

BHARAT HEAVY ELECTRICALS LIMITED,
 (A Government of India Enterprises)
 Heavy Plates & Vessels Plant
 Visakhapatnam – 530 012 INDIA.
 Web Site: www.bhelviz.co.in



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NOTICE INVITING TENDER(NIT)

**Category of Tender: TWO BID
 (PRICED + UN - PRICED)**

SUB: COOLING TOWER

Our Ref: **MM/2/10/4121/CAP/W-107/5107**

DATE: 12.08.2015

Sealed quotations in duplicate are invited from suppliers on or before **02.09.2015** SUPERSCRIBING OUR **REFERENCE AND CATEGORY OF TENDER** on the cover, for supply of the under mentioned stores within the above due date, otherwise send **REGRET LETTER**, strictly subject to the Terms & Conditions attached herewith. **LATE TENDERS ARE NOT ACCEPTABLE.**

ITEM No.	DESCRIPTION / SPECN. / SIZE	QTY												
1.	COOLING TOWER	1 Nos.												
	<p>Encl:</p> <table border="0"> <tr> <td>1. Qualifying Criteria PART A</td> <td>.....</td> <td>4 Pages</td> </tr> <tr> <td>2. Technical Specifications PART B</td> <td>.....</td> <td>6 Pages</td> </tr> <tr> <td>3. Special Provision for Micro and Small Enterprises (MSE)</td> <td>.....</td> <td>2 Pages</td> </tr> <tr> <td>4. General Terms/ commercial terms and conditions (INCLUDING CHECK LIST)</td> <td>.....</td> <td>9 Pages</td> </tr> </table>	1. Qualifying Criteria PART A	4 Pages	2. Technical Specifications PART B	6 Pages	3. Special Provision for Micro and Small Enterprises (MSE)	2 Pages	4. General Terms/ commercial terms and conditions (INCLUDING CHECK LIST)	9 Pages	
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For BHARAT HEAVY ELECTRICALS LIMITED,

Chirag Goel
ENGINEER (MP-Capital Items)

CHIRAG GOEL
Engineer (MP-Cape)
 Bharat Heavy Electricals Ltd.
 HPVP, VISAKHAPATNAM - 530 012

QUALIFYING CRITERIA FOR COOLING TOWER (PART A)

**QUALIFYING CRITERIA FOR THE SUPPLY OF
COOLING TOWER**

SECTION – I

The BIDDER is expected to give complete details against each clause in the table given below, with additional sheets those may be attached (giving clear reference number) to furnish and cover the requisite details / documents.

S. No.	PARTICULARS	VENDOR's RESPONSE
1	VENDOR to provide the Profile of their Company	
2	List of customers to whom Cooling Towers were supplied, installed and commissioned till date. The capacity of cooling tower supplied may be furnished.	
3	Details on SERVICE-AFTER-SALES Set-Up in India including the Address of Agents / Service Centers in South India. [Details on the number of trained personnel with field of experience to handle the service needs of BHEL - HPVP in time]	
4	Any Additional Data to supplement the manufacturing capability of the BIDDER for the subject equipment.	

QUALIFYING CRITERIA FOR COOLING TOWER (PART A)

SECTION – II

The BIDDER / VENDOR has to compulsorily meet the following requirements to get qualified for submitting an offer for the Cooling Tower.

S. No.	REQUIREMENTS	VENDOR's RESPONSE
5.0	The BIDDER / VENDOR shall have a minimum of TEN Years of Continuous Experience in the Design, Manufacture & Supply of Cooling Tower.	
6.0	Only those vendors (OEMs), who have supplied and commissioned at least Five nos. of COOLING TOWERS for similar capacity / higher quoted in this tender in past ten years (from the date of opening of Tender) and such equipment is presently working satisfactorily for more than one year after commissioning (from the date of opening of Tender) should quote.	
The vendor should submit following information where similar machine has been supplied:		
6.1	Name and postal address of the customer or company where similar equipment is installed.	
6.2	Name and designation of the contact person of the customer.	
6.3	Phone, FAX no and email address of the contact person of the customer.	
6.4	Month and Year of commissioning of the equipment.	
6.5	Application for which the equipment is supplied	
6.6	Along with the Technical offer, the Vendor should submit the <u>Performance certificate from the customer for the satisfactory performance of the equipment supplied as per clause 6.0 above.</u> (For obtaining the Performance certificate, a suggestive format is provided in SECTION – IV)	
6.7	Offers of only those vendors who meet the above Qualifying Criteria will be considered for further evaluation.	
6.8	BHEL - HPVP reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected.	
7.0	DELIVERY - The bidder shall quote the best possible delivery. However the delivery shall not exceed 3 months with an additional grace period of 1 month, however additional grace period will have a loading for arriving at the PRICE COMPETITIVENESS of the Commercial Offer (if the offer is technically acceptable on all accounts). Details are given in the Commercial Terms of this Tender. Bidder to specify the time required for E&C. BHEL - HPVP reserves the right to fix E&C period during Finalization of offer in consultation with the bidder	

