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INVENTORY No.										SIGN. & DATE										REF. DRG. No.										COPYRIGHT AND CONFIDENTIAL										THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																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ELECTRONICS DIVISION, BANGALORE										No. OF SHEETS SHEET No. REV										25 16 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MANUFACTURING QUALITY PLAN (MQP)														
ITEM :		MODULE MOUNTING STRUCTURE FOR SPV PLANT												
MQP NO.:		PROJECT NAME: GSEC 75 MW Dhuvanan and 100 MW Raghunesda												
REV. NO.:		CONTRACT NO.:												
DATE :		CONTRACTOR:												
		CUSTOMER :												
		BHFL												
Sr. No.	Component & Operation	Characteristics	Class	Type of Check	Quantum of Check		Reference Document	Acceptance Norms	Format of Record			Agency		Remarks
					M	C				9	D	M	C	
1	2		4	5			7	8						11
A	Structures													
1	RAW MATERIAL													
1.1	Hot Rolled Structures- Steel-As per BOM and BHFL Dwg	a) Chemical Composition	Major	Chemical	1 Sample/40 MT or Part thereof for each class of Product.	Each lot	Approved. Drg IS: 2062-2011 IS: 8500-1991 IS: 228-1987 IS: 1608-2005 IS: 1599-1983	Approved. Drg IS: 2062-2011 IS: 8500-1991 IS: 228-1987	✓	Procedure/s/ fabricator's Certificate/ Check Test Reports			V	Steel to be procured from OEM sub-vendors viz Tata, SAIL, RINL, Essar, Lloyd, Jindal. In case of any sub-vendors other than the above, vendor, after receipt of PO from BHFL, shall obtain approval from BHFL.
		b) Tensile Test(TS, YS %Elongation)	Major	Mech.	1 Sample/40 MT or Part thereof for each class of Product.	Each lot	Approved. Drg IS: 8500-1991 IS: 228-1987	Approved. Drg IS: 2062-2011 IS: 8500-1991 IS: 228-1987 IS: 1599-1983 Material Shall be free from surface defects like lamination, rough jagged & imperfect edges & other harmful defect(removal) of minor surface defect as per IS:2062C1-7 is acceptable	✓	Procedure/s/ fabricator's Certificate/ Check Test Reports			V	IS:2062-2011/Material Grade refred as per drawing/BOM shall be used. All tolerances as per relevant code/Tech Spec/drawing
		c) Bend Test	Major	Mech.	1 Sample/40 MT or Part thereof for each class of Product.	Each lot	Approved. Drg IS: 2062-2011 IS: 8500-1991 IS: 228-1987	Approved. Drg IS: 2062-2011 IS: 8500-1991 IS: 228-1987	✓	Procedure/s/ fabricator's Certificate/ Check Test Reports			V	
		d) Visual Check for Surface	Major	Visual	100%	Each lot	Approved. Drg IS: 2062-2011 IS: 8500-1991 IS: 228-1987 IS: 1608-2005 IS: 1599-1983	Approved. Drg IS: 2062-2011 IS: 8500-1991 IS: 228-1987 IS: 1608-2005 IS: 1599-1983	✓	Procedure's Inspection Report	P		V	
		e)Dimension	Major	Measure	As per IS:2500-1992 SSP Level -1 AQL 6.5	Each lot	IS: 808-1989 (Angles) IS: 1852-1985 (Plates) IS: 1730-P-1-1989 IS: 2062-2011	IS: 808-1989 (Angles) IS: 1852-1985 (Plates) IS: 1730-P-1-1989 IS: 2062-2011	✓	Fabricator's Inspection Report	P		V	
1.2	Cold formed sections- As per BOM in BHFL Dwg	a) Chemical Composition	Major	Chemical	100%	Each lot	Approved. Drg IS: 811 IS: 1161 or IS: 1079	Approved. Drg IS: 811 IS: 1161 or IS: 1079	✓	MTC & Supplier's Inspection report			V	All cold formed steel material shall have a minimum Fy as per BOM BHFL Dwg
		b) Tensile Test(TS, YS %Elongation)	Major	Mech.	100%	Each lot	Approved. Drg IS: 811 IS: 1161 or IS: 1079	Approved. Drg IS: 811 IS: 1161 or IS: 1079	✓	MTC & Supplier's Inspection report			V	
		c) Bend Test	Major	Mech.	100%	Each lot	Approved. Drg IS: 811 IS: 1161 or IS: 1079	Approved. Drg IS: 811 IS: 1161 or IS: 1079	✓	MTC & Supplier's Inspection report			V	
		d) Visual Check for Surface	Major	Visual	100%	Each lot	Approved. Drg IS: 811 IS: 1161 or IS: 1079	Approved. Drg IS: 811 IS: 1161 or IS: 1079	✓	MTC & Supplier's Inspection report			V	
		e)Dimension	Major	Measure	As per IS:2500-1992 SSP Level-1 AQL 6.5	Random for each lot	IS:811	IS:811	✓	Fabricator's Inspection Report	P		V	
		i) For cold formed sections ( columns ) Length, out of squareness, camber-weight	Major	Measure	As per IS:2500-1992 SSP Level -1 AQL 6.5	Random for each lot	IS: 811	IS:811	✓	Fabricator's Inspection Report	P		V	
1.3	Zinc	Chemical Composition	Major	Measure	1 Sample/lot	Random for each lot	IS:209-1992	IS:209-1992 Zn-99.5%	✓	Procedure's TC/ Check Test Report	P		V	

