

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES**

☎: (0431) 2575010 / 2575123 / e-mail: [umadsankar@bhel.in](mailto:umadsankar@bhel.in)



ISO 9001

ENQNo: 9251900054

Dt: 12.12.2019

## **NOTICE INVITING TENDER**

**SUB: Periodic Calibration of Reference Master Instruments**

**Ref: Enquiry No: 9251900054/ Dated: 12/12/2019; Due DT: 20/12/2019**

Tender of the following work should be submitted in a sealed cover consisting of three inner sealed covers such as 1) EMD cover, 2) Technical bid cover & 3) Price bid cover, all super- scribing the name of work, enquiry number etc.

- 1) EMD cover shall contain requisite **EMD of Rs 500/-**. Mode of Payment of EMD: (a) e-Collect mode (as directed in Commercial T & C) or (b) Banker's cheque/ Pay Order/ DD in favour of BHEL or (c) Fixed Deposit Receipt (FDR) issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies act (FDR should be in the name of the Contractor, a/c BHEL). EMD shall not carry any interest.
- 2) Technical bid cover shall contain duly filled in Technical bid document signed by the tenderer in all the pages with documentary evidences for pre-qualification such as experience, value of work executed in the similar nature of work etc. Any bid without proper documentary evidence for pre-qualification shall not be considered for further evaluation.
- 3) One set of unpriced bid of Contract Work Schedule duly signed by the tenderer for accepting the work content (BOM) should be submitted along with the Technical bid for technical evaluation.
- 4) The price bid cover shall contain price bid document duly filled in and signed by the tenderer in all the pages. The tenderer has to quote most competitive rates for all the items given in the Bill of Quantities in price bid.

The complete Technical bid and price bid along with requisite **EMD of Rs 500 /-** shall reach the office of the undersigned on or 20/12/2019 **at 14.00 Hrs.** MSE suppliers can avail EMD Waiver benefits only if they submit along with the offer, either of the following:

- 1) EM II Certificate having deemed validity of five years from the date of issue of acknowledgement in EM II.
- 2) EM II Certificate along with attested copy of a CA Certificate (Format Enclosed) if the date of issue of acknowledgement in EM II is older than five years as on the date of tender opening.
- 3) Valid NSIC certificate.
- 4) MSME - UAM certificate along with CA Certificate (Format Enclosed).

Tenders without EMD/ MSME proof as detailed above will be summarily rejected.

The Technical bid will be opened on the same day at **14.30 hrs.** In case of opening day falls on holiday or happened to be declared as a holiday the receipt and opening of the tender shall automatically fall on the same timing of the next working day. Date and time of opening of the Price Bid shall be intimated only to the bidders those who have qualified after evaluation of the Technical bid. You / Your authorized representative may participate in the tender opening.

Sign & Seal of Contractor

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## **NOTICE INVITING TENDER**

|     |                                 |   |
|-----|---------------------------------|---|
| 01. | Name of work                    | <b>Periodic Calibration of Reference Master Instruments</b> |
| 02. | Earnest Money Deposit           | Rs. 500 /-  |
| 03. | Duration of the contract        | 3 Months from the WO Date                                   |
| 04. | Last Date for Receipt of Tender | 14.00 Hrs. on 20/12/2019                                    |
| 05. | Date of Technical Bid Opening   | 14.30 Hrs. on 20/12/2019                                    |
| 05. | Date of Price Bid Opening       | Will be intimated to those who are Qualified separately.    |
| 07. | Guarantee Period                | Not applicable  |

The Tender documents can be down loaded from BHEL website ([www.bhel.com](http://www.bhel.com)) / govt. website ([www.tenders.gov.in](http://www.tenders.gov.in)) at free of cost. Tender document contains 15 Pages (Technical Bid 14 Pages, Schedule for price bid – 1 Page).

Clarification if any can be obtained from Engineer/ Contracts/ M&S.

