER (ID 8.5mm)	400	SS304
17	PLAIN WASHER (ID 10.5mm)	350	SS304
18	SPRING WASHER FOR M4	20	SS304
19	SPRING WASHER FOR M5	180	SS304
20	SPRING WASHER FOR M6	200	SS304
21	SPRING WASHER FOR M8	200	SS304
22	SPRING WASHER FOR M10	175	SS304
23	DISC SPRING WASHER FOR M12	480	Corrosion resistant steel
24	HEX NUT M4	20	SS304
25	HEX NUT M5	180	SS304
26	HEX NUT M6	200	SS304
27	HEX NUT M8	200	SS304
28	HEX NUT M10	175	SS304
29	HEX NUT M12	240	SS304
30	STUD M5X15	50	SS304

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Annexure-B

 BHEL - ESD	BHEL - Electronics Systems Division	BHEL-NC-DMDE01	
	Finishing & Painting of Enclosures	REV: 01	Sheet: 1 of 5

DOCUMENT No **BHEL-NC-DMDE01**

REVISION **01**

TITLE **Finishing & Painting of Enclosures**

FILE FORMAT **MS WORD 2010/ PDF**

	Prepared by	Verified by	Approved by	Date of Issue
Name	Punit Sinha	B Mallaiah	S Parandaman	19 th Jun 2018
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Signature	<i>Punit Sinha</i>	<i>B Mallaiah</i>	<i>S Parandaman</i>	
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BHEL - Electronics Systems Division

BHEL-NC-DMDE01

Finishing & Painting of Enclosures

REV: 01

Sheet: 2 of 5

REVISION HISTORY

REVISION	DATE OF RELEASE	AUTHOR	REMARKS
00	19 th Jun 2018		INITIAL RELEASE
01	29 th Dec 2018		Surface preparation procedure revised


Prepared by: *Punit Sinha*

Date

19th Jun 2018

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 BHEL - ESD	BHEL - Electronics Systems Division Paint Finish For Enclosures	BHEL-NC-DMDE01	
		REV: 00	Sheet: 3 of 5

1. SCOPE

Purpose of this document is to describe the surface preparation, finishing and painting (**Colour: Eau-di-Nil**) methods to apply on the metallic parts of the Enclosures.

2. SURFACES PREPARATION PROCEDURES

Careful surface preparation is a must to ensure proper adhesion of the paint to the surface, which needs to be preserved. All metal surfaces must be clean and free from scale, rust, oxides and grease.


- a) Removal of corrosion by mechanical (Vacuum/ blasting/ rotary discs) or hand means (chipping/ wire brushing/emery). All surfaces where the thickness is greater than 3mm, corrosion is to be removed by blasting. In areas where the thickness is less than 3mm, where blasting is not feasible like in corners, etc., only mechanical cleaning by chipping / wire brushing followed by emery is to be carried out. Non-ferrous metallic surfaces are to be abraded with emery.
- b) Degreasing
- c) Drying
- d) Painting to be carried out on external surfaces only.
- e) For surfaces which have to be protected from the painting (masking), follow the notes of the drawings for each component with great care and anyway protect/mask screw holes, gasket areas, self-locating projection weld nuts and projection weld studs.

3. Application of Primer:

Primer is the first coat of paint which is applied on a prepared/ pre-treated surface which acts as a bond between the metal surface and the finishing coat of the paint scheme. The primer to be applied depends on the type of finishing paint to be used in the paint scheme. The primer to be used is:-

- a) Epoxy red oxide primer to NCD 1435 –All steel surfaces of equipment
- b) The primer is to be applied within 4 hours of completing the surface preparation. This is essential to prevent formation of rust / accumulation of dust over the surface prior to the application of the primer. Further humidity levels at the time of primer application should not exceed 75% and temperature should not be below 15⁰ C.

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 BHEL - ESD	BHEL - Electronics Systems Division Paint Finish For Enclosures	BHEL-NC-DMDE01	
		REV: 00	Sheet: 4 of 5

4. Application of finishing coat:

The finishing coat of a paint scheme is the actual layer of the paint which needs to be selected depending upon the type of surface and type of environment under which the surface needs to be preserved. The finishing paint to be used is:-

- a) Paint Epoxy Enamel two components glossy to IS 14209.


5. Precautions:

- a) Care must be taken to avoid damaging plated, anodic coatings, screw threads etc., during cleaning/ surface preparation.
- b) Surface should be absolutely dry before application of the paint scheme
- c) The primer has to be applied within 4 hours of completing the surface preparation
- d) The humidity levels at the time of paint application should not exceed 75%
- e) The temperature should not be below 15°C at the time of paint application
- f) The paint thickness should not exceed the specified limits
- g) Only spray painting is to be carried out wherever possible

6. Paint scheme:

SI No	Type of surface	Surface preparation	Primer	Paint Finishing
1	Steel Substrate	>3mm- Grit blasting or wire brushing where blasting is not possible. <3mm- Wire brushing/ emery Degreasing Drying	Epoxy red oxide primer specification -NCD1435 No of coats -2 DFT-25-30 microns (Each coat)	Epoxy Enamel two component Glossy specs-IS 14209 No of coats -2 (1 base coat+ 1 finishing coat) DFT-30-40Microns (Each coat) Colour: Eau-di-Nil(Code No 216 as per IS 5)

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 BHEL - ESD	BHEL - Electronics Systems Division Paint Finish For Enclosures	BHEL-NC-DMDE01	
		REV: 00	Sheet: 5 of 5

6. Inspection:

The following tests to be carried out on painted surface,


- Paint thickness (final Dry Film Thickness should be between 110 – 140 microns)
- Paint adhesion test (on sample)
- Scratch resistance test (on sample)

Note: The tests b & c to be carried out on a sample piece of 100 x 100mm painted along with enclosure at the same time.

(Reference: Appendix 'D', Enclosure to DMDE PO No. HLA/138/SMMG/S5/06, DT. 19 Mar 2015)

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Annexure-C

 BHEL - ESD	BHEL - Electronics Systems Division Packaging Details For Enclosures	BHEL-NC-DMDE02	
		REV: 01	Sheet: 1 of 4

DOCUMENT No **BHEL-NC-DMDE02**

REVISION **01**

TITLE **Packaging Details For Enclosures**

FILE FORMAT **MS WORD 2010/ PDF**

	Prepared by	Verified by	Approved by	Date of Issue
Name	Punit Sinha	B Mallaiah	S. Parandaman	29 th Dec 2018
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BHEL - Electronics Systems Division
Packaging Details For Enclosures

BHEL-NC-DMDE02

REV: 01

Sheet: 2 of 4

REVISION HISTORY

REVISION	DATE OF RELEASE	AUTHOR	REMARKS
00	19 th Jun 2018		INITIAL RELEASE
01	29 th Dec 2018	B Mallaiah	Table 1 revised

Prepared by: *Punit Sinha*

Date

29th Dec 2018

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 BHEL - ESD	BHEL - Electronics Systems Division Packaging Details For Enclosures	BHEL-NC-DMDE02	
		REV: 01	Sheet: 3 of 4

Table 1- List Of Deliverables

Sl. No.	Item Description	Quantity (in nos)
1	Local Control Panel (LCP) Enclosure of 1MW SMMG	02
2	Local Control Panel (LCP) Enclosure of 3.5MW TA	As per Purchase Order
3		

Note:

- 1) 10% additional quantity of each type of Fasteners are to be packed separately and supplied loose. Please refer to Installation /Manufacturing / Assembly drawings for the complete details of fasteners required.


Packaging Details

1) Packing of Items, Table-1

All deliverables are to be packed in **Re-Usable Wooden Pallet Box with Nuts and Bolts**.

The Re-usable wooden pallet box sizes are to be optimized as required. Sufficient cushioning material has to be provided between the equipment and the inner wall of the re-usable wooden pallet box, to prevent any damage to the equipment during transportation. All materials required for the packing like wooden cases, pallet and other cushioning/packing material are to be provided by the supplier.

The equipment has to be first sealed in a poly-ethylene cover containing adequate quantity of silica gel sachets as per the above standard, and then to be placed inside the re-usable wooden pallet box. Each type of fasteners being supplied as additional quantity are to be packed, sealed in properly labeled separate polyethylene covers along with silica gel sachets and placed in suitable cardboard boxes for dispatch.


 BHEL - ESD	BHEL - Electronics Systems Division Packaging Details For Enclosures	BHEL-NC-DMDE02	
		REV: 01	Sheet: 4 of 4

- 2) Each Package (Wooden Pallet Boxes and the card board boxes) should be individually labeled with the following information:
 - a) Equipment Nomenclature
 - b) BHEL's Part Number
 - c) Item Serial no.
 - d) Item Quantity
 - e) BHEL PO No.
 - f) Date Of Dispatch

- 3) Each wooden box / Cardboard Box should be numbered and having a packing slip.

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Annexure-D

 BHEL - ESD	BHEL - Electronics Systems Division Quality Assurance Plan For Enclosures	DOC No : BHEL-NC-DMDE03	
		REV: 01	Sheet: 1 of 6

DOCUMENT No **BHEL-NC-DMDE03**

REVISION **01**

TITLE **Quality Assurance Plan For Enclosures**

FILE FORMAT **MS WORD 2010/PDF**

	Prepared by	Verified by	Approved by	Date of Issue
Name	Punit Sinha	B Mallaiah	S. Parandaman	29 th Dec 2018
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BHEL - Electronics Systems Division
Quality Assurance Plan For Enclosures

DOC No : BHEL-NC-DMDE03

REV: 01

Sheet: 2 of 6

REVISION HISTORY

REVISION	DATE OF RELEASE	AUTHOR	REMARKS
00	20 th Jun 2018		INITIAL RELEASE
01	29 th Dec 2018	B Mallaiah	SCOPE & TABLE-1 REVISED

Prepared by: *Punit Sinha*

Date

29th Dec 2018

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1) Scope

This Quality Assurance Plan (QAP) defines the quality assurance activities to be carried out by the Supplier for the supply of the following items (for the supplies, associated requirements, services, documentation and other items in accordance with the specifications)

Sl. No.	Item Description	Document Ref.
1	Local Control Panel (LCP) Enclosure of 1MW SMMG	PS-460-0172
2	Local Control Panel (LCP) Enclosure of 3.5MW TA	PS-460-0174
3		

This Quality Plan is a revisable document, and revisions will be made throughout the project if becomes necessary.