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DATE :				CUSTOMER : BHSL										
Sr. No.	Component & Operation	Characteristics	Class	Typ of Check	Quantum of Check		Reference Document	Acceptance Norms	Format of Record			Agency		Remarks
					M	C				D	M	C		
1	2		4	5			?	8	9	D	10		11	
IN PROCESS INSPECTION														
2.1	Fabrication of parts of assy.	a)Straightening	Major	Visual	100%	Random for each lot	IS 802-P-11:1978	IS 802-P-11:1978	Fabricator's Inspection Report	✓	P	V	Punching may be adopted for section upto 12mm thick. For thicker drilling to be done	
		b)Cropping (Cutting)	Major	Visual	1st piece & every 100th piece	Random for each lot	Approved drgs. / Shop Sketches	Approved Drgs./Tech. Spec.	Fabricator's Inspection Report	✓	P	V		
		c)Stamping (Identification-mark Number)	Major	Visual	100%	Random for each lot	Approved Drgs./Tech. Spec.	Approved Drgs./Tech. Spec.	Fabricator's Inspection Report	✓	P	V		
		d) Making hole by Punching/Drilling.	Major	Measure	1st piece & every 100th piece	Random for each lot	IS 802-P-11:1978	Holes should be perpendicular to surface & difference in dia. Of holes on the two sides of plates / angle should not be more than 0.8mm. Holes near bends to be punched/ drilled.	Fabricator's Inspection Report	✓	P	V		
		e) Edge Security	Major	Measure	1st piece & every 100th piece	Random for each lot	IS 802-P-11:1978	IS 802-P-11:1978 Table. 1	Fabricator's Inspection Report	✓	P	V		
		f)Hole to Hole Distance	Major	Measure	1st piece & every 100th piece	Each lot	IS 802-P-11:1978	Tolerance cumulative # 2mm & between consecutive hole #1mm	Fabricator's Inspection Report	✓	P	V		
		g)Overall length of members	Major	Measure	1st piece & every 100th piece	Random for each lot	IS 802-P-11:1978	Tolerance #2mm	Fabricator's Inspection Report	✓	P	V		
		h) Gauge Distance	Major	Measure	1st piece & every 100th piece	Random for each lot	IS 802-P-11:1978	Tolerance # 1mm	Fabricator's Inspection Report	✓	P	V		
		i) Notching flange cut, corner cut & level cut	Major	Measure	1st piece & every 100th piece	Random for each lot	IS 802-P-11:1978	5mm on specified length of cut operation by shearing up to 12mm thick & by gas cutting for material above 12mm thick/IS 802-P-11:1978 Table. 1	Fabricator's Inspection Report	✓	P	V		
		j) Heel Grinding	Major	Measure	1st piece & every 100th piece	Random for each lot	IS 802-P-11:1978	After Grinding thickness on heel should be equal or more than the thickness of the member with +2mm/ 0mm/ as per spec.	Fabricator's Inspection Report	✓	P	V		
2.3	GALVANIZING	k) Bending MS	Major	Measure	100%	Random for each lot	IS 802-P-11:1978	Tech Specification cold bend upto 76X6mm upto 10, upto 100X8 upto 5 all other angle section & bend angle shall be bent hot.	Fabricator's Inspection Report	✓	P	V		
		l) Bending MS Plate	Major	Measure	1st piece & every 100th piece	Random for each lot	IS 802-P-11:1978	Cold bend 12mm thick upto 15angle, greater bend & other thickness shall be bent hot	Fabricator's Inspection Report	✓	P	V		
		m) Other Dimension	Major	Measure	1st piece & every 100th piece	Random for each lot	IS 802-P-11:1978/ IS 7215-1974	IS 7215-1974	Fabricator's Inspection Report	✓				
		a)Solution Strength	Major	Visual	1 Sample Daily	Random for each lot	IS 2329: 1843	Galvanizer QC Records	✓	P	V			
2.31	Rinsing	b)PH Value	Major	Chem.	1 Sample Daily	Random for each lot	IS 2329: 1843	Galvanizer QC Records	✓	P	V			
a)Cleanliness		Major	Visual	1 Sample Daily	Random for each lot	IS 2329: 1843	Galvanizer QC Records	✓	P	V				
2.32	Pickling	a)Acid Content	Major	Chem.	1 Sample Daily	Random for each lot	IS 2329: 1843	Galvanizer QC Records	✓	P	V			
2.33		b)Iron Content	Major	Chem.	1 Sample Daily	Random for each lot	IS 2329: 1843	Galvanizer QC Records	✓	P	V			

