

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

☎: (0431) 2575263 Fax: (0431) 2576805 e-mail: [gtraj@bheltry.co.in](mailto:gtraj@bheltry.co.in)



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## NOTICE INVITING TENDER

### **Sub: REPAIRING AND SERVICING OF 1000 KVA TRANSFORMER – Reg.**

Ref: Enquiry no: 9251600046/ Dated: 08/11/2016. Due date: 30/11/2016, 14.00 Hrs.

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 ₹ 10,715/-** remitted in cash (as permissible under Income Tax Act)/Electronic Fund Transfer credited in BHEL account before tender opening or Banker's cheque/Pay order/Demand Draft in favour of M/S BHEL Trichy. 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 ₹ 10,715/-** shall reach the office of the undersigned on or before **30/11/2016, 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.

Sign & Seal of Contractor

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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,  
Sr. Manager/Contracts  
Maintenance & Services Dept

Encl:

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

Tender should be addressed to: **THE SENIOR MANAGER,  
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**

<b>01.</b>	Name of work	<b>REPAIRING AND SERVICING OF 1000 KVA TRANSFORMER – Reg.</b>
<b>02.</b>	Earnest Money Deposit	<b>₹ 10,715/-</b>
<b>03.</b>	Duration of the contract	<b>15 days</b> (From the date of commencement of the work)
<b>04.</b>	Last Date for Receipt of Tender	14.00 Hrs on 30/11/2016
<b>05.</b>	Date of Technical Bid Opening	14.30 Hrs on 30/11/2016
<b>05.</b>	Date of Price Bid Opening	Will be intimated to those who are Qualified separately.
<b>07.</b>	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 **13** Pages (Technical Bid – **12** Pages, Schedule for price bid – **01** page).

ISSUING OFFICER

Sign & Seal of Contractor

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## TECHNICAL BID

**NAME OF THE WORK: REPAIRING AND SERVICING OF 1000 KVA TRANSFORMER – Reg.**

Enquiry no: **ENQUIRY No.9251600046 / Dt: 08/11/2016 DUE On : 08/11/2016 14.00 hrs**

### PRE-QUALIFICATION CRITERIA

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

The BIDDER / VENDOR has to compulsorily meet all the following requirements to get qualified for consideration of the AMC of the battery operated trolleys in HPBP-Trichy. If the vendor does not qualify as per PRE- QUALIFICATION CRITERIA, the technical offer of such BIDDER(s) / VENDOR(s) offer will not be evaluated.

Sl. No	Description	Vendor to confirm
1	Only those vendors who have done the rewinding of Transformer of capacity 1000 kva or higher rating in the past 3 three years as on date of opening the tender shall quote.	
2	The vendor should submit the performance certificate from minimum one of the customer for whom rewinding work was done in the customer letter head regarding the satisfactory performance of the transformer.	
3	PAN Number (Copy to be Enclosed)	
4	Service tax Registration Number (If applicable) – Certificate copy to be enclosed	
5	Acceptance for Scope of Work as per the Enquiry	
6	Acceptance for All Terms & Conditions as per the Enquiry	

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## SCOPE OF WORK:

### REPAIRING AND SERVICING OF 1000 KVA TRANSFORMER – Reg.

Sl. No	SCOPE OF WORK	UOM	QTY
10	Name plate details of the transformer: Make : Thana elec.tr.divn. Capacity : 1000kva. Voltage at no load : 11 kv/ 415 v Amps : HV-52.5A , LV-1391A Phase : HV-3 Phase, LV-3 Phase. Type of cooling : ONAN Frequency : 50 Hz. Impedance voltage : 5.23 % Vector symbol : Dy11 Oil litres : 910 ltrs Oil wt : 775 kg Core & wdg : 1790kg Total wt : 3620 kg Year of mfg : 1982 Makers sl.no : K51S	AU	1
	1. SCOPE OF WORK :  Repairing and servicing of 1000 KVA Transformer by carrying out the following works: 1.1.Removing the existing damaged windings, mica insulation in between the coils etc.  1.2.Checking the condition of transformer core laminations and removing the damaged/ burnt out core laminations and repairing the core and other internals. Re-insulating the transformer cores with fresh and quality F-Class insulation materials.  1.3.Replacing of faulty part of primary and secondary windings with new copper wires / flats, new mica insulations, equivalent to old coil design including providing tapping at primary side and secondary side.		

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	<p>1.4.Heat treating the coil assy in the oven/lamp heating assy.</p> <p>1.5.Assembling of the transformer with suitable end terminations. The insulation resistance values should be more than 100 Mega Ohms between primary to secondary and primary / secondary to core / body.</p> <p>1.6.The primary and secondary side should be properly located /placed.</p>		
	<p>2.TERMS AND CONDITIONS:</p> <p>2.1.The copper conductor / flats used for winding should be pure electrolytic copper type.</p> <p>2.2.The removed damaged copper coils, terminals, bus bars, damaged hylem sheets &amp; mica insulations should be retained by contractor.</p> <p>2.3.After completion and before despatch, the transformer should be tested at the contractor's works for insulation resistance, high voltage test for 1 minute in presence of BHEL representative.</p> <p>2.4.Loading, unloading &amp; transporting of transformer/ components from BHEL Repair Shop / sub station to contractor's works and back to BHEL Repair Shop / sub station from works will be at contractor's scope. Any handling facility required at BHEL will be provided at free of cost.</p>		

