



# BHARAT HEAVY ELECTRICALS LIMITED

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

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GRAMS : BHARATELEC  
FAX NO: 2520719  
E-mail: srchandran@bheltry.co.in  
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429 002/A

	<b>Enquiry No</b>	<b>Enquiry Date</b>	<b>Due Date for Quotation</b>
	2661400121 - 55	21.02.2014	27.03.2014
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>SWAGING CYLINDER ASSEMBLY DRAWING 3M 1/A 03 15108 IS ONLY FOR REFERENCE. (1)Cylinder Inner Bore Dia: 300 mm/Nearest standard size, (2)Piston Rod Dia: 250 mm/Nearest standard size, (3)Stroke: 400 mm, (4)Type: Single rod and double acting adjustable, (5)Mounting: To suit the existing arrangement in the machine for its swaging/upsetting operation. OPERATING PARAMETERS : (1)Working pressure: 250 bar, (2)Working temperature: up to 100 deg c, (3)Testing Pressure: 350 bar, (4)Working medium: Hydraulic oil (SS 46/SS 68:SS 32). VENDOR QUALIFYING CRITERIA Only those vendors who satisfy the following conditions will get qualified to participate in the tender: 1.Vendor should have minimum 3 years experience in this field. 2.Previous PO details for supplying similar kind of items should be submitted along with offer.Otherwise offer will be rejected. 3.Company profile details has to be provided along with offer. 4.BHEL reserves the right to visit the vendor's works for verifying the manufacturing facilities and any other credential furnished by the vendor in case the information furnished with the offers found to be false /incorrect, the offer shall be rejected. GENERAL NOTE: The cylinder assembly to be tested to a pressure as specified at supplier's works for a holding time of minimum 10 minutes at both ends and intermediate position for leak free sealing. The supplier should provide all the facilities for testing at suppliers work to BHEL</p>	NO	1.000	1.00	19.05.14

Offers should reach us 30 minutes before the time of opening of tenders.  
Tenders will be opened at 14.30 hrs on the due date of tender in the presence of all bidders 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  
(FOSSIL BOILERS)  
Yours faithfully,



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engineer for pre-dispatch inspection. After receipt of pre dispatch inspection call letter BHEL Engineer will visit the supplier works within Two Weeks.

**COMMON NOTE:**

(1) After placement of purchase order the vendor should provide the detailed drawings, cross sectional assembly drawing of cylinder with its complete dimensions, material of construction, mean cushioning pressure to be specified by the offerer (if required for that cylinder) and

standard wear resistant sealing arrangements and bill of materials with Makes and Part number to BHEL for approval before manufacturing. Bore inner diameter shall be standard size suitable to seals which shall be designed by supplier and shall get necessary approval from BHEL

engineers before manufacturing. Approval will be given by BHEL within Two Weeks. This period (2+2=4 weeks i.e. 2 weeks for pre dispatch inspection and Two weeks for drawing approval) should be taken into account while quoting delivery period by the supplier.

(2) Both Rear, front end cushioning and air bleeding ports (if required), Breakaway pressure shall be included in the cylinder based on its application while quoting itself for technical evaluation.

(3) Cylinder bore to be honed to a surface finish not less than 20 micro inches (or) Ra 0.6 to Ra 0.4, Piston rod should be hard chrome plated to 40 microns (min) and Case hardening of 60-62 HRC (min) hardness for 1mm depth (min).

(4) Latest wear resistant sealing arrangement and only standard size seals of Bushak Shamban / Merkel / Parker / Simrit Freudenberg / Hunger / Hallite / James Walker makes only acceptable.

(5) Test certificates for hydraulic pressure testing, material, hardness and thickness of chrome plating to be submitted during Pre dispatch inspection / Material dispatch.

(6) Warranty shall be provided for 12 months from the date of installation or 18 months from the date of supply, whichever is earlier.

(7) Standard: NFPA/JIC/ISO standards only acceptable and standard to be mentioned by the offerer while quoting.

(8) Materials for construction for all the

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

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(FOSSIL BOILERS)  
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components are as follows(OR  
ITS EQUIVALENT ONLY ACCEPTABLE TO BHEL  
ENGINEERS)  
CYLINDER TUBE (SEAMLESS) : ST52-W/EN  
24  
PISTON ROD OR RAM : EN 8/EN 24  
PISTON : EN 8  
LOCK NUT : EN 24  
PIE RODS/SPECIAL BOLTS : EN 24  
END COVERS/FLANGES : EN 8/EN 24  
FASTENERS HIGH TENSILE GRADE: 10.9/12.8  
(I/V/S/L/P/S/UNBROKO)  
SWAGING DIE : TOOL  
STEEL/OHNS  
STRAIGHT DIE : EN 8/EN 24  
SPACER DIE : TOOL  
STEEL/OHNS  
SEALS : PU/PTFE/VITON OR  
ITS COMBINATION IN THE Makes  
as per SI.No: 4 ONLY  
(9)Supplier shall visit the site to get  
acquaintance about the  
machine and its operation before quoting.  
(10)All formed threads shall be ensured with  
standard GO and NO GO  
gauges, Ring gauges so as to match in the  
existing arrangement in  
machine (if required). The same has to be  
ensured by the supplier in pre  
dispatch inspection.  
(11)Piston rod while it extraction it shall be  
covered with reputed make  
bellows to prevent accumulation of dust on it.  
It shall be supplied  
along with cylinder. Bidder to provide the  
details.  
(12)Point by point confirmation is required for  
technical evaluation.  
(13)Offer shall be submitted in Two Part bid  
system.

## General Note:

GENERAL NOTE:  
PLEASE SUBMIT YOUR OFFER IN "TWO PART BID SYSTEM"  
AS PER ANNEXURE ENCLOSED.  
ENCLOSURES:  
ANNEXURE II,III,IV AND V

## Enclosures:

"LD clause has to be confirmed without fail."

"Payment to vendors will be made only thro E-Payment mode"

Offers should reach us 30 minutes before the time of opening of tenders.  
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tenderers who have submitted their offer and who may like to be present for the tender  
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Yours faithfully,  
For **BHARAT HEAVY ELECTRICALS LIMITED**

MANAGER / PURCHASE  
(FOSSIL BOILERS)  
Yours faithfully,



**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 < arjerome@bheltry.co.in > & < chells@bheltry.co.in>

MM: CP &amp; 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 <b>quoted item wise</b> only as per the model format enclosed	
Prices shall be quoted on " <b>FIRM PRICE</b> " basis only The prices should be only on <b>F.O.R / Despatching station</b> basis with <b>Packing &amp; Forwarding</b> charges if any. <b>Applicable % of ED &amp; Sales Tax, Freight &amp; Insurance, Installation &amp; Commissioning Charges should be clearly Indicated</b>	
<b>Validity of offer</b> 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	
<b>Liquidated damages @ '0.5%</b> per week subject to a maximum of 10% of the order value shall be applicable for delay in deliveries <b>For Details Refer Annexure- v</b>	
<b>Following Risk Purchase clause</b> 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	
<b>Payment term for supply portion:</b> Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials <b>For details Refer Annexure- v</b>	
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 <b>sealed cover super-scribing clearly the Enquiry reference and due date.</b>	
% 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 <ul style="list-style-type: none"> <li>Supplier should quote for F.O.R-BHEL Trichy Stores.</li> </ul>	
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	
Email 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"



<b>Payment Term (Indigenous)</b>	
<b>If materials are receivable at Stores/Trichy without PBG</b>	Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials.
<b>If materials are receivable at Stores/Trichy with PBG</b>	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.