



# BHARAT HEAVY ELECTRICALS LIMITED

( A Government of India Undertaking )  
HIGH PRESSURE BOILER PLANT  
PURCHASE DEPARTMENT - FOSSIL BOILERS  
THIRUCHIRAPALLI - 620014  
TAMILNADU (INDIA)

PHONE :2577645  
GRAMS : BHARATELEC  
FAX NO: 2520719  
E-mail: srchandran@bheltry.co.in  
Web:

429-002/A

Vendor Code : 23505	<b>Enquiry No</b>	<b>Enquiry Date</b>	<b>Due Date for Quotation</b>
Vendor Name : Open Tender Dummy Code Australia	2681400042	16.12.2014	22.01.2015
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order. <u>Bid should be submitted in Two Parts. 1. Techno-commercial Bid (Part-I) and 2. Price Bid (Part-II) in a separate sealed cover and both the covers must be placed in a Third Cover and Sealed. Our Enquiry No., Enq. date &amp; Enq. Due date must be written on all Three covers.</u>			

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	Retrofitting of WD 160 Horizontal Boring machine by replacing the existing DC motors & DC drive, Electrical control panel and complete re-wiring of the machine as per the Qualifying Criteria in Part-A and Scope of Supply/Work in Part-B.	NO	1.000	1.00	16.03.15

### General Note:


1. Please submit your detailed offer in three part bid system i.e Part-1. EMD amount of Rs.1,00, 000 in one separate sealed cover. Part-II. Technical bid+ Unpriced bid indicating taxes & duties (Annexure-B) + Checklist (Annexure-B) in a sealed cover Part-III. Priced offer in another separate sealed cover.

All the three covers shall be duly super-scribed with tender reference and due date of opening. These covers shall be put in a single cover duly super-scribed with tender reference and due date of opening and addressed to us.

2. Point-to-point confirmation to BHEL's specification and commercial terms & conditions shall be provided Annexure-A. All the Annexures should be filled and submitted along with the technical bid (no row shall be left blank), else your offer is liable for rejection.
3. Offers with validity of less than 180 days and non-acceptance of LD , RP clause, PBG, EMD & Payment terms, will lead to liable for rejection of submitted offer.
4. If the due date of tender opening happens to be a holiday, the tenders will be opened on the next working day.
5. All clarifications may be sought at least ten days prior to tender due date, from the undersigned with due written request.
6. BHEL reserves the right to go for a reverse auction (RA) instead of opening the submitted sealed bid, which will be decided after technical evaluation. Information and general terms and conditions covering RA are

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening.Late and delayed offers are liable to be rejected.

Yours faithfully,  
For **BHARAT HEAVY ELECTRICALS LIMITED**

  
MANAGER / PURCHASE  
(FOSSIL BOILERS)  
Yours faithfully,

**BHEL, TRICHY 620 014.**



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( A Government of India Undertaking )  
HIGH PRESSURE BOILER PLANT  
PURCHASE DEPARTMENT - FOSSIL BOILERS  
THIRUCHIRAPALLI - 620014  
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Page  
2/2

2681400042 / 16.12.2014

23505

given in commercial terms and conditions (Annexure-A/Point no.18)

7. Corrigendum if any, with respect to this tender will be hosted only in the website <http://www.bhel.com> or <http://tenders.gov.in>. You are requested to visit the website regularly for updates.

8. BHEL will consider MSME vendor as per Government guidelines.

9. Vendors are requested to avoid the following points while submitting the Bid Documents:

- Loose or spiral bound bid documents are not encouraged.
- In case of any corrections/overwriting in the tender documents, the same shall be duly attested by the bid submitter.

10. Vendors representative having proper ID proof and authorization letter shall attend the tender opening.

#### Special Provisions for Micro and Small Enterprises (MSE)

MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II (Entrepreneur Memorandum Part 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 as per Annexure - IV applicable for the relevant financial year (latest audited), certifying quantum of investment in plant and machinery within the permissible limit as per the act for relevant status (Micro or small) where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Offer/s received without these documents will lead to consideration of their offer at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier.

#### List of Attachments:

- Qualifying Criteria \_ Part-A
- Technical specifications \_Part-B
- Commercial Terms and Conditions \_ Annexure-A
- Price Bid format Annexure-B

#### Enclosures:

"LD clause has to be confirmed without fail."