2) Classification Of Tests

Various tests to be carried out are classified as Visual/Physical Checks, Surveillance/Verification Check and Functional/Internal Factory Test for Quality Assurance check of the equipment's / stores manufactured by the Supplier to meet BHEL's requirements. These are as follows:

A) Visual/Physical Check: As part of the Visual/Physical Check the following will be carried out.

- Look for obvious sign and physical damage
- Check that the enclosures have smooth finish and are free from dents, cracks, blowholes etc.
- Check for proper painting
- Check that the orientation of the connectors/glands as per drawings having no visible damages
- Check that all nuts and screws at the connections are secured reliably
- Check for the workmanship and finish. It should be satisfactory.
- Ensure that all the Seals / Gaskets are intact for the sealed units / sub assemblies.
- Check the dimensions & weight



- B) Surveillance/Verification Check:** Quality Surveillance is the continuing monitoring and verification of the products and analysis of records in relation to stated references to ensure that specified requirements for quality are being met. This check will be carried out on Random basis of the records / Test results of QA check done by the manufacturer.
- C) Functional/Internal Factory Test:** This test will be performed to check the key parameters (HW items) of the stores offered for inspection on 100 % (if not differently mentioned) of the offered lot. These will be carried out at the supplier's premises by BHEL/QA Officer/BHEL's customer representative.

3) Acceptance Criteria

The Testing of items is performed in Three Levels. They are as follows:

- A. The First Level is the Goods In-Wards inspection which involves inspection of the Raw Material. In this stage the items are checked visually as described at para 2(A) above. In addition the various Test Certificates obtained from the manufacturer is also verified. In case of COTS items, they are to be functionally tested. The supplier has to maintain records of the tests carried out on each of the items and the same should be provided to BHEL/BHEL's customer reps.
- B. The Second Level is the In-process Stage Inspection which involves inspection of welding and other processes.
- C. The Third Level of Testing is the Enclosure Acceptance Test. In this Level the final deliverable item will be inspected by BHEL/ BHEL's customer reps.



BHEL - Electronics Systems Division
Quality Assurance Plan For Enclosures

DOC No : BHEL-NC-DMDE03

REV: 01

Sheet: 5 of 6

The Acceptance Criteria during Fabrication of enclosures is as given in the Table below:

SI · N o.	Equipment	Components	Assem bly/ Funct. Test	Characte ristics checked	Catego ry	Type/Metho d Of Check	Extent Of Check	Ref. Doc.	Accept ance	Format Of Record	Agency			Guarantee /Warranty
											Perfor mer	Reviewe r	Witness	
1	Local Control Panel(LCP) Enclosure of 1MW SMMG	Enclosure	Accept ance Check	Integrity	Major	Visual + Verification	100%	PS- 461- 0172	BHEL- NC- DMDE0 3	Supplier's Format	Supplie r	BHEL QA	BHEL's Customer rep.	Yes
		Fasteners			Minor									
		Gaskets												
2	Local Control Panel(LCP) Enclosure of 1MW SMMG	Enclosure	Accept ance Check	Integrity	Major	Visual + Verification	100%	PS- 461- 0174	BHEL- NC- DMDE0 3	Supplier's Format	Supplie r	BHEL QA	BHEL's Customer rep.	Yes
		Fasteners			Minor									
		Gaskets												

Note:


- The components in the 3rd column of the above table will include Spares also.

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 BHEL - ESD	BHEL - Electronics Systems Division Quality Assurance Plan For Enclosures	DOC No : BHEL-NC-DMDE03	
		REV: 01	Sheet: 6 of 6

4) Acceptance Test Procedure:

The Acceptance Test for each of the items is described in the succeeding paragraphs. **Please note that any inspection call to BHEL shall be sent 3 days in advance. The jigs to be manufactured by the supplier for the purpose of fabrication as mentioned below have to be delivered to BHEL at the end of all dispatches.**

The following levels of tests / checks will be carried out on the enclosure during fabrication.

- (i) In the first level, Raw Materials will be inspected by BHEL/BHEL's customer reps. It involves visual checking of the items as described at para 2(A) above. Also, various Test Certificates (like Data Sheets, Material Test Certificate, Warranty/Guarantee Certificate, etc.) obtained from the OEMs or Certificates of tests carried out by the Supplier will be verified as described at para 2.B above.
- (ii) This is a **Customer Hold Point**, where in only on clearance/approval of all the items by BHEL/BHEL's customer reps., the Supplier can proceed further for fabrication and assembling the items.
- (iii) This is the Final Factory Test wherein the final deliverable item will be visually checked as described at para 2(A) by BHEL/BHEL's customer reps.

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Annexure-E

BHEL	PLANT STANDARD	ED 023 04 99
	ELECTRONICS DIVISION	-----
A4 - 15		REV NO 04

		PAGE 0 OF 3

REVISION HISTORY SHEET

REV NO	DATE	NATURE OF CHANGE	REASONS	PREPARED BY	APPROVED BY
00	09/11/93	1st ISSUE		MRV, SHG	N.J
01	11/09/95	Clause 5.0 added, Clause 6.0 was earlier 5.0	BVQI Audit Feedback	MRV, SHG	N.J
02	11/10/96	Clause 2, 3.1, 3.3 revised, 3.1.1, 3.1.2 added	BVQI Audit Feedback	MRV, SHG	N.J
03	10/01/97	Clause 3.2.3 added	F.B From QS	SHG	N.S
04	13/02/02	Reaffirmation	-	CCR	NS

APPROVED:
N. SRIDARAN

PREPARED: ISSUED: DATE:
ANN, MRV, SHG. STDS. GROUP. 13-02-02.

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                PLANT STANDARD                ED 023 04 99
BHEL
                ELECTRONICS DIVISION           REV NO 04
A4 - 13
                PAGE 1 OF 3
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PROCEDURE FOR ALLOWABLE TOLERANCE FOR UNSPECIFIED TOLERANCE
ON DRAWINGS

1.0 SCOPE:

This standard specifies the tolerance not specified in ASSEMBLY and FABRICATED COMPONENT drawings.

2.0 GENERAL

This standard shall be referred in all Mechanical Drawings (for all assembly and fabricated components) prepared subsequent to issue of this standard.

All the dimensions are in mm unless otherwise specified.

3.0 UNSPECIFIED TOLERANCE : Tolerance shall be as under unless other wise specified in DRAWINGS.

3.1 Tolerance on machining:(for machining with chips of all metals and non metallic such as ceramics,plastic materials etc.,)

Reference is taken from Corporate Standard AA 023 02 08 Table 1-Medium Class of Deviation for Linear Dimensions is to be followed unless otherwise specified.

Class of Deviation	Range of Nominal Dimensions								
Above	0.5	3	6	30	120	315	1000	2000	
Upto and Including	3	6	30	120	315	1000	2000	4000	
Medium	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	± 2	
Coarse	-	±0.2	±0.5	±0.8	±1.2	± 2	± 3	± 4	

APPROVED:
N.SRIDARAN

PREPARED: ISSUED: DATE:
ANN,MRV,SHG.STDS.GROUP. 06-01-93.

 BHEL PLANT STANDARD ED 023 04 99

 ELECTRONICS DIVISION REV NO 04

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3.2.1.Tolerance on non machining:(for sheet metal fabrication, bus bar bending)-Reference is taken from Corporate standard AA 062 11 04.

Degree of accuracy B is to be followed for sheet metal forming and Degree of accuracy C is to be followed for bus bar forming unless otherwise specified.

Degree of Accuracy	Range of Nominal Dimensions						
	Over	30	120	300	1000	2000	4000
	Upto & Including	120	300	1000	2000	4000	8000
B		± 1	± 2	± 3	± 4	± 6	± 8
C		± 2	± 3	± 4	± 6	± 8	± 10

A permissible variation of ± 1 mm applies to dimensions upto 30 mm.

TOLERANCE ON BENDING OPERATION:PARALLELISM:± 2mm for 500 mm

3.2.2.Tolerance on sheared dimensions (cut lengths) for sheared plates:-Reference is taken from Corporate standard AA023 04 09.

Thickness		Nominal Dimensions Range		
Above	Upto	Upto 1000	1000 - 2500	2500 - 5000
-	3	± 1	± 2	± 2
3	6	± 2	± 2	± 3

3.2.3 ALLOWABLE TOLERANCE FOR BEND TWIST AND BOW IN SHEET

METAL FORMING AND BENDING OPERATIONS : UPTO 20MM

3.3 TOLERANCE ON ASSEMBLY OF CUBICLE OUTER DIMNS:± 2.0 mm

- 3.3.1 BOLTED ASSEMBLY FOR INTERIOR DIMENSIONS:± 2.0 mm
- 3.3.2 BOLTED ASSEMBLY FOR STRAIGHTNESS,FORM &POSITION:±2.0 mm
- 3.3.3 WELDED ASSEMBLY FOR LINEAR & ANGULAR DIMENSIONS:As per Corporate Standard: AA 062 11 04 CLASS A
- 3.4 WELDED ASSEMBLY FOR FORM & POSITION: As per Corporate Standard AA 062 11 05 CLASS E
- 4. ANGULAR TOLERANCE:As per Corporate Standard AA 023 02 08
- 5.0 Tolerance for mounting of components in Regulation/ Control Cubicles.
 - 5.1) For location and mounting arrangement of components, the General Arrangement Drawing for the cubicle is to be referred.
 - 5.2) The relative arrangement of component shall be as per General Arrangement Drawing.The minimum distance between two adjacent rows of components shall not be less than 10mm.
 - 5.3) Mounting of components on C-channel are sliding type can be varied by ± 10mm for every 100mm distance.However,a minimum gap as per clause 5.2 is to be maintained.
 - 5.4) A minimum of 10mm distance is to be kept between component assembly and side/top/ end covers.
- 6.0 GENERAL PRACTICES
 - Unless otherwise specified :
 - Remove all sharp corners.
 - Bending radius shall be equal to material thickness.

