

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

☎: (0431) 2575010 Fax: (0431) 2576805

e-mail:[umadsankar@bheltry.co.in](mailto:umadsankar@bheltry.co.in)



ISO 9001

ENQ No: 9241700024

21.07.2017

## NOTICE INVITING TENDER

Sub: **AMC REFRACTORY MAINTENANCE FOR ALL FURNACES IN HPBP-UNIT I AND II(BRICK WORKS,INSULATION WORKS, ELECTRICAL COIL BRICKS WORKS)– Reg.**

Ref: Enquiry no: 9241700024 DATED: 17/07/2017; DUE DT: 16/08/2017

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.13,076/-** & Payment of EMD must be in e-Collect mode only. Tender without EMD will be summarily rejected and the Technical bid & price bid shall not be considered. Tender without EMD will be summarily rejected and the Technical bid & price bid shall not be considered.
- 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.13,076/-** shall reach the office of the undersigned on or before 16/08/2017 at 14.00 Hrs.

MSE suppliers can avail EMD Waiver benefits only if they submit along with the offer, attested copies of either EM II Certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II Certificate along with attested copy of a CA Certificate (Format Enclosed). Tenders without EMD/MSME proof as detailed above will be summarily rejected.

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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.

Clarification if any can be obtained from the undersigned.

Kindly acknowledge the receipt of the entire set of tender document.

Thanking you,

Yours faithfully,

For Bharat Heavy Electricals Limited,  
Engineer  
Contracts Maintenance & Services Dept

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**

Sign & Seal of Contractor

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## NOTICE INVITING TENDER

01.	Name of work	<b>AMC REFRACTORY MAINTENANCE FOR ALL FURNACES IN HPBP-UNIT I AND II. (BRICK WORKS, INSULATION WORKS, ELECTRICAL COIL BRICKS WORKS)</b>
02.	Earnest Money Deposit	₹ .13,076/-
03.	Duration of the contract	1 Years (From the date of commencement of the work)
04.	Last Date for Receipt of Tender	14.00 Hrs on 16/08/2017
05.	Date of Technical Bid Opening	14.30 Hrs on 16/08/2017
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 17 Pages (Technical Bid – 16 Pages, Schedule for price bid – 01 page).

ISSUING OFFICER

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## TECHNICAL BID

NAME OF THE WORK: **AMC REFRACTORY MAINTENANCE FOR ALL FURNACES IN HPBP-UNIT I**

**AND II. (BRICK WORKS, INSULATION WORKS, ELECTRICAL COIL BRICKS WORKS)**

Enquiry no: 9241700024 Dated: 17/07/2017. Due date: 16/08/2017, 14.00 Hrs.

### PRE-QUALIFICATION CRITERIA

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

Sl. No	Description	Vendor to confirm
1	The bidder should have previous experience in the field work mentioned below: Work Experience in Refractory Bricks fixing/Insulation Blanket fixing in Furnaces in any Engineering industry within past five years from the date of tender opening- For proof of Experience-Work order copy /Form 26 AS/TDS certificate/Proof of payment received/Certificate from Chartered Accountant/Customer certificate for experience in the field of Refractory Bricks fixing/Insulation Blanket fixing in Furnaces from at least one Central/State govt./PSU company/Private organization. Experience certificate from private organization to be supported by TDS(Tax Deduction at source) certificate issued by the organization OR Form 26 AS OR bank statement as a proof of payment.	
2	Name and contact details like E-mail, Phone number, Fax no, etc. of the customer / company where the maintenance contract is executed. Bidder to confirm	
3	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.	
4	(i) BHEL Vendor code (if applicable) - (ii) PAN Number (Copy to be Enclosed) - (iii) GSTN registration Number (Copy to be Enclosed) - (iv) Mobile number (Which is linked to GSTN registration Number) - (v) Email id (Which is linked to GSTN registration Number) - (vi) HSN/SAC Code - 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.	
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:

### 1. AMC REFRACTORY MAINTENANCE FOR ALL FURNACES IN HPBP-UNIT I AND II. (BRICK WORKS, INSULATION WORKS, ELECTRICAL COIL BRICKS WORKS)

