



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)


PHONE :2577629
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: srchandran@bheltry.co.in
Web:

429-002/A

	Enquiry No	Enquiry Date	Due Date for Quotation
	2661400630 - 55	09.09.2014	07.10.2014
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order			

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	<p>Design, supply and Erection & Commissioning of 100 M3/Hr FRP cooling tower with Motor assembly.</p> <p>SPECIFICATION FOR FRP COOLING TOWER:</p> <p>(1) Application: For cooling of the hot circulation water.</p> <p>(2) Design Type: FRP Cooling Tower / Induced draft cross Flow Design without cold water basin.</p> <p>(3) Make: Paharpur / Wet Bulb / Gem only acceptable other makes are liable for rejection.</p> <p>(4) Model No: Vendor to specify</p> <p>(5) Location of Installation: Outdoor Installation open to atmosphere, varying climatic conditions and in the existing tank at BHEL Site ,Trichy (Dist),Tamil Nadu.</p> <p>OPERATING PARAMETERS:</p> <p>(1) Design Capacity per one Tower: Vendor to specify</p> <p>(2) Working media: Water (3) Water flow rate Per tower: 100 M3/Hr.</p> <p>(4) Hot water temperature :42 Degree C</p> <p>(5) Cold Water temperature :32 Degree C</p> <p>(6) Design wet bulb temperature: 27.2 Degree C</p> <p>(7) Evaporation loss: Vendor to specify</p> <p>(8) Drift loss: Vendor to specify</p> <p>(9) Total wetted surface:Vendor to specify</p> <p>(10) Rating/Service: Continuous operation (24 x 7)</p> <p>(11) Cooling tower efficiency: Vendor to specify</p> <p>(12) Noise level: Vendor to specify</p> <p>COOLING TOWER FAN ASSEMBLY:</p> <p>(1) Fan capacity (in m3/hr): Vendor to specify</p> <p>(2) Diameter of Fan: Vendor to specify</p> <p>(3) No of Blades: Vendor to specify</p> <p>(4) Fan type: Fan should be propeller type, heavy duty blades of FRP construction and balanced at rated RPM and shall be individually adjustable.</p> <p>(5) RPM of Fan: Vendor to specify (6) Material of fan blade: FRP</p> <p>(7) Type of Balancing: Vendor to specify</p>	NO	1.000	1.00	30.01.15

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening.Late and delayed offers are liable to be rejected.

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

MANAGER / PURCHASE
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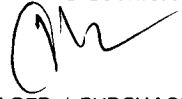
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- (8) Fan speed: Vendor to specify
(9) Fan Make: Paharpur, Wet Bulb,Gem only acceptable
WEATHER PROOF MOTOR:
(1) Make: ABB / Kirloskar / Siemens / Crompton /NGEF / Alstom only acceptable other makes are liable for rejection.
(2) Type and other details: 3 Ph A.C, 50 Hz, 415 V (+/- 10 percentage), Squirrel Cage Induction Motor and TEFC
(3) Power rating: To be mentioned by vendor.
(4) Motor should conform to Energy efficiency class EFF1
(5) Duty: Continuous rating
(6) Motor voltage and current rating: To be mentioned by vendor.
(7) RPM: To be mentioned by vendor.
(8) Insulation: Class F (9) Protection class: IP:55
(10) Frame size: To be specified by Offerer
(11) Weather Cowl to be provided for motor: Vendor to specify
HOT WATER DISTRIBUTION SYSTEM:
(1) Easy replaceable Nozzles: Hot water distribution system to be equipped with easily Removable and replaceable Nozzles.
(2) Type of Nozzle: Vendor to specify
(3) No of nozzles: Vendor to specify
(4) Nozzle Materials: Polypropylene
(5) Basic Outline Dimensions and Dimensions of Fills: Vendor to specify
(6)Temperature withstanding of cooling tower fills: Up to 55 degree centigrade.
COLD WATER COLLECION TANK:
The new cooling tower is to be mounted on the existing tank located at the ground floor.
Details of tank (inner dimensions of tank):
Length of the tank: 330 cm, Breadth of the tank: 265 cm, Depth of the tank: 175 cm and Width of tank wall: 25 cm
PIPING:
(1) Inlet water Pipe Size to Cooling Tower: Vendor to specify
(2) Outlet water Pipe Size from cooling tower: Vendor to specify
MOC:
(1) Shell: FRP
(2) Fills shall be Flimtype,Vacuum formed PVC and drift eliminators to be of PVC.
(3) Fan Blade: FRP
(4) Fan hub: MS Galvanised
(5) Fanclamp, Fanguard, Nut and bolts: SS 304
(6) Structures,headerpipes,motor supports: MS Galvanised
(7) Fills and drift eliminator support: PVC coated GI mesh