Annexure-F

BHEL	PLANT STANDARD	ED 067 36 96
A4 - 15	ELECTRONICS DIVISION	REV NO 06
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REVISION HISTORY SHEET

REV NO	DATE	NATURE OF CHANGE	REASONS	PREPARED BY	APPROVED BY
00	08/01/92	Supersedes CN46015	-	NMD, MAS, AV	NJ
01	03/02/93	Revised	-	AV, MRV	NJ
02	12/04/93	Totally Revised	-	MRV	NJ
03	24/06/93	Revised	-	MRV	NJ
04	02/07/98	Reaffirmation	-	CCR	NS
05	16/09/03	Reaffirmation	-	CCR	SM
06	07/02/18	Reaffirmed	-	BKD	NV

APPROVED :
 N Vaidehi

PREPARED : ISSUED : DATE :
 CCR STDS GROUP 16/09/03

PROCESS FOR ELECTROPLATING BRIGHT TIN FROM ACID
BATH ON FERROUS & NON-FERROUS METAL PARTS.

- 1.0 GENERAL:
This standard details the process for bright tin plating by vat or barrel from an acid tin solution on steel, copper & copper alloys to protect them against corrosion, to provide good surface for soldering and also to provide minimum contact resistance of joints and for masking during nitriding.
- 2.0 SCOPE:
This standard is applicable for M/s Grauer & Weil semi automatic barrel and rack plating.
- 3.0 APPLICATION:
Used for bus-bar and spout connections, cables, sockets, connection cams, brush holders, cable glands, clamp plates, brackets, earthbar, hardware, etc.
- 4.0 REFERENCE STANDARDS:
Assistance has been taken from IS :1359 and BHEL Corporate Standard AAO673611 in preparing this standard.
- 5.0 MATERIALS:
- | | Material | IS No./ Available From. |
|-----|---------------------------------|---|
| 5.1 | Stannous sulphate (EP grade) | : IS:3026 |
| 5.2 | Sulphuric Acid (C.P. Grade) | : IS:266 |
| 5.3 | Tin anodes | : IS:2384 |
| 5.4 | Activated carbon powder-pure | : IS:8366 |
| 5.5 | Tinbrite make-up brightner | : M/s Grauer & Weil (I) Ltd.
Bombay. |
| 5.6 | Tinbrite maintenance brightner: | ---do--- |
| 5.7 | Sediwell - Sn purifier | : ---do--- |
- 6.0 EQUIPMENT:
- 6.1 Plating Tank: This tank shall be made of mild steel lined with rubber / PVC / FRP fitted with insulators for holding the anode and cathode rods.

6.2 Rinsing Tank: Mild steel tank lined with rubber/ PVC / FRP.
 6.3 Filter Pump: Standard filtration unit suitable for filtering acid solution.

7.0 COMPOSITION OF ELECTROLYTE AND OPERATING INSTRUCTIONS:

7.1 Composition of Electrolyte and Operating Conditions:

Parameter	For Vat	For Barrel
Stannous Sulphate, g/l	40-60	25-35
Sulphuric Acid, ml/l	80-100	95-110
Tinbrite make-up brightner, ml/l	30-40	30-40
Tinbrite maintenance brightner, ml/l	3-4	4-6
Operating Temperature, °C	20-35	20-35
Current Density , A/sq.dm	1-3	4-6
Filtration	Continuous	Occasional
Anode to Cathode Ratio	2 : 1	-

7.2 Preparation of Electrolyte:

- 7.2.1 The vat/barrel shall be filled with cold demineralised water to about two-thirds of its working level.
- 7.2.2 The required quantity of sulphuric acid shall be added very slowly to the bath with stirring.
- 7.2.3 The required amount of stannous sulphate shall than be added to this solution with stirring.
- 7.2.4 After complete dissolution, the electrolyte shall be brought upto the working level by adding demineralised water and subsequently stirred thoroughly.

7.3 Maintenance of the Electrolyte: The electrolyte shall be analysed after initial make-up and subsequently at once in a month or 15 days depending on the work load.

7.3.1 Working Concentration: The concentration of electrolyte shall be maintained at the following limits:

Contents	For Vat	For Barrel
Metal content as Sn, g/l	15 to 25	12 to 18
Sulphuric Acid as H ₂ SO ₄ , ml/l	90 to 120	80 to 120

7.3.2 Replenishment:

- 7.3.2.1 If the working concentration do not lie in the limits as mentioned in Cl.6.3.1, addition of stannous sulphate and sulphuric acid shall be made to raise the concentration of metal and acid respectively as per the laboratory report.

7.3.2.2 In normal cases the addition of brightners shall be as follows for both vat and barrel.

Tinbrite make-up brightner, ml/KAH :100 to 200
Tinbrite maintenance brightner, ml/KAH :200 to 400

7.3.3 Purification:

7.3.3.1 Removal of metallic impurities: When objectionable amounts of metallic impurities are to be removed, electrolytic purification by using corrugated dummy cathode shall be employed at low current density (0.3 A/dm²).

7.3.3.2 Removal of organic impurities: When the electrolyte is not severely contaminated with the organic impurities, the solution shall be filtered by introducing a small amount of activated carbon powder packed within the filter. For severely contaminated organic impurities, the electrolyte shall be treated with activated carbon powder at the rate of 2-3 g/l and Sediwell-Sn purifier at the rate of 1-2 ml/l. After vigorous agitation, the mixture shall be allowed to settle for a few hours, preferably overnight, in a separate tank. Finally, the electrolyte shall be filtered into the plating tank. Sediwell - Sn purifier treatment will also remove the stannic oxide produced during the process and also in idle hours of the electrolyte.

7.3.3.3 During carbon treatment brightners are partially removed. Therefore, brightners shall be added after carbon treatment as under:

Tinbrite make-up brightner, ml/l :10 to 15
Tinbrite maintenance brightner, ml/l :1 to 2

8.0 PROCESS:

8.1 Cleaning: All articles shall be properly cleaned as described in Plant Standard ED0673699 : Process for cleaning and preparation of metal surface prior to electroplating.

8.2 Rinsing: All articles shall be rinsed thoroughly after cleaning in cold running water (chlorinated water should not be used).

8.3 Plating: All articles shall be plated at specified current density for a duration which will depend on the thickness of the deposit required.

8.5 Rinsing: All articles shall be rinsed thoroughly in cold running water till all traces of plating solution are removed.

8.6 Drying: All articles shall be dried in centrifugal drier or by hot air oven.

9.0 PRECAUTIONS:

- 9.1 Plating bath shall be kept covered when not in use to keep the bath free from dust and foreign matter.
- 9.2 Only demineralised water should be used to make-up the working level of plating solution.
- 9.3 The anode shall be kept immersed in the electrolyte during idle hours to minimise oxidation of tin to stannic oxide, which is objectionable.
- 9.4 Any article that becomes lodged in any part of the barrel / vat shall be removed immediately.
- 9.5 Ensure that bath is 'alive' before loading the job in to plating vat / barrel.

10.0 INSPECTION: The tin plating film thickness shall be 13 microns (0.013mm), minimum for components with out threads and tin plating film thickness 5 microns (0.005mm) maximum where the component has threads.

Commercial Terms Discussion For ANK000211 (LCP Enclosures for 3.5MW TA)

Sl. No.	BHEL Terms	Complied (Yes/No)	Remarks
1	Payment Terms-For quotes in INR 100% within 45 days after receipt and acceptance of material		
2	Payment Terms-For quotes other than INR 100% against sight draft with 45 days credit on negotiation of complete set of documents.		
3	Penalty (0.5% per week on the basic value of the undelivered quantity max upto 10%)		
4	Delivery time 12 weeks from the date of Purchase Order		
5	Price Firm (PVC not acceptable- Prices should be firm till execution of order)		
6	Packing And Forwarding By Supplier		
7	For quotes in INR-Free Door Delivery at BHEL ESD, Electronic City		
8	For quotes other than INR-FCA International Gateway Airport (For shipment by air, Refer Annexure II for details) OR CIF, ICD Bangalore. Port of discharge either Mumbai/Chennai (for shipment by sea)		
9	Offer Validity (90 days from the tender opening)		
10	Taxes & duties to be mentioned in offer (Applicable GST%)		
11	HSN Code		
12	Warranty : as per clause 13 of PS-460-0174		
13	Documents to be submitted along with technical offer: a) The data sheets of all bought out items b) Clause -wise compliance to PS-460-0174		
14	The supplier has to offer raw material for inspection within 2 weeks from date of PO.		

PRICE BID

Price bid - ANK0000211

Sl. No.	Description	Quantity (ST)	Currency	Unit Price	Total Price	Remarks
1	DS0830006110 LCP Enclosures for 3.5MW TA	1				
2	GST (if applicable indicating %)	1				
A	Total cost including equipment and applicable taxes (in figures)	1				
	Total cost including equipment and applicable taxes (in words)					

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INSTRUCTIONS TO BIDDERS / SELLER

A. **Scope & Applicability :-**

These Instructions along with all the details, terms & conditions in the RFQ and General Conditions of Contract (Document No: BHEL: EDN: SHOP: GCC: Rev00) shall apply for this REQUEST FOR QUOTATION (RFQ) and any resulting Order(s) / Agreement(s).

B. **Definitions :-**

Throughout the documents referred to in A above 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 (a Central Public Sector Enterprise) incorporated under the Companies Act, 1956 having its registered office at BHEL House, Siri Fort, New Delhi-110049, India acting through its Electronics Division / Electronics Systems Division at Bangalore and shall be deemed to include its successors and assigns. It may also be referred to as BHEL.
- **The Bidder** means the person, firm, company or organization to whom the RFQ is addressed / submits an offer against such RFQ and shall be deemed to include its successors, representative heirs, executors and administrator as the case may be. It may also be referred to as Seller, Contractor, Supplier or Vendor.