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2.34	Rinsing	Cleanliness (Mill Scale paint marks etc.)	Major	Chem.	1 Sample Daily	Random for each lot		IS: 2829:1985	Galvanizer QC Records	P	V	Pre-Fluxing in Zinc Chlorides & ammonium chloride solution.	
2.35	Pre-Fluxing	a)Dry Fluxing	Major	Chem.	1 Sample Daily	Random		IS: 2829:1985	Galvanizer QC Records	P	V		
		b)Iron Content	Major	Chem.	1 Sample Daily	Random		IS: 2829:1985	Galvanizer QC Records	P	V		
		c)Specific Gravity	Major	Chem.	1 Sample Daily	Random	IS:2629-1985	50gm/Ltr. Max 1.11 to 1.30	Galvanizer QC Records	P	V		
		d)pH Value	Major	Chem.	1 Sample Daily	Random	IS:2629-1985	4 to 5	Galvanizer QC Records	P	V		
		e)Temperature	Major	Measure	Hourly	Random		IS: 2829:1985	Galvanizer QC Records	P	V		
2.36	Pre Heating	Temperature	Major	Measure	Hourly	Random		IS: 2829:1985	Galvanizer QC Records	P	V	Calibrated Instrument to be used.	
2.37	Hot Dip Galvanizing	a)Temperature	Major	Measure	Continuous recording & hourly measurement	Random	IS:2629-1985	440 to 460 deg. Celsius	Galvanizer's QC Records.	P	V	Zinc Bath temperature to be recorded continuously on graph & hourly manual recording shall also be done using digital temp. indicator & actual verification by thermometer.	
		b)Immersion time	Major	Measure	Each Lot	Random		IS: 2829:1985	Galvanizer's QC Records.	P	V		
		c) Removal of excessive zinc while lifting from zinc bath by bumping process.	Major	Measure	Each Item	Random		IS: 2829:1985	Galvanizer's QC Records.	P	V	Wiping & scrapping process not to be used.	
2.38	Quenching or Running Water	Cooling & cleaning.	Major	Measure	Each Item	Random		IS: 2829:1985	Galvanizer's QC Records.	P	V		
2.39	Post Treatment or Dichromating.	Solution Strength	Major	Chem.	Once in day	Random		IS: 2829:1985	Galvanizer's QC Records.	P	V		
2.4	Check on member after galvanizing.	a) Surface Defect & Finish	Major	Visual	100%	Random		IS: 2829:1985	Galvanizer's QC Records.	P	V		
		b) Thickness of Zinc Coating.	Major	Measure	Each Batch	Each Lot	IS:4759:1996	IS:4759:1996	Galvanizer's QC Records.	P	V		
		c) Mass of Zinc Coating	Major	Chem.	1 Sample/ Shift	Each Lot	IS:4759:1996	IS:4759:1996	Galvanizer's QC Records.	P	V		
		d) Uniformity of zinc coating (Preece Test)	Major	Chem.	Sample/ Shift	Each Lot	IS:2633:1986	IS:2633:1986	Galvanizer's QC Records	P	V		
		e) Adhesion test of zinc coating (Pivot Hammer Test/Knife Test)	Major	Chem.	Sample/ Shift	Each Lot	IS:2633:1986	No Removal or Lifting of Coating between hammer impression/ coating should not be peeled off.	Galvanizer's QC Records	P	V		
2.41	Stenciling of Mark/Number	Marking	Major	Visual	100%	Random	Approved Drg.	Approved Drg.	Galvanizer's QC Records	P	V	At Both Ends with black Paint	
3	FINAL INSPECTION												
3.1	Fabrication Member after Galvanizing	a)Surface Finish, Defects & dichromating.	Major	Visual	100%	Random for each lot as per IS 2500 for reduced inspection	IS:2629:1985	IS:2629:1985	Final Inspection Report	P	W	Test qty/ sample no.s shall be as per offered lot size and IS:2500 for reduced inspection level S-4- to be fixed at time of offering.	
		b)Dimensions	Major	Measure	Random Sample from Each lot offered for inspection on single occasion	Random for each lot as per IS 2500 for reduced inspection	IS:4759:1996 IS:802-P-1:1978	IS:4759:1996 IS:802-P-1:1978		P	W		
3.2	Verification of basic material quality	a)Chemical Composition	Major	Chem.	Random sample from each lot offered for inspection on single occasion.	Random for each lot as per IS 2500 for reduced inspection	Approved Drg. IS:2062:1992 IS:8500:1991 IS:228:1987 IS:1608:1995 IS:1599:1985	Approved Drg. IS:2062:1992 IS:8500:1991 IS:228:1987 IS:1608:1995 IS:1599:1985	Fabricator's Test Reports	P	V	Sample for chemical test to be sealed for third party lab or test to be witnessed at manufacturer's lab depending on availability of apparatus.	