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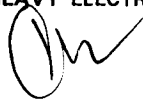
(8) Ladder from ground level and operation platform at top of cooling tower-MS Epoxy coated.
(9) Nozzles: Polypropylene
(10) The materials shall be corrosion proof and shall be able to operate in aggressive environments and resistant to water borne contaminates.

GENERAL POINTS:

- (1) Operating weight: Vendor to specify
- (2) Drawing, Technical data sheet, Product catalogue to be submitted along with offer
- (3) Overall dimension of cooling tower: Vendor to specify.
- (4) The Cooling Tower should have size, rating, specification, direction and technical details marked (permanently embossed) or attached with SS name plate: Vendor to confirm
- (5) Installation and Commissioning: Vendor's scope
- (6) Foundation bolts , Nuts and washers.: Vendor's scope
- (7) Foundation details: Required civil inputs to be provided to BHEL by successful vendor.
- (8) Ladder from ground level and O and M platform to be provided by the vendor.
- (9) Painting Requirement: Corrosion resistance paints to be used applicable for aggressive environments and resistant to water borne contaminates.
- (10) Application of Painting: Two coats of primer paints and two coats of final paints to be applied.
- (11) The vendor may visit the site to ascertain the work content before submitting the offer.
- (11) BHEL Scope:
All the civil works and water inlet and outlet piping to the cooling tower shall be carried out by BHEL for which the required details are to be provided by the successful vendor.
- (12) Erection and Commissioning:
The Erection and Commissioning of the FRP COOLING TOWER is in the scope of the vendor.
- (12) Supplier should quote rate separately for supply of INDUCED DRAFT COUNTER FLOW TYPE FRP COOLING TOWER and Erection & commissioning of the same and order will be given to a SINGLE supplier on CUMULATIVE L1 basis.
- (13) WARRANTY:

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Warranty for complete cooling tower system shall be given for a period of 12 months from the date of commissioning or 18 months from the date of supply against Deficiency in performance and failure in materials and workmanship.

(14) GA Drawing with Bill of materials shall be sent along with the offer.

(15) Delivery Period: Three Months from the date of purchase order.

One set of Cooling tower Complete assembly as per above specification consists of following:

(1) Cooling tower assembly with fan and fan guard. - 1 No.

(2) Electric Motor - 1 No.

(3) Hard wares like Cooling tower supporting Structural

materials , ladder including operating platform at top of cooling tower, fasteners etc. - 1 lot

(4) Enclosures and cover for motor etc. - 1 set

(5) Supply and application of Painting as per standard

(6) Foundation Materials - 1 set

(7) 4 Sets of hardbound and 1 softcopy of O and M manuals including all applicable test certificates.

VENDOR QUALIFYING CRITERIA:

Only those vendors who satisfy the following conditions will get

qualified to participate in the tender:

(1.1) Only those vendors, who have Supplied and commissioned FRP cooling tower of capacity 100 m³/Hr and above for at least to three companies in the past seven years for which the vendor shall submit their Purchase

Order copies along with the offer.

(1.2) Along with Technical offer, the Vendor should submit performance certificate from minimum One customer for the satisfactory performance of the same.

(2) The vendor should submit following details which are necessary for qualifying their offer.

(2.1) Name and postal address of the customer / company where similar equipment commissioned.

(2.2) Name and designation of the contact person of the customer.


(2.3) Phone, FAX no and email address of the contact person of the customer.

(3) Company profile details has to be provided along with offer.

(4) BHEL reserves the right to verify the

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information provided by
vendor. In case the information provided by
vendor is found to be false
/ incorrect, the
offer shall be rejected.

