

## Bharat Heavy Electricals Limited

(High Pressure Boiler Plant) Tiruchirappalli – 620014,

TAMIL NADU, INDIA

CAPITAL PURCHASE /MATERIALS MANAGEMENT / RM

<b>Title: HIGH TEMPERATURE STRAIN GUAGES</b>	Phone: +91 431 257 7054 Fax : +91 431 252 07 19 Email : <a href="mailto:sankars@bheltry.co.in">sankars@bheltry.co.in</a>  gvijay@bheltry.co.in Web : <a href="http://www.bhel.com">www.bhel.com</a> / <a href="http://www.tenders.gov.in">www.tenders.gov.in</a>
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	<b>Enquiry Number:</b>  2691300107/41	<b>Enquiry Date:</b> <b>16.09.2013</b>	<b>Due date for submission of quotation :</b> <b>03.10.2013</b>
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You are requested to quote the Enquiry number date and due date in all your correspondences. This is only a request for quotation and not an order.

### ITEM DESCRIPTION: HIGH TEMPERATURE STRAIN GUAGES

Confirmation of acceptance for BHEL commercial terms & conditions and Price Bid formats have been posted in BHEL Corporate web site [www.bhel.com](http://www.bhel.com) and on the Government tender website <http://tenders.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under Enquiry reference "**2691300107/41**".

Tenders should reach us before 14:00 hours on the due date.  
Tenders will be opened 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**  
SM-Pur (R & D)



# General Note: **BHARAT HEAVY ELECTRICALS LIMITED**

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

PHONE : 2577645  
GRAMS : BHARATELEC  
FAX NO: 2520719  
E-mail :  
Web :

429-002/A

<b>OFFICE COPY</b>	<b>Collective No.</b>	<b>Enquiry Date</b>	<b>Due Date For Quotation</b>
	2691300107	16.09.2013	03.10.2013
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>Spot weldable Strain gauge for the purpose of measuring strains during high temperature service of up to 650 C with dynamic strain measurement requirement.</p> <p>The backing material of the gauge should be austenitic stainless steel</p> <p>The gauge length shall be min of 8 mm</p> <p>The gauge resistance should be of 120 ohms.</p> <p>The strain gauge should be a single set up with full bridge circuit consisting of dummy, active and temperature compensation circuit board. Self-temperature compensation must be ensured with supplied temperature compensation circuit board.</p> <p>The lead wire shall be extended to min of 5 meters length with supplied wires. The gauges will be accepted with hard copy of complete adjoining characteristic data sheet for each gauge (for different backing material) including, test data for thermal output for different temperatures and different gage factors.</p> <p>The BIDDER/VENDOR shall meet the following requirements to get Qualified for submitting an offer for HIGH TEMPERATURE STRAIN GAUGES.</p> <p>Technical performance details of the strain gauges at different temperatures from Room temperature to 650 Centigrade have to be provided clearly.</p> <p>The Documents explaining the gauge installation and data acquisition specific to the gauges to be supplied must be submitted.</p> <p>The VENDOR shall have a minimum of THREE Years of Continuous Experience in the field of manufacture and supply of HIGH TEMPERATURE STRAIN GAUGES.</p> <p>Only those vendors, who have supplied, similar gauges for some applications in India and abroad in the past</p>	NO	10.000	10.00	30.11.13

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  
(FOSSIL BOILERS)



# 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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three years on the date of opening of Tender should quote. The vendor should submit the following information where similar gauges have been supplied, for qualification of their offer.

1. Name and postal address of the customer / company where similar gauges were supplied.
2. Phone, FAX no. and email address of the contact person of the customer.
3. Month and Year of supply
4. Application for which the gauges were supplied.

BHEL 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.

Strain gauges with SS backing material

20 NO 10.000 10.00 30.11.13

Spot weldable gauge for the purpose of measuring strains during high temperature service of upto 800 C with both static and dynamic requirement.