QUALIFYING CRITERIA FOR COOLING TOWER (PART A)

SECTION – III

The BIDDER / VENDOR has to comply with the following, for accepting the Technical Offer for scrutiny by the Purchaser:

S. No.	REQUIREMENTS	VENDOR's COMPLIANCE
8	The BIDDER / VENDOR shall submit the offer in TWO PARTS- Technical [with PART A & PART B] & Commercial and Price Bid.	
9	The offer shall contain a comparative statement of Technical Specifications given by BHEL - HPVP and the offered details submitted by the Bidder, against each clause. Merely stating 'YES' or 'NO' or similar words wherever 'Vendor to Specify' details in the 'Vendor's compliance statement may lead to disqualification.	
10	The Technical Offer shall be supported by product Catalogues & Data Sheets and also technical details of Bought-Out-Items with copies of Product Catalogue to the extent possible.	
11	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation of the inclusion of all the accessories, tooling's, attachments, auxiliary parts, spares, consumables, etc. with the main and basic equipment, to meet the technical specification requirements.	
12	BIDDER has to indicate the Country of Origin for the supply of equipment.	

QUALIFYING CRITERIA FOR COOLING TOWER (PART A)

SECTION – IV

PERFORMANCE CERTIFICATE
(On Customer's Letter Head)

1. Supplier of the machine :
2. Make & Model of the Equipment :
3. Month & Year of Commissioning :
4. Application for which machine is used :
5. Capacity of Cooling Tower :
6. Cooling Tower Type :
7. Performance of the Machine : Satisfactory / Not Satisfactory
(Strike off whichever is not applicable)
8. After Sales Service : Satisfactory / Not Satisfactory
(Strike off whichever is not applicable)
9. Any other remarks :
10. Contact Details
Name of the Contact Person :
Phone No. :
Fax No. :
E-mail ID :

Date:

Signature & Seal of the Authority
Issuing the Performance Certificate

TECHNICAL SPECIFICATION FOR COOLING TOWER

SI No.	PARTICULARS AND BHEL - HPVP SPECIFICATION		VENDOR'S OFFER (with complete Technical Details)
1	Design, Manufacture, Supply, Installation and Commissioning of FRP Cooling Tower		
1.1	Quantity	1 No.	
2	Cooling Tower Specification		
2.1	Construction	FRP Cooling Tower / Induced Draft Counter Flow Design / Rectangular Profile.	
2.2	Cooling Medium	Water	
2.3	Water Inlet Temperature	45 °C	
2.4	Required Water Outlet Temperature	32 °C	
2.5	Mean Wet bulb Temperature	28 °C	
2.6	Water Flow	Varying over 50m ³ /hr to 75 m ³ /hr	
2.7	Evaporation Loss	1.70 % Maximum	
2.8	Drift Loss	0.1 % Maximum	
2.9	Make up water quantity per hour	Vendor to specify	
2.10	Installation	Outdoor Installation open to atmosphere and varying climatic conditions	
2.11	Total wetted Surface (in m ²)	Vendor to specify	
2.12	Fan capacity (in m ³ /hr)	Vendor to specify	
2.13	No of Blades & make	Vendor to specify	
2.14	Inlet Pipe Size (150 Class ANSI B16.5 Flange to be provided) SA 106 Gr. B (Pipe line is to be terminated with suitable valve)	Vendor to specify	
2.15	Outlet Pipe Size (150 Class ANSI B16.5 Flange to be provided) SA 106 Gr. B (Pipe line is to be terminated with suitable valve)	Vendor to specify	
2.16	No of Nozzles	Vendor to specify	
2.16.1	MOC	Vendor to specify	
2.16.2	Type	Vendor to specify	
2.16.3	Flow	Vendor to specify	
2.16.4	Temperature holding capacity	Vendor to specify	