Encl: 1) NIT – Notice Inviting tender (Consists of Preamble, Technical Bid & price bid)

Tender should be addressed to:

**THE ENGINEER,  
MAINTENANCE & SERVICES / CONTRACTS,  
2&4 BUILDING, BHARAT HEAVY ELECTRICALS LIMITED,  
HIGH PRESSURE BOILER PLANT,  
TIRUCHIRAPPALLI - 620014,  
TAMILNADU**

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## TECHNICAL BID

**NAME OF THE WORK: Periodic Calibration of Reference Master Instruments**

**Ref: Enquiry No.: 9251900054/ Dated: 12/12/2019; Due Dt: 20/12/2019**

### PRE-QUALIFICATION CRITERIA

The following eligibility criteria shall be complied to fulfill the Technical bid: -

| Sl. No | Description  | Vendor to confirm |
|--------|--|-------------------|
| 1      | Only those bidders shall quote who is having calibration lab certified by NABL or international accreditation body for ISO 17025:2005 compliance.<br>[Copy of accreditation certificate has to be submitted]   |                   |
| 2      | Bidder has to submit scope of accreditation along with the offer. [Scope of accreditation is to be attached]   |                   |
| 3      | (i) BHEL Vendor code (if applicable) -<br>(ii) PAN Number (Copy to be Enclosed) -<br>(iii) GSTN registration Number (Copy to be Enclosed) -<br>(iv) Mobile number (Which is linked to GSTN registration Number) -<br>(v) Email id (Which is linked to GSTN registration Number) –<br>(vi) SAC Code -<br>Offer will be entertained only if the vendor submit the details as above & has a valid GST registration no. If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer. Otherwise the offer shall be rejected. |                   |
| 4      | BHEL may verify the information provided by vendor. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected. Bidder to confirm.   |                   |
| 5      | Acceptance for Scope of Work as per the Enquiry.   |                   |
| 6      | Acceptance for All Terms & Conditions as per the Enquiry.  |                   |
| 7      | The bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL fraud prevention policy displayed on BHEL website <a href="http://www.bhel.com">http://www.bhel.com</a> and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice  |                   |

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### SCOPE OF WORK:

| ITEM NO. | SCOPE OF WORK  | UOM | QTY   |
|----------|--|-----|-------|
| 10/10    | <b>SM-06, DC Calibrator:</b><br>Calibration of DC Source/Measure Instrument<br>1. Instrument desc. : DC Calibrator<br>2. Make : Masibus inst.ltd.<br>3. Model : 2001<br>4. Inst. sl.no. : 94030030<br>5. Unique sl.no. : SM-06<br>6. Calibration Ranges : Measure mode: 0 to 2mA & 0 to 20mA, 0 to 200mV & 0 to 2V<br>Source mode: 0 to 2mA & 0 to 20mA, 0 to 200mV & 0 to 2V<br>[Note: In each Calibration range minimum 5 equidistant calibration points (including zero & Full scale) are required.]<br>7. Required Instrument accuracy level : $\pm 0.5\%$ FSV<br>8. Required periodicity : 1 Year<br>9. Required Accuracy level of the reference master instrument: $\pm 0.125\%$ FSV (minimum) | NO  | 1.000 |
| 20/10    | <b>SM-08, Digital Ammeter:</b><br>Calibration of Secondary Master Electrical Instrument.<br>1. Material desc. : AC Digital Ammeter<br>2. Make : AE Electric Ltd.<br>3. Inst. sl.no. : 7/97/68338/1<br>4. Unique sl.no. : SM-08<br>5. Range : 0 to 5 A<br>[Note: Minimum 5 equidistant calibration points (including zero & Full scale) are required in the range.]<br>6. Required Instrument accuracy level : $\pm 0.8\%$ FSV<br>7. Required periodicity : 1 Year<br>8. Required Accuracy level of the reference master instrument: $\pm 0.2\%$ FSV (minimum)  | NO  | 1.000 |
| 30/10    | <b>SM-36, Temp. Calibrator:</b><br>Calibration of Secondary Master Temperature Instrument.<br>1. Material desc. : Temperature Calibrator<br>2. Make : Yokogawa<br>3. Model : CA12 E Handy type<br>4. Inst. sl.no. : T1HB011<br>5. Unique sl.no. : SM-36<br>6. Range : Sense & source mode<br>7. Sense mode:<br>7.1 Sense mode Ranges:<br>DC Voltage : 0 to 100mV,<br>Resistance : 0 to 400 Ohms,<br>Pt 100 : -150°C to 800°C<br>(Minimum 5 equidistant readings required covering these ranges)  | NO  | 1.000 |