The backing material of the gauge should be Inconel

The grid length shall be min of 8 mm

The gauge resistance should be of 120 ohms.

The strain measuring requirement is both static and dynamic condition.

The strain gauge should be a single set up with full bridge circuit consisting of dummy, active and temperature compensation circuit

board. Self-temperature compensation must be ensured with supplied

temperature compensation circuit board.

The lead wire shall be extended to min of 5 meters length with supplied wires.

The gauges will be accepted with hard copy of complete adjoining characteristic data for each gauge (for different backing material)

including, thermal output for different temperatures, different gage factors.

The BIDDER/VENDOR shall meet the following requirements to get Qualified for submitting an offer for HIGH TEMPERATURE STRAIN GAUGES.

Technical performance details of the strain gauges at different temperatures from Room temperature to 800 Centigrade have to be provided

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  
(FOSSIL BOILERS)  
Yours faithfully,



# 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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21500

clearly.  
The Documents explaining the gauge installation and data acquisition specific to the gauges to be supplied must be submitted.

The VENDOR shall have a minimum of THREE Years of Continuous Experience in the field of manufacture and supply of HIGH TEMPERATURE STRAIN GAUGES.

Only those vendors, who have supplied, similar gauges for some applications in India and abroad in the past three years on the date of opening of Tender should quote.

The vendor should submit the following information where similar gauges have been supplied, for qualification of their offer.

1. Name and postal address of the customer / company where similar gauges were supplied.

2. Phone, FAX no. and email address of the contact person of the customer.

3. Month and Year of supply

4. Application for which the gauges were supplied.

BHEL 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.

Strain gauges with Inconel backing mater

## **General Note:**

PL. SUBMIT YOUR OFFER ON F.O.R/BHEL-TRICHY (TAMILNADU), INDIA AND IN TWO PART (TECHNO-COMMERCIAL BID AND PRICE BID)IN A SEPARATE COVER.

IF THE OFFER IS SUBMITTED IN SIGNLE PART AND THE SAME WILL BE LIABLE FOR REJECTION.

ANNEXURE-III ENCLOSED ~~HEREWITH~~ MUST BE FILLED, SIGNED AND SUBMITTED ALONG WITH YOUR OFFER.

ENCLOSURE: ANNEXURE - III

WE MAY GO FOR REVERSE AUCTION (ONLINE BIDDING) IF REQUIRED FOR THIS TENDER

## **Enclosures:**

**"LD clause has to be confirmed without fail."**

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

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  
(FOSSIL BOILERS)  
Yours faithfully,

## MM: CAPITAL EQUIPMENT

**Bharat Heavy Electricals Limited, Trichirapalli – 620 014**  
**(To be filled and submitted along with Offer)**

**BHEL Enquiry No.:**

**Date:**

<b>BHEL Commercial Terms and Conditions for IMPORT SUPPLIES</b>	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.	<b>To be furnished along with offer</b>
<b>Prices</b> shall be <b>quoted item wise</b> only.	
Prices shall be quoted on " <b>FIRM PRICE</b> " basis only. The prices should be only on FOB/FCA basis inclusive of Packing & Forwarding charges if any.	
<b>Validity of offer</b> shall be for a minimum period of 120 days from the date of Tender opening	
<b>Delivery period</b> from the date of Letter of Intent shall be clearly mentioned in the offer.	
<b>Liquidated damages @ ½% per week</b> subject to a maximum of 15% of the order value shall be applicable for delay in deliveries.	
<b>Payment terms for Foreign vendor (Principal):</b> 100% value of the goods will be paid through an irrevocable Letter of Credit established by our bankers. (OR ) 100% payment on CAD (CASH AGAINST DOCUMENTS) BASIS <b>All bank charges outside India are to vendor's account only. Any advance payment or payment before dispatch is not acceptable to us and If you fail to accept our payment terms, your offer is liable for rejection.</b>	
<b>Payment terms for Indian Agent:</b> Indian Agency commission, if any, shall be clearly specified in the offer and the same will be paid in Indian Rupees against acceptance / commissioning of the equipment.	
Part Shipment or Transshipment is not permissible	
In case of any short shipment in the spares, where separate rates are not available in the contract, the customs duty levied on such supplies, shall be borne by the supplier / Indian agent.	
Any warranty replacement during warranty period shall be supplied free of charge on FOR BHEL, Trichy basis.	
Equipment will be inspected and proved at vendor's works prior to dispatch. However final inspection and acceptance of equipment will be after installation at BHEL, Trichy.	
The equipment shall be guaranteed for a period of 12 months from the date of commissioning.	
<b>Offers</b> should be submitted only in <b>sealed cover superscribing clearly the Enquiry reference and due date.</b>	