C. **General :-**

1. All correspondence / clarifications shall be addressed to the contact person given in the RFQ / Purchase Order/Agreement.
2. In case of non-participation in the tender, regret letter with reason shall be sent by the vendor to the purchaser. If a vendor fails to respond against three consecutive tenders for the same item, he will be liable for removal as a registered vendor of BHEL for the item.
3. All timings are Indian Standard Time (IST).
4. Bidders shall not engage the services of the firms banned by BHEL. List of such banned firms is available at website www.bhel.com.

Offers of the bidders who are on the banned list/who engage the services of banned firms shall be rejected.

5. 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.
6. Any consultant or consultant firm including any of its affiliates or associates shall not be eligible to participate in tender / s for the related goods or works or services for the same project, for which they were engaged for the consultancy services by BHEL.

7. **Agents / Representatives of OEMs / Principals :-**

- a. BHEL prefers to deal directly with Original Equipment Manufacturers (OEMs) / Principal for all its purchases. However, if the OEM / Principal insist on engaging the services of an Agent/Representative, such Agent / Representative will be allowed to represent only one OEM / Principal in the same tender. Either the Agent / Representative could bid on behalf of the OEM / Principal or the OEM / Principal could bid directly but not both. In case bids are received from both the OEM / Principal and the Agent/ Representative, the bid received from the Agent/Representative will be ignored.
- b. Agent/Representative authorized by the OEM/Principal in turn cannot further sub authorize any other firm for submitting the offer or for placement of order.
- c. Valid Authorization letter from the OEM / Principal to quote and negotiate on behalf of OEM / Principal to be submitted by the respective Agent/Representative.

8. **The Purchaser Reserves the Right to :-**

- a. Cancel / retender the RFQ at any time before placement of Purchase Order / Agreement, without assigning any reason.
- b. Change the quantity to be ordered and the delivery schedule before placement of PO with mutual agreement with the seller.
- c. Adopt any method(s) of bidding including Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation

in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com). The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. **The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates.**

If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for

- suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).”
- d. Split the quantity in the RFQ among bidders for ordering.
 - e. Accept / not accept whole / part of any offer(s).
 - f. Accept / Reject any of the counter terms / deviations offered by bidder.
 - g. Seek information / clarifications / confirmations relevant to the RFQ from the bidder(s) and fix deadlines for furnishing of the same by the bidder(s) and not to consider the offer(s) of such bidder(s) for further processing who fail to provide such information / clarifications / confirmations within the deadline fixed.
 - h. Negotiate with the L1 bidder.
 - i. Take necessary action as per prevalent BHEL Policy, with regard to the bidder(s) / vendor(s) who is/are
:- (i) Non-responsive.
(ii) Found to have been involved in unfair practices / actions contrary to business ethics /actions restricting competition. (iii) Withdrawing offers after opening of Part I bid / s.

D. Guidelines for Making the Offer :-

1. Separate offer in English language addressed to the Purchase Executive shall be made for each RFQ in Single part/two parts/three parts as indicated in the RFQ.
2. a) **Single Part Bid**: Complete offer i.e., techno commercial bid and price bid to be made in single part. Offer shall be placed in a sealed envelope superscribed with RFQ No & Due Date.
b) **Two Part Bid** : Offer shall be made in two parts as detailed below:
“Techno-commercial Bid (Part I Bid) placed in a sealed envelope super scribed with RFQ No , Due date & “Techno Commercial Bid (Part I Bid)” & “Price Bid (Part II Bid)” placed in a separate sealed envelope superscribed with RFQ No, Due Date & “Price Bid (Part II Bid)”. Both the sealed envelopes shall be placed in another sealed envelope superscribed with RFQ No & Due date
c) **Three Part Bid**: Offer shall be made in three parts as detailed below:
“Pre-Qualification Bid (Part I Bid)” in a sealed cover superscribed with RFQ No, Due Date and “Pre-Qualification Bid (Part I Bid)”, “Techno-commercial Bid (Part II Bid)” placed in a separate sealed envelope super scribed with RFQ No , Due date & “Techno commercial Bid (Part II Bid)” & “Price Bid (Part III Bid)” in another separate sealed envelope superscribed with RFQ No, Due date and “Price Bid (Part III Bid)”.All the three sealed envelopes shall be placed in another sealed envelope superscribed with RFQ No & Due date.
3. Offers for RFQs on EPS (E-Procurement System) shall be made only on the template on EPS portal. All documents as required shall be uploaded on the portal.
4. Offer shall be in accordance with and complete in all respects with regard to the requirements of the RFQ.
5. Offers of Vendors who already have a valid Technical/Commercial MOU with BHEL-EDN for the items of the RFQ shall mention the relevant MOU reference No and give only such other details not covered in the MOU.
6. Corrections / overwriting shall be avoided. Corrections if any shall be respectively incorporated in all the bids (part-I / II / III i.e, Prequalification Bid / Techno-commercial Bid/ Price Bid) as applicable and shall be duly authenticated at each instance of correction by the authorized signatory with name and designation.
7. Offer shall have a minimum validity period of 90 days from the due date of the RFQ.
8. Please refer Clauses E and F below for Standard Commercial Terms and commercial deviations and loading of offers.
9. Bidders to be considered as Micro and Small Enterprises (MSEs) are required to submit the documents as per **Annexure I**.
10. **Non acceptance/deviations if any to the terms and conditions of the RFQ shall be clearly and explicitly mentioned in the offer, otherwise it will be treated that all the terms and conditions of the RFQ are accepted by the bidder in total.**
11. **Pre-Qualification Bid**: Shall have all details required as per RFQ along with documents as applicable.
12. **Techno Commercial Bid**:
 - a. Shall include BHEL material code and description as per RFQ and details of the item offered including make/model/part no along with relevant documents like drawings/data sheets/catalogs/BOMs etc. as applicable.
 - b. Commercial terms such as delivery period, delivery terms, payment terms, taxes and duties as applicable. Delivery quoted shall be earliest firm in terms of no of days/weeks/months from the date of PO/Drawing Approval/Manufacturing clearance as applicable. It is recommended to avoid delivery terms such as ‘ex-stock’, ‘subject to prior sale’ or ‘delivery at the earliest’, ‘subject to release of PO within ----- period’ and ‘delivery range eg X-Y weeks’.(Please Refer Clause 15 of General Conditions of Contract (Document No: BHEL: EDN: SHOP: GCC: Rev00) is applicable for delayed deliveries)
 - c. **Bidders should mention GSTN number of the place of supply and HSN (Harmonized System of Nomenclature)/SAC(Services Accounting Code) number in the offer. In case both supply and service are involved, GSTN no of the place of supply for services shall also be mentioned separately in the offer if it's different.**

13. Price Bid:

- a. Most competitive price(s) to be quoted.
- b. Shall include Price details such as currency ,item unit price, total price, discounts if any, packing forwarding charges ,freight, insurance , taxes(SGST/IGST/CGST/UTGST) as applicable.
- c. **Quoted price(s) shall be FIRM and valid till the complete execution of Purchase Order / Agreement, except where price variation is specifically included in RFQ terms in which case the price(s) quoted shall be in accordance with the price variation formula given in the RFQ.**
- d. Prices in both figures and words to be indicated.
- e. The price quoted against each item shall be for units stated in the RFQ. Where quotation is in terms of a unit other than that in the RFQ, relationship between the two units shall be clearly brought out.

E. Purchaser's Standard Commercial Terms :-

1. Unless specified otherwise in the RFQ , following are the Purchaser's standard commercial terms:-

SI No	Description	For Purchase within India	For Foreign Purchase(Direct Imports)
i	Delivery Terms	Door Delivery to BHEL Stores, Bangalore with Freight and Insurance paid.	FCA International Gateway Airport (For shipment by air, Refer Annexure II for details) OR CIF, ICD Bangalore. Port of discharge either Mumbai/Chennai (for shipment by sea)
ii	Payment Terms	<u>100% direct payment with 45 days credit from the date of :</u> a) Receipt of material for Door delivery BHEL stores b)Receipt of complete set of documents for High Sea Sales c)Invoice for Ex-works delivery	100% against sight draft with 45 days credit on negotiation of complete set of documents.
iii	Reckoning of Delivery Date	<u>For Door Delivery at BHEL Stores:-</u> Date of receipt of material at BHEL Stores. <u>For Delivery Terms of Ex-works /Negotiation of Documents Through Bank:-</u> Date of invoice <u>Where Pre Shipment Inspection at seller's works is applicable :-</u> Inspection call for the date on which material is ready for inspection supported with documents such as TC's/ COC's as applicable.	<u>For Delivery Terms of Ex-works :-</u> Date of invoice <u>For Delivery Terms of CIP/ FCA</u> Date of House Airway Bill(HAWB) / Date of receipt by BHEL's Freight Forwarder whichever is earlier <u>For Delivery Terms of CIF</u> Date of Bill of lading
iv.	Penalty for Delayed Delivery	As per clause 15 of General Conditions of Contract (DOC .NO.BHEL :EDN:GCC-SHOP:REV:00)	
v	Cancellation/ Termination of Contract & Risk Purchase	As per Clause 24 of General Conditions of Contract (DOC.NO.BHEL:EDN:GCC – SHOP :REV:00)	

2. When Bank Guaranty (BG) is applicable as per RFQ terms, the same shall be from any one of the BHEL Consortium of Banks (Refer **Annexure III**) in the prescribed format as per **Annexure IV**. The bank Guarantee shall be sent directly to BHEL by the issuing bank.