#### 1)AMC FOR FUNACE BRICKS WORKS

Sl. No	SCOPE OF WORK	QTY
A1	<b>REMOVAL OF DAMAGED REFRACTORY BRICKS</b>  <b>NAME OF WORK FOR ALL ITEMS (Item 10 to 80):</b> AMC FOR ALL GAS FIRED FURNACE, ELECTRICAL FURNACE, SALT BATH FURNACE, GAS PLANT BOILER AND OTHER FURNACES IN HPBP-UNIT I and II.  <b>Item 10:</b> Breaking, Removal and Disposal of damaged refractory fire bricks/Insulation bricks/fire clay mortar/on the constructed wall/hearth/door/Bogie of the furnaces as per Instruction of Supervisor/Refractory.	200 M3
A2	<b>CONSTRN. OF REFRACTORY BRICKS</b>  Construction of refractory wall/Bogie/hearth, door of the furnaces using refractory fire bricks/insulation bricks and binding fire clay mortar cement as per Instruction of Supervisor/Refractory.	200 M3
A3	<b>REMOVAL OF DAMAGED REFRACTORY CASTABLE</b> Breaking, Removal and Disposal of damaged refractory Castable on the constructed wall/hearth/door/Bogie of the furnaces as per Instruction of Supervisor/Refractory.	25 M3
A4	<b>WELDING OF ANCHORS</b> Welding of anchors on the metallic surface prior to applying Refractory castable.	50 NO
A5	<b>INSTALLATION OF REFRACTORY CASTABLES</b> Installation of refractory castable insulation on the furnace walls/doors/bogie/Job support pedestals using medium/dense castable.	25 M3
A6	<b>WELDING OF SS PLATES</b>  Welding of S.S flats on the job support pedestal beams has to be done by the contractor for supporting the refractory insulation like firebricks/castable.	200 KG
A7	<b>REMOVAL OF DAMAGED BURNER BLOCK</b> Removal of damaged burner blocks (Top and Bottom places) from the wall/hearth of the gas fired furnaces as per Instructions of Supervisor/Refractory.	65 NO

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Sl. No	SCOPE OF WORK	QTY
A8	<p><b>FIXING OF NEW BURNER BLOCKS</b></p> <p>Placing in position and fixing of new burner blocks(Top and bottom) with binding mortar cement, on the wall/Hearth of the gas fired furnaces as per Instructions of Supervisor/Refractory.</p> <p><b>COMMON NOTE FOR ALL ITEMS:</b></p> <p><b>BHEL SCOPE:</b></p> <ol style="list-style-type: none"><li>1.All the raw materials required for the above works will be provided by BHEL at factory stores/department storage place at free of cost.</li><li>2.Welding machine with welding sets, Welding consumables, cables, welding holder, cleaning agents etc., required for the above work will be supplied by BHEL at free of cost.</li><li>3.Crane will be provided by BHEL at free of cost for lifting assistance.</li></ol> <p><b>CONTRACTOR SCOPE:</b></p> <ol style="list-style-type: none"><li>1.All the hand tools and accessories required for the above work has to be arranged by the contractor.</li><li>2.The contractor has to move the debris/wastages collected out of the above works and dispose them at identified disposal points ONLY as per the instructions of the furnace Refractory supervisor.</li><li>3.Contractors has to move the materials and debris by their own labour for which the required vehicle for movement will be arranged by BHEL.</li></ol> <p><b>NOTE:</b></p> <ol style="list-style-type: none"><li>1)All the above works will be carried out in gas fired furnace, electrical furnace, salt bath furnace, gas plant boiler and other furnaces in HPBP-Unit I and II.</li><li>2)The Contractor should quote separate rates for each item. The L1 offer will be decided based on the cumulative L1 value of all the items(8 items) and order will be placed on single contractor, since these are inter-related items.</li></ol>	65 NO

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## 2) AMC FOR FURNACE INSULATION WORK