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|              |  |           |              |
|--------------|--|-----------|--------------|
|              | <p><b>7.2 Thermocouples Ranges:</b><br/> T= 0° to 400°C<br/> E= 0° to 1000°C<br/> K= 0° to 1200°C<br/> R= 0° to 1750°C<br/> J= 0° to 1200°C<br/> S= 0° to 1750°C<br/> B= 600° to 1800°C<br/> N= 0° to 1300°C<br/> (Minimum 6 equidistant readings required covering these ranges)<br/> <b>.8. Source mode:</b><br/> <b>8.1 Source mode Ranges:</b><br/> DC Voltage : 0 to 110mV,<br/> Resistance : 0 - 400 Ohms,<br/> Pt100 : -150°C to 800°C<br/> (Minimum 5 equidistant readings required covering these ranges)<br/> <b>8.2 Thermocouples Ranges:</b><br/> T= 0° to 400°C<br/> E= 0° to 1000°C<br/> K= 0° to 1200°C<br/> R= 0° to 1750°C<br/> J= 0° to 1200°C<br/> S= 0° to 1750°C<br/> B= 600° to 1800°C<br/> N= 0° to 1300°C<br/> (Minimum 6 equidistant readings required covering these ranges)<br/> <b>.9. Required Instrument accuracy level : ± 0.25% FSV</b><br/> <b>10. Required periodicity : 1 Year</b><br/> <b>11. Required Accuracy level of the reference master instrument:</b><br/> ± 0.0625% FSV (minimum)</p> |           |              |
| <b>40/10</b> | <p><b>SM-39, Temp. Calibrator:</b><br/> Calibration of Secondary Master Temperature Instrument.<br/> 1. Material desc. : Temperature Calibrator<br/> 2. Make : Yokogawa<br/> 3. Model : CA71<br/> 4. Inst. Sln. : T1L8024<br/> 5. Unique sl.no. : SM-39<br/> 6. Range : Sense &amp; source mode<br/> 7. Sense mode:<br/> <b>7.1 Sense mode Ranges:</b><br/> DC Voltage : 0 to 100mV,1V,10V,100V<br/> DC Current : 0 to 20 mA, 0 to 100 mA<br/> AC Voltage : 0 to 1V,10V,100V,300V<br/> Resistance : 0 to 400 Ohms,<br/> Pt 100 : -150°C to 800°C<br/> (Minimum 5 equidistant readings required covering these ranges)<br/> <b>7.2 Thermocouples Ranges:</b><br/> T= 0° to 400°C</p>  | <b>NO</b> | <b>1.000</b> |

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|       |  |    |       |
|-------|--|----|-------|
|       | <p>E= 0° to 1000°C<br/> K= 0° to 1200°C<br/> R= 0° to 1750°C<br/> J= 0° to 1200°C<br/> S= 0° to 1750°C<br/> B= 600° to 1800°C<br/> N= 0° to 1300°C<br/> (Minimum 6 equidistant readings required covering these ranges)<br/> 8. Source mode:<br/> 8.1 Source mode Ranges:<br/> DC Voltage : 0 to 100mV,1V,10V,30V<br/> DC Current : 0 to 20 mA, 4 to 20 mA<br/> Resistance : 0 to 400 Ohms,<br/> Pt 100 : -150°C to 800°C<br/> (Minimum 5 equidistant readings required covering these ranges)<br/> 8.2 Thermocouples Ranges:<br/> T= 0° to 400°C<br/> E= 0° to 1000°C<br/> K= 0° to 1200°C<br/> R= 0° to 1750°C<br/> J= 0° to 1200°C<br/> S= 0° to 1750°C<br/> B= 600° to 1800°C<br/> N= 0° to 1300°C<br/> (Minimum 6 equidistant readings required covering these ranges).<br/> 9. Required Instrument accuracy level : ± 0.25% FSV<br/> 10. Required periodicity : 1 Year<br/> 11. Required Accuracy level of the reference master instrument:<br/> ± 0.0625% FSV (minimum)</p> |    |       |
| 50/10 | <p><b>SM-40, Temp. Calibrator:</b><br/> Calibration of Secondary Master Temperature Instrument.<br/> 1. Material desc. : Temperature Calibrator<br/> 2. Make : Yokogawa<br/> 3. Model : CA71<br/> 4. Inst. sl.no. : T1L8028<br/> 5. Unique sl.no. : SM-40<br/> 6. Range : Sense &amp; source mode<br/> 7. Sense mode:<br/> 7.1 Sense mode Ranges:<br/> DC Voltage : 0 to 100mV,1V,10V,100V<br/> DC Current : 0 to 20 mA, 0 to 100 mA<br/> AC Voltage : 0 to 1V,10V,100V,300V<br/> Resistance : 0 to 400 Ohms<br/> Pt 100 : -150° to 800°C<br/> (Minimum 5 equidistant readings required covering these ranges)<br/> 7.2 Thermocouples Ranges:<br/> T= 0° to 400°C<br/> E= 0° to 1000°C</p>   | NO | 1.000 |