SI No.	PARTICULARS AND BHEL - HPVP SPECIFICATION		VENDOR'S OFFER (with complete Technical Details)
2.17	Basic Outline Dimensions and Dimensions of Fills	Vendor to specify	
2.18	Model\Brand\ Make	Vendor to specify	
3	Construction		
3.1	No. Of cells	Single	
3.2	The cold water basin, basin cover, fan deck, fan cylinder and access door, motor cover shall be formed of inert glass-fibre reinforced polyester.	Vendor to confirm	
3.3	All hardware including mechanical structural columns, fan guards, ladder etc should be fabricated of carbon Steel.	Vendor to confirm	
3.4	Bolts, nuts, fasteners should be made of Stainless Steel	Vendor to confirm	
3.5	Fan should be propeller type, heavy duty blades of aluminium alloy construction / FRP and balanced at rated RPM	Vendor to confirm	
3.6	Sight Glass\ Transparent Window to be provided to view the inside of cooling tower	Vendor to confirm	
3.7	Ladder and maintenance platform for access motor area to be provided (maintenance with its supports platform to be made of Steel)	Vendor to confirm	
3.8	PVC Fills Type & Details	Vendor to specify	
3.8.1	Type	By vendor	
3.8.2	Direction of flow	Counter flow	
3.8.3	Flute height	By vendor	
3.8.4	Longitudinal pitch	By vendor	
3.8.5	Spiral angle	By vendor	
3.8.6	Spiral area / unit volume	m²/m³ - By vendor	
3.8.7	Thickness	By vendor	
3.8.8	Module size	By vendor	
4	Fan Motor Details		
4.1	The motor should be directly coupled to the propeller fan.	Vendor to confirm	
4.2	Motor Speed (in RPM)	Vendor to specify	

SI No.	PARTICULARS AND BHEL - HPVP SPECIFICATION		VENDOR'S OFFER (with complete Technical Details)
4.3	Motor Power (in kw/hp)	Vendor to specify	
4.4	Motor Voltage	Vendor to specify	
4.5	Current Rating	Vendor to specify	
4.6	Single Phase or Three		
4.7	Duty Cycle : Continuous	Vendor to confirm	
4.8	Insulation Class : F	Vendor to confirm	
4.9	Water & Dust Protection IP65	Vendor to confirm	
4.10	Weather Cowl to be provided for motor	Vendor to confirm	
4.11	Frame size	Vendor to specify	
4.12	Motor should conform to Energy efficiency class EFF1	Vendor to confirm	
4.13	Motor Make	Crompton Greaves, Alstom, ABB, Kirloskar, Siemens only	
5	Auxiliary Equipments		
5.1	MOC - FRP	Vendor to specify / Confirm	
5.2	Type - Axial flow	Vendor to confirm	
5.3	Fan Dia	Vendor to specify	
5.4	Air quantity	Vendor to specify	
6	Drift Eliminator		
6.1	MOC - Double walled PVC	Vendor to specify / Confirm	
6.2	Type	Vendor to specify	
6.3	Mounting	Vendor to specify	
6.4	Inspection door	To be provided by vendor	
7	General Points		
7.1	Overall dimensions (Length x Width x Height) in mm	Vendor to specify	
7.2	Shipping Weight	Vendor to specify	
7.3	Net weight	Vendor to specify	
7.4	Operating Weight	Vendor to specify	
7.5	All technical specifications, drawings and product catalogue to be submitted with offer.	Vendor to confirm	
7.6	The Cooling Tower should have a warranty of 12 months from the date of commissioning	Vendor to confirm	

SI No.	PARTICULARS AND BHEL - HPVP SPECIFICATION	VENDOR'S OFFER (with complete Technical Details)
7.7	The Cooling Tower should have size, rating, class specification, direction and technical details marked (permanently embossed) or attached with SS name plate.	Vendor to confirm
7.8	The cooling tower manufacturer shall be responsible for the design, fabrication, and delivery of the materials to the site and for the erection & commissioning of the tower over the support grillage and prove out.	Vendor to confirm
7.9	User manual to be provided (one softcopy + three hard copies)	Vendor to confirm
7.10	Fabrication should be done after drawing approval by BHEL.	Vendor to confirm
7.11	Vendor to separately quote for spares (for 2 years trouble free) such as PVC fills, aluminium fan blades, FRP fan blades, nozzles, etc.	Vendor to confirm
8	DOCUMENTATION :Three sets of following documents (Hard copies) in English language should be supplied along with the machine:-	Vendor to Confirm
8.1	O & M manuals of Machine.	Vendor to Submit
8.2	Detailed Maintenance manual of machine with all drawings of machine assemblies/sub-assemblies/parts including Electrical / circuit diagrams. All mechanical Assembly/ Sub Assembly Drawings shall be supplied with the part list also in English (3 sets).	Vendor to Confirm / submit
9	ELECTRIC SYSTEM:	
9.1	Input Power supply: 415V±10%, 50Hz±3%, 3 phase AC supply.	Vendor to Confirm
9.2	All electrical components should be 1.5 times the rated capacity	Vendor to Confirm