F. Commercial Deviations / Offered Terms & Loading of Offers :-

Unless specified otherwise in the RFQ and if the Purchaser decides to accept offers with deviations in respect of the standard commercial terms given at Clause No. E1 above, such offers will be subjected to loading on the **quoted basic material value** as detailed below:-

SI No	Deviation on	Nature of Deviation / Offered Terms	Loading %
i	Delivery Terms	For purchase within India :- Other than SI No.1 (i) of clause E above.	10
ii.	Payment Terms	For purchase within India :- 1) Payment against delivery/Proforma payment against receipt of material	15
		2) Payment against documents through bank – Delivery of material on production of consignee copy of LR	15*
		3) Credit period less than 45 days, but not less than 15 days.	10
		4) Payment against documents through bank with consignment door delivered to BHEL stores (without consignee copy of LR) and 45 days credit period.	2*
		For foreign purchase :- 1) Payment through At Sight Letter of Credit	10
		2) Payment through Letter of Credit with usance credit of 45 days	5
iii	Penalty for Delayed Delivery	3) Sight Draft with credit period less than 45 days	5
		1) Non – Acceptance	10
		2) Partial Acceptance (X%)	(10 – X)

* All bank charges shall be to seller’s account. If bank charges of BHEL banker are to BHEL’s account then **additional loading of 2% on the quoted basic value** is applicable.

NOTE: Offer/ s with payment terms other than the standard payment terms indicated at E1(ii) or Deviated Payment Terms with loading indicated at F(ii) above are liable for rejection.

G. Submission of Offers:

Offers shall be submitted as indicated below **within the due date and time** indicated in the RFQ/Any subsequent change intimated by Purchaser.

SI No.	Offer For	Mode of Submission
i	RFQs on EPS	Shall be made on the EPS (e-Procurement System) portal in line with the instructions given therein. Notes : a) To quote for the RFQs published through EPS vendors should have class III, 2048 Bit digital signature certificate (DSC) for both encryption and signing obtained from Certifying Authority (CA) authorized by Govt. of India through their Licensed Registering Authority (LRA). b) All required documents shall be uploaded before due date and time. Availability of power, internet connectivity, etc. is the sole responsibility of the bidder. Assistance required if any, may be availed from the Seller’s Manual available on EPS portal of BHEL/ help line numbers of BHEL’s Service Provider
ii	Other RFQs	Shall be dropped in the appropriate tender box as per details given in the RFQ OR May be Sent through post/courier/Fax/Email/EDI to the Purchase Executive/Fax No/Email ID indicated in the RFQ * * Bidders may adopt this mode at their own risk. The Purchaser does not own any responsibility / liability for delays in receipt / loss of secrecy of such offers. Such offers shall be received well in advance to enable them to be dropped in the tender box in time.

NOTE :

OFFERS RECEIVED BEYOND DUE DATE AND TIME WILL NOT BE CONSIDERED

H. Processing of Offers Received:

1. Only offers received in the mode and within the due date and time indicated in RFQ will be considered for processing.
2. The following offers may not be considered for processing
 - a) Incomplete
 - b) Conditional
 - c) With deviations other than listed in clause F above
3. If non acceptance to any of the terms & conditions of the RFQ or deviations if any are not clearly mentioned in the offer, it will be treated that all the terms & conditions of the RFQ are accepted by the bidder in total.
4. If offer is revised within the due date and time of the RFQ on e-Procurement System, latest will be available for processing. In other cases the latest offer will be considered for processing only when there is a clear indication of the same, otherwise BHEL reserves the right to consider/not consider any of the offers received.
5. **For offers on EPS, in case of any contradictions/inconsistency between the offered details on the bid template and those in the attachments, the offered details on the bid template only will be considered.**
6. If a range is given for delivery, longest duration in the given range will be considered as the quoted delivery. If any drawing / sample / technical datasheets/Quality Assurance Plan approval or Manufacturing Clearance by Purchaser is involved the quoted delivery will be considered from the date of such Approval / Clearance by the Purchaser. Bidder to clearly indicate the time (in terms of no of days / weeks from the date of PO) for submission of such Drawings /Data Sheets/ Samples/QAP to the Purchaser.
7. Changes in offer (Impact Bid)/Discounts or revised offers given after opening of Part-I bid will not be considered unless the same is sought by the Purchaser due to any change(s) in technical scope and / or specifications and / or commercial terms & conditions. In case of withdrawal of any Technical/Commercial deviation(s) by the bidder before opening of price bids, revision of price/impact bid will not be considered.
8. Any discount on the already submitted offer by the bidder on its own will be considered provided it is received on or before the due date and time of offer submission and clearly mentions "Discount offer to be considered along with the original offer "(on the envelope also). The discount will be applied on pro-rata basis to all the items unless mentioned otherwise by the bidder.
9. In case of two / three part bids, price bids of the techno-commercially accepted offers, only will be opened on a subsequent date, with prior intimation.
10. Offers considered with commercial deviations will be subject to loading as per clause F above.
11. In case BHEL decides to go for Reverse Auction Guidelines as **per Annexure V** are applicable. Only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit "**online sealed bid**" in the Reverse Auction. Non submission of "**online sealed bid**" by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue. In case BHEL decides **NOT to adopt Reverse Auction** method of bidding, the sealed price bids and price impacts if any, of all the techno commercially qualified bidders already submitted and available with BHEL shall be opened as per BHEL's standard practice.
12. Evaluation of Price bids will be done on the basis of "**Total Cost to Purchaser**" taking into consideration:
 - d) Basic material value, taxes and duties, packing and forwarding charges, freight and insurance, any other costs and loading for deviations if any, as applicable.
 - e) CENVAT/MODVAT/VAT credit benefits available to BHEL.
 - f) Calculated costs of freight, insurance and clearance charges as applicable, for foreign purchases.
 - g) RFQ item wise prices unless specified otherwise in the RFQ terms.
 - h) The offered quantity if offered quantity is more than the RFQ quantity
 - i) For offers in foreign currency, the exchange rate (TT selling rate of State Bank Of India (SBI)) will be taken as under :-

Single Part Bids: -

Date of tender opening

Two / Three part bids / Reverse Auction: -

Date of Part-1 bid opening

If the relevant day happens to be a bank holiday then the FOREX rate (TT selling rate) as on the previous bank (SBI) working day will be taken.

13. Any typographical error, totaling mistakes, currency mistake, multiplication mistake, summing mistakes etc. observed in the price bids will be evaluated as per Clause 11.2.3 "Non-conformities between the figures and words of the quoted prices" of "Manual on Policies & Procedures for purchase of goods" issued by Ministry of Finance / Government of India. (Refer **Annexure VI**). BHEL's decision will be final in this regard.
14. Ranking (L-1, L-2 etc.) will be done only for the techno-commercially accepted offers.
15. Purchase Preference for MSE Vendors will be considered as per **Annexure VII**.

I. Despatch, Invoicing and Documentation :-

1. All goods shall be consigned to the Consignee details as given in the Purchase Order.
2. Quantity of goods in invoice / delivery challan shall tally with the goods delivered.
3. For delivery terms Ex-Works, the Seller shall intimate the readiness of goods to BHEL/BHEL's authorized freight forwarder/BHEL's authorized transporter and the goods shall be handed over to the BHEL's authorized freight forwarder/BHEL authorized transporter / agency assigned by BHEL. Goods can also be despatched as mutually agreed between BHEL and Seller.
4. Packing shall be road / rail / air / sea worthy as applicable for adequate protection against transit damages.
5. **Delivery timings at BHEL stores(On all working days) :-**
09.00 AM to 03.00 PM (Monday to Friday)
09.00 AM to 11.00 AM (Saturday)
Deliveries other than the timings indicated shall be done with prior permission from the purchase executive.
6. The invoice shall be in accordance with the PO duly supported with documents as called in the PO and shall contain the following details :-
BHEL PO No and PO Item no., BHEL material code and description, Quantity, Vendor's name, Address.
Invoice submitted should contain all details as specified under GST Laws.
7. The rates shall be as per applicable PO rates. Indicate the basic rate, duties & taxes as applicable along with Vendor TIN number (applicable for dispatches from within India).
8. For issue of "C" Forms duly filled up format as per **Annexure VIII** shall be sent to email id: **cform@bheledn.co.in**. For invoices w.e.f 01.07.17 this clause will not be applicable.
9. **Documents :-**
Seller shall arrange to send the documents as applicable as per **Annexure IX** to the Purchaser, along with dispatch of goods. Any addition / exclusion to such documents shall be as specified in the Purchase Order.
10. **Bidders should mention GSTIN(GST Identification number) of the place of supply and HSN (Harmonized System of Nomenclature)/SAC(Services Accounting Code) number in the invoice. In case both supply and service are involved, GSTN no of the place of supply for services shall also be mentioned separately in the offer if it's different.**
11. Applicable documents shall be submitted to the purchaser at the time of supply for availing GST input credits.
Payment of GST as applicable will be made only if it is matching with the data uploaded by suppliers.
12. Vendors to give undertaking that GST as mentioned in the invoice has been paid/will be paid either through cash or admissible input credit and also file the returns.
13. For invoices paid on Reverse charge basis- that it is "payable on reverse charge basis " to be mentioned on the invoice.

J. Information on Processing of Payment :-

1. All direct payments will be made through Electronic Fund transfer (EFT). Vendor shall furnish e-payment particulars duly authenticated by their respective Bankers as per BHEL standard format (Refer **Annexure X**), if not registered with the purchaser earlier.
2. In case of High Sea Sales and Foreign Purchases, customs clearance of the consignment landed on Indian Sea / Air ports will be done by BHEL based on the original documents provided by Seller. All warehousing charges due to delay in submission of complete and or correct documents to BHEL may be charged to Seller's account.
3. Statutory deductions, if any, will be made and the deduction certificate shall be issued. In case Seller does not provide PAN details, the TDS deduction shall be at the maximum percentage stipulated as per the provisions of Income Tax Act.
4. Bills/Invoices will be processed for payment only if they are complete in all respects, correct and supported with relevant documents as applicable. Any delays in this regard will result in consequent delays in payment.