**NOTE:-**

- a) 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.
- b) The prices are to be offered only on FOB/FCA basis, inclusive of Packing & Forwarding charges if any.
- c) Your specific acceptance to BHEL Payment terms & LD are essential for consideration of your offer. Otherwise your offer is liable for rejection.

Signature & Office Seal of the vendor

BHEL commercial terms and conditions for Indigenous suppliers	Vendor's Confirmation/comments	
Technical confirmation to BHEL's Specification shall be furnished. If needed additional sheets shall be used.		
Prices shall be quoted item wise only as per the model format enclosed		
<p>Prices shall be quoted on "FIRM PRICE" basis only. The price quoted should be only on F.O.R./Dispatching station basis inclusive of packing and forwarding charges Or EX-works basis</p> <p>If Ex-works basis the material has to be sent through BHEL-Approved Carriers. BHEL approved carrier List will be provided alongwith purchase order. if any. Applicable % of ED &amp; sales tax, Freight &amp; Insurance should be clearly indicated</p> <p><b>If there is no confirmation/comments, FOR BHEL-Trichy –STORES will be taken.</b></p>		
Delivery period from the date of letter of intent / Purchase order shall be clearly mentioned in the offer (No.of weeks/Months)		
<p>Liquidated damages(LD) @ ½ % per week subject to maximum of 15% of the order value shall be applicable for delay in deliveries</p> <p><b>If there is no confirmation/comments, LD clause accepted will be taken.</b></p>		
<p>Following risk purchase (RP) clause shall be applicable</p> <p>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 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 purchase.</p> <p><b>If there is no confirmation/comments, RP clause accepted will be taken.</b></p>		
<p>Payment terms for supply portion:</p> <ul style="list-style-type: none"> <li>100% payment will be made within 45- 90 days after receipt and acceptance of goods at BHEL</li> </ul> <p>Any other Payment term is not acceptable by BHEL.</p> <p><b>If there is no confirmation/comments, GR payment will be taken.</b></p>		
<p>Erection / commissioning: (if applicable only)</p> <p>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.</p>		
Equipment will be inspected and proved at vendor's works prior to dispatch.,if required. However final inspection and acceptance of equipment will be after installation at BHEL,Trichy. STORES		
The equipment shall be guaranteed for a period of 12 months from the date of receipt & acceptance./ (commissioning date ,if applicable)		
<b>The vendor shall provide necessary drawings, Test certificates and operating Maintenance Manuals etc. as called for in the technical specification wherever necessary.</b>		
Any warranty replacement during the warranty period shall be supplied free of charge on FOR BHEL Tiruchi basis		
Offers should be submitted only in sealed cover super scribing clearly the enquiry reference and due date		
<p>Validity of the offer should be for a period of not less than 120 days from the date of tender opening.</p> <p><b>If there is no confirmation/comments,120 days validity will be taken.</b></p>		
<b>Indicate the Delivery Terms:(EXW Basis (or) FOR Dispatching Station (or) FOR/BHEL/Stroes/Trichy)</b>		
Name of Contact person	Phone/Fax No:	Mobile No
E-mail ID	Company PAN No	Company CST/ VAT No:

**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 (RP) 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

Full postal Address:

Signature and office seal of the vendor