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1	2		4	5			7	8	9	D	10		11	
		b)Tensile Test (T.S.Y.S.%E)	Major	Mech.	lot offered for inspection on single occasion.	Random for each lot as per IS 2500 for reduced inspection	Approved Drg. IS:2062:1992 IS:8500:1991 IS:228:1987 IS:1608:1995 IS:1599:1985	Approved Drg. IS:2062:1992 IS:8500:1991 IS:228:1987 IS:1608:1995 IS:1599:1985	Fabricator's Test Reports	✓	P	W		
		c)Bend Test	Major	Mech.	Random sample from each lot offered for inspection on single occasion.	Random for each lot as per IS 2500 for reduced inspection	Approved Drg. IS:2062:1992 IS:8500:1991 IS:228:1987 IS:1608:1995 IS:1599:1985		Fabricator's Test Reports	✓	P	W		
3.3	Filet Welding Quality	Weld Quality	Major	Visual						Not Applicable				
3.4	Galvanizing	a)Thickness of Zinc Coating	Critical	Measure	Random	Random for each lot as per IS 2500 for reduced inspection	IS:2629:1985/ As per tech. spec.	IS:2629:1985/ As per tech. spec.	Fabricator's QC Reports	✓	P	W		
		b)Mass of Zinc coating	Critical	Measure	Sample/ each thickness offered for insp. on single occasion	Random for each lot as per IS 2500 for reduced inspection	IS:6745:1972/ As per tech spec.	IS:6745:1972/ As per tech spec.	Fabricator's QC Reports	✓	P	W		
		c)Uniformity of Zinc Coating	Critical	Measure	Sample/ each thickness offered for insp. on single occasion	Random for each lot as per IS 2500 for reduced inspection	IS:2633:1986/ As per tech spec.	IS:2633:1986/ As per tech spec.	Fabricator's QC Reports	✓	P	W		
		d)Adhesion Test of Zinc Coating (Pivot Hammer/Knife Test)	Critical	Measure	Sample/ each thickness offered for insp. on single occasion	Random for each lot as per IS 2500 for reduced inspection	IS:2629:1985	IS:2629:1985	Fabricator's QC Reports	✓	P	W		
3.5	Review of Documents (TC/TR)	a)Document Review	Major	Review		Each Lot	As Per QA Plan	As Per QA Plan	As Per QA Plan	✓	P	V	1)Sequential supplies to be monitored & assured by main contractor.	
4	PACKING STORING /BUNDLING & HANDLING	Packing	Major	Visual	Every Lot	Random	IS: 802-P-1:1978	Pieces of light sections to wire bundled & heavy sections to be supplied loose. Stacking to have proper ventilation.	As Per QA plan	✓	P	V	2)Material rejected by Customer shall be kept under separated custody marked with plant till all the supplies are dispatched to site or destroyed by cutting Presence of Customer Representative.	
5	DESPATCH	Verification a)Sequential supplies b)Stenciling/Part No. c)Quality	Major	Review	As per packing List	Random	Appd. Drgs. & BOM	Appd. Drgs. & BOM	Fabricator's Dispatch Records	✓	P	V		
<b>LEGEND:</b> M: MANUFACTURER C:BHFL and GSECL D:DOCUMENT P:PERFORM W:WITNESS V: VERIFICATION														
MANUFACTURER										CUSTOMER				

## **Self-Certification on the letter head of the company**

In line with Government Public Procurement Order No. P-45021/2/2017-BE-II dt. 15.06.2017, P-45021/2/2017-PP (BE-II) dated 28.05.2018

AND

P-45021/2/2017-PP (BE-II) dated 29.05.2019, issued by Ministry of Commerce and Industry

AND

Office Memorandum issued by MNRE REF no F No. 146/57/2018-P&C dated 11/12/2018

We hereby certify that

.....  
(Supplier name) are local supplier meeting requirement of minimum local content (50%) defined in as above orders for the material against Enquiry No

.....  
.....  
.....  
Details of location at which local value addition will be made is as follows:

.....  
.....  
.....  
We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

Authorised signatory with date

Name of Authorised Signatory

Seal of Company

## Annexure - VIII

### **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) /UAM no:\_\_\_\_\_.  
dtd:\_\_\_\_\_ Category:\_\_\_\_\_ (Micro/Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment and turnover of the company  
as per the latest audited financial year \_\_\_\_\_. as per MSMED Act 2006 is as follows:

1.For Enterprises: Investment in plant and machinery (i.e. original cost excluding land and  
building and the items specified by the Ministry of Small Scale Industries vide its notification  
No.S.O. 1702(E) dated June 1, 2020 INR\_\_\_\_\_.Lacs

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

1.For Enterprises: turnover specified by the Ministry of Small Scale Industries vide its  
notification No.S.O. 1722(E) dated October 5, 2006 •INR\_\_\_\_\_.Lacs  
(Strike off whichever is not applicable)

The above turnover of INR \_\_\_\_\_.Lacs is within permissible limit of  
INR\_\_\_\_\_.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/yyyy) 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 –

UDIN:

Seal of Chartered Accountant



ಭಾರತ್ ಹವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್  
भारत हेवी इलेक्ट्रिकल्स लिमिटेड