General Note:

GENERAL NOTE:

PLEASE SUBMIT YOUR OFFER IN "TWO PART BID SYSTEM"
AS PER ANNEXURE ENCLOSED.

ENCLOSURES:

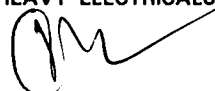
ANNEXURE II,III,IV,V,VI,VII

Enclosures:

"LD clause has to be confirmed without fail."

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MANAGER / PURCHASE
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CAPITAL PURCHASE
COMMERCIAL TERMS AND CONDITIONS

1.0 QUOTATIONS

The 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 & annexure III. This envelope should be clearly marked "**Part I - Technical and commercial bid**",

Indicating Enquiry No., Due Date and Address & Reference of the Bidder.

Envelope II This sealed envelope should contain **price as per Annexure-IV format**. This envelope should be clearly marked "**Part II - Price bid**", indicating **Enquiry No., Due Date and Address & Reference of the Bidder**.

Both the envelopes (Part I & II) shall be put in one cover (**Envelope III**), duly sealed, superscribing as Part I and Part II of Enquiry 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 hours (IST). Late offers will not Be considered.

Tender should not be addressed to any individual's name but only by designation to

**SENIOR MANAGER /PURCHASE/ CP & SP/ MM / MFG
BHARAT HEAVY ELECTRICALS LIMITED
HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620 014
TAMIL NADU**

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 detailed technical literature, catalogue and detailed dimensional drawings in **ENGLISH** or otherwise, the offers will not be considered.

2.0 OPENING OF TENDERS

The Part I - Technical & 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 tender opening date through e-mail.

Clarifications if any required by BHEL for Technical evaluation **would be** sought from Bidders before opening of Part II - price bid

For any queries clarifications the bidders may contact us through our FAX NO. +91 431 2520719 or through e-mail < mmcpmfg1@bheltry.co.in > & < chells@bheltry.co.in>

MM: CP & SP
Annexure For Techno Commercial Bid
 Check List - to be filled and submitted along with Technical Bid

BHEL Commercial Terms and Conditions for Indigenous Supplies	Vendor's Confirmation / Comments
Technical confirmation to BHEL's Specification as called for in BHEL Format shall be furnished. If needed additional sheets shall be used.	
Prices shall be quoted item wise only as per the model format enclosed	
Prices shall be quoted on " FIRM PRICE " basis only The prices should be only on F.O.R / Despatching station basis with Packing & Forwarding charges if any. Applicable % of ED & Sales Tax, Freight & Insurance, Installation & Commissioning Charges should be clearly Indicated	
Validity of offer shall be for a minimum period of 120 days from the date of Tender opening	
Delivery period from the date of Letter of Intent / Purchase order shall be clearly mentioned in the offer	
Liquidated damages @ '0.5% per week subject to a maximum of 10% of the order value shall be applicable for delay in deliveries For Details Refer Annexure- v	
Following Risk Purchase clause shall be applicable The purchaser at his option 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 time stipulated or if the same were not available, the best and the nearest available substitute therefore The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases	
Payment term for supply portion: Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials For details Refer Annexure- v	
Erection / commissioning: (if applicable only) Erection / commissioning charges if any has been mentioned in the offer or else confirmation that Erection / commissioning shall be done at free of cost is available in the offer,	
The equipment shall be guaranteed for a period of 12 months from the date of commissioning	
Final inspection and acceptance of equipment will be after installation at BHEL, Trichy	
The vendor shall provide necessary drawings, Test Certificates and Operating Maintenance Manuals etc., as called for in the Technical Specification, in the required number of copies at no extra cost	
Any warranty replacement during warranty period shall be supplied free of charge on FOR BHEL, Trichy basis.	
Offers should be submitted only in sealed cover super-scribing clearly the Enquiry reference and due date.	
% of Excise Duty with cess	
% of TAX (CST/VAT)-(INGST with FORM-17 or CST with C-FORM)	
Packing & Forwarding Charges (if any in % only)	
Percentage of Freight& transit insurance charges, if any Freight charges from Dispatching station to BHEL, Tiruchirappalli • Supplier should quote for F.O.R-BHEL Trichy Stores.	
As per Commercial terms and conditions, acceptance for participation in Reverse auction (RA).Yes/No to be indicated	
Name of the person for participating reverse auction	
Land Line Number	
Fax Number	
Mobile Number	
E-mail ID	

