

**BHARAT HEAVY ELECTRICALS LIMITED  
TRANSMISSION BUSINESS GROUP  
SUBCONTRACTS MANAGEMENT  
LODHI ROAD, NEW DELHI -110003**



**TENDER DOCUMENTS**

**FOR**

**RECEIPT OF EQUIPMENT/ MATERIAL AT SITE, UNLOADING, INSPECTION,  
VERIFICATION, STORAGE, UP-KEEPING DURING STORAGE, ERECTION,  
TESTING, COMMISSIONING AND HANDING OVER OF FIXED COMPENSATION  
SCHEMES IN 400 kV WARDHA-RAIPUR (D/C) LINES AT WARDHA IN  
MAHARASHTRA**

**CUSTOMER**

**POWER GRID CORPORATION OF INDIA LIMITED**

**TENDER SPEC. NO.: TBSM/WARDHA-FSC/ETC/TENDER**

**DATED: 03.08.10**

**TRANSMISSION BUSINESS GROUP**  
**SUBCONTRACTS MANAGEMENT**

**INDEX**

<b><u>Sl. No.</u></b>	<b><u>Description</u></b>	<b><u>No. of Pages</u></b>
1.	Notice Inviting Tender	07
2.	Procedure for submission of sealed Tenders	02
3.	Project Information	01
4.	Health, Safety & Environment specification	06
5.	Condition of Contract for Erection works	106
6.	Annexure to conditions of contract for ETC Works	04
7.	Qualifying requirements for tools & plants	01
8.	Bill of Quantities	
	8.1. BOQ for Main Equipments	05
	8.2. Mandatory Spares (Annexure I)	01
9.	Procedure for Welding of Aluminium Buses	04
10.	Fire Protection System Standardisation	14
11.	Specifications for Cable glands	01
12.	Electronic Earthing Details	01
13.	Technical Drawings	21
14.	No Deviation Certificate	01



**BHARAT HEAVY ELECTRICALS LIMITED**  
**TRANSMISSION BUSINESS GROUP**  
**LODHI ROAD NEW DELHI 110003**

TELEPHONE: -011-41793314, FAX: 011-24369509, e-mail:-premprakash@bhelindustry.com

**NOTICE INVITING TENDER**

REF.:TBSM/WARDHA-FSC/ETC/TENDER

DATE: 03.08.10

**SUB: RECEIPT OF EQUIPMENT/ MATERIAL AT SITE, UNLOADING, INSPECTION, VERIFICATION, STORAGE, UP-KEEPING DURING STORAGE, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF FIXED COMPENSATION SCHEMES IN 400 kV WARDHA-RAIPUR (D/C) LINES AT WARDHA IN MAHARASHTRA**

Dear Sirs,

1. Sealed tenders are invited for the following:

NAME OF WORK	TIME OF COMPLETION	EARNEST MONEY DEPOSIT (Rs.)	TENDER SUBMISSION DATE AND TIME	TENDER OPENING DATE & TIME
Receipt of equipment/ material at site, unloading, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of Fixed Compensation Schemes in 400 kV Wardha-Raipur (D/C) Lines at Wardha in Maharashtra	7 months from date of issue of LOI.	Rs. 1,50,000/- (In form of DD or Pay Order)	31.08.10 15.00 hrs.	31.08.10 15.30 hrs. (Technical bid only) and Price bid opening date will be intimated later to Techno commercially acceptable parties

2. ADDRESS FOR SUBMISSION AND OPENING OF TENDER:

**BHARAT HEAVY ELECTRICALS LIMITED,  
TRANSMISSION BUSINESS GROUP,  
LODHI ROAD , NEW DELHI -110003  
ATTN : Prem Prakash, AGM (TBSM)  
Phone : 011-41793314, Fax : 011-24369509  
e-mail: [premprakash@bhelindustry.com](mailto:premprakash@bhelindustry.com)**

3. The prospective bidders who have downloaded the tender documents from our website are requested to send their acknowledgement and willingness to participate in the tender to the undersigned, through fax or email.
4. Offers should be strictly in accordance with the Tender Specifications and General Instructions to Tenderer enclosed herewith.
5. **BHEL reserves the right to go for a Reverse Auction instead of Opening the submitted sealed bid, which will be decided after technical evaluation.** As such, the bidders should submit their best prices in the 'Sealed Price Bid'. However, bidders are required to confirm their acceptance of "General terms and conditions" governing RA specifically in their technical bid. The "General terms and conditions" governing RA are given below in the NIT. Bidders are also required to furnish following details in their techno-commercial bid, for this purpose (RA).