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|       |  |    |       |
|-------|--|----|-------|
|       | <p>K= 0° to 1200°C<br/> R= 0° to 1750°C<br/> J= 0° to 1200°C<br/> S= 0° to 1750°C<br/> B= 600° to 1800°C<br/> N= 0° to 1300°C<br/> (Minimum 6 equidistant readings required covering these ranges).<br/> 8. Source mode:<br/> 8.1 Source mode Ranges:<br/> DC Voltage : 0 to 100mV,1V,10V,30V<br/> DC Current : 0 to 20 mA, 4 to 20 mA<br/> Resistance : 0 to 400 Ohms<br/> Pt 100 : -150° to 800°C<br/> (Minimum 5 equidistant readings required covering these ranges)<br/> 8.2 Thermocouples Ranges:<br/> T= 0° to 400°C<br/> E= 0° to 1000°C<br/> K= 0° to 1200°C<br/> R= 0° to 1750°C<br/> J= 0° to 1200°C<br/> S= 0° to 1750°C<br/> B= 600° to 1800°C<br/> N= 0° to 1300°C<br/> (Minimum 6 equidistant readings required covering these ranges).<br/> 9. Required Instrument accuracy level : <math>\pm 0.25\%</math> FSV<br/> 10. Required periodicity : 1 Year<br/> 11. Required Accuracy level of the reference master instrument:<br/> <math>\pm 0.0625\%</math> FSV (minimum)</p> |    |       |
| 60/10 | <p><b>SM-45, Digital Ammeter:</b><br/> Calibration of Secondary Master electrical Instrument.<br/> 1. Material desc. : DC Digital Ammeter<br/> 2. Make : MECO<br/> 3. Unique sl.no. : SM-45<br/> 4. Inst. sl.no. : 3462215<br/> 5. Power Supply : 230V AC<br/> 6. Input : 75 mV<br/> 7. Range : 750A DC<br/> (Minimum 5 equidistant readings required covering this range)<br/> 8. Required Instrument accuracy level : <math>\pm 0.5\%</math> FSV<br/> 9. Required periodicity : 1 Year<br/> 10.Required reference Instrument accuracy level: <math>\pm 0.125\%</math> FSV</p>  | NO | 1.000 |
| 70/10 | <p><b>SM-46, Digital Voltmeter</b><br/> Calibration of Secondary Master electrical Instrument.<br/> 1. Material desc. : D.C. Digital Voltmeter<br/> 2. Make : MECO<br/> 3. Unique sl.no. : SM-46<br/> 4. Inst.sl.no. : 3462315</p>   | NO | 1.000 |