NOTE:-

- It is confirmed that all the terms and conditions stipulated in the Enquiry have been fully understood by us and all clarifications & details have been obtained.
- Your offer should be indicating applicable If any P&F Charges, % of ED, Sales Tax -CST or VAT, Service Tax), Freight, Insurance and Installation and Commissioning Charges etc., as per our Price Format
- Your specific acceptance to our Payment terms, LD & Risk Purchase Clause are essential for consideration of your offer. Other wise your offer is liable for rejection.
- No row shall be left blank. Please indicate NA, in case the item is "not applicable"

Annexure For Price Bid

**Bharat Heavy Electricals Limited TIRUCHIRAPPALLI
MODEL PRICE BID FORMAT FOR INDIAN BIDDERS**

CAPITAL PURCHASE

Annexure-IV

Enquiry No. & Date:

Bidder's Offer No. & Date:

SI No	Description of item	Unit	Quantity	Rate in Rs.	Value in Rs.
	TOTAL VALUE IN RS.				
	Packing & Forwarding charges in % if any				
	Freight & Insurance Charges In % if freight charges are not mentioned it will be considered as FOR-BHEL TRICHY.				
	Excise Duty (indicate in %)				
	A) TNGST — VAT (%)				
	B) CST with C-FORM — (%)				
	C) CST without C-Form — (%)				
	Approximate Net weight of the total consignment				
	Approximate Gross weight of the total consignment				
	Approximate Dimensions of the Consignment				
	The price indicated shall be inclusive of all accessories, spares etc. as given in the scope of supply. Individual item-wise break-up price shall be attached as an annexure to this price bid format.				

Signature & Seal of Vendor

NOTE:

1. The price bid should be submitted only as per the above format. No row shall be left blank. Please indicate NA, in case the item is "not applicable"
2. Prices shall be quoted item-wise only as per the above format.
3. If Price quoted is Inclusive of ED, the included ED Value and Base Value shall be indicated item-wise.

Payment Term (Indigenous)	
If materials are receivable at Stores/Trichy without PBG	Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials.
If materials are receivable at Stores/Trichy with PBG	Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials and against 10% PBG valid for the warranty period.
Any deviation in the above payment term will attract loading as mentioned below. “Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders.	

Payment through Bank is not preferred. In case of Payment through Bank is opted by Supplier, BHEL prefers documents submission through bank with copy of LR and door delivery of Goods to Site/Stores with Consignee copy attached. In this case Loading will be 3% on the offered value.
Offers of indigenous Suppliers with payment terms as LC/Advance Payment are liable for rejection.

Liquidated Damages / Penalty -
Liquidated damages shall be 0.5% of the total order value per week or part thereof subject to a maximum of 10% of the total order value.
For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value.
Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).

Guarantee / Warranty Period – (if applicable)
Normally No deviation permitted and the deviated offers are liable for rejection.

Ranking-
BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.

Performance Bank Guarantee – (if applicable)
Normally No deviation permitted and the deviated offers are liable for rejection.

NOTE:-

1. If the due date of tender opening happens to be a holiday, the tenders will be opened on the next working day.
2. BHEL 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 covering RA are given in commercial terms and conditions.
3. Corrigendum if any, with respect to this tender will be hosted only in the website <http://www.bhel.com> or <http://tenders.gov.in>. You are requested to visit the website regularly for updates.

Special Provisions for Micro and Small Enterprises (MSE)

1. 20% of the tendered quantity is earmarked for MSE suppliers in this tender.
2. Out of the 20% tendered quantity reserved for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC/ST entrepreneurs.
3. In case MSE vendor participating in the tender quotes within the price band of L1+15%, they will be allowed to supply the portion of the requirement subject to acceptance of L1 price by MSE vendor. In case of more than one such MSE, the supply shall be shared proportionately.
4. "MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM-II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed at Annexure -VII where deemed validity of EM II certificate of five Years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid). Non submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer."

Certificate by Chartered Accountant on letter head

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

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

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

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

Date:

(Signature)

Name -

Membership number -

Seal of Chartered Accountant