GENERAL CONDITIONS OF CONTRACT FOR PURCHASE

1. Applicable Conditions :-

These General Conditions of Contract for Purchase (GCP) apply to all enquiries, tenders, requests for quotations, orders and agreements concerning the supply of goods and the rendering of related services (hereinafter referred to as "deliveries") to Bharat Heavy Electricals Limited, Electronics Division / Electronics Systems Division (hereinafter referred to as "BHEL" or the Purchaser) or its projects / customers. Any deviations from or additions to these 'General Conditions of Contract for Purchase' require Purchaser's express written consent. The general terms of business or sale of the Seller shall not apply to the Contract. Acceptance or receipt of shipments or services or effecting payment shall not mean that the general terms of business or sale of the Seller have been accepted by the Purchaser. Purchase orders, Orders, agreements and amendments thereto shall be binding if made or confirmed by the Purchaser in writing.

2. Definitions :-

Throughout these conditions and in the specifications, the following terms shall have the meanings as assigned hereunder, unless the subject matter or the context requires otherwise.

- a. **'Purchaser'** means Bharat Heavy Electricals Limited (a Central Public Sector Enterprise) incorporated under the Companies Act, 1956 having its registered office at BHEL House, Siri Fort, New Delhi-110049, India acting through its Unit Electronics Division / Electronics Systems Division at Bangalore and shall be deemed to include its successors and assigns. It may also be referred to as BHEL.
- b. **'Seller'** means the person, firm, company or organization on whom the Purchase Order is placed and shall be deemed to include the seller's successors, permitted assigns, representatives, heirs, executors and administrators, as the case may be. It may also be referred to as Contractor, Supplier or Vendor.
- c. **'Contract'** shall mean and include the Purchase Order (also referred to as the "Order" or 'PO'), letter of intent (LOI) / letter of acceptance or award (LOA) along with tender / offer / bid submitted by the Seller, 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 and the samples or patterns if any to be provided under the provisions of the Contract, by the Purchaser or his representative. Any conditions or terms stipulated by the tenderer / bidder in the tender / offer / bid or subsequent letters shall not form part of the Contract unless specifically accepted in writing by the Purchaser.
- d. **'Parties to the Contract'** shall mean the Seller and the Purchaser and Party shall mean either the Seller or the Purchaser.

3. Order of Precedence:-

In case of any inconsistency or contradiction between any of the documents, the order of precedence shall be Purchase Order, LOI / LOA, specific agreement, Special Conditions of Contract and General Conditions of Contract for commercial conditions; and specific agreement on technical conditions, Special Technical Conditions and General Technical conditions, RFQ / Offer.

4. Interpretation :-

In the contract, except where the context requires otherwise:-

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

5. Ordering and Confirmation of Order :-

The Seller shall send the acceptance of the LOI / Purchase Order within two weeks or such other period as specified/agreed by BHEL from the date of LOI / Purchase Order. Purchaser reserves the right to revoke the order placed if the order acceptance differs from the original order placed. Purchaser shall only be bound after it has agreed explicitly in writing to be in agreement with the deviations. The acceptance of deliveries or supplies by Purchaser 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 by the Seller, if no communication to the contrary is received within two weeks (or the time limit as specified / agreed by the Purchaser) of the receipt of the order.

6. Execution :-

The Seller shall execute the whole contract in the most approved, substantial and workman like manner as per the contracted terms. The Seller shall comply with all laws, ordinances, rules, and regulations bearing upon the performance of its obligations under the terms of the Contract.

7. Progress Reports and Documentation :-

After receipt of Purchase Order, seller 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 indicated in the Purchase order. At any stage within the contract period, the seller 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 seller 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 seller's documents, they shall be corrected at his cost, notwithstanding any consent or approval. The Seller shall submit periodic reports as to the progress in execution of the contract and in such form as may be called for by the Purchaser. The submission and acceptance of such reports shall not prejudice the rights of the Purchaser in any manner.

8. Product Information, Drawings and Documents :-

The Seller shall, as per agreed date / s but not later than the date of delivery, provide information and drawings which are necessary to permit the Purchaser to use, erect, commission, operate and maintain the product. Such information and drawings shall be supplied in the number of copies agreed upon.

9. Non-disclosure and Information Obligations :-

The Seller shall provide Purchaser with all information pertaining to the delivery in so far as it could be of importance to Purchaser. The Seller shall not reveal any confidential information (including price) in relation to the contract in general and those which it may acquire from the purchaser during the course of execution of the contract in particular, to its own employees not involved with the tender / Contract & its execution and delivery or to third parties, or make use of such information pertaining to any data, designs, drawings, specifications and other information furnished to it by the Purchaser, unless Seller seeks a permission to do so from the Purchaser and the Purchaser has agreed to this in writing beforehand. The Seller shall not be entitled to use the Purchaser's name in advertisements and other commercial publications without prior written permission from Purchaser.

10. Intellectual Property Rights; Licenses :-

If any patent design, trade mark, copyright, trade secret or any other intellectual property rights apply to the products / goods supplied, or delivery or accompanying documentation, Purchaser or its Customer shall be entitled to the legal use thereof free of charges by means of a non-exclusive, assignable, transferrable, sub-licensable, worldwide, perpetual license as duly granted by the owner or licensor of such right. All intellectual property rights that arise or developed during or due to the execution of the contract or delivery of the goods by the Seller and by its employees or third parties involved by the Seller for performance of the Contract belong to Purchaser. The Seller is obliged under the contract to do everything necessary to obtain or establish the above mentioned rights in favor of Purchaser. The Seller guarantees that the execution of the contract including goods and its delivery does not infringe any of the intellectual property rights of third parties. The Seller shall do everything necessary to obtain or establish the alternate acceptable arrangement pending resolution of such (alleged) claims by third parties, if any. The Seller agrees to indemnify, defend, and hold harmless Purchaser, its officers, employees, agents, representatives, successors, assigns, or any of the Purchaser's customers buying or using the goods or services, against any actual or alleged infringement of such intellectual property interests or claims by third parties in this regard and shall reimburse Purchaser for any liabilities, damages, penalties, injuries, claims, demands, actions, costs and expenses (including, without limitation, reasonable legal and other professional fees and expenses) suffered as a result thereof.

11. Inspection and Testing :-

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 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.

12. Quality and Condition of the Delivery :-

The Seller shall guarantee that the delivery:-

- a. Is of good quality and free from defects and in the case of services rendered that they are performed by skilled personnel and that new materials are used;
- b. corresponds exactly with the provisions of the Contract, the reasonable expectations of Purchaser regarding the characteristics, quality and reliability of the delivery;
- c. is suitable for the purpose for which it is intended by its very nature or which is evident from the specifications or the Contract;
- d. Complies with legal requirements applicable in India and other (international) Government regulations, as applicable.
- e. Complies with the customary norms and standards in the relevant branch of trade or industry.

The Seller shall be responsible for compliance with applicable technical, safety, quality, environmental requirements and other regulations in relation to its products, packaging, and raw and ancillary materials.

13. Packaging and Dispatch :-

The seller shall package the deliverables 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 by mechanical means. Each package must be marked with consignee name, P.O Number, BHEL material code, Package No., Gross weight & Net weight, Dimensions (LxBxH) and seller's name. The packing shall allow for easy removal and checking of

goods on receipt and comply with carrier's conditions of packing or established trade practices. **Packing list of goods inside each package with P.O item no.& Quantity must also be fixed securely outside the box to indicate the contents. 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.**

14. Delivery :-

Delivery shall be as per Purchase Order delivery terms. Trade terms such as DDL, FOR,EXW, FOB, CFR etc., if stipulated in the order shall be construed in accordance with the version of the INCOTERMS applicable at the time of ordering, without prejudice to the provisions contained in these conditions. The delivery date(s) or delivery period(s) as stipulated in the Contract shall be firm and binding and shall apply to the entire delivery for each PO item. Partial shipments may, however, be permitted by the purchaser.

15. Penalty :-

The time or period of delivery as stipulated in the schedule of delivery shall be deemed to be the essence of the contract. Should circumstances arise whereby the deadline for an agreed delivery date(s) or period(s) is expected to be exceeded, the seller shall inform purchaser hereof without delay. If delay in delivery is caused by any of the circumstances mentioned in clause 25(Force Majeure) or which are caused exclusively by the acts of purchaser, the purchaser shall extend the time for delivery by a period which is reasonable having regard to all the circumstances in the case.

a. 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.

b. 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 delayed 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 in cases where such approval/manufacturing clearance is applicable as per PO. Where pre shipment inspection is applicable, 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.

Imposition, recovery or settlement of this penalty shall not affect any rights of the purchaser to claim enforcement of specific performance of the contract, compensation and/or to terminate the contract.

16. 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 BHEL shall, however, not absolve the vendor of the responsibility of his obligations under the Contract.

17. Transfer of Ownership, title and Risk :-

The risk for the delivery remains with the Seller until the goods are delivered at the agreed place and acknowledged by the Purchaser/his authorized representative.

18. Price, Invoicing and Payment :-

The agreed prices are fixed prices in the currency as specified in the Purchase Order. They shall include packing, forwarding, loading and carriage to the place specified by the Purchaser and are inclusive of all applicable taxes, duties etc. except for those specifically agreed between the Seller and Purchaser. Further, Seller shall indemnify and hold harmless Purchaser from all claims and liabilities, damages, penalties, injuries, claims, demands, actions, costs and expenses (including, without limitation, reasonable legal and other professional fees and expenses) arising from Seller's failure to report or pay any taxes, tariffs or duties for which Seller is responsible. The method of invoicing shall be without prejudice to the parties' agreement as to the place of performance. Indian Agent's commission if payable and so specified in the Purchase Order shall be paid in Indian Rupees, considering the SBI TT selling exchange rate prevailing on the date of Purchase Order, after successful completion of the contract. If so stipulated in the order, the Seller shall furnish, on receipt of the Purchase Order or along with order acknowledgement, the Billing break-up of prices (BBU) for approval by the Purchaser in respect of the major items / components going into the equipment. This BBU is required by the Purchaser for admitting the claims of the Seller if part shipments are contemplated and also to facilitate custom clearance after payment of applicable duties in case of imports. Purchaser shall be entitled to suspend payment for as long as required supporting documents / details remain outstanding and any consequential demurrage / wharfage shall be to the account of the Seller. Payment

does not imply in any respect whatsoever a waiver of Purchaser's right to performance of the Contract. Purchaser is entitled to set off claimable debts against claimable liabilities with the Seller by means of a set off note.