Authorization of representative who will participate in the on line Reverse auction Process;

- a. Name and Designation of official
  - b. Postal Address (Complete)
  - c. Telephone Nos. (Land line & Mobile both)
  - d. FAX No.
  - e. E-mail address
  - f. Name of Place/ State/ Country, wherefrom he will participate in the RA.
6. The contractor shall give his explicit confirmation without any deviations to the HSE (Health, Safety and Environment) requirements as per enclosed specification No. TBSM-HSE-SPES,Rev-00 Dtd. 28.10.2003. Contractors are also required to furnish details as per Annexure (HSE) to NIT along with their offer. Offers received without compliance & data about HSE requirements are liable to be rejected.
  7. Clarifications, if any, can be obtained from the undersigned but such requests should be submitted well before the due date for submission of tenders. Due date for submission and opening of tenders will not be extended on such grounds.
  8. Certain clauses of the "Conditions of contract for ETC works" have been modified in "Annexure to conditions of contract for ETC works" enclosed with the NIT. Wherever there is a deviation the clauses mentioned in the "Annexure to conditions of contract for ETC works" shall supersede the clause specified in "Conditions of Contract for ETC works".
  9. Technical Bid will be opened in the office of undersigned. If required, technical discussions will be held with only those bidders who have taken any deviations. Bidders representative may be present during technical bid opening for technical discussion, if required. The price bids will be opened subsequently, after Technical Bids of all the Tenderers have been evaluated and freezed. Bidders should quote their most competitive rates as there will not be any price negotiation. However if felt necessary by BHEL, price negotiation will be held with lowest bidder (L-1) only. IT WOULD BE PREFERRED THAT YOUR OFFER IS WITHOUT ANY DEVIATION w.r.t. TENDER SPECIFICATIONS AND THE SAME MAY BE CLEARLY MENTIONED ON THE COVERING LETTER ACCOMPANYING THE TECHNICAL BID. Offers with deviations are likely to be rejected. However if the bidder insists on any technical or commercial deviations, from the specification and/or tender conditions, the price implication if any, of withdrawing the deviations must be submitted along with the price bid in a separate sealed envelope superscribed "Price Implication for withdrawal of deviations".
  10. Offers will be scrutinized based on the qualifying requirements and only those who are technically and financially capable to execute the Job and who fulfil the Qualifying Requirements [QR] are eligible to quote against the above NIT. However, final acceptance of the bidder/ offer shall be subject to acceptance of our customer.
  11. The purchase preference for central P.S.U.s shall be given as per the prevailing Government policy.
  12. The Bidders are advised to visit Site to have better understanding of job.

13. Work schedule and the deployment of manpower and T&P resources committed by the contractor in their offer, to match the scheduled completion, shall be submitted by contractor and mutually agreed with site In-charge immediately after the award of work. Further, the contractor shall mobilise at site within two weeks of award of work.
14. In case an offer is not being submitted by the prospective bidders against this tender, they may send their "regret" letter to this office, for information.

Thanking you,

Yours faithfully,  
For and on behalf of BHEL,

**(Prem Prakash)**  
**AGM (TBSM)**

**TO BE FILLED BY TENDERER**

Certified that General Instructions and Information for tenderer have been read/ complied/ agreed to and each page of tender offer has been initialled and stamped.

(Signature of Tenderer)

Name and Designation of Authorised person (s)  
signing the tender on behalf of the tenderer.

## **GENERAL TERMS AND CONDITIONS OF REVERSE AUCTION (RA)**

Against this enquiry for the subject item / work with detailed scope as per our tender specification, BHEL – TBG, New Delhi may resort to “REVERSE AUCTION PROCEDURE” i.e. **ONLINE BIDDING on INTERNET.**

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on Internet.
3. In case BHEL decides to conduct reverse auction, BHEL's service provider shall contact the vendor directly and impart them the training.
4. Business rules like event date, time, start price, bid decrement, extensions, etc. also will be communicated through service provider for compliance.
5. Vendors have to fax the compliance form in the prescribed (provided by service provider) before start of Reverse auction. Without this the vendor will not be eligible to participate in the event.
6. **Total Price quoted shall be inclusive of all taxes except service tax in line with the NIT conditions for the subject work in Indian Rupees (INR), which is to be worked out as per the BOQ (Rate Schedule) given in tender enquiry and subsequent changes made, if any. EXCEL Sheet shall be provided, if applicable.**
7. Reverse auction will be conducted on schedule date & time.
8. At the end of reverse auction event, the lowest bidder value will be known on the network.
9. The Lowest bidder has to fax the duly signed filled-in prescribed format as provided on case-to-case basis to BHEL through service provider within 24 hours of auction without fail.
10. Any variation between the on-line bid value and signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.
11. In case BHEL decides not to go for Reverse auction procedure for this tender enquiry, the price bids and price impacts, if any already submitted and available with BHEL shall be opened as per BHEL standard practice.

**Authorization of representative who will participate in the on line  
Reverse Auction Process:**

1	NAME & DESIGNATION OF OFFICIAL	
2	POSTAL ADDRESS (COMPLETE)	
3	TELEPHONE NOS. (LAND LINE & MOBILE BOTH)	
4	FAX NO.	
5	E-MAIL ADDRESS	
6	NAME OF PLACE / STATE / COUNTRY, WHEREFROM S/HE WILL PARTICIPATE IN THE REVERSE AUCTION	