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,  
For **BHARAT HEAVY ELECTRICALS LIMITED**

MANAGER / PURCHASE  
(FOSSIL BOILERS)  
Yours faithfully,  
Purchase / MFG  
BHEL, TRICHT - 620 014

<b>PART-A QUALIFYING CRITERIA</b>		
<b>Sl.No.</b>	<b>BHEL Specifications</b>	<b>Vendor's reply</b>
1	Only those vendors who are successfully carried out retrofitting of HBM/VBM machines (interms of Spindle capacity, no. of axes, nature of retrofitting) in the last five years will be considered. Vendor has to submit the List of customers with their contact name, contact numbers & e-mail id. Also, copy of at least one P.O., as a proof for showing the same to be submitted along with the offer.	Vendor to confirm & provide the details
2	Vendor has to submit copy of 'Performance certificate' from atleast any one of his customers as a proof for satisfactory performance of the retrofitted machine. The subject machine shall be retrofitted in the last five years and should be working satisfactorily for more than 1 year from the date of retrofitting.	Vendor to confirm & provide the details

PART - B SCOPE OF SUPPLY/WORK			
Retrofitting of WD 160 Horizontal Boring machine by replacing the existing DC motors and Electrical control panel and complete re-wiring of the machine.			
Sl.No.	Description		Vendor's reply
A	Technical details of the existing machine:		
	Machine Supplier: TECHNO / CSSR Machine Type: WD 160 Spindle dia : 160mm Job Table size: 1600 x 3150mm Spindle speed: 2 - 800 RPM Feed rate - 1.6 -1600 mm/min Spindle Power: 80 kW	Vendor to note	
1	Specifications of the existing D.C. Motors:		
	<p>1) X - axis D.C.Motor: Make: Advani Orlicon Ltd., KW/HP:6/8,Rpm:3420,mounting: B5/V1, Armature - volt:440, current:16.2A Field - volt:200, current:0.48A Duty:S1, Ins F,Encl:IP 21,Ven-IC 06,Frame:FOR 132L, No:B6/132L/160,Type:separetly exited. Tacho Generator: 20mA /200V @ 4000 RPM</p> <p>2) Y - axis D.C. Motor: Same as X - axis motor given above.</p> <p>3) Z - axis motor (For Ram In/ Out, Spindle In/Out): There is no separate motor. The Y - axis motor is used for this purpose and the required operation is achieved through clutch mechanism.</p> <p>4) Spindle D.C. Motor: INTEGRATED ELECTRIC CO PVT.LTD.BANGALORE Frame:ILFC 160K M/c no:90129-01, KW:37,RPM:2570, Armature - Voltage:400, Current:109A, Field - V:200, Current: 4.9A Winding:SHUNT,Ins:F, ENCL: IP 23, Brgs-DE:6311,NDE:6309</p>	Vendor to note	

<b>PART - B SCOPE OF SUPPLY/WORK</b>			
<b>Retrofitting of WD 160 Horizontal Boring machine by replacing the existing DC motors and Electrical control panel and complete re-wiring of the machine.</b>			
<b>Sl.No.</b>	<b>Description</b>		<b>Vendor's reply</b>
2	Specifications of the existing Induction motors:		
	1) Lubrication Motor - Z axis: Rating: 180W, 3 phase, 50 Hz Connection / Voltage - Star/Delta, 380/220V Speed: 1380 RPM Current: 0.89/1.1A 2) Lubrication Motor - X axis: The motor is not available. Supplier to study the machine give a 'CENLUB' system. 3) Operator pendant Up / down movement: Vendor to study and to give suitable induction motor 4) Operator pendant side movement: Vendor to study and to give suitable induction motor	Vendor to note	
3	Field devices:		
	1) Pnematic Valves: Make: SKODA Model: NA Rating: 48V No. of valves used in the machine: 11	Vendor to note	
<b>B</b>	<b>Scope of Supply:</b>		
1	Suitable New A.C. Servo motors for X & Y (Z) axes. The motors shall have built-in incremental encoder. The make of the servo motor shall be SIEMENS/ FANUC/ ABB/ INDRAMAT/ FAGOR	Vendor to confirm & to provide the make and model no. of the motors for each axes	
2	Suitable new A.C. Servo Spindle motor for Spindle. The motor shall have built-in incremental encoder. The make of the servo Spindle motor shall be SIEMENS/ FANUC/ ABB/ INDRAMAT/ FAGOR	Vendor to confirm & to provide the make and model no. of the motor	
3	Digital AC Servo Drives suitable for the above AC servo motors, including necessary cables and accessories. The make of the servo drives shall be SIEMENS/ FANUC / ABB / INDRAMAT/ FAGOR	Vendor to confirm & to provide the make and model no. of the drives	
4	Digital AC Servo Spindle Drive suitable for the above AC Spindle motor, including necessary cables and accessories. The make of the servo drives shall be SIEMENS/ FANUC / ABB / INDRAMAT/ FAGOR	Vendor to confirm & to provide the make and model no. of the drive	
5	A Suitable DRO for showing the position of the axes (X,Y & Z) to be supplied and fixed in the Operator pendant. The make of the DRO shall be IDENHEIN/ FAGOR/ GIVI MISURE/ Electronica	Vendor to confirm and to give make & model	