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|        |   |    |       |
|--------|---|----|-------|
|        | 5. Power Supply : 230V AC<br>6. Input : 200 V DC<br>7. Range : 199.9 V DC<br>(Minimum 5 equidistant readings required covering this range)<br>8. Required Instrument accuracy level : $\pm 0.5$ % FSV<br>9. Required periodicity : 1 Year<br>10.Required reference Instrument accuracy level: $\pm 0.125$ % FSV   |    |       |
| 80/10  | <b>SM-47, Digital Pressure Gauge</b><br>Calibration of Digital Pressure Gauge<br>1. Instrument Name: Digital Pressure Gauge<br>2. Make : Fluke<br>3. Model : 700G08<br>4. Inst.sl.no : 2742102<br>5. Unique sl.no : SM-47<br>6. Range : -1 to 70 kg/cm <sup>2</sup><br>7. Resolution : 0.001 kg/cm <sup>2</sup><br>8. Medium : OIL<br>9. Required Calibration Points-<br>Range: -1 to 0 kg/cm <sup>2</sup> - minimum 5 equidistant calibration points<br>Range: 0 to 70 kg/cm <sup>2</sup> - minimum 9 equidistant calibration points<br>(including zero and full scale value)<br>10.Required Instrument accuracy level: $\pm 0.1$ % FSV<br>11.Required periodicity: 1 Year<br>12.Required reference instrument accuracy level: $\pm 0.025$ % FSV | NO | 1.000 |
| 90/10  | <b>SM-49, Digital Pressure Gauge</b><br>Calibration of Digital Pressure Gauge<br>1. Instrument Name: Digital Pressure Gauge<br>2. Make : Fluke<br>3. Model : 700G31<br>4. Inst.sl.no : 2763037<br>5. Unique sl.no : SM-49<br>6. Range : -1 to 710 kg/cm <sup>2</sup><br>7. Resolution : 0.01 kg/cm <sup>2</sup><br>8. Medium : OIL<br>9. Required Calibration Points-<br>Range: -1 to 0 kg/cm <sup>2</sup> - minimum 5 equidistant points<br>Range: 0 to 710 kg/cm <sup>2</sup> - minimum 9 equidistant points<br>(including zero and full scale value)<br>10.Required instrument accuracy: $\pm 0.1$ % FSV<br>11.Required periodicity: 1 Year<br>12.Required reference instrument accuracy: $\pm 0.025$ % FSV                                    | NO | 1.000 |
| 110/10 | <b>SM-51, Digital Pressure Gauge</b><br>Calibration of Digital Pressure Gauge<br>1. Instrument Name: Digital Pressure Gauge<br>2. Make : Wika instruments<br>3. Model : CPG 1500<br>4. Inst.sl.no : 1A00CONW42Y<br>5. Unique sl.no : SM-51  | NO | 1.000 |



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|        |  |    |       |
|--------|--|----|-------|
|        | <p>6. Range : 0 to 700 kg/cm<sup>2</sup></p> <p>7. Resolution : 0.01 kg/cm<sup>2</sup></p> <p>8. Medium : OIL</p> <p>9. Minimum 9 equidistant calibration points shall be selected in the entire range including zero and full scale value.</p> <p>10.Required instrument accuracy: <math>\pm 0.1</math> % FSV</p> <p>11.Required periodicity: 1 Year</p> <p>12.Required reference instrument accuracy: <math>\pm 0.025</math> % FSV</p>   |    |       |
| 130/10 | <p><b>SM-53, Digital DC Calibrator</b></p> <p>Periodic Calibration Of Digital DC Calibrator</p> <p>1) Item Description : Digital DC Calibrator</p> <p>Make : VICTOR</p> <p>Model No : 15+</p> <p>Sl. No : 995116880</p> <p>Unique Sl. No : SM-53</p> <p>2)Ranges of Calibration required:</p> <p># Electrical parameters(Source mode)</p> <p>a) DC Voltage : 0 to 1000 mV, 0 to 10 V<br/>(Each range minimum five readings required)</p> <p>b) DC Current : 0 to 20 mA<br/>(Each range minimum five readings required)</p> <p># Electrical parameters(Measure mode)</p> <p>a) DC Voltage : 0 to 200 mV, 0 to 5 V,0 to 50 V<br/>(Each range minimum five readings required)</p> <p>b) DC Current : 0 to 50 mA<br/>(Each range minimum five readings required)</p> <p>3) Accuracy Criteria:</p> <p>(a) The Accuracy standard of our parameters is as below.</p> <p>i) For DC Volt : <math>\pm 0.5</math> % FSV</p> <p>ii) For DC Current: <math>\pm 0.5</math> % FSV</p> <p>(b) The Accuracy of the reference standards should meet the following values;</p> <p>i) For DC Volt : <math>\pm 0.1</math> % FSV(or)better</p> <p>ii) For DC Current: <math>\pm 0.1</math> % FSV(or)better</p> <p>4) Calibration Periodicity: 1 Year</p> | NO | 1.000 |