Sl. No	SCOPE OF WORK	QTY
B1	<b>REMOVAL OF CERAMIC FIBRE BLANKETS</b> Removal of damaged ceramic cup locks,Ceramic fibre blanket insulation lining of different densities from the side wall/rear wall/roof/door/ducts of the furnaces.	1600 M2
B2	<b>REMOVAL AND STUD FIXING</b> Removal of damaged Inconel/Stainless steel studs and Welding of New Inconel/Stainless steel studs on the side wall/rear wall/roof/door/ducts of the furnaces.The new studs are to be welded after cleaning of the furnace surfaces.	3400 NO
B3	<b>FIXING OF CERAMIC FIBRE BLANKETS</b> Positioning and fixing of ceramic fibre blankets insulation lining of different densities on the welded studs on the side/rear wall/roof/door/ducts of the furnaces and locking them with ceramic cup locks or with metallic locks and closing the cuplock with Refractory mortar. (Note-Incase of 10/12 layers being fixed, then 5/6 Layers of Ceramic Fibre Blankets are to be positioned on 150mm length Intermediate anchoring studs and are to be locked with SS metal locks.Remaining 5/6 Ceramic fibre blanket layers are to be positioned and installed on 275mm Length Anchoring Welded Studs. After 10/12 layers of Ceramic fibre blankets finally the blankets are to be locked with Ceramic Cup locks or metal locks and the cuplock to be closed with Refractory mortar.)	1600 M2
B4	<b>FIXING OF VINEERING MODULES</b> Fixing of veneering modules of size 300 mm x 300mm x 25mm on the hard refractory surfaces inside the furnaces using veneering paste.	250 NO
B5	<b>REMOVAL OF CERAMIC FIBRE MODULE</b> Removal of damaged Ceramic fibre module insulation lining of size(Indicative)300 mm x 300 mm x 300 mm from the side wall/rear wall/roof/door of the furnaces.	100 NO
B6	<b>FIXING OF CERAMIC FIBRE MODULE</b> Positioning and Fixing of ceramic fibre module insulation of size(Indicative)300 mm x 300 mm x 300 mm on the welded studs on the side wall/rear wall/roof/door of the furnace and locking them with metal locks.Welding spot on the shell should be thoroughly cleaned for removal of rust before welding.	100 NO
B7	<b>REMOVAL&amp;DISPOSAL OF DAMAGED CUP LOCKS</b> Fixing of new ceramic cuplocks,element holding bushes, terminal bushes from the electrical furnaces like Therelek furnace Loc: 1516-2846,1516-2847 and other electrical furnaces.	175 NO

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Sl. No	SCOPE OF WORK	QTY
B8	<b>FIXING OF NEW CUP LOCKS AND BUSHES</b> Fixing of new ceramic cuplocks, element holding bushes, terminal bushes from the electrical furnaces like Therelek furnace Loc: 1516-2846, 1516-2847 and other electrical furnaces.	125 NO
B9	<b>REMOVAL &amp; DISPOSAL OF ANCHORING STUD &amp; HOLDER</b> Removal and disposal of Whistle anchoring studs, stud holder from the electrical furnaces.	175 NO
B10	<b>WELDING &amp; FIXING OF STUD HOLDER &amp; ANCHORIN</b> Welding and fixing of stud holder and whistle anchoring studs for the electrical furnaces. <b>COMMON SCOPE OF WORK (ITEM B1 TO B10) FOR ANNUAL MAINTENANCE OF REFRACTORY IN ALL GAS FIRED AND ELECTRICAL FURNACES</b> <b>SCOPE OF BHEL:</b> 1) All the raw materials like ceramic fibre blankets of different densities, ceramic fibre modules with its studs will be issued by BHEL. 2) The required Inconel/Stainless steel studs will be provided by BHEL. 3) The ceramic cup locks, refractory mortar, metal locks, element holding bushes, terminal bushes, whistle anchoring studs, stud holder, heating elements will be issued by BHEL. 4) Veneering modules and veneering paste will be provided by BHEL. 5) Welding machine with welding set, Welding consumables, cables, compressed air, power, water required for the above work will be provided by BHEL. 6) Crane for lifting assistance, Stand for the work will be provided by BHEL. <b>SCOPE OF CONTRACTOR:</b> 1) Contractor has to move the materials by their own labour from refractory stores to work site for which the required vehicle will be provided by BHEL. 2) All the hand tools and accessories required for the work has to be arranged by the contractor. 3) The contractor has to move the debris/wastages collected out of the above work and dispose them at identified disposal points as per Instructions of Supervisor/Refractory Maintenance/M&S for which the required vehicle will be provided by BHEL. 4) During attending the electrical furnaces the contractor has to make provision in the refractory for coil terminal connections. 5) The contractor has to adopt and ensure adequate safety for their employees during execution of the work. <b>NOTE:</b> 1) All the above works will be carried out in gas fired furnaces, electrical furnaces in HPBP-Unit I and II. 2) The Contractor should quote separate rates for each item. The L1 offer will be decided based on the cumulative L1 value of all the items (10 items) and order will be placed on single contractor, since these are inter-related items.	75 NO