**PART - B SCOPE OF SUPPLY/WORK**

**Retrofitting of WD 160 Horizontal Boring machine by replacing the existing DC motors and Electrical control panel and complete re-wiring of the machine.**

Sl.No.	Description		Vendor's reply
6	External Measuring system for axes: X - axis: Linear scale Y - axis: Linear scale Z - axis: Linear scale The Linear scales shall have a minimum Accuracy of 10μ/m and Resolution of 5μ. The make of the Linear scales shall be HEIDENHEIN/ FAGOR/ GIVIMISURE/Electronica. The connecting cables & accessories required for the scales also to be supplied.	Vendor to confirm and to give make & model	
7	Suitable Induction motors for the existing induction motors used for Operator pendant Up/down & side movements. The make of the Induction motors shall be ABB/ SIEMENS/ Alstom/ Baldor/ Crompton Greves/KIRLOSKAR	Vendor to confirm & to give make	
8	A latest PLC system of anyone of the following make: SIEMENS/ ABB/MITSUBHISHI/ ALLEN-BRADELY. Vendor to submit the make & model.	Vendor to confirm & provide details of make, model	
9	CENLUB system for X , Y & Z axes. Also the pipe line required for taking the lubrication to different parts of the machine is to be supplied by the Vendor.	Vendor to confirm & provide details of make, model	
10	New Pneumatic valves for replacing the existing pneumatic valves used in the machine. The Pneumatic valves shall be of make FESTO/ SMC & shall have coil voltage as 24V AC/DC. All the existing pneumatic lines should be replaced.	Vendor to confirm & provide details of make, model	
11	Air dryer & booster unit to supply the air required for the operation of the Pneumatic valves used in the machine. The make shall be KAESER/ Equivalent.	Vendor to confirm & provide details of make, model	
12	Fully wired, Stand-alone, Floor mounting type Control Panel of Rittal make with minimum IP54 degree of protection and with suitable lifting hooks to be provided. The Control Panel shall conveniently house new PLC system, Axes & Spindle Drive systems with all necessary accessories & switchgear like MCBs/Relays/Contactors/Transformers/Power Supply Units/Mainswitch/terminal blocks etc, 5/15A Service sockets for 220VAC	Vedor to confirm	
13	Air-Conditioner of Rittal/Advance/WernerFinley make with sufficient capacity for the control panel.	Vendor to confirm & to provide make & model.	

<b>PART - B SCOPE OF SUPPLY/WORK</b>			
<b>Retrofitting of WD 160 Horizontal Boring machine by replacing the existing DC motors and Electrical control panel and complete re-wiring of the machine.</b>			
<b>Sl.No.</b>	<b>Description</b>		<b>Vendor's reply</b>
14	Switchgears/ relays/ contactors and other items required for safe and reliable operation of the machine is to be supplied and installed in the panel.		
15	Power & control cables for interconnection of drives, servo motors, induction motors, and various field devices. The cables shall be of multistrand, flexible copper cable and the make of the cable shall be LAPP. Also the glands & lugs required for terminating the cables to be supplied.	Vedor to confirm	
16	Cable trays, metallic / plastic hoses, pipes and couduits required for routing the power, control & feedback cables to be supplied.	Vedor to confirm	
17	Metal cable drag chain for replacing the existing cable drag chain in X axis. The make shall be 'Kabelschlepp/ekd' or equivalent and shall be of closed type. Also, the covers shall be of Aluminium and removable type from each link.	Vendor to confirm & to provide make & model.	
18	Fully wired, Swivellable, Hanging Pendant Box with minimum IP54 degree of protection, with side handles and with proper cooling arrangement to be supplied. Also modifications required if any, for fixing the new pendant on the machine is to be supplied and done by the vendor.  The Operator pendant shall have Complete manual controls of the machine with required Selector Switches / Pushbuttons / Indication lamps etc, suitable digital display unit for showing the position of axes. The vendor shall study the existing features available in the operator pendant and shall provide the same features in the new operator pendant with the necessary components.	Vendor to confirm	
19	Only 3 phase 415V A.C. supply (without neutral) will be supplied by BHEL near the machine and the power cable from this supply point to the incomer of the caontrol panel will be supplied, laid & terminated by BHEL. All other cables and trays/ hose required for various loads are to be supplied and laid by the vendor.	Vendor to confirm	
20	Limit switches used in the machine are to be replaced with new limit switches.	Vendor to confirm	