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

PB 2606 , Mysore Road Bangalore , 560026 INDIA

SCPV: BOS: ITB - Rev 04

## **INSTRUCTIONS TO BIDDERS (ITB)**

**Bidders are requested to read the instructions carefully and submit their quotations covering all the points:**

### **A. GENERAL INSTRUCTIONS:**

1. Any Purchase Order resulting from this enquiry shall be governed by the Instructions to Bidders (document reference: SCPV: BOS: ITB – Rev 01), General Conditions of Contract (document reference: SCPV: BOS: GCC - Rev 01) and Special Conditions of Contract (document reference: SCPV: BOS: SCC: I - Rev 01/ SCPV: BOS: SCC: F - Rev 01), if any, of the enquiry.
2. Any deviations from or additions to the “General Conditions of Contract” or “Special Conditions of Contract” require BHEL’s express written consent. The general terms of business or sale of the bidder shall not apply to this tender.
3. Bidders (also includes the term suppliers / contractors wherever used in this document) are instructed to quote their most competitive price and best delivery, etc. in the offer. Prices should be indicated in both figures & words. **(Please also refer clause 11 under section B)**
4. Regret letter (either through post or by mail) indicating reasons for not quoting must be submitted without fail, in case of non-participation in this tender. If a bidder fails to respond against 3 consecutive tenders for the same item, he will be liable for removal as a registered vendor of BHEL.
5. Procurement directly from the manufacturers shall be preferred. However, if the OEM / Principal insist on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer / supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer / supplier or the manufacturer / supplier could bid directly but not both. In case bids are received from the manufacturer / supplier and his agent, bid received from the agent shall be ignored.
6. Consultant / firm (and any of its affiliates) shall not be eligible to participate in the tender/s for the related goods for the same project if they were engaged for consultancy services for the same project.
7. If an Indian representative / associate / liaison office quotes on behalf of a foreign based bidder, such representative shall furnish compulsorily the following documents:
  - a. Authorization letter to quote and negotiate on behalf of such foreign-based bidder.
  - b. Undertaking from such foreign based bidder that such contract will be honored and executed according to agreed scope of supply and commercial terms and conditions.
  - c. Undertaking shall be furnished by the Indian representative stating that the co-ordination and smooth execution of the contract and settlement of shortages / damages / replacement / repair of imported scope till system is commissioned and handed over to customer will be the sole responsibility of the Indian representative / associates / agent / liaison office.
8. In case of imported scope of supply, customs clearance & customs duty payment will be to BHEL account after the consignment is received at Indian Airport / Seaport. Bidders must provide all original documents required for completing the customs clearance along with the shipment. Warehousing charges due to incomplete or missing documentation will be recovered from the supplier’s bill. All offers for imported scope of supply must be made from any of the gateway ports (within the country) indicated. **(Refer Annexure I)**
9. The offers of the bidders who are on the banned list and also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of the banned firms is available on BHEL website: **www.bhel.com**.

10. Business dealings with bidders will be suspended if they are found to have indulged in any malpractices / misconduct which are contrary to business ethics like bribery, corruption, fraud, pilferage, cartel formation, submission of fake/false/forged documents, poor quality, certificates, information to BHEL or if they tamper with tendering procedure affecting the ordering process or fail to execute a contract, or rejection of 3 consecutive supplies or if their firms / works are under strike / lockout for a long period.

#### **B. GUIDELINES FOR PREPARATION OF OFFER:**

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

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

2. Supplier shall ensure to super scribe each envelope with RFQ number, RFQ Date, RFQ Due date and time, Item Description and Project clearly & boldly. Also mention on the envelope whether it is "Techno Commercial Bid" or "Price Bid" or "Pre-Qualification Bid". Please ensure complete address, department name and purchase executive name is mentioned on the envelope (before dropping in the tender box or handing over) so that the tender is available in time for bid opening.
3. BHEL standard Commercial Terms and Conditions shall be duly filled, signed & stamped and must accompany Technical-Commercial offer without fail and should be submitted in original only. Photocopy will not be accepted. All documents submitted along with the offer shall be signed and stamped in each page by authorized representative of the bidder.
4. Any of the terms and conditions not acceptable to supplier, shall be explicitly mentioned in the Techno-Commercial Bid. If no deviations are brought out in the offer it will be treated as if all terms and conditions of this enquiry are accepted by the supplier without any deviation.
5. Deviation to this specification / item description, if any, shall be brought out clearly indicating "DEVIATION TO BHEL SPECIFICATION" without fail, as a part of Techno-Commercial Bid. If no deviations are brought out in the offer it will be treated as if the entire specification of this enquiry is accepted without deviation.
6. Suppliers shall submit one set of original catalogue, datasheets, bill of materials, dimensional drawings, mounting details and / or any other relevant documents called in purchase specification as part of Technical Bid.
7. "Price Bid" shall be complete in all respects containing price break-up of all components along with all applicable taxes and duties, packing & forwarding charges (if applicable), freight charges (if applicable) etc. Once submitted no modification / addition / deletion will be allowed in the "Price Bid." Bidders are advised to thoroughly check the unit price, total price to avoid any discrepancy.
8. In addition, bidder shall also quote for erection & commissioning charges (I&C charges), documentation charges, service charges, testing charges (type & routine), training charges, service tax, etc. wherever applicable. The price summary must indicate all the elements clearly.
9. Vendors should indicate "lump sum" charges (including To & Fro Fare, Boarding, Lodging, Local Conveyance etc.) for Supervision of Erection, Commissioning and handing over to customer. The quotation shall clearly indicate scope of work, likely duration of commissioning, pre-commissioning checklist and service tax (if any).
10. Wherever bidders require PAC (Project Authority Certificate) for import of raw materials, components required for Mega

Power Projects, Export Projects, MNRE Concession or other similar projects wherein supplies are eligible for customs duty /Excise duty benefits, lists and quantities of such items and their values (CIF) has to be mentioned in the offer. Prices must be quoted taking into account of such benefits.