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|  |  |  |  |
|--|--|--|--|
|  | <p>General Terms &amp; Conditions:</p> <p>-----</p> <ol style="list-style-type: none"><li>1. Loading, unloading and To &amp; fro transportation of BHEL instruments for calibration works is under vendor's scope. The Instruments will be sent to vendor works in two batches. Any handling/packaging facility required at BHEL works will be provided at free of cost.</li><li>2. Total cost of calibration shall include cost of transportation. No separate cost for transportation shall be quoted in the offer.</li><li>3. The transit insurance for the instruments will be arranged by BHEL.</li><li>4. L1 price will be decided upon cumulative price quoted for all the instruments covered under this enquiry.</li><li>5. The calibration of Instruments at vendor works to be completed within 2 week times from the date of collection of the instrument.</li></ol> <p>Terms referring to calibration of Instruments:</p> <p>-----</p> <ol style="list-style-type: none"><li>1. The accuracy of reference masters used for calibration shall have minimum four times better accuracy than the BHEL's Instrument (UUC).</li><li>2. All the reference master instruments used for calibration should have valid calibration certificate traceable to National/international standards.</li><li>3. The Calibration certificate should incorporate all the below mentioned details:<ol style="list-style-type: none"><li>3.1 The name, Sl.no and the unique identification no. of the BHEL's instrument.</li><li>3.2 Date of Calibration and Due date for Next Calibration.</li><li>3.3 Name and address of the customer has to be mentioned in the certificate as "M/s. BHEL, M&amp;S Department, Trichy-14" and the customer reference (i.e. BHEL Work Order no &amp; date) to be mentioned in the certificate.</li><li>3.4 The details of the reference masters used for calibration like Sl.No, Range, Standard Value for measurement, Accuracy, etc.</li><li>3.5 Details of Traceability of the reference master instruments.</li><li>3.6 For each calibration point, the deviation and % error to be mentioned as applicable for UUC.</li><li>3.7 The calibration certificate shall include "as found and as left data". If both "as found and as left data" are same then it shall be exclusively mentioned in the certificate.</li><li>3.8 NABL Logo mentioning the certificate number shall be affixed on the certificate.</li></ol></li></ol> |  |  |
|--|--|--|--|

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### **GENERAL TERMS AND CONDITIONS FOR M&S CONTRACTS**

- 1) The workmen of contractor should be covered under PF/ESI, etc. as per labour laws.
- 2) Safety precautions have to be ensured by the Contractor Depending on the work nature. Necessary work permit system and personal protective equipment (PPE) such as electrical resistance rubber gloves, helmet, spectacle goggles, safety shoes, safety belt etc. as applicable to Mechanical works should be adhered while carrying out the work.
- 3) PPES for appropriate trade job has to be ensured by the contractor at the job site at all times.
- 4) The contractors may visit the area to assess the quantum of work before quoting.
- 5) The contractor should mention the point to point confirmation.
- 6) Contractor should commit for Terms and Conditions of the enquiry otherwise the offer shall be liable for rejection.
- 7) **TWO PART BID SYSTEM:** Contractor should send their offer for two part bid system as below
- 8) Contractor may visit to get acquaintance with quantum of day to day work by visiting BHEL Trichy premises before quoting.
- 9) The contractor should quote the exact time required to complete the work in their offer.

