



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirapalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY

NOTICE INVITING TENDER

Phone: +91 431 257 7421/ 7297

Email : vkaruna@bhel.in

hari.r@bhel.in

Web : www.bhel.com

TWO PART BID

Tender to be submitted in two Parts

Enquiry

Number:

2742000006

Enquiry

Date:

15.06.2020

Due date for submission

of quotation:

17.07.2020

You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order.

Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer should reach physically on or before 14.00 Hrs(IST) on the Date of tender opening. Tenders received after 14.00Hrs (IST) will not be considered for evaluation.

Item	Description	Quantity	(Indigenous Vendors) Matl. Will be Delivered to
10	Heavy Duty Tubular Cooling Fans as per the technical specification & commercial conditions applicable (To be downloaded from web site www.bhel.com or https://eprocure.gov.in/epublish/app)	25 Nos	FOR, BHEL, Stores, PPU, Tirumayam

Important points to be taken care during submission of offer

- 1) Material shall be delivered to (By Indigenous vendors): As stated above.
- 2) Delivery required 3 months from the date of purchase order.
- 3) EMD for this Tender will be (INR): **40,000.00**
- 4) Compliance Forms. TMM/IND/03 A to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
- 5) All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media.

BHEL's General guidelines / instructions (refer MM / CE / GENL / GENL / 001 – EMD) including bank guarantee formats and list of consortium banks, commercial terms check-list can be downloaded from BHEL web site <http://www.bhel.com> or from <https://eprocure.gov.in/epublish/app> under Enquiry reference 2742000006 .

Tenders should be submitted before 14.00Hrs (IST) on the due date
Tenders will be opened online at 14:30 hours on the due date
Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present.

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

V. Karunakaran

DGM / Capital Equipment / MM

V. KARUNAKARAN
Dy. General Manager
Capital Equipment / MM
BHEL / Tiruchirappalli - 620 014

HEAVY DUTY TUBULAR COOLING FANS, Qty. 25 nos.

Part A

SECTION-1: Qualifying criteria

SL.NO.	REQUIREMENTS	VENDOR'S RESPONSE
1.1	The Bidder should be either a manufacturer or an authorised dealer, who have supplied at least TWO "HEAVY DUTY TUBULAR COOLING FANS" of capacity more than or equal to 50,000 cubic m /hr. in the last 7 years (as on the original date of tender opening) and the equipment is presently working satisfactorily for more than one year from the date of commissioning (as on the original date of tender opening) should quote. The copy of the P.O. for the same to be submitted with the offer as the proof. In case of authorised dealers, valid dealership certificate shall be attached along with the offer.	

SECTION-2:

The BIDDER / VENDOR are requested to provide the following information: -

S NO.	REQUIREMENTS	VENDOR'S RESPONSE
2.1	Vendor shall submit a complete reference list of customers (preferably of Heavy Engineering Companies) to whom such offered model of HEAVY DUTY TUBULAR COOLING FAN has been supplied in the last three years with PO details, Qty., year of commissioning with contact details of the customers.	
2.2	Specify details of HEAVY DUTY TUBULAR COOLING FAN supplied to other units of BHEL, if any (year of commissioning with details etc. The performance details will be verified by BHEL, for which the vendor to provide the contact persons details to BHEL, to whom the machine was supplied.	
2.3	BHEL reserves the right to verify the information provided by the vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected. BHEL reserves the right to accept or reject the OEMs based on the assessment of their technical and financial capability.	

SECTION-3:

The BIDDER to note:

S NO.	REQUIREMENTS	VENDOR'S RESPONSE
3.1	The BIDDER /VENDOR shall submit the offer in TWO parts. 1.Technical offer [with PART A & PART B] 2.Commerical offer and price bid.	
3.2	The technical offer shall contain complete details against all clauses of technical specification given by BHEL.	
3.3	The technical offer shall be supported by original product catalogues of the offered model, data sheet and technical details of bought –out –items.	
3.4	The commercial offer (given with the Technical offer) shall contain the scope of supply and the un-priced part of the price-Bid for conformation.	

HEAVY DUTY TUBULAR COOLING FANS, Qty. 25 nos.