SI No.	PARTICULARS AND BHEL - HPVP SPECIFICATION	VENDOR'S OFFER (with complete Technical Details)
9.3	Incomming Cable : Unarmoured 4 Core flexible cable of required rating (30 M Length) should be supplied.	Vendor to Confirm
10	PUMPS :	
10.1	Vendor has to supply following pumps along with cooling tower.	Vendor to Confirm
10.1.1.1	Flow : 50 m3/Hr	Vendor to Confirm
10.1.1.2	Outlet Pressure : 3 - 4 Kg/cm2 Inlet Pressure: water from Cooling Tower	Vendor to Confirm
10.1.1.3	Outlet size	Vendor to specify.
10.1.1.4	Qty - 3 Nos.	Vendor to Confirm
10.2	Specification for water pump for Cooling Tower	
10.2.1	Pump Body : Cast Iron	Vendor to Confirm
10.2.2	Impeller (Material) : Bronze	Vendor to Confirm
10.2.3	Mechanical Seal : Carbon / Ceramic machine seal	Vendor to Confirm
10.2.4	Shaft : SS316	Vendor to Confirm
10.2.5	Applicable Specification : API Std 610 latest Edition	Vendor to Confirm
10.2.6	Cooling : External ventilation	Vendor to Confirm
10.2.7	Operating Duty Cycle : Continuous	Vendor to Confirm
11.0	SPARES:	
11.1	Bidder to quote and specify Mandatory spares	Vendor to specify.
11.2	Bidder to quote and specify 2 Year trouble free operational spares	Vendor to specify.
12.0	Civil Works	
	Necessary civil foundation drawings, if required, are to be supplied by Vendor. Vendor must visit the site before Quoting for any requirement of civil works and space availability.	

SI No.	PARTICULARS AND BHEL - HPVP SPECIFICATION	VENDOR'S OFFER (with complete Technical Details)
13.0	TRAINING	
13.1.1	Two BHEL - HPVP Persons should be trained at BHEL -HPVP works:- (a) Operation of the machine. (b) Mechanical maintenance of the machine. (c) Electrical / Electronic maintenance and trouble shooting of the machine.	Vendor to Confirm
13.1.2	Competent, English speaking experts shall be arranged by the vendor for satisfactory & effective training of BHPV personnel.	Vendor to Confirm
14.0	PACKING	
	Sea worthy & rigid packing for all items of complete machine and all accessories and other supplied items to avoid any damage/loss in transit. When machine is dispatched in containers, all small loose items shall be suitably packed in boxes.	Vendor to Confirm
15.0	GUARANTEE	
	Guarantee for complete machine and all supplied accessories / attachments / equipments / items for 12 months from the date of commissioning or 18 months from the date of supply which ever is earlier.	Vendor to Confirm

Special Provision for Micro and Small Enterprises (MSE)

Applicable for INDIAN Manufacturers only:

- i) As per the public procurement policy notified by the Central Government, Micro & Small Enterprises (MSE) participating in the tender quoting Price within Price band of L1 + 15% will be allowed to supply a portion of requirement subject to acceptance of L1 price in a situation where L1 price is from someone other than a Micro & Small enterprise and such Micro and Small Enterprise shall be allowed to supply upto 20% of Quantity. In case of more than one such MSE, the supply shall be shared proportionately.
- ii) 20% of the tendered quantity is earmarked for MSE suppliers in this tender.
- iii) Special provision for Micro and Small Enterprises owned by SC or ST:
Out of 20% tendered quantity reserved for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC/ST entrepreneurs.
- iv) MSE Suppliers can avail the intended benefits only if they submit along with offer, the 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 a CA certificate (Format enclosed as per Annexure–C 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 date of bid opening (Part-I 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 Scale Industries vide its notification No.S.O.1722(E) dated October 5, 2006 :
Rs.....Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:
Rs.....Lacs

(Strike off whichever is not applicable)

The above investment of Rs.....Lacs is within permissible limit of Rs.....Lacs forMicro / 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 -

Seal of Chartered Accountant

COMMERCIAL TERMS AND CONDITIONS FOR SUBMISSION OF OFFER**1.0 QUOTATIONS**

Bidders shall submit the offer in TWO INNER ENVELOPES as indicated below which shall be sealed in one outer envelope.

Envelope I: This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked “**Part I – Technical and Un-priced commercial bid**” Indicating Tender No., Due Date and Address & Reference of the Bidder.

Envelope II: This sealed envelope should contain price details this envelope should be clearly marked “**Part II - Price bid**” indicating Tender No., Due Date and Address & Reference of the Bidder.

Both the envelopes (Part I & II) shall be put in one cover, duly sealed, super scribing as Part I and Part II of Tender No., due date of opening and the address and reference of the Bidder

The above offer should reach this office on or before the due date by 14.00 Hrs (IST)
Tender should not be addressed to any Individuals name but only designation to

Sr. Manager (MM)
BHARAT HEAVY ELECTRICALS LIMITED
HEAVY PLATES & VESSELS PLANT
VISAKHAPATNAM - 530 012 (A P), INDIA.