<b>PART - B SCOPE OF SUPPLY/WORK</b>			
<b>Retrofitting of WD 160 Horizontal Boring machine by replacing the existing DC motors and Electrical control panel and complete re-wiring of the machine.</b>			
<b>Sl.No.</b>	<b>Description</b>		<b>Vendor's reply</b>
21	A suitable capacity servo controlled voltage stabilizer with Isolation transformer to be provided for the machine loads. The make of the Servo stabilizer & Isolation transformer shall be NEEL / SERVO MAX.	Vendor to confirm & to provide make	
22	The following Spares are to be supplied: 1) Pneumatic valves - 3 Nos. 2) Servo drive - 1 No. in each type (i.e., X axis & Y axis) 3) Spindle drive - 1 No. 4) Limit switches - 1 No. in each type. 5) Scanner Head - 1 No. in each type.	Vendor to confirm	
23	After commissioning, training to be given to BHEL maintenance & operator people on machine operation, maintenance & troubleshooting at BHEL - Trichy.	Vendor to confirm	
24	Also, training is to be arranged by supplier at PLC Supplier's work & drive manufacturer's work in India on PLC's & Drive's programming, operation & maintenance for a minimum period of not less than two days each for 2 BHEL maintenance personal. The travelling, boarding & lodging charges for the BHEL persons will be borne by BHEL.	Vendor to confirm and give the address of the institute where training will be arranged.	
25	Three hard copies of the following manuals to be supplied: 1) Electrical circuit diagrams with complete Bill Of Material 2) PLC & Drive's Programming Manual 3) PLC & Drive's Commissioning manual 4) O&M Manual for the machine 5) Technical catalogue for all the bought out items 6) Ladder/Statement logic of PLC.  One soft copy of the following manuals to be given in CD: 1) Electrical circuit diagrams with complete Bill Of Material 2) PLC & Drive's Programming Manual 3) PLC & Drive's Commissioning manual 4) O&M Manual for the machine 5) Technical catalogue for all the bought out items 6) PLC & Drive backup.	Vendor to confirm	

<b>PART - B SCOPE OF SUPPLY/WORK</b>			
<b>Retrofitting of WD 160 Horizontal Boring machine by replacing the existing DC motors and Electrical control panel and complete re-wiring of the machine.</b>			
<b>Sl.No.</b>	<b>Description</b>		<b>Vendor's reply</b>
<b>C</b>	<b>Scope of Work:</b>		
1	Removing the existing D.C. motors in X,Y axes & Spindle and fixing the newly supplied A.C. servo motors & A.C. Spindle motors. The couplings, frames, pulleys, etc., required for fixing the new motors to be supplied by the vendor.	Vendor to confirm	
2	Removing the existing induction motors available for operator pendant up/down and side movements and fixing the newly supplied induction motors. The couplings, frames, pulleys, etc., required for fixing the new motors to be supplied by the vendor.	Vendor to confirm	
3	Removing the existing rack & pinion type of arrangement for the feedback and fixing the supplied linear scale and scanner head for the linear axes X,Y & Z. The necessary modifications required for fixing the linear scale / scanner head is to be carried out by the vendor.	Vendor to confirm	
4	Fixing of the new air dryer cum booster unit at suitable location. Connecting the inlet of the new air dryer unit to the supply point available at shop and distributing the air line to various parts of the machine from the air dryer unit are to be done by the supplier. The necessary pipe lines, hoses, tubes required for this is to be supplied by the supplier.	Vendor to confirm.	
5	Fixing of the supplied 'CENLUB' system for the X, Y & Z axes and taking the lubrication outlet to various places in the machine. The modifications required for fixing the CENLUB system is to be carried out by the vendor.	Vendor to confirm	
6	Laying of power & control cables to various machine location & termination .	Vendor to confirm	
7	Earthing of all the electrical item with suitable copper cables / GI flats as required. The cables / GI flats to be supplied by the supplier.	Vendor to confirm	
8	Commissioning the machine, ensuring satisfactory performance of the system and successfully demonstrating the performance of the machine at various feed rates, spindle RPM. Proving out the satisfactory performance of the machine at the particular speed, feed rate & depth of cut on a trial job will be considered successful commissioning of the machine.	Vendor to confirm	