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### 3) AMC FOR FURNACE ELECTRICAL COIL WORKS

Sl. No	SCOPE OF WORK	QTY
C1	<b>REMOVAL OF THE DAMAGED COIL BRICKS</b> Removing the damaged coil refractory bricks of sizes upto 465 mm length x upto 150 mm width x 65 mm thick in electrical furnace from Side/Bottom/Top Arch.	70 NO
C2	<b>REMOVAL OF THE DAMAGED COIL BRICKS</b> Removing the damaged coil refractory bricks of size 466 mm to 610 mm Length x upto 150 mm Width x 66mm to 110 mm Thick in electrical furnace from side/Bottom/Top Arch.	65 NO
C3	<b>POSITION AND FIXING OF NEW COIL BRICKS</b> Placing in position and fixing of new coil refractory bricks of sizes upto 465 mm Length x upto 150 mm Width x 65 mm thick in electrical furnace in Side/Bottom/Top Arch using mortar.	70 NO
C4	<b>POSITION AND FIXING OF NEW COIL BRICKS</b> Placing in position and fixing of new coil refractory bricks of size 466 mm to 610 mm Length x upto 150 mm Width x 66mm to 110 mm Thick in electrical furnace in Side/Bottom/Top Arch using mortar.	65 NO
C5	<b>REMOVAL OF DAMAGED SIDE BRICKS</b> Removing the damaged Side coil refractory bricks of size 300mm x 200 mm x 510 mm in electrical furnace	55 NO
C6	<b>REMOVAL OF DAMAGED SIDE BRICKS</b> Removing the damaged Side coil refractory bricks of size 320 mm x 112 mm x 490 mm in electrical furnace .	50 NO
C7	<b>POSITION AND FIXING OF NEW SIDE BRICKS</b> Placing in position and fixing of new Side coil refractory bricks of size 300mm x 200 mm x 510 mm using mortar in electrical furnace.	55 NO
C8	<b>POSITION AND FIXING OF NEW SIDE BRICKS</b> Placing in position and fixing of new Side coil refractory bricks of size 320 mm x 112 mm x 490 mm using mortar in electrical furnace.	50 NO
C9	<b>REMOVAL OF DAMAGED BOTTOM BRICKS</b> Removing the damaged bottom bricks with cover with bricks of size 445mm x 230mm X 115mm in electrical furnace.	65 NO
C10	<b>REMOVAL OF DAMAGED BOTTOM BRICKS</b> Removing the damaged bottom bricks with cover with bricks of size 130mm x 200mm x 120mm in electrical furnace.	85 NO
C11	<b>POSITION AND FIXING OF NEW BOTTOM BRICKS</b> Placing in position and fixing of new bottom bricks with cover of size 445 mm x 230mm x 115 mm using mortar in electrical furnace.	65 NO