Tenders should be free from CORRECTION AND ERASURES. Corrections if any must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.

Offers should be in ENGLISH and accompanied by technical literature catalogue and detailed dimensional drawings in ENGLISH or otherwise the offers will not be considered.

2.0 PART I (TECHNICAL & UN-PRICED COMMERCIAL BID)**2.1 Technical**

This part shall include / indicate the following:

- 2.1.1. Offer should contain complete scope of supply with all technical details, specifications, delivery and other commercial terms and conditions.
- 2.1.2. Point by point confirmation for the Technical Specification enclosed is to be provided. If there are any deviations the same should be clearly specified. Offers received without conformation to our specification will be rejected.
- 2.1.3. List of customers to whom same or similar equipment have been supplied along with performance certificates to be enclosed.
- 2.1.4. Relevant catalogue to be attached.
- 2.1.5. List of spares parts (with part numbers) for two years operation and maintenance should be attached.

2.1.6. Information on shipping weight and cubage (length, width & height) to be provided

2.1.7. In case of foreign bidder offer, the Principal's technical offer only should be enclosed.

2.2 Un-Priced Commercial

This part shall include / indicate the following

2.2.1. Port of shipment / Station of dispatch

2.2.2. Terms of payment

2.2.3. FOB/FCA price along with freight charges up to Chennai port (for foreign bidders) Ex-works/FOR Dispatch Station price along with freight charges up to BHEL Visakhapatnam (for Indian bidders)

2.2.4. Taxes, Service tax & duties including Cess applicable.

2.2.5 Delivery Schedule

2.2.6. Filled-in check list to be enclosed

2.2.7. Offer validity

2.2.8. Country of origin

2.2.9. Percentage of agency commission if any along with a copy of Agency agreement The FOB/FCA/CFR Prices quoted shall include the agency commission.

2.2.10. A copy of "Un-Priced Part II 'i.e., a copy of the Price Bid without the price details to be enclosed.

2.2.11 BHEL Visakhapatnam is eligible for availing CENVAT / VAT credit on both inputs and capital inputs. The suppliers invoice should separately indicate the amount of duty / taxes and should invariably mention the following details:

1. The Central excise registration number, range division and commission rate of the supplier's jurisdiction.
2. The rate of duty and 8 digit central excise tariff heading of the item supplied.
3. The TIN, VAT, CST registration number of the supplier.

The duplicate copy of the invoice is required for availing CENVAT credit and original copy for availing VAT credit, if purchased within the state.

In case of foreign bidders the duplicate copy of the electronic Bill of Entry along with TR6 challan should be made available for availing CENVAT credit on CVD, Cess (S) and SAD.

3.0 **PART II (PRICE – BID)**

This part should contain the schedule of price particulars and to be co-related to the technical details provided in Part-I

4.0 **OPENING OF TENDERS**

The Part I – Technical & un-priced commercial bid alone would be opened on the Tender opening date.

The Part II – Price bid of technically suitable Bidders alone would be opened. The Technically suitable Bidders would be informed about the Price Bid opening date. Clarifications if any required by BHEL Visakhapatnam FOR Technical evaluation / commercial evaluation would be sought from Bidders before opening of Part II – price bid.

GENERAL

5.1 Incomplete offers will not be considered.

5.2 **Fixed priced:** Prices quoted by the bidder shall be fixed and not subject to any escalation whatsoever during the period of bid validity and execution of the Purchase Order A bid submitted with an adjustable price will be treated as non- responsive and rejected Prices shall be written in words and figures. In the event of difference, the price in words shall be valid and binding. Unit prices shall be considered correct in the event of any discrepancy with regards to total price.

5.3 **Bid currency:** Indian bidders should submit the prices only in Indian Rupees. Foreign bidders may submit their bid in their home currency, which should be clearly indicated in the un-priced commercial bid as well as in the price bid. Price bid opening date/ RA date will be considered as effective date for considering exchange rate to evaluate the offers.