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	<p>2.5.The transformer will be handed over to contractor with the old transformer oil. After repair and service of transformer the drained transformer oil should be filled with perfect oil filtering by circulating through transformer oil filtering machine. The oil test to be conducted in presence of BHEL representative and minimum break down voltage of transformer oil should be 36 KV / 2 mm. Transformer oil to be topped by contractor to maintain adequate level of conservator oil level without additional cost.</p>		
	<p>3.TESTING :</p> <p>3.1.Before start of winding and completion of winding contractor should inform BHEL for stage inspection. After getting the clearance from BHEL representative, further work should be proceed.</p> <p>3.2.After completion of the work, transformers should be tested at suppliers works in the presence of BHEL representatives.</p> <p>3.3.As soon as the rewinding work has been completed and the testing is satisfactory at contractor's works, the contractor should bring the transformer to BHEL works and prove out the performance.</p> <p>4.OTHER TERMS AND GUARANTEE CONDITIONS :</p> <p>4.1.Contractor shall collect the transformers on short notice and should deliver the transformer within the stipulated period which will be indicated by BHEL at the time of collection. The exact delivery date will be indicated in the contract. The contractor should deliver within fifteen days from award of contract and strictly adhere to the delivery schedule.</p> <p>4.2.The contractor should return the rewound transformer with BHEL gate pass only and not by any other mode.</p>		

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	<p>4.3. Contractor should submit Guarantee certificate for the performance of the transformer, for a minimum period of six months from the date of delivery at our works against Quality of materials / workmanship. If the Components fail within the guarantee period, the contractor should carry out the re-work at free of cost, including transportation immediately upon receiving information from BHEL, and also ensure satisfactory performance for a minimum period of six months after rework.</p> <p>4.4. The contractor should submit invoice (in triplicate) along with Test certificate.</p>		
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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) 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 Tamilnadu:
  - Unskilled - Rs.3200/-
  - Semiskilled - Rs.3700/-
  - Skilled - Rs.4100/-
- 3) Bonus @ 8.33 % to workmen to be paid.
- 4) 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.
- 5) PPES for appropriate trade job has to be ensured by the contractor at the job site at all times.
- 6) Attendance register should be maintained.
- 7) Period of Contract is **One Year** from the date of commencement of work.
- 8) EMD /SD shall also be paid to BHEL through e-collect feature offered by SBI.
- 9) EMD is to be submitted and is to be remitted in cash (as permissible under Income Tax Act)/Electronic Fund Transfer credited in BHEL account before tender opening or Banker's cheque/Pay order/Demand Draft in favour of M/S BHEL Trichy along with offer. Offers without EMD shall be liable for rejection.
- 10) 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.
- 11) Rate should be quoted as per price bid**
- 12) Taxes if any will be mentioned separately in the offer.
- 13) The rate that is offered should be comprehensive and no separate charges will be made towards expenses like travel, boarding and lodging.
- 14) The contractor should quote the validity of the offer.
- 15) Payment terms : 100% payment will be made after completion of entire work on submission of invoice in triplicate duly certified by Area In – charge.**
- 16) The contractors may visit the area to assess the quantum of work before quoting.
- 17) If two or more vendors offer the same rate, negotiation will be conducted separately.
- 18) The contractor should mention the point to point confirmation.
- 19) Contractor should commit for Terms and Conditions of the enquiry otherwise the offer shall be liable for rejection.
- 20) **TWO PART BID SYSTEM:** Contractor should send their offer for two part bid system as below
- 21) Documents submitted with the offer shall be signed and stamped in each page by authorized representative of the bidder.

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

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

## SERVICE TAX:

- 1) A copy of Service tax remittance challan for previous quarter should be submitted along with offer if the contractor is claiming service tax.
- 2) If Contractor is exempted from service tax then a declaration that they are within the threshold limit should be submitted along with the offer.

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## **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.**

**Individual L1 or Cumulative L1 will be considered for ordering**

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

## **BHEL fraud prevention policy**

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 <http://www.bhel.com> 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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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: **REPAIRING AND SERVICING OF 1000 KVA TRANSFORMER – Reg.**

Ref: Enquiry no: 9251600046 Dated 08/11/2016. Due date: 08/11/2016, 14.00 Hrs.

### **NAME OF WORK: REPAIRING AND SERVICING OF 1000 KVA TRANSFORMER**

Sl. No	Description	UOM	QTY	Rate	Value
10	Name plate details of the transformer: Make : Thana elec.tr.divn. Capacity : 1000kva. Voltage at no load : 11 kv/ 415 v Amps : HV-52.5A , LV-1391A Phase : HV-3 Phase, LV-3 Phase. Type of cooling : ONAN Frequency : 50 Hz. Impedance voltage : 5.23 % Vector symbol : Dy11 Oil litres : 910 ltrs Oil wt : 775 kg Core & wdg : 1790kg Total wt : 3620 kg Year of mfg : 1982 Makers sl.no : K51S	AU	1		
	Repairing and servicing of 1000 KVA Transformer. All other texts are as in the scope of work.				

❖ **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 the 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