



An ISO 9001  
Company

# Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

<b>ENQUIRY</b>	Phone: +91 431 257 76 53 Fax : +91 431 252 07 19 Email : <a href="mailto:skaruna@bheltry.co.in">skaruna@bheltry.co.in</a> Web : <a href="http://www.bhel.com">www.bhel.com</a>
<b>NOTICE INVITING TENDER</b>	

<b>TWO PART BID</b>	<b>Enquiry Number:</b>	<b>Enquiry Date:</b>	<b>Due date for submission of quotation:</b>
Tender to be submitted in two Parts	<b>2631500032</b>	<b>19.10.2015</b>	<b>11.11.2015</b>


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 is reaching physically our office before 14.00 hrs on the Date of tender opening.

Item	Description	Quantity
10	<b>Hand Held Type Portable Tungston Electrode Grinder</b> as per the technical specification & commercial conditions applicable (to be downloaded from web site <a href="http://www.bhel.com">www.bhel.com</a> or <a href="http://tenders.gov.in">http://tenders.gov.in</a> )	<b>14 Nos.</b>

**Important points to be taken care during submission of offer**

1. Compliance Form No: MM/ CE/ IMP/ 03 and MM/ CE/ IND/ 03A to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
2. 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.
3. Delivery required: 3 months from the date of Purchase Order.
4. Commissioning and Prove out have to be done at BHEL/ Trichy by the vendor. Time period required for performing commissioning activities shall be 3 weeks from the date of intimation from BHEL.
5. EMD applicable for this tender is INR 40,000.00

BHEL's General guidelines / instructions (refer MM/CE/GENL/001), compliance form and technical specification can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under Enquiry reference "2631500032".

<p>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</p>	<p>Yours faithfully,          For BHARAT HEAVY ELECTRICALS LIMITED</p>  DGM / Capital Equipment / MM
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**S. KARUNANIDHY**  
 Dy. General Manager  
 Capital Equipment / MM  
 BHEL, Tiruchirappalli - 620 014.

**HAND-HELD TYPE PORTABLE TUNGSTEN ELECTRODE GRINDER (QTY – 14 Nos.)****PART A – QUALIFYING CRITERIA****SECTION 1: Qualifying Criteria**

The Bidder has to compulsorily meet the Qualifying criteria indicated in SECTION 1 to get qualified otherwise the technical offer will not be considered.

<b>S. No.</b>	<b>BHEL REQUIREMENTS</b>	<b>VENDOR'S RESPONSE</b>
<b>1.1</b>	The BIDDER / VENDOR (OEM) shall have a minimum of last FIVE Years of Continuous Experience in the Design, Manufacture & Supply of "Hand-Held Electrically driven dry type Portable Tungsten Electrode Grinder". Vendor to indicate the actual no. of years of experience in the field	
<b>1.2</b>	Only those vendors (OEMs), who have Manufactured and commissioned at least 15 numbers of Hand- Held Electrically driven dry type Portable Tungsten Electrode Grinder in the last FIVE years (as on date of opening of Tender) Bidder to indicate the model and quantity supplied with customer list.	
<b>1.3</b>	Vendor has to submit at least <b>TWO Performance Certificates</b> from any two of their customers, for satisfactory performance of the <b>quoted model of Hand- Held Electrically driven dry type Portable Tungsten Electrode Grinder</b> supplied to them with in the last five years and is working satisfactory for a minimum period of one year from the date of commissioning (as on original date of opening of tender). For obtaining the Performance certificate, a suggestive format is provided.	
<b>1.4</b>	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.	

**SECTION 2:** The Bidder is requested to provide the following information:

<b>S. No.</b>	<b>PARTICULARS</b>	<b>VENDOR'S RESPONSE</b>
<b>2.1</b>	Servicing facility to be available in India. Details on Service-After-Sales Set-Up in India (Address of Agents / Service Centres), to be furnished compulsorily.	
<b>2.2</b>	Details on Standards followed in Design and Testing of the equipment.	
<b>2.3</b>	The BIDDER shall give details about supply of similar <b>Hand- Held Electrically driven dry type Portable Tungsten Electrode Grinder</b> to other BHEL units if any with Make, Model and Year of Supply & Commissioning etc.	
<b>2.4</b>	Any Additional Data to supplement the manufacturing capability of the BIDDER.	