- 5.4 **Terms of Delivery:** Bidders are required to quote their best delivery period. Foreign Bidders should submit their offer for net FOB/ FCA – Nearest Sea Port / Air Port as well as CFR / Chennai Seaport/ Airport. Freight charges up to Chennai port to be indicated separately. Indian Bidders should submit their offer for Dispatching station as well as FOR BHEL Visakhapatnam basis. Freight charges from works to BHEL Visakhapatnam to be indicated separately. Delivery from the date of Letter of Intent to be mentioned in the offer.
- 5.5 **Taxes and Duties:** All Taxes and Duties payable as extra to the quoted price should be specifically stated in offers along with CST & TIN No/ Tariff No. etc, failing which the purchaser will not be liable for payment of such Taxes and Duties (Our TIN No.28280189432, APGST No. VSP/04/1/1023 dated 24.08.1968. CST No.VSP/04/1/1012 dated 24.08.1968 & BHEL Visakhapatnam ECC No AAA CB 7076 N-XM001. Assessment circle Visakhapatnam.)
- 5.6 **Validity:** The offers for main equipment and spares shall be kept open for acceptance for a period of 120 days (one hundred and twenty days) from the dates of opening of the tender (part I)
- 5.7 **Terms of Payment:**
- 5.7.1 **Indian Bidders:**
80% payment (80% of basic price + 100% Taxes) will be made within 45 days of receipt of material and balance 20% will be made after acceptance of material/commissioning of the equipment at BHEL, Visakhapatnam.
- 5.7.2 **Foreign Bidders**
An Irrevocable letter of Credit shall be established for 80% of FOB/FCA/CFR/ (excluding Indian Agent's commission) 2 months prior to shipment and valid for 3 months for negotiation against shipment Letter of Credit shall be opened through a branch of State Bank of India in the country where order shall be placed. In case, in the country where order is placed, State Bank of India is not there, Letter of Credit will be confirmed by foreign banker. Balance 20% of FOB/FCA/CFR value shall be paid through sight draft on Commissioning & acceptance of the equipment at BHEL Visakhapatnam. All Bank charges outside India are to supplier's account. Lump sum erection and commissioning charges if any, shall be payable after satisfactory erection & commissioning of the equipment by sight draft against certificate issued by the competent authority.
- 5.7.3 **Common to both India & Foreign Bidders.**
Erection & Commissioning (E&C) charges will be released after deduction of Income Taxes as per the Govt. of India rules. The TDS certificate will be issued by BHEL. Applicable service tax on E&C charges will be payable extra. The liability of depositing the same to the Govt. will be of the supplier.
- 5.7.4 **Loading criteria common to both Indian and foreign bidders:** Vendor should accept the payment terms specified above. However for any deviation to the payment terms offered with reference to the above criterion will be loaded with prime lending rate of SBI prevailing on date of opening of price bid + 2%, which shall be computed for the differential period between BHEL Visakhapatnam terms of payment and the offered basic price.
- 5.8 DUNS number (allotted by M/s. DUN & Bradstreet) shall be mentioned in your offer.
- 5.9 **Guarantee:** The equipment shall be guaranteed for a period of 18 months from the date of supply or 12 months from the date of commissioning and acceptance whichever is earlier.
Offers from vendors not accepting to the requested guarantee period will be rejected.

- 5.10 **Liquidated damages:** Delivery of the goods specified in the purchase order should be made within the time prescribed. Failure to dispatch the materials in the time as per the delivery quoted in our Purchase Order would make the supplier liable to an un-conditional penalty at the rate of ½% of the value of goods for each week of delay subject to a maximum of 10% of the Purchase Order value.
- 5.10.1 **Loading Criteria for Liquidated Damages:** Any deviation from above LD Clause to the extent for which LD is not agreed by the vendor i.e., differential % value will be loaded on basic price, e.g. If some vendor agrees for say maximum of 6% LD then his price will be loaded by 4% (10 – 6) of his quoted basic price.
- 5.11 **Risk purchase:** If the supplier fails to deliver the goods within the delivery specified in the Purchase Order, BHEL Visakhapatnam will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the delivery period mentioned in the Purchase Order.
Offers from vendors not accepting the above Risk Purchase terms will be rejected.
- 5.12 **Indian Agent & Agency commission:** An Indian Agent can represent only one Foreign Manufacturer against a particular Tender. The FOB/FCA/CFR price quoted by the Foreign bidder shall include the agency commission. However, the agency commission component payable to their Indian Agents shall be shown separately in the offer. This will be paid by BHEL Visakhapatnam in India Rupees, on satisfactory commissioning & acceptance of the equipment. Copies of current Agency Agreement / Authorization Letter in respect of Agency Commission shall be furnished along with offer. For calculation of Rupee equivalent of Agency Commission exchange rate as prevailing on the date of Purchase Order will be taken.
- 5.13 **Short shipment / Warranty replacement:** In case of any short shipment in the main equipment / spares, customs duty levied on such supplies, shall be borne by the supplier. Any warranty replacement during the warrantee period shall be on FOR, BHEL Visakhapatnam, basis.
- 5.14 **Inspection & Testing:** All goods shall be subject to inspection by BHEL Visakhapatnam or its authorized representatives at supplier's works or at BHEL Visakhapatnam stores. The supplier will not charge for the facilities provided for inspection of goods. In case of machine tools the machine would be inspected and proved at supplier's works prior to dispatch however, final inspection and acceptance of the machine will be carried after installation of the machine at BHEL, Visakhapatnam.
- 5.15 **Operating and Maintenance manuals:** The Bidders shall clearly mention in their offer that Operating Maintenance Manuals as called for in the Technical Specification in the required number of copies will be provided.
- 5.16 **Cenvat & VAT credit. (for Indian Bidders only):** The quotation must indicate Tariff item number and rate of Excise Duty applicable. The original Excise Duty Gate Pass will be required to be furnished in case charges to us. If the bidder is availing Cenvat credit for his input materials, the effect of proforma credit should be passed on to the purchaser.
- 5.17 **Packing:** The Supplier shall arrange for packing suitably in all respects considering the peculiarity of the material involves for normal transport by sea / air / rail road and suitably protected against effect of tropical salt laden atmosphere in the event of shipment being delayed at ports.