11. All quotations shall be free from corrections /overwriting. Corrections if any should be authenticated with signature and seal. Any typographical error, totalling mistakes, currency mistake, multiplication mistake, summing mistakes etc. observed in the price bids will be evaluated as per **Annexure VI** "Guidelines for dealing with Discrepancy in Words & Figures – quoted in price bid". BHEL decision will be final.

#### **C. GUIDELINES FOR OFFER SUBMISSION:**

1. Offers / Quotations must be dropped in tender box before 13.00 Hrs. on or before due date mentioned in RFQ. The offers are to be dropped in the proper slot of the Tender Box kept in our reception area with caption "CE, SC&PV, DEFENCE." Tenders are opened on 3 days in a week (Monday/Wednesday/Friday). Tender must be deposited in the slot corresponding to the day (Monday - Box no.4/Wednesday - Box no. 6 /Friday - Box no.8) while depositing the offer. **(This clause will not be applicable for e-tenders).**
2. E-Mail / Internet / EDI offers received in time shall be considered only when such offers are complete in all respects. In case of offers received through E-mail, please send the offer to the email IDs within time of submission of tender.
3. In cases where tender documents are bulky, or due to some reasons tender documents are required to be submitted by hand or through posts/couriers, the offers are to be handed over to purchase officers.
4. Tenders will be opened on due date, time and venue as indicated in the RFQ in the presence of bidders at the venue indicated in the RFQ. In case of e-procurement, bidders can see tender results till seven days after due date and time.
5. Vendor will be solely responsible:
  - a. For submission of offers before due date and time. Offers submitted after due date and time will be treated as "Late offers" and will be rejected.
  - b. For submission of offers in the correct compartment of the tender box based on the day of due date (Monday/Wednesday/Friday). Please check before dropping your offer in the correct tender box.
  - c. For depositing offers in proper sealed condition in the tender box. If the bidder drops the tender in the wrong tender box or if the tender document is handed over to the wrong person BHEL will not be responsible for any such delays.
  - d. For offers received through email/courier etc., suppliers are fully responsible for lack of secrecy on information and ensuring timely receipt of such offers in the tender box before due date & time.
  - e. In case of e-tender, all required documents should be uploaded before due date and time. Availability of power, internet connections, etc. will be the sole responsibility of the vendor. Wherever assistance is needed for submission of e-tenders, help line numbers and executives of service provider of BHEL may be contacted.  
Service provider: e-Procurement Technologies Limited (abc Procure)  
Website address: <https://bhel.abcprocure.com>  
Helpline no.: +91-79-68136819/809/862/867/823/872/842 (9:30 am to 5:30 pm)  
10:00 AM - 07:00 PM (Monday - Friday)  
10:00 AM-04:00 PM (Saturday)

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

#### **D. PROCESSING OFFERS RECEIVED:**

1. Any discount / revised offer submitted by the supplier on its own shall be accepted provided it is received on or before the due date and time of offer submission (i.e. Part-I bid). The discount shall be applied on pro-rata basis to all items unless specified otherwise by the bidder.
2. Changes in offers or Revised offers given after Part-I bid opening shall not be considered as a part of the original offer unless such changes / revisions are requested by BHEL.
3. In case there is no change in the technical scope and / or specifications and / or commercial terms & conditions by BHEL, the supplier will not be allowed to change any of their bids after Technical bids are opened (after the due date and time of tender opening of Part-1 Bid).

4. In case of changes in scope and/ or technical specifications and/ or commercial terms & conditions by BHEL and it accounts for price implications from vendors, all techno-commercially acceptable bidders shall be asked by BHEL (after freezing the scope, technical specifications and commercial terms & conditions) to submit the impact of such changes on their price bid. Impact price will be applicable only for changes in technical specification / commercial conditions by BHEL. The impact price must be submitted on or before the cut-off date specified by BHEL and the original price bid and the price impact bid will be opened together at the time of price bid opening. Impact price means only for those items which have been impacted by addition / deletion / changes in the technical specifications or commercial conditions. The impact may be +/- incremental value of the currency in which originally quoted. The impact price bid to be submitted on the cut-off date, time & venue as specified by BHEL. The impact price bid shall be opened along with original price bid.
5. Un-opened bids (including price bids) will be returned to the respective bidders after release of PO and receipt of order acknowledgement from the successful bidder.
6. After receipt of Purchase Order, supplier should submit required documents like drawings, bill of materials, datasheets, catalogues, quality plan, test procedure, type test report , O & M Manuals and / or any other relevant documents as per Specification / Purchase Order, as and when required by BHEL / Customer.
7. Any deviation to the terms and conditions not mentioned in the quotation by supplier in response to this enquiry will not be considered, if put forth subsequently or after issue of Purchase Order, unless clarification is sought for by BHEL EDN and agreed upon in the Purchase Order.
8. Evaluation shall be on the basis of delivered cost (i.e. "Total Cost to BHEL"). As per RFQ terms.  
"Total Cost to BHEL" shall include total basic cost, packing & forwarding charges, taxes and duties, inspection charges, freight charges, test charges, insurance, service tax for services, any other cost indicated by vendor for execution of the contract and loading factors (for non-compliance to BHEL Standard Commercial Terms & Conditions). Benefits arising out of Nil Import Duty on Mega Projects, Physical Imports or such 100% exemptions & MNRE Exemptions (statutory benefits), customer reimbursements of statutory duties (like Excise Duty, CST, VAT) will also be taken into account at the time of tender evaluation. (Wherever applicable and as indicated in SCC document of tender)
9. For evaluation of offers in foreign currency, the exchange rate (TT selling rate of SBI) shall be taken as under:
 