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Sl. No	SCOPE OF WORK	QTY
C12	<b>POSITION AND FIXING OF NEW BOTTOM BRICKS</b> Placing in position and fixing of new bottom bricks with cover of size 130mm x 200mm x 120mm using mortar in electrical furnace.	85 NO
C13	<b>REMOVAL OF DAMAGED ARCH BRICKS</b> Removing the damaged arch bricks with bricks of size 153 mm x 110mm x 75mm in electrical furnace.	100 NO
C14	<b>REMOVAL OF DAMAGED ARCH BRICKS</b> Removing the damaged arch bricks with bricks of size 230 mm x 75 mm x 75mm in electrical furnace.	50 NO
C15	<b>POSITION AND FIXING OF NEW ARCH BRICKS</b> Placing in position and fixing of new arch bricks of size 153mm x 110mm x 75mm using mortar in electrical furnace.	100 NO
C16	<b>POSITION AND FIXING OF NEW ARCH BRICKS</b> Placing in position and fixing of new arch bricks of size 230 mm x 75 mm x 75mm using mortar in electrical furnace. <b>SPECIFIC NOTE FOR ALL ITEMS:</b> During attending the electrical furnaces, the contractor has to make provisions in the refractory for coil terminal connections. <b>COMMON NOTE FOR ALL ITEMS(ITEM C1 TO C16):</b> <b>SCOPE OF WORK FOR MAINTENANCE OF REFRACTORY BRICKS IN ELECTRICAL FURNACES:</b> 1.All the Bricks,mortar and other required raw materials for the work will be provided by BHEL from factory stores/department storage place at free of cost. Contractor has to move the materials by their own labour from storage place to site for which the vehicle will be provided by BHEL. 2.All the hand tools and accessories required for the above work has to be arranged by the contractor. 3.Welding set,Welding consumables,cables required for the above work will be supplied by BHEL at free of cost. 4.Crane will be provided by BHEL at free of cost for lifting assistance. 5.The contractor has to move the debris/wastages collected out of the above work and dispose them at identified disposal points within the BHEL Complex for which the vehicle will be provided by BHEL. <b>NOTE:</b> 1)All the above works will be carried out in electrical furnaces in HPBP-Unit I and II. 2)The Contractor should quote separate rates for each item. The L1 offer will be decided based on the cumulative L1 value of all the items(16 items) and order will be placed on single contractor,since these are inter-related items.	50 NO

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## **GENERAL TERMS AND CONDITIONS FOR M&S MECHANICAL 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's (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 BHEL Trichy premises to get acquaintance with quantum of day to day work 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) Tender should not be addressed to any Individual's name but only by designation to:

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

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- h) 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.
- i) Offers should be in ENGLISH and accompanied by detailed Point to point confirmation of the scope of work.

## **OPENING OF TENDERS:**

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

**IMPORTANT NOTE: IF THE CONTRACTOR PERFORMANCE NOT ABLE TO FULFILL AS PER ENQUIRY REQUIREMENT, THEN THE CONTRACT SHALL BE SHORT CLOSED AT ANY TIME.**

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Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

☎: (0431) 2575010 Fax: (0431) 2576805

e-mail:[umadsankar@bheltry.co.in](mailto:umadsankar@bheltry.co.in)



ISO 9001

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

- 1) 100% payment will be made after completion of entire work pro-rata basis on submission of invoice in triplicate duly certified by Area In – charge.
- 2) Attendance register should be maintained.
- 3) Payment of EMD & SD must be in e-Collect mode only, 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.
- 4) 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.
  - 5) 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/-
  - 6) Bonus @ 8.33 % to workmen to be paid.
  - 7) **Rate should be quoted as per price bid.**
  - 8) Taxes if any will be mentioned separately in the offer.
  - 9) The rate that is offered should be comprehensive and no separate charges will be made towards expenses like travel, boarding and lodging.
  - 10) The contractor should quote the validity of the offer.
  - 11) If two or more vendors offer the same rate, negotiation will be conducted separately.
  - 12) The 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.

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Sign & Seal of Contractor

## 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

## SCHEDULE FOR PRICE BID

Sub: AMC REFRACTORY MAINTENANCE FOR ALL FURNACES IN HPBP-UNIT I AND II (BRICK WORKS, INSULATION WORKS, ELECTRICAL COIL BRICKS WORKS)– Reg.