Part B: TECHNICAL SPECIFICATION

S. No	PARTICULARS	BHEL SPECIFICATION	BIDDER'S OFFER
1	<i>Area of Application</i>	For air quenching of alloy steel pipes immediately after normalizing and tempering heat treatment at 1050 deg C in furnaces. The fans will be placed at a distance of approximately 2m from the hot pipes. The fans should withstand the radiation effect of hot pipes.	
2	<i>Construction</i>	Tubular type heavy duty cooling fans having robust base structure for stability with following material construction. The fan shall have a provision of tilting up and down by 15 degrees from the base structure manually. <u>Casing</u> : Steel of 3 mm minimum thickness. <u>Impeller</u> : Cast aluminium.	
3	<i>Sweep</i>	900 mm (36 inches)	
4	<i>Impeller</i>	The die cast aluminium impeller, aerodynamically balanced.	
5	<i>Impeller speed in RPM</i>	1440 RPM	
6	<i>Air delivery (m3/hr)</i>	50000 m3/hr minimum. Bidder to specify the actual value.	
7	<i>Protection guard</i>	Necessary protection guards on both side of casing by mesh/net.	
8	<i>Protection against electric shock</i>	Suitable earthing provision to be provided to avoid electric shock to the operator.	
9	<i>Motor specification</i>	Foot mounted totally enclosed squirrel cage induction motor with class B insulation. Motor should be energy efficient of IE3 type. The motor should be suitable for operation on 415 volts, 3 phase, 50 Hz A.C.	

S. No	PARTICULARS	BHEL SPECIFICATION	BIDDER'S OFFER
10	<i>Motor make and power</i>	Motor input power: Minimum 3 HP. Bidder to specify the make and actual power of motor.	
11	<i>Fan make</i>	Bidder to specify the fan make.	
12	<i>Fan Model</i>	Bidder to specify the model number.	
13	<i>Name plate</i>	Name plate of the machine shall also include details like name of manufacturer, Model No., Year of Mfg. input power in Watts, rated voltage and current, No. of phase, operating frequency, direction of rotation, weight of the unit etc..	
14	<i>Noise level at 3m radial distance in dB</i>	Shall not exceed 80 dB. at 3 m distance. Bidder to specify.	
15	<i>Dimensions</i>	Bidder to specify	
16	<i>Starter Box</i>	The starter box shall contain ON/ OFF/ RESET buttons with overload protection. The bidder shall mount the starters on the Fans.	
17	<i>Starter Box make</i>	Siemens/ Schneider/ ABB/ L & T/ BCH/ Crompton makes only. Vendor to specify the make.	
18	<i>Lifting arrangement</i>	Proper lifting arrangement should be provided over the fan casing for shifting the fans using EOT cranes.	
19	<i>Support</i>	The fans should have an inbuilt sturdy base/ support for placement over stands in shop floor.	
20	<i>Conformance to IS standard</i>	Performance should confirm to IS 6272 standard with tolerance specified therein.	

S. No	PARTICULARS	BHEL SPECIFICATION	BIDDER'S OFFER
21	<i>Documentation to be provided along with offer</i>	Technical and dimensional details with catalogue to be enclosed in the offer.	
22	<i>Documentation to be supplied along with equipment</i>	The following documentation shall be supplied: 1. Operation & Maintenance manual (3 sets-hard copy; 1 set-CD/pen drive) 2. Technical and dimensional details with catalogue (1 set) 3. Test certificates for each fan	
23	<i>Spares</i>	The bidder shall compulsorily quote for the unit price for the following spares separately. The ordered quantity may vary depending on the requirement at the time of ordering. 1. 3 phase induction motor 2. DOL Starter 3. Set of Blades for one fan.	
24	<i>Guarantee</i>	The performance of the fan in total or the components shall be guaranteed for period of 12 months from the date of performance acceptance at BHEL works.	
25	<i>Inspection</i>	BHEL reserves the right to inspect the equipment at vendor works before despatch. The supplier should give prior intimation and shall submit the copy of test certificates in advance of the equipment offered for inspection. Vendor shall make necessary arrangements for inspection.	
26	<i>Commissioning</i>	The fans after receipt will be energised and tested at BHEL Thirumayam works by BHEL for the required application. In case of any abnormalities noticed with respect to the technical parameters, vendor to come to BHEL works and resolve the same and commission the fans at their own cost.	
27	<i>Despatch</i>	The fan should be supplied in suitable packing to avoid any damage during handling, transit and storage.	