#### **TENDERING CONDITIONS:**

- a) The Bidders shall submit the offer in TWO PART BID SYSTEM (Part -I & II) along with EMD as indicated below which shall be sealed in ONE OUTER ENVELOPE.
- b) 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 commercial bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder. Envelope I should contain sealed EMD cover indicating the enquiry detail.
- c) Envelope II - This sealed envelope should contain price details. This envelope should be clearly marked as - "Part -II Price bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder.
- d) Envelope III - This sealed envelope should contain requisite **EMD**. This envelope should be clearly marked as - "EMD COVER", indicating Enquiry No., Due Date and Address & Reference of the Bidder.
- e) All the three envelopes shall be put in one cover, duly sealed, super scribing as offer for Enquiry No., and due date of opening, Name of the work and the address and reference of the Bidder.
- f) The offer should reach this office on or before the due date by 14.00 Hrs. (IST). Late offers will not be considered.
- g) Tenderers 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.
- h) Offers should be in ENGLISH and accompanied by detailed Point to point confirmation of the scope of work.
  - i) Tender should not be addressed to any Individual's name but only by designation to:

|   |
|---|
| THE ENGINEER<br>MAINTENANCE & SERVICES / CONTRACTS, 2&4 BUILDING,<br>BHARAT HEAVY ELECTRICALS LIMITED, HIGH PRESSURE<br>BOILER PLANT, TIRUCHIRAPALLI, TAMIL NADU - 620 014. |
|---|

#### **OPENING OF TENDERS:**

- a) The Part I - Technical & un-priced commercial bid and EMD Cover alone would be opened on the

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

## MAINTENANCE & SERVICES

☎: (0431) 2575010 / 2575123 / e-mail: [umadsankar@bhel.in](mailto:umadsankar@bhel.in)

ENQ No: 9251900054

Dt. 12.12.2019

Tender opening date (as mentioned in the enquiry) by 14.30Hrs(IST)

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

### GST:

1. Response to Tenders for Contractor will be entertained only if the vendor has a valid GST registration no which should be clearly mentioned in the offer. If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer.
2. Contractor shall mention their GSTN registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc.
3. All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code).

### LD CLAUSE:

If the contractor fails to complete the work as per terms & conditions of the order within the delivery schedule, 0.5% of the order value will be deducted for each week of delay or part thereof subject to a maximum of 10% of the total contract value.

### RISK PURCHASE:

In the event of any successful Tenderer's failure to fulfil any of the Tender / Contract obligations as per Contract / Agreement BHEL may entrust the job to alternate source and get it completed to meet BHEL requirement and additional expenditure, if any, including consequential cost, will be fully recovered from the Tenderer Contractor who failed to complete the job in line with Contract.

The decision of BHEL with regard to the actual losses / consequential expenditures incurred by BHEL shall be final and binding on the Tenderer / Contractor.

### INDEMNITY:

The Contractor shall have to indemnify BHEL against all claims for injury or damage to any person or property caused by his negligence or negligence of his employees whilst in BHEL premises / sites.

**IMPORTANT NOTE:** BHEL reserves the right to short close this work with one-month advance notice due to administrative reasons. BHEL's decision in this regard is final. Under such circumstances payment will be made for actual number of cleanings carried out up to the period.

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## **COMMERCIAL TERMS AND CONDITIONS FOR M&S CONTRACTS**

- 1) 100% payment will be made after completion of work on submission of invoice in triplicate duly certified by Area in-charge.
- 2) **Payment of EMD & SD preferably be in e-Collect mode, while making such payment, Enquiry number may be mentioned in Remark column. Offers without EMD shall be liable for rejection.**  
**Procedure to remit money to BHEL Trichy's Account :**  
Login to: <https://www.onlinesbi.com/prelogin/icollecthome.htm?corpID=574693>
  - a) Select State Bank Collect available on the top ( pre login page )
  - b) Accept the terms and conditions and click "PROCEED"
  - c) Select State "TAMILNADU "and Institution type "INDUSTRY "
  - d) Select "BHEL TRICHY" under "INDUSTRY".
  - e) In the next page, Select APPROPRIATE category, fill details correctly & click "SUBMIT".
  - f) If all details entered are correctly populated, click "CONFIRM "to proceed.
  - g) Make payment as per your convenience. (Options available are payment of fees through **SBI Net Banking, State Bank ATM cum Debit Cards / Other Bank Debit / Credit Cards and through SBI Branches**).
  - h) SAVE & Keep the copy of receipt for future reference.
- 3) Security Deposit shall be furnished by the successful vendor to the total contract value before starting the work. The total amount of Security Deposit will be 5% of the contract value. EMD of the successful tenderer shall be converted and adjusted towards the required amount of Security Deposit. SD is forfeited in case of any failure in execution of the contract or due to any shortcomings observed in the documentation furnished earlier for getting qualified or in case the Contractor is banned.
- 4) An additional payment as per circular ref. BHE/HR/W/EW/08.04.2014 is to be paid to the contract workmen as below, over and above the minimum wages prescribed by the government of Tamil Nadu:

|                       |             |
|-----------------------|-------------|
| Unskilled - Rs.3200/- |             |
| Semiskilled           | - Rs.3700/- |
| Skilled               | - Rs.4100/- |
- 5) Bonus @ 8.33 % to workmen to be paid.
- 6) **Rate should be quoted as per price bid.**
- 7) The rate that is offered should be comprehensive and no separate charges will be made towards expenses like travel, boarding and lodging.
- 8) The contractor should quote the validity of the offer.
- 9) Contractor should remit the salary/wages for their workmen only through Bank. Monthly clearance will be given in respect of all contractors, if only the salary/ wages to the workmen has been remitted through the bank account of the contract workmen. The relevant Bank statement/proof for Bank payment should be produced along with PF and ESI challan's to Welfare Section every month.
- 10) Evaluation will be on overall L1 for all items as per price bid template. In case of tie in L1, revised bid (less than or equal to old price) will be obtained. If still tie exist L1 bidder will be chosen by draw of Lot.

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Dt. 12.12.2019

## 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)) \_\_\_\_\_ dt. \_\_\_\_\_, 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):

₹ \_\_\_\_\_ 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):

₹ \_\_\_\_\_ Lacs

**(Strike off whichever is not applicable)**

The above investment of ₹ \_\_\_\_\_ Lacs is within permissible limit of ₹ \_\_\_\_\_ Lacs for \_\_\_\_\_ Micro / 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

# BHARAT HEAVY ELECTRICALS LIMITED

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**MAINTENANCE & SERVICES DEPARTMENT**

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ENQNo: 9251900054

Dt:12.12.2019

## **SCHEDULE FOR PRICE BID**

**SUB: Periodic Calibration of Reference Master Instruments**

**Ref: Enquiry No: 9251900054/ Dated: 12/12/2019; Due DT: 20/12/2019**

| Sl.no  | SCOPE OF WORK                 | UOM | Qty   | RATE | VALUE=(RATE*Qty) |
|--------|-------------------------------|-----|-------|------|------------------|
| 10/10  | SM-06, DC Calibrator          | NO  | 1.000 |      | -NA-             |
| 20/10  | SM-08, Digital Ammeter        | NO  | 1.000 |      | -NA-             |
| 30/10  | SM-36, Temp. Calibrator       | NO  | 1.000 |      | -NA-             |
| 40/10  | SM-39, Temp. Calibrator       | NO  | 1.000 |      | -NA-             |
| 50/10  | SM-40, Temp. Calibrator       | NO  | 1.000 |      | -NA-             |
| 60/10  | SM-45, Digital Ammeter        | NO  | 1.000 |      | -NA-             |
| 70/10  | SM-46, Digital Voltmeter      | NO  | 1.000 |      | -NA-             |
| 80/10  | SM-47, Digital Pressure Gauge | NO  | 1.000 |      | -NA-             |
| 90/10  | SM-49, Digital Pressure Gauge | NO  | 1.000 |      | -NA-             |
| 110/10 | SM-51, Digital Pressure Gauge | NO  | 1.000 |      | -NA-             |
| 130/10 | SM-53, Digital DC Calibrator  | NO  | 1.000 |      | -NA-             |

**NOTE: Please quote rate for the above item text with reference from detailed text of Scope of work.**

- GST not to be included above and to be mentioned as a percentage separately. Other taxes if any are inclusive.

- 1) 100% payment will be made after completion of work on submission of invoice in triplicate duly certified by Area in-charge.
- 2) Tax deduction will be made from every bill at the prevailing rate as per the Government rule and regulation From time to time.
- 3) Detailed scope of work and other terms and conditions are specified in the Technical Bid of the Tender.
- 4) The Tenderer has to quote the Rate / Unit only.
- 5) **Cumulative L-1 will be considered for ordering**

Sign & Seal of Contractor