Ref: Enquiry no: 9241700024 Dated: 17/07/2017. Due date: 16/08/2017, 14.00 Hrs.

### 1)AMC FOR FUNACE BRICKS WORKS

Item No	Description	Qty	UOM	Rate	Value
A1	REMOVAL OF DAMAGED REFRACTORY BRICKS	200	M3		
A2	CONSTRN. OF REFRACTORY BRICKS	200	M3		
A3	REMOVAL OF DAMAGED REFRACTORY CASTABLE	25	M3		
A4	REMOVAL OF CERAMIC FIBRE MODULE	50	NO		
A5	WELDING OF ANCHORS	25	M3		
A6	WELDING OF SS PLATES	200	KG		
A7	REMOVAL OF DAMAGED BURNER BLOCK	65	NO		
A8	FIXING OF NEW BURNER BLOCKS	65	NO		
<b>TOTAL VALUE</b>					

(\*) Cumulative L1 (Separately for Furnace Bricks works) will be considered for above all (For item's (A1 to A8), sl.no-1).

Sign & Seal of Contractor

**2) AMC FOR FURNACE INSULATION WORK**

Item No	Description	Qty	UOM	Rate	Value
B1	REMOVAL OF CERAMIC FIBRE BLANKETS	1600	M2		
B2	REMOVAL AND STUD FIXING	3400	NO		
B3	FIXING OF CERAMIC FIBRE BLANKETS	1600	M2		
B4	POSITION AND FIXING OF NEW COIL BRICKS	250	NO		
B5	REMOVAL OF CERAMIC FIBRE MODULE	100	NO		
B6	FIXING OF CERAMIC FIBRE MODULE	100	NO		
B7	REMOVAL&DISPOSAL OF DAMAGED CUP LOCKS	175	NO		
B8	FIXING OF NEW CUP LOCKS AND BUSHES	125	NO		
B9	REMOVAL & DISPOSAL OF ANCHORING STUD & HOLDER	175	NO		
B10	WELDING & FIXING OF STUD HOLDER & ANCHORIN	75	NO		
<b>TOTAL VALUE</b>					

**(\*) Cumulative L1 (Separately for Furnace Insulation works) will be considered for above all (For item's (B1 to B10), sl.no-2).**

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### 3) AMC FOR FURNACE ELECTRICAL COIL WORKS

Item No	Description	Qty	UOM	Rate	Value
C1	REMOVAL OF THE DAMAGED COIL BRICKS	70	NO		
C2	REMOVAL OF THE DAMAGED COIL BRICKS	65	NO		
C3	POSITION AND FIXING OF NEW COIL BRICKS	70	NO		
C4	POSITION AND FIXING OF NEW COIL BRICKS	65	NO		
C5	REMOVAL OF DAMAGED SIDE BRICKS	55	NO		
C6	REMOVAL OF DAMAGED SIDE BRICKS	50	NO		
C7	POSITION AND FIXING OF NEW SIDE BRICKS	55	NO		
C8	POSITION AND FIXING OF NEW SIDE BRICKS	50	NO		
C9	REMOVAL OF DAMAGED BOTTOM BRICKS	65	NO		
C10	REMOVAL OF DAMAGED BOTTOM BRICKS	85	NO		
C11	POSITION AND FIXING OF NEW BOTTOM BRICKS	65	NO		
C12	REMOVAL OF DAMAGED ARCH BRICKS	85	NO		
C13	REMOVAL OF DAMAGED ARCH BRICKS	100	NO		
C14	REMOVAL OF DAMAGED ARCH BRICKS	50	NO		
C15	POSITION AND FIXING OF NEW ARCH BRICKS	100	NO		
C16	POSITION AND FIXING OF NEW ARCH BRICKS	50	NO		
<b>TOTAL VALUE</b>					

**(\*) Cumulative L1 (Separately for Furnace Electrical coil works) will be considered for above all (For item's (C1 to C16), sl.no-3).**

❖ **Taxes if any should be quoted extra**

- 1)** Payment terms: Payment will be made after completion of work on pro rata basis on submission of invoice in triplicate duly certified by Engineer 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.

Sign & Seal of Contractor