Single part bids:	Date of tender opening
Two/three part bids:	Date of Part-I bid opening
Reverse Auction:	Date of Part-I bid opening

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

If the relevant day happens to be a bank holiday, then the exchange rate as on the previous working day of the bank (SBI) shall be taken.
10. Ranking (L-1, L-2 etc.) shall be done only for the techno-commercially acceptable offers and on the basis or evaluation of Total Cost to BHEL.

#### **E. INFORMATION ON PAYMENT TERMS:**

1. All payments will be through Electronic Fund transfer (EFT). Vendor has to furnish necessary details as per BHEL standard format (**Refer Annexure IV**) for receiving all payments through NEFT. (Applicable for Indian vendors only)
2. Statutory deductions, if any, will be made and the deduction certificate shall be issued. In case vendor does not provide PAN details, the TDS deduction shall be at the maximum percentage stipulated as per the provisions of Income Tax Act. (Applicable for Indian vendors only). Foreign vendors shall submit relevant details of their bankers like Swift Code, Banker's Name & Address etc.
3. Vendors must submit bills & invoices along with required supporting documents in time. Incomplete documentation / delayed submission of invoice / documents will result in corresponding delay in payment.

**F. STANDARD PAYMENT TERMS OF BHEL-EDN****Purchase Orders for indigenous procurement****(a) SUPPLY WITH I&C/SUPERVISION:****Supply:**

- 1) 80% of basic Supply value + 100% of taxes, duties and freight charges will be paid with 45 days credit from the receipt of material at site or 15 days credit from the date of submission of complete set of documentation whichever is later.
- 2) 10% of basic supply value will be paid on completion of I&C against submission of supplementary invoice along with proof of completion of I&C along with I&C charges (if any).
- 3) Balance 10% (retention money) against submission of supplementary invoice along with PBG valid for Warranty Period+3 months Claim Period from BHEL Consortium Bank.

**I&C/Supervision:** 100% on completion of I&C/Supervision and certification line item wise on pro-rata basis.

**O&M:** 100% O&M charges are payable as per RFQ terms against report certified by BHEL.

**(b) SUPPLY ONLY:**

- 1) 100% of Basic value with taxes, duties and freight will be paid with 45 days credit from the receipt of material at site or 15 days credit from the date of submission of complete set of documentation whichever is later)+ submission of PBG valid for Warranty Period+ 3 months Claim Period from BHEL Consortium Bank ,if applicable.

**Purchase orders for import procurement:****(c) SUPPLY WITH I&C/SUPERVISION:****Supply:**

- 1) 80% of the basic value (excluding I&C charges) will be paid with 45 days credit, against Sight draft, from the date of AWB/BOL on submission of complete set of documents as in PO.
- 2) 10% of basic supply value will be paid on completion of I&C against submission of supplementary invoice along with proof of completion of I&C along with I&C charges (if any).
- 3) Balance 10% (retention money) against submission of supplementary invoice along with PBG valid for Warranty Period+3 months Claim Period from BHEL Consortium Bank.

**I&C:** 100% on completion of I&C/Supervision and certification line item wise on pro-rata basis.

**(d) SUPPLY ONLY:**

- 1) 100% of PO value will be paid against Sight draft with 45 days Credit from the date of dispatch or 15 days credit from the date of submission of complete set of documents whichever is later )+ submission of PBG valid for Warranty Period+3 months Claim Period from BHEL Consortium Bank ,if applicable.

**Note for (a), (b), (c) and (d):** In exceptional cases, if vendor fails to submit PBG after supplies, vendors can also accept for the final 10% payment, payable after the warranty period + 3 months of claim period against supplementary invoice subject to the completion of commissioning (if applicable) as PBG is linked to Warranty period.



**G. LOADING FACTORS FOR PAYMENT TERMS & DELAYED DELIVERY:**

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

SI No	Deviation on	Nature of Deviation / Offered Terms	Loading %
1.	<b>Payment Terms</b>	<b>For Purchase within India :-</b>	
		1) Credit period less than 45 days	15
		<b>* For Foreign Purchase :-</b>	
		1) Payment through At Sight Letter of Credit	10
		2) Payment through Letter of Credit with usage of 45 days	
		3) Sight Draft with credit period less than 45	
2.	<b>Penalty for Delayed Delivery</b>	1) Non – Acceptance	10
		2) Partial Acceptance ( X% )	(10 – X)

Please see last page (Page No.9) for Loading Factors for foreign Purchase

**\* 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.**

Offer/s with payment terms other than the standard payment terms indicated at Clause No. F or Deviated Payment Terms with loading indicated at Clause No. G above are liable for rejection.