19. Contract Variations; Increase or Decrease in the Scope of Supply :-

The purchaser may vary the contracted quantities during execution, due to exigencies of project requirements with mutual consent of the seller.

20. Guarantee / Warranty :-

Wherever required, and so provided in the specifications / Purchaser Order, the Seller shall guarantee that the goods supplied shall comply with the specifications laid down, for materials, workmanship and performance. If within the guarantee period, the delivery is found to be non-compliant including those with the stipulations in Clause 12 (Quality and Condition of Delivery) of these Conditions, the Seller shall, for its own account, replace, repair, or re-execute the delivery at Purchaser's discretion when first requested to do so within two weeks or mutually agreed period, without prejudice to Purchaser's other legal rights. If the Seller continues to default on its obligations, Purchaser has the right to proceed to replace, repair or re-execute the order at the Seller's expense, with or without help from third parties. Purchaser shall notify the Seller of the exercise of this right in advance where possible. Unless otherwise specified, guarantee period shall be minimum 12 months from the date of commissioning or 18 months from the date of supply whichever is earlier. The guarantee period shall be extended by the period during which the goods are not in compliance with the stipulations in Clause 12 (Quality and Condition of Delivery). A guarantee period as described above shall apply afresh to replaced, repaired or re executed parts of a delivery. The decision of the Purchaser in regard to the Seller's liability under this clause shall be conclusive. This clause shall survive termination / completion of contract.

21. Shortages / Replacements :-

In the event of shortage on receipt of goods and / or on opening of packages at BHEL, all such shortages shall be made good within a reasonable time that BHEL may allow from such intimation and free of cost.

22. Transit Damages :-

In the event of receipt of goods in damaged condition or having found them so upon opening of packages at BHEL 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.

23. Rejection / Replacement :-

The Seller shall arrange replacement / repair under its obligation under the contract within two weeks from the date of intimation or mutually agreed period. The rejected goods shall be taken away by the Seller and replaced on DDP (Delivered duty Paid)/ FOR - BHEL Stores / designated destination basis within such period. In the event of the Seller's failure to comply, Purchaser may take appropriate action including disposal of rejections and replacements, at the cost and risk of the Seller. In case defects attributable to Seller are detected during processing of the goods at purchaser's / his subcontractor works, the Seller shall be responsible for replacement / repair of the goods as required by the Purchaser at Seller's cost. In such cases expiry of guarantee/warranty will not be applicable.

24. Cancellation / Termination of Contract and Risk Purchase :-

a. Purchaser shall have the right to completely or partially terminate the Contract by means of written notice to that effect without prejudicing its other rights and remedies, in an event of default by the Seller :-

Events of default:-

- (i) The Seller fails to perform within the time specified in the Contract or any extension thereof;
- (ii) The Seller defaults on one or more of the obligations or program of work as contained in the Contract.
- (iii) The Seller is declared bankrupt or insolvent or is ordered to be wound up, its business has been shut down or liquidated, a substantial part of its assets have been attached, or the business has been transferred to a third party. In case of partnership firm any dissolution of partnership shall be also considered as an event of default.
- (iv) Any misrepresentation or hiding of material fact if detected at a later stage
- (v) The delivery is rejected after inspection or re-inspection.
- (vi) Export license not granted to Seller by the concerned Government.
- (vii) Incapacity of seller for any other reason to deliver or perform the contract.

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. In the event of termination, the risk and liability attached to the items already delivered but not of use to Purchaser, as determined by Purchaser, remains with the Seller. Such items shall then be at the Seller's disposal and they are to be collected or removed by the Seller. The Seller shall immediately refund any payments in respect of such items if already made by the Purchaser before the termination, and in any case not later than 30 days.

b. In the event of termination due to reasons or defaults by the Seller, the Purchaser may at his option procure from any source, on such terms and in such manner as he deems appropriate, goods not delivered or others of similar description where goods exactly complying are not readily procurable, in the opinion of the Purchaser, which opinion shall be final, at the risk and cost of the Seller and the Seller shall be liable to the Purchaser for any risks and excess cost. The cost of purchases made by the Purchaser at the risk and cost of the Seller shall be worked out after loading 10% overhead / handling charges on the cost of materials and related services procured from alternate source / s. Provided, however, that the Seller shall continue the

performance of the Contract to the extent not cancelled or terminated under the provisions of this clause. The Seller shall on no account be entitled to any gain on such re-purchases by the Purchaser.

- c. Termination of the Contract, from whatever cause arising, shall be without prejudice to the rights of the parties accrued under the Contract up to the time of termination.

25. 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 shall give the other party written notice, with full details as soon as possible and in any event not later than three (3) 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, Purchaser shall reserve 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. Purchaser may takeover partly processed material at a mutually agreed price.

26. Indemnification :-

Vendor is fully responsible for ensuring that all legal compliances and safety guidelines are followed in course of the contract. Notwithstanding any other clause herein to the contrary, the Seller shall indemnify, hold and save harmless, and defend, at its own expense, the Purchaser, its officials, agents, servants and employees from and against all suits, claims, demands, and liability of any nature or kind, including their costs and expenses, arising out of acts or omissions of the Seller, or the Seller's employees, officers, agents or sub-contractors, in the performance of this Contract. This provision shall extend, inter alia, to claims and liability in the nature of employee's compensation and products liability. The obligations under this clause do not lapse upon termination of this Contract.

27. Non-waiver of Defaults :-

If any individual provision of the Contract is invalid, the other provisions shall not be affected.

The failure of Purchaser,

- a. To enforce any of the terms and conditions of the Contract.

Or

- b. To exercise any right or privilege granted to Purchaser.

Under the Contract or under law shall not release the Seller from any of the warranties or obligations under the Contract and shall not be construed as a waiver thereof and the same shall continue in full force and effect.

28. 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 willful 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.

29. 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).

30. 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 Unit head of Electronics 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.

- a. The cost of Arbitration shall be borne equally by the parties.

- b. Notwithstanding the existence of any dispute or difference or any reference for the arbitration, the Seller shall proceed with and continue without hindrance the performance of the work under the Contract with due diligence and expedition in a professional manner.



31. Applicable Laws and Jurisdiction of Courts :-

The Contract shall be governed by the substantive laws of India. This contract shall be construed and interpreted in accordance with the laws of India and shall have exclusive jurisdiction of courts in Bangalore, Karnataka State, India.

32. 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.

ANNEXURE – I

BENEFITS FOR MSE SUPPLIERS AS PER MSMED ACT 2006 AND PUBLIC PROCUREMENT POLICY 2012

MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of CA certificate (Format enclosed at page 2 where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid). Non submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer.

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 per the latest audited
financial year **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:
Rs.Lacs.
- 2. For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:
Rs.Lacs.

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

(or)

The company has been graduated from its original category (Micro/Small) (Strike off which is not applicable) and the date of graduation of such enterprise from its original category is(dd/mm/yy) which is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide S.O.No.3322(E) dated 01.11.2013 published in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date: (Signature)

Name -

Membership Number -

Seal of Chartered Accountant

ANNEXURE – II

LIST OF INTERNATIONAL GATEWAY AIRPORTS

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 – III

LIST OF CONSORTIUM BANKS

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

	Nationalized Banks		Nationalized 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 Hong Kong 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:

- BG should be directly sent to BHEL by the issuing Bank along with covering letter.
- All BGs must be issued from BHEL consortium banks listed above.
- BHEL may accept BG from other Public Sector 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.
- This list is subject to changes. Hence vendors are requested to check this list every time before issuing BGs.

ANNEXURE-IV
BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited¹ (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

Note:

1. Units are advised that expiry of claim period may be kept 2/3 months after validity date.
2. 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.

BANK GUARANTEE FOR ADVANCE

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited¹ (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 called "the Contractor" which expression shall include its successors and permitted assigns) a contract Ref No.....dated³valued at Rs.....(Rupees ----- /FC.....(in words.....) for⁴(hereinafter called the 'Contract')

AND WHEREAS the Employer has agreed to advance to the Contractor, a sum of Rs..... (Rupees..... only), equivalent to _____% of the said value of the Contract (hereinafter called "the said Advance"), upon the condition, that the said Advance shall be secured by undertaking guarantee for Rs ----- (Rupees -----)⁵ from a Bank as hereinafter appearing.

We,, (hereinafter referred to as the Bank), having registered/Head office at and a branch at being the Guarantor under this Guarantee, hereby irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer without any demur, merely on your first demand any sum or sums upto a maximum amount but not exceeding Rs ----- (Rupees -----).

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 hereunder and the Contractors/Supplier shall have no claim against us for making such payment.



We the ANNEXURE.....Bank 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 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 on the request of the Employer for such period as may be desired by the 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 hereof. However, unless a demand or claim under this Guarantee is made on us in writing on or before the⁷ we shall be discharged from all liabilities under this Guarantee.

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
- d) 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.

(Name of the Bank)

Date.....

Place of Issue.....

¹ NAME AND ADDRESS OF THE EMPLOYER i.e Bharat Heavy Electricals Limited² NAME OF VENDOR / CONTRACTOR / SUPPLIER³ DETAILS ABOUT THE NOTICE OF AWARD/ CONTRACT REFERENCE⁴ PROJECT/SUPPLY DETAILS⁵ BG AMOUNT IN FIGURES AND WORDS⁶ VALIDITY DATE⁷ DATE OF EXPIRY OF CLAIM PERIOD⁸ BG AMOUNT IN FIGURES AND WORDS⁹ VALIDITY DATE¹⁰ DATE OF EXPIRY OF CLAIM PERIOD**Note:**

3. Units are advised that expiry of claim period may be kept 2/3 months after validity date.

4. In Case of Bank Guarantees submitted by Foreign Vendors-

c. **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.

d. **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.