<b>PART - B SCOPE OF SUPPLY/WORK</b>			
<b>Retrofitting of WD 160 Horizontal Boring machine by replacing the existing DC motors and Electrical control panel and complete re-wiring of the machine.</b>			
<b>Sl.No.</b>	<b>Description</b>		<b>Vendor's reply</b>
<b>D</b>	<b>General Points:</b>		
1	The supplier shall visit BHEL - Trichy and study the machine before giving his offer.	Vendor to confirm	
2	The supplier shall study the existing controls available on the machine (operator pendant) and to provide the same, in addition to the controls mentioned in Clause B.12 in the Operator pendant	Vendor to confirm	
3	The succesful bidder shall submit the following details to BHEL for approval before fabrication of the Panel / before procurement: layout of control panel showing complete details of arrangement of PLC, drives, switchgear etc., Electrical Drawings of the control panel with Bill Of Material & Layout showing complete details of arrangement of switches/PBs etc. of Operator pendant.	Vendor to confirm	
4	The switchgears used shall be L&T / SIEMENS/ SCHNEIDER/ TELEMECHANIQUE	Vendor to confirm & mention the make	
5	The indication lamps & push buttons shall be of dia 22.5mm.	Vendor to confirm	
6	The control voltage used shall be 24V AC/DC	Vendor to confirm	
7	The supplier shall offer the materials for pre-dispatch inspection at supplier's works before dispatch.	Vendor to confirm	
8	All machine I/Os, Field terminals of Auxiliary Motors & other electrical/electronic devices etc. including the unused connections shall be terminated with proper identification on Terminal Blocks	Vendor to confirm	
9	Wiring of control panel & pendant shall be complete with proper lugging, ferruling, routing, and termination on Terminal Blocks. Entry of cables in the control panel shall be from bottom	Vendor to confirm	

# **BHARAT HEAVY ELECTRICALS LIMITED TIRUCHIRAPALLI**

## **CAPITAL PURCHASE**

Annexure-A

### **ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY THE VENDORS.**

(This should be essentially filled in and sent along with the techno-commercial offer without fail. If this check list is not filled and submitted along with techno-commercial offer (Part I) or if the vendor does not confirm acceptance to the terms and conditions proposed, BHEL reserves the right to reject such offer)