**NOTES:**

- ADVANCE PAYMENT/LC: Quotations with "Advance payment/Inland LC" shall be rejected.
- Basic value of Purchase Order mentioned above will include all components of the purchase order and will exclude only taxes, duties, freight and I&C charges (wherever applicable).
- Wherever the Purchase Order is split into import portion and indigenous portion of supply the retention money will be 10% (as applicable) of both purchase order values put together.
- Non-Compliance of Warranty terms. Offers not complying with Warranty terms as per RFQ Terms is liable for rejection.
- SALE IN TRANSIT/ LOCAL VAT: Sale in transit under section 6(2) of CST is allowed if movement of goods is interstate. In case intra state movement of goods, benefit of sale in transit is not available.
- In case of intrastate movement i.e. supply within same state and VAT is applicable, the vendor shall furnish the respective BHEL's nodal agency TIN no. and address in their invoice. (Refer **Annexure IX**)

**H. BANK GUARANTEE (BG) / PERFORMANCE BANK GUARANTEE (PBG):**

- Bank guarantee (BG) / Performance bank guarantee (PBG) will be applicable as called in the tender documents. Such PBG shall be valid for a period of Warranty Period + claim period of 3 months for a value equal to 10 % of the basic value of the purchase order. No deviation for the duration of PBG / BG will be permitted.
  - PBG shall be from any of the BHEL consortium of bankers (**refer Annexure V**).
  - PBGs from nationalized banks are also acceptable.

- c. PBG should be sent directly by the bank to the dealing executive mentioned in the purchase order located at the address mentioned in the purchase order. PBG should be in the format indicated. **(Refer Annexure III)**. No deviation to these formats will be allowed.
- d. Confirmation from any of the BHEL consortium of banks or any of the Indian Public Sector Banks is essential for the acceptance of PBGs issued by foreign banks (located outside India).
- e. Expired BGs / PBGs will be returned only after expiry of the claim period or on completion of the contractual obligation.
- f. In case vendor does not accept for submission of PBG, the vendor is liable for rejection on commercial grounds.

#### **I. DOCUMENTS (TRIPLICATE COPIES) REQUIRED AT THE TIME OF DISPATCH FOR PROCESSING OF BILL:**

##### **1. FOR INDIGENOUS SCOPE OF SUPPLY:**

**For Supply:** Invoice in Triplicate, Lorry receipt (LR) copy, Packing List, PSI Call Letter Copy, Proof of delivery such as MRC (Material Receipt Certificate)/ original acknowledged LR, Insurance intimation Letter and Warranty Certificate. Note that document pertaining to Proof of delivery shall clearly mention number of boxes/panels etc which shall be in line with the Packing list.

**For I&C:** Supplementary Invoice in Triplicate with copy of I&C Certificate (Proof of Completion of I&C).

**For PBG:** Supplementary Invoice in Triplicate with copy of PBG. However, PBG should reach concerned Purchase Officer directly from the Bank.

##### **2. FOR IMPORTED SCOPE OF SUPPLY:**

**For Supply:** Invoice in Triplicate, Air Way Bill/Bill of Lading, Packing List, PSI Call Letter Copy, and Warranty Certificate.

**For I&C:** Supplementary Invoice in Triplicate with copy of I&C Certificate (Proof of Completion of I&C).

**For PBG:** Supplementary Invoice in Triplicate with copy of PBG. Both PBG & supplementary invoice should reach concerned Purchase Officer directly from the Bank.

#### **J. PROVISIONS APPLICABLE FOR MSE VENDORS (MICRO AND SMALL ENTERPRISES)**

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

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

##### **PURCHASE PREFERENCE FOR MSE VENDORS:**

- e. MSE vendors quoting within a price band of L1 + 15% shall be allowed to supply up to 25% of the requirement against this tender provided. Minimum of 3% reservation for women owned MSEs within the above mentioned 25% reservation.
  - 1. The MSE vendor matches the L1 price.
  - 2. L1 price is from a non MSE vendor.
  - 3. L1 price will be offered to the nearest vendor nearest to L1 in terms of price ranking (L2 - nearest to L1). In case of non-acceptance by the MSE vendor (L2) next ranking MSE vendor will be offered who is within the L1 + 15% band (if L3 is also within 15% band).
  - 4. 25% of the 25% (i.e. 6.25% of the total enquired quantity) will be earmarked for SC/ST owned MSE firms provided conditions as mentioned in (1) and (2) are fulfilled.
  - 5. In case no vendor under SC / ST category firms are meeting the conditions mentioned in (1) and (2) or have not participated in the tender, in such cases the 6.25% quantity will be distributed among the other eligible MSE vendors who have participated in the tender.

6. Serial no. 1 to 5 will not be applicable wherever it is not possible to split the tendered quantity / items on account of customer contract requirement, or the items tendered are systems. Such information that tendered quantity will not be split will be indicated in the SCC.

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

1. Commitment by BHEL:

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

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

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

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

**L. FRAUD PREVENTION POLICY:**

The bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice. Fraud Prevention policy and List of Nodal Officers shall be hosted on BHEL website, vendor portals of Units/regions intranet.

**PURCHASE EXECUTIVE**

## **Clause G of ITB: Loading Factors for Foreign Purchases**

<b>Nature of Deviation / Offered Terms</b>	<b>Loading %</b>
100% Sight Draft	1 %
100% Usance LC with 45 days credit	2.5 %
100% LC at Sight	4.5 %