BANK GUARANTEE FOR RELEASE OF AMOUNTS WITHHED/LIQUIDATED DAMAGES AMOUNT

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) incorporated under thehaving its registered office at_____ ²(hereinafter referred to as the 'Contractor', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated³valued at Rs.....(Rupees -----)/FC.....(in words.....) for⁴(hereinafter called the 'Contract')

The Contractor as per Contract should have completed the work/ supplies under the contract by.....(date). As per terms and conditions of the Contract, the Employer is entitled to levy Liquidated Damages (LD) for delays and the Employer has withheld an amount of Rsby way of LD as per the Contract.. Now, on the request of the Contractor, the Employer having agreed to release the amount of Rs.....withheld from the Contractor's invoices as Liquidated damages under the terms and conditions of the Contract on production of a Bank Guarantee for Rs._____ (Rupees.....only) ⁵

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 of Rs ----- (Rupees -----) without any demur, merely 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/ Supplier'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
- e) 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 THE 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

Note:

- 5. Units are advised that expiry of claim period may be kept 2/3 months after validity date.
- 6. In Case of Bank Guarantees submitted by Foreign Vendors-



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.

- f. 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.

BANK GUARANTEE FOR SUPPLY FREE ISSUE MATERIAL.

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited¹ (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/Fabricator' 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.....(Rupees -----)/FC.....(in words.....) for⁴(hereinafter called the 'Contract')

and, the Employer having agreed as per the terms and conditions of the Contract to supply free issue material costing Rs._____ for the manufacture/fabrication of the equipment at the Contractor's site on on furnishing a Bank Guarantee for Rs._____ (Rupees.....)⁵in the manner hereinafter specified for the due safeguard of the free issue material,

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 of Rs ----- (Rupees -----) without any demur, merely 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 hereunder 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 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/Supplier/ Fabricator and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's/Supplier's/ Fabricator'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/ Fabricator 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:

f) The liability of the Bank under this Guarantee shall not exceed.....⁸



g) This Guarantee shall be valid up to⁹

h) 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 THE EMPLOER. 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

Note:

7. Units are advised that expiry of claim period may be kept 2/3 months after validity date.

8. In Case of Bank Guarantees submitted by Foreign Vendors-

g. 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.

h. 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.

PROFORMA OF BANK GUARANTEE (in lieu of SECURITY DEPOSIT)

In consideration of the Bharat Heavy Electricals Limited¹ (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 agreed to exempt (Name of the Vendor / Contractor / Supplier) having its registered office at _____² (hereinafter called the said Contractor which term includes supplier), from demand under the terms and conditions of the Contract reference No. _____ dated _____³ valued at Rs.....⁴ (Rupees -----)⁴ (hereinafter called the said Contract) of Security Deposit for the due fulfilment by the said contractor of the terms and conditions contained in the said Contract, on production of a Bank Guarantee for Rs. _____⁵ (Rupees _____ only), we _____(indicate the name and address of the Bank) having its Head Office at _____(address of the head Office) (hereinafter referred to as the Bank) at the request of _____ [Contractor(s)] do hereby undertake to pay to the Employer an amount not exceeding Rs. _____ in the event of any breach by the said Contractor(s) of any of the terms and conditions contained in the said Contract.

We, _____(indicate the name of the Bank), do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely 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(s) 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 hereunder and the Contractor(s) shall have no claim against us for making such payment. We, 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 claim satisfied or discharged or till _____⁶ office/Department/Division of Bharat Heavy Electricals Limited certifies that the terms and conditions of the said Contract have been fully and properly carried out by the said contractor(s) and also including the satisfactory performance of the equipment during guarantee period and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the _____⁷, we shall be discharged from all the liability under this guarantee thereafter.

We, _____(indicate the name of the 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(s) 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(s) and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by any reason of any such variation or extension being granted to the said contractor(s) or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said contractor(s) 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.

This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

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:

- i) The liability of the Bank under this Guarantee shall not exceed.....⁸
- j) This Guarantee shall be valid up to⁹
- k) 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, (indicate the name of the Bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Date _____ Day of _____

for (indicate the name of the Bank)

(Signature of Authorised signatory)

* This date to be indicated should not be earlier than 60 days after the date contemplated under the contract.

¹ NAME AND ADDRESS OF THE EMPLOER. 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

Note:

9. Units are advised that expiry of claim period may be kept 2/3 months after validity date.

10. In Case of Bank Guarantees submitted by Foreign Vendors-

- i. **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.
 - j. **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- V**Process Compliance Form for RA**

(The bidders are required to print this on their company's letterhead and sign, stamp before faxing)

To
- M/s. {Service provider
- Postal address}

Sub: Agreement to the Process related Terms and Conditions

Dear Sir,

This has reference to the Terms & Conditions for the Reverse Auction mentioned in the RFQ document for {Items} against BHEL enquiry/ RFQ no.{.....} dt. {.....}

This letter is to confirm that:

- 1) The undersigned is authorized official/ representative of the company to participate in RA and to sign the related documents.
- 2) We have studied the Reverse Auction Terms & Conditions and the Business rules governing the Reverse Auction as mentioned in your letter and confirm our agreement to them.
- 3) We also confirm that we have taken the training on the auction tool and have understood the functionality of the same thoroughly.
- 4) We also confirm that, in case we become L1 bidder, we will email/ fax the price confirmation & break up of our quoted price (including that of line items) as per pg.7 of Annexure- V within two working days (of BHEL) after completion of RA event, besides sending the same by registered post/ courier both to M/s. BHEL and M/s. {Service provider.}

We, hereby confirm that we will honor the Bids placed by us during the auction process. With regards
Signature with company seal

Name –

Company / Organization
Designation within Company / Organization
Address of Company / Organization

- Sign this document and Fax it to M/s {Service provider} at {.....} prior to start of the Event.

- Attach a signed copy of the RFQ document along with the Agreement Form/ Process Compliance form and d/s{Service provider}

RA price confirmation and breakup

To

- **M/s. Service provider**
- **Postal address**

CC: M/s BHEL

{Unit- Address-}

Sub: **Final price quoted during Reverse Auction and price breakup**

Dear Sir,

We confirm that we have quoted.

Rs. {_____} for item covered under tender enquiry No. {...} dt. {...}

Total price of the items covered under above cited enquiries is inclusive of {Packing & forwarding, E.D., C.S.T., freight and insurance charges upto {.....} District, {.....} State and Type Test Charges etc., (exclusive of service tax), other as per NIT} as our final landed prices as quoted during the Reverse Auction conducted today {date} which will be valid for a period of {__} days.

The price break-up including that of line items is as given below.

Total - Rs.

Thanking you and looking forward to the valuable order from BHEL. Yours

sincerely,

For _____

**Name: Company: Date:
Seal**



ANNEXURE- VI

EXTRACT FROM “MANUAL ON POLICIES & PROCEDURES FOR PURCHASE OF GOODS”

11.2.3. Non-conformities between the figures and words of the quoted prices:

Sometimes, non-conformities/errors are also observed between the quoted prices in figures and that in words. The same is to be taken care of as indicated below:

(a) If, in the price structure quoted for the required goods, 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.

If there is such discrepancy in an offer, the same is to be conveyed to the tenderer with target date on the above lines and if the tenderer does not agree to the observation of the purchaser, the tender is liable to be ignored.

ANNEXURE – VII

PURCHASE PREFERENCE FOR MSE VENDORS:

- a. 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
- b. The MSE vendor matches the L1 price c. L1 price is from a non MSE vendor
- d. 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 vendor will be offered who is within the L1 + 15% band (if L3 is also within 15% band).
- e. 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.

ANNEXURE – IX

LIST OF DOCUMENTS TO BE SUBMITTED DURING DESPATCH OF GOODS :-

Seller shall arrange to send the following documents to the Purchaser, immediately on dispatch of goods: Any addition / exclusion to such documents shall be as specified in the Purchase Order.

For despatches from within India :-

To be sent with the material			To be sent to purchase executive		
1	Delivery challan	(1 copy)	1	GST invoice * – “Original for Buyer”	(1 original + 1 extra copy)
2	GST invoice* – “duplicate for transporter”.	(1 copy)	2	Inspection report / Test report Test certificate (if called for in the PO)	(1 copy)
3	Transporters docket if received through transporter	(1 copy)	3	Warranty certificate(if called for in the PO)	(1 copy)
4	Inspection report / Test report Test certificate (if called for in the PO)	(1 copy)	4	Original money receipt for freight/service charges if applicable	Copy)

*The invoice shall contain all details as mentioned in GST invoice rules

For despatches from outside India :-

To be given to BHEL Freight Forwarder	To be submitted to bank
Invoice & Packing list	Set of documents as per PO / LC

ANNEXURE – X
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:	<input type="text"/>
Company Name :	<input type="text"/>
Permanent Account Number(PAN):	<input type="text"/>
Address	<input type="text"/>
	<input type="text"/>
	<input type="text"/>

City: <input type="text"/>	PINCODE <input type="text"/>	STATE <input type="text"/>
----------------------------	------------------------------	----------------------------

Contact Person(s)	<input type="text"/>
Telephone No:	<input type="text"/>
Fax No:	<input type="text"/>
e-mail id:	<input type="text"/>

1 Bank Name:	<input type="text"/>
2 Bank Address:	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
3 Bank Telephone No:	<input type="text"/>
4 Bank Account No:	<input type="text"/>
5 Account Type: Savings/Cash Credit	<input type="text"/>
6 9 Digit Code Number of Bank and branch appearing on MICR cheque issued by Bank	<input type="text"/>
7 Bank swift Code(applicable for EFT only)	<input type="text"/>
8 Bank IFSC code(applicable for RTGS)	<input type="text"/>
9 Bank IFSC code(applicable for NEFT)	<input type="text"/>

- 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