#### **CHECK-LIST FOR VENDORS**

SI No	DESCRIPTION
1.	<p>The Bidders shall submit the offer in <b>THREE INNER ENVELOPES</b> as indicated below which shall be sealed in one outer envelope.</p> <ul style="list-style-type: none"> <li>❖ <b>Envelope I:</b> This sealed envelope should be clearly marked as “ <b>Part I: EMD Amount</b>” and must contain the required EMD amount of Rs. <b>1,00,000/-</b> EMD shall be payable as per the instructions, otherwise the offer will not be considered. Pay order / DD No / Cash receipt no. &amp; date should be furnished separately.</li> <li>❖ <b>Envelope II:</b> This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked “<b>Part II - Technical and Commercial bid</b>”, indicating Enquiry No., Due Date and Address &amp; Reference of the Bidder.</li> <li>❖ <b>Envelope III:</b> This sealed envelope should contain <b>price details</b>. This envelope should be clearly marked “<b>Part III - Price bid</b>”, indicating Enquiry No., Due Date and Address &amp; Reference of the Bidder. This part should contain the schedule of price particulars and must be co-related to the technical details provided in Part II.</li> </ul> <p>All the three envelopes ( Part I,II &amp; III) shall be put in one cover, duly sealed, super scribing as “<b>Part I ,Part II and Part III of Enquiry No., due date of opening</b>” and the address and reference of the Bidder. The offer received without the above guidelines, will not be considered for opening..</p> <p>The above offer should reach this office on or before the due date by 14.00 Hrs (IST). Late offers will not be considered. Tender should not be addressed to any Individual's name but only by designation to:</p> <p style="text-align: center;"><b>Sr. MGR / CAPITAL PURCHASE / MFG</b>  <b>24 Building/IV<sup>th</sup> Floor</b>  <b>BHARAT HEAVY ELECTRICALS LIMITED</b>  <b>HIGH PRESSURE BOILER PLANT</b>  <b>TIRUCHIRAPALLI - 620 014</b>  <b>TAMIL NADU, INDIA</b></p> <p>Tenders should be free from <b>CORRECTIONS AND ERASURES</b>, Corrections if any, must be attested. All amounts shall be indicated both in words as well as in figures. In case of any difference between amount quoted in words and figures, amount quoted in words shall prevail.</p> <p>Offers should be in <b>ENGLISH</b> and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in <b>ENGLISH</b> or otherwise, the offers will not be considered.</p>
2.	<p><b><u>OPENING OF TENDERS</u></b></p> <p><b>The part I</b> – EMD would be opened on the tender opening date and if EMD is not furnished the offer will be duly rejected.</p> <p><b>The Part II</b> - Technical &amp; commercial bid would be opened on the Tender opening date.</p> <p><b>Part III</b> - Price bid of technically suitable Bidders alone would be opened after complete evaluation of Part-II. BHEL reserves the right to go for a Reverse Auction (RA) instead of opening the submitted sealed bid, which will be decided after technical evaluation. Information and general terms and conditions covering RA are given in this Annexure-A (Point no.18). Date and time of Price Bid (Part-III) opening / RA conducting date shall be intimated to the technically and commercially acceptable bidders only. Clarifications if any required by BHEL for Technical evaluation would be sought from bidders before opening of Part III - price bid/ (RA).</p>
3.	<p><b>Taxes and Duties :</b></p> <p>All Taxes and Duties payable as extra to the quoted price should be specifically stated in offers along with CST &amp; TIN No / Tariff No. etc., failing which the purchaser will not be liable for payment of such Taxes and Duties. Our TIN No. 33243560005, TNGST No. 3560005, CST. No. 239383 Dt. 11-06-1991 &amp; BHEL ECC No. AAACB4146PXM012, Service Tax Reg No (STC)- AAACB4146PST006. Assessment circle Tiruverambur.</p> <p><b>Cenvat credit &amp; VAT credit</b> (for Indian Bidders only): the quotation must indicate Tariff item number and rate of Excise Duty applicable. The original Excise Duty Gate Pass will be required to be furnished in case Excise Duty is applicable. If the bidder is availing Cenvat credit for his input materials, the effect of proforma credit should be passed on to BHEL.</p> <p><b>Income Tax applicable</b> Any service charges payable towards supervision of E&amp;C, training, performance prove-out etc., will be released after deduction of Income Tax as per Indian Income Tax Act / as per the Govt. of India rules and TDS certificate will be issued by BHEL for such deductions. Applicable service tax on E&amp;C charges will be payable extra. The liability of depositing the same to the Govt. will be of the supplier.</p>

**4. DETAILS OF EARNEST MONEY DEPOSIT & SECURITY DEPOSIT**  
 Earnest Money is to be paid by the Tenderer either in Cash (as permissible under Income Tax Act), Pay Order (or) Demand Draft drawn in favour of “**Bharat Heavy Electricals Ltd, Tiruchirapalli**” payable at **Tiruchirapalli**.  
 EMD by the Tenderer will be forfeited as per Tender Documents if  
 ➤ After opening the Tender, the Tenderer revokes his Tender within the validity period or increases his earlier quoted rates.  
 ➤ The Tenderer does not commence the work within the period as per LOI/Contract. (In case the LOI/Contract is silent in this regard then within 15 days after award of the Contract).  
 EMD given by all unsuccessful Tenderers shall be refunded normally within 15 days of acceptance of award of work by the successful Tenderer. EMD shall not carry any interest.

**SECURITY DEPOSIT**  
 The successful Tenderer should pay Security Deposit before start of the work and the Rate of Security Deposit will be as below.

Value of Contract	Rate of Security Deposit
Upto Rs.10 Lakhs	10%
Above Rs.10 lakhs and upto Rs.50 lakhs	Rs.1 Lakh + 7.5% of the amount exceeding Rs.10 Lakhs
Above Rs.50 lakhs	Rs.4 Lakhs + 5% of the amount exceeding Rs.50 Lakhs

Security Deposit may be furnished in any one of the following forms.