- 5.18 **Salient Points of HSE** (Health, Safety & Environment) that are to be considered while submissions of offer are:
- 5.18.1 Consumption benchmarks related to output shall be provided wherever applicable for key input resources (energy/fuels/chemicals)
 - 5.18.2 Competency requirements for operation, maintenance and calibration, if any, shall be communicated
 - 5.18.3 If any Hazardous chemicals as per MSIHC (Manufacturing, Storage and import of Hazardous Chemicals) Rules 1989/94/2000 are used, the MSDS shall be provided, along with on site & OFF site emergency plan (as applicable).
 - 5.18.4 The noise level at operator level shall be within 90 Dba
 - 5.18.5 OH&S (Occupational Health and Safety) control measures for safe working of machine as applicable shall be specified
 - 5.18.6 The machine/equipment shall be fitted with guard for rolling and moving parts and shall comply with applicable OH&S legislations and Factories Act 1948
 - 5.18.7 The supplier shall submit the layout drawing of operating controls, displays etc and operating instructions to enable ergonomics evaluation and approval
 - 5.18.8 The recommended PPE (Personal Protective Equipment) for the equipment shall be furnished
 - 5.18.9 Alarm System (both visual and audible) and Automatic switch off of the equipment shall be provided for any intrusion, overloading, short circuiting or any malfunctioning of the equipment.
 - 5.18.10 Details of all hazardous / harmful substances discharges as by-products / wastes during operations of the machine / equipment, such as fumes, gases, dust particles, aerosols UV./IR (Ultra violet / Infra red) radiations, etc shall be furnished, along with their concentrations and their TLV, (Threshold Limit Value)
 - 5.18.11 Appropriate pollution control measures shall be proposed to keep the emissions from the machinery / processes within the prescribed limit as stated in Environment Protection Rules 1986.
 - 5.18.12 All furnaces, process units, DG sets, paint booths, shot blasting chambers, etc shall be provided with stack(s) of sufficient height as per guidelines laid down in the Environment Protection Rules 1986.
 - 5.18.13 wherever industry specific standards are not available for control of pollutants, general emission standards shall be used
 - 5.18.14 Chemicals banned due to their negative impact on the environment shall not be used on the process
 - 5.18.15 Fuels with sulphur content less than 0.05% shall be proposed.
 - 5.18.16 Details regarding nature of waste generated and appropriate disposal practices available shall be provided, along with the operation procedure of the plant / process.
 - 5.18.17 Hazardous chemicals and flammable substances shall be transported only through authorized transporters and all safety practices as laid down in applicable legislative requirements such as Central Motor Vehicle Rules, Manufacture, Storage and Import of Hazardous Chemical 1989, etc. shall be followed.
 - 5.18.18 Primary materials used in the equipment shall be specified and they shall be eco - friendly.

- 5.19 Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to BHEL Visakhapatnam).
- 5.20 BHEL Visakhapatnam also reserves its right to allow to the Public Sector Enterprises ordering and price preference facilities as admissible under the existing policy.
- 5.21 BHEL Visakhapatnam reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at another project / unit.
- 5.22 BHEL Visakhapatnam shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL Visakhapatnam.
- 5.23 BHEL Visakhapatnam reserves the right to go for a Reverse Auction (RA) instead of opening the submitted sealed bid, which will be decided after technical evaluation. Information and general terms and conditions governing RA are given below.

GENERAL TERMS AND CONDITIONS OF RA (REVERSE AUCTION)

Against this enquiry for the subject item/system with detailed scope of supply as per enquiry specifications. BHEL Visakhapatnam may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING ON INTERNET.

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. BHEL Visakhapatnam will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
3. BHEL Visakhapatnam will inform the vendor in writing in case of reverse auction, the details of service provider to enable them to contact & get trained.
4. Business rules like event date, time, start price, bid decrement, extensions etc. also will be communicated through service provider for compliance.
5. Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to participate in the event.
6. BHEL Visakhapatnam will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL Visakhapatnam like Packing & Forwarding charges, taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL Visakhapatnam standard Commercial terms & conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction.
7. Reverse auction will be conducted on scheduled date & time.
8. At the end of Reverse Auction event, the lowest bidder value will be known on the network.
9. The lowest bidder has to Fax the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL Visakhapatnam through Service provider within 24 hours of Auction without fail.

10. Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL Visakhapatnam as per prevailing procedure.
 11. In case BHEL Visakhapatnam decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL Visakhapatnam shall be opened as per BHEL Visakhapatnam's standard practice.
- 5.26 **Force Majeure clause:** If at the time during the continuance of this contract the performance in whole or in part by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) then provided notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist, if the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by the purchaser subject to prompt notification by the seller to the purchaser of the particulars of the events and supply to the purchaser if required of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed to be a waiver of time in respect of remaining deliveries.

CHECK LIST

Bidder's acceptance to BHEL Visakhapatnam's Standard Commercial Terms & Conditions.

Applicable for Indian bidders

(To be submitted along with the offer – please do not change the format)

BHEL Visakhapatnam Tender No: & Date:	Bidders Confirmation / response
Prices have been quoted on "FIRM PRICE" basis only (Yes / No)	
Prices have been quoted on "F.O.R BHEL Visakhapatnam" basis only (Yes / No)	
P & F (Please confirm whether included or not)	
Freight (Please confirm whether included or not)	
Insurance (Please confirm whether included or not)	
Validity of offer (we require a minimum period of 120 days from the date of Tender Opening – please Specify)	
Sales Tax (please Specify)	
Excise Duty (please Specify)	
Delivery period from the date of Purchase Order (please Specify). A loading @ ½ % of the Purchase Order value per week will be done for the grace period requested. For evaluation 4 weeks will be considered as one month. Vendors quoting a delivery period beyond the 'the requested delivery plus the allowed grace period' is liable for rejection.	
Liquidated damages as per clause 5.10 (we require acceptance to @ ½% per week subject to a maximum of 10%) (Yes / No)	
Risk Purchase as per clause 5.11 (Yes / No) (Offers from vendors not accepting the Risk Purchase terms will be rejected)	
Payment terms (As per Clause No. 5.7.1) (Yes / No)	
Guarantee as per clause 5.9 (The equipment shall be guaranteed for a period of 18 months from the date of supply or 12 months from the date of commissioning and acceptance whichever is earlier) (Yes / No) (Offers from vendors not accepting to the guarantee period will be rejected)	
Inspection (please Specify the Place of Inspection)	
Erection & Commissioning/ Installation/ Training (Please confirm whether charges are included in the total cost or not)	
Approximate Net Weight of the total Consignment	
Approximate Gross Weight of the total Consignment	

Signature & Office Seal of the bidder

CHECK LIST

Bidder's acceptance to BHEL Visakhapatnam 's Standard Commercial Terms & Conditions.

Applicable for foreign bidders (To be submitted along with the offer – please do not change the format)

BHEL Visakhapatnam Tender No: & Date:	Bidders Confirmation / response
Prices have been quoted on "FIRM PRICE" basis only (Yes / No)	
Prices basis (FOB/CFR/CIF – Please Specify)	
Insurance (Please confirm whether included or not)	
Validity of offer (we require a minimum period of 120 days from the date of Tender Opening – please Specify)	
Currency in which quoted (please Specify)	
Port of loading (please Specify)	
Country of Origin (please Specify)	
Delivery period from the date of Letter of Intent (please Specify) A loading @ ½ % of the Purchase Order value per week will be done for the grace period requested. For evaluation 4 weeks will be considered as one month. Vendors quoting a delivery period beyond the 'the requested delivery plus the allowed grace period' is liable for rejection.	
Liquidated damages as per clause 5.10 (we require acceptance to @ ½% per week subject to a maximum of 10%)	
Risk Purchase as per clause 5.11 (Offers from vendors not accepting the Risk Purchase terms will be rejected) (Yes / No)	
Payment terms (As per Clause No. 5.7.2)	
Agency commission (refer clause 5.12)	
Guarantee as per clause 5.9 (The equipment shall be guaranteed for a period of 18 months from the date of supply or 12 months from the date of commissioning and acceptance whichever is earlier). (Offers from vendors not accepting to the requested guarantee period will be rejected) (Yes / No)	
Inspection (please Specify)	
Erection & Commissioning/ Installation/ Training (Please confirm whether charges are included in the total cost or not)	
Dimension of the Largest Part (please Specify)	
Packing Schedule (No of containers and their Sizes) (please Specify)	
Approximate Net Weight of the total Consignment (please Specify)	
Approximate Gross Weight of the total Consignment (please Specify)	

Signature & Office Seal of the bidder