Suggestive Format of Performance Certificate:

The performance certificate should be produced **on Customer's Letter Head.**

**PERFORMANCE CERTIFICATE**

- 1 Supplier of the instrument
- 2 Make & Model of the instrument
- 3 Month & Year of Commissioning
- 4 a. Application for which instrument is used  
b. Jobs done by using this instrument
- 5 Performance of the instrument                      Satisfactory / Not Satisfactory  
(Strike off whichever is not applicable)
- 6 After sales service                                      Satisfactory / Not Satisfactory  
(Strike off whichever is not applicable)
- 7 Any Other remarks

Signature & Seal of the Authority  
Issuing the Performance Certificate

Contact details of issuing authority  
Name & Designation:  
Office No/ Mobile no:  
Email ID:

**HAND-HELD TYPE PORTABLE TUNGSTEN ELECTRODE GRINDER****(QTY – 14 Nos.)****PART B - TECHNICAL SPECIFICATION**

S No.	Item Description	Specification	VENDOR'S RESPONSE
1.0	<b>Purpose:</b> The Hand-held type electrically driven portable Tungsten Electrode Grinder will be used for grinding the Tungsten Electrode tips used in TIG Welding machines – vendor to confirm		
1.1	Sizes of electrodes to be ground- vendor to confirm	<b>Diameter</b>	<b>Length (Max)</b>
		1.6 mm	150 mm
		2.0 mm	150 mm
		2.4 mm	150 mm
1.2	Included angle to be ground at the electrode tip	15, 30, 45, 60 and 90 deg.	
1.3	Minimum electrode length that can be ground	Vendor to specify	
1.4	<b>Electrode holder and clamping arrangement:</b> Universal chuck / holder for holding different diameter electrodes / collets for different diameters mentioned in clause 1.1. -- Vendor to specify.		
1.5	Adjustment angle	Protractor scale/Angle indication to be provided for setting the desired angle.	
2.0	<b>Grinding machine configuration</b>		
2.1	Type	Electrically driven dry type grinder	
2.2	Grinding wheel material	Diamond Grinding Wheel only	
2.3	Grinding wheel Dia and Grit size	Vendor to specify	
2.4	Enclosure	The grinding wheel and Electrode area to be fully enclosed and a window covered with Plexi glass shall be provided to view the grinding operation. The vendor to specify whether any provision is there for cleaning the glass inside surface.	
2.5	Grinding	Longitudinal	
2.6	Grinding wheel speed	Vendor to specify in RPM	
2.7	Portability	The grinder shall be Handheld type. Safe handling arrangement to be provided for holding the equipment while grinding.	
2.8	Over all dimensions of the unit	Vendor to furnish details	
2.9	Max Weight of the unit	Not to exceed 4kg (including electrode holding chuck/holder and grinding wheel.	
2.10	Actual Weight of the unit	Vendor to specify	

<b>3.0</b>	<b>Electrical specification</b>		
<b>3.1</b>	Motor power in watts	Vendor to specify	
<b>3.2</b>	AC input power supply	230V, 50 Hz, single phase	
<b>3.3</b>	Power supply cable	The grinding machine shall have min 5 meter long input power supply cable.	
<b>4.0</b>	<b>Consumables</b>		
<b>4.1</b>	Consumables	Grinding wheels : 2 Nos per machine	
<b>5.0</b>	<b>Spares</b>		
<b>5.1</b>	Collets shall be supplied for the following electrodes as spares - Vendor to confirm For Dia 1.6mm electrode- 07 Nos (for14 machines) For Dia 2.0mm electrode- 07 Nos (for14 machines) For Dia 2.4mm electrode- 07 Nos (for14 machines) For Dia 3.2mm electrode- 07 Nos (for14 machines)		
<b>5.2</b>	Filter (M- class): 07 Nos. (for14 machines)	Vendor to confirm	
<b>5.3</b>	Carbon Brush: 07 sets. (for14 machines)	Vendor to confirm	
<b>5.4</b>	If any other spares required for two year trouble free operation?	Vendor to furnish a list	
<b>5.5</b>	Each machine shall be supplied with standard accessories and tools	Vendor to confirm and list to be provided.	
<b>6.0</b>	<b>Additional items to be offered by the Vendor</b>		
<b>6.1</b>	<b>Mandatory</b> – Tungsten electrode Tip – Flat diameter measuring unit: Qty 1 No per machine		
<b>6.2</b>	<b>Mandatory</b> – Magnifying lens with light- Qty 1 No per machine		
<b>6.3</b>	<b>Optional</b> – Vacuum system if any to filter grinding particles from the enclosed area to be offered separately as optional item		
<b>7.0</b>	<b>General</b>		
<b>7.1</b>	<b>Operation &amp; Maintenance manuals:</b> Six hard copies of detailed O & M manuals and safety instructions and three soft copies of the same in CDs or pen drives to be provided along with the equipment.		
<b>7.2</b>	<b>Pre Dispatch inspection :</b> The equipment shall be tested for its performance by the Vendor at Vendor’s work and test certificate mentioning Sl.No of the equipment to be provided prior to dispatch of the equipment		
<b>7.3</b>	<b>Commissioning:</b> Commissioning & Prove out has to be done at BHEL,Trichy by the Vendor		
<b>7.4</b>	<b>Training:</b> Detailed instructions and training regarding operation, maintenance and trouble-shooting shall be provided by the Vendor during commissioning		
<b>7.5</b>	<b>Guarantee:</b> The equipment shall be guaranteed for minimum period of twelve months from the date of commissioning.		