- Cash (as permissible under the Income Tax Act)
- Pay Order, Demand Draft in favour of **Bharat Heavy Electricals Limited, Tiruchirapalli** payable at **Tiruchirapalli**
- Local Cheques of Scheduled Banks, subject to realization.
- Securities available from Post Offices such as National Savings Certificates, Kisan Vikas Patras etc ( Certificate should be held in the name of Contractor furnishing the security and duly pledged in favour of BHEL and discharged on the back)
- Bank Guarantee from Scheduled banks / Public Financial Institutions as defined in the Companies Act subject to a maximum of 50% of the total Security Deposit value. The balance 50% has to be remitted either by cash or in the other form of security. The Bank Guarantee format should have the approval of BHEL.
- Fixed Deposit Receipt issued by Scheduled banks / Public Financial Institutions as defined in the Companies Act. The FDR should be in the name of the Contractor, A/C BHEL, duly discharged on the back.
- Security Deposit will also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of Security Deposit shall be paid by the Contractor before start of the work and the balance 50% will be recovered from the running bills.
- EMD of the successful Tenderer shall be converted and adjusted against Security Deposit.

**Note:** Acceptance of security Deposit against SI.no.(iv) and (vi) above will be subject to hypothecation or endorsement on the documents in favour of BHEL. However BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.

Security deposit shall not carry any interest. Security Deposit shall not be refunded to the Contractor except in accordance with the terms of the Contract

Security Deposit shall be payable by the successful vendors as per the above instructions Security Deposit will be refunded within 30 days after successful completion of Contract by the successful vendor.

**5. Performance Bank Guarantee (PBG):** The Bidder, in the event of an order, should furnish a Bank Guarantee from an Indian Bank approved by BHEL, at no extra cost in a format prescribed by BHEL, along with the order, for an amount equivalent to **10% (Ten percent)** of the value of the contract. The PBG shall be valid for period of 18 months from the date of dispatch or **12 months** from the date of receipt / acceptance / commissioning of the equipment at BHEL, Tiruchi whichever is more, with a claim period of two months.

The Performance Bank Guarantee shall be obtained from any one of the following banks which is a member Bank in our consortium of Banks.

**LIST OF CONSORTIUM BANKS**  
 1.DEUTSCHE BANK 2.HDFC BANK 3.ANZ GRINDLAYS BANK 4.CITI BANK 5.STANDARD CHARTERED BANK 6.BANK OF AMERICA 7.ABN AMRO BANK 8.IDBI LTD 9.ICICI BANK LTD 10.THE HONGKONG AND SHANGHAI BANKING CORPORATION LTD.

**LIST OF NATIONALISED BANKS**  
 1.ALLAHABAD BANK 2.ANDHRA BANK 3.BANK OF INDIA 4.BANK OF BARODA 5.BANK OF MAHARASTRA 6.BHARATH OVERSEAS BANK 7.CANARA BANK 8.CENTRAL BANK OF INDIA 9.CORPORATION BANK 10.DENA BANK 11.INDIAN BANK 12.INDIAN OVERSEAS BANK 13.OREINTAL BANK OF COMMERCE 14.PUNJAB NATIONAL BANK 15.PUNJAB & SIND BANK 16.STATE BANK OF INDIA 17.STATE BANK OF TRAVANCORE 18.STATE BANK OF MYSORE 19.STATE BANK OF BIKANER & JAIPUR 20.STATE BANK OF HYDERABAD 21.STATE BANK OF PATIALA 22.STATE BANK OF MAHARASTRA 23.STATE BANK OF SOURASTRA(SBI-13.09.08) 24.SYNDICATE BANK 25.UCO BANK 26.UNION BANK OF INDIA 27.UNITED BANK OF INDIA 28.VIJAYA BANK

If PBG is issued by a Foreign counter part of the BHEL consortium Indian Bank, in case of claim against the PBG , it will be lodged in any one of the Indian counters of the Foreign Bank which issued the PBG.

**Vendor's confirmation**

	<b>No row shall be left blank. Please indicate NA, in case the item is “not applicable”</b>	<b>Vendor's confirmation</b>
6.	<p><b>Validity:</b> Validity of the offer should be <b>180 days</b> from the date of tender opening.</p>	
7.	<p><b>Release of Purchase Order:</b></p> <ul style="list-style-type: none"> <li>➤ Purchase Orders (separate for supply and service portion if applicable) will be released on the successful vendor (L1 vendor)</li> <li>➤ The retrofitting works are composite in nature and cannot be split-up to more than one vendor. Hence the entire work will be awarded to only lowest bidder of the tender. Work cannot be split-up and given to MSME vendor if they are L2 or above ranking in the tender.</li> </ul>	
8.	<p><b>Payment terms for Supply Portion</b> 80% Payment after receipt and acceptance of material and balance 20% within 45-90 days after receipt, acceptance and commissioning of supply material against submission of 10%PBG for order value.</p> <p><b>Erection &amp; Commissioning Portion (if applicable only):</b> 100% of the Erection / commissioning charges (in case contract involves erection /commissioning) shall be paid only on completion of such erection / commissioning at BHEL</p> <p>Any deviation in the above payment term will attract loading as mentioned below. “Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders.</p>	
9.	<p><b>Liquidated damages (LD):</b> The delivery of the goods specified in the purchase order should be made within the time prescribed. LD for delay in ‘Supply’ and/or ‘E&amp;C’ will be applicable to the delays attributed to vendor. LD will be considered separately for ‘Delivery’ and ‘E&amp;C’. Where the seller supplies or dispatches the goods, beyond the delivery period Liquidated damages shall be applicable 0.5% of the total order value per week or part thereof subject to a maximum of 10% of the total order value.</p> <p>The rate of LD for delayed E&amp;C shall be @ 0.5% per week of delay of total PO value (Supply + E&amp;C) in E&amp;C subject to a maximum of 10% of total PO value (Supply + E&amp;C).</p> <p>For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value.</p> <p>Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).</p> <p>For the purpose of Imposing LD, the FOB delivery (B/L date) shall be considered</p>	
10.	<p><b>Risk Purchase:</b> Alternatively the purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid or if the same were not available from the best and the nearest available substitute. The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases.</p>	
11.	<p><b>Delivery terms and evaluation process:</b> Indian Bidders should submit their offer on FOR <b>BHEL, Tiruchy basis</b>. Packing &amp; Forwarding and Freight &amp; Insurance charges from works to BHEL, Tiruchy to be indicated separately if extra from basic rate. Applicable % of ED &amp; Sales Tax , Commissioning Charges should be clearly indicated. <b>Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to BHEL)</b></p>	
12.	<p><b>Guarantee:</b> Vendors shall provide a guarantee for a period of 12 months from the date of commissioning of the equipment or 18 months from date of supply, whichever is earlier. The date of B/L or AWB shall be taken as the date of supply.Also, a PBG has to be given which shall cover the guarantee period (with additional 2 months as claim period). Normally No deviation permitted and the deviated offers are liable for rejection.</p>	
13.	<p><b>Short shipment / Warranty replacement:</b> In case of any short shipment in the main equipment / spares, Customs Duty levied on such supplies, shall be borne by the supplier. Any warranty replacement during the warrantee period shall be on FOR, BHEL, Tiruchirappalli, basis.</p>	
14.	<p><b>Inspection &amp; Testing:</b> All goods shall be subject to inspection by BHEL or its authorized representatives at supplier's works or at BHEL stores or at any other place in India indicated by BHEL as the case may be. The supplier will not charge for the facilities provided for inspection of goods. In case of machine tools, the machine would be inspected and proved at supplier's works prior to dispatch however, final inspection and acceptance of the machine will be carried after installation of the machine at BHEL, Tiruchirappalli.</p>	

15.	<p><b>Test certificates / Operating and Maintenance manuals :</b> The Bidders shall clearly mention in their offer, that Test Certificates and Operating Maintenance Manuals, etc., as called for in the Technical Specification, in the required number of copies will be provided at no extra cost.</p>	
16.	<p>Payment through Bank is not preferred. In case of Payment through Bank is opted by Supplier, BHEL prefers documents submission through bank with copy of LR and door delivery of Goods to Site/Stores with Consignee copy attached. In this case Loading will be 3% on the offered value. Offers of indigenous Suppliers with payment terms as LC/Advance Payment are liable for rejection.</p>	
17.	<p><b>BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.</b></p>	
18.	<p><b>Reverse Auction (RA):</b> BHEL reserves the right to conduct on-line internet Reverse Auction ie. ONLINE BIDDING (THROUGH A SERVICE PROVIDER) for finalizing the Tender. This decision will be communicated to the technically qualified vendors after technical evaluation. Details / General terms / guidelines for conduct of RA are shown below Vendors are requested to confirm their acceptance for BHEL proceeding with RA route for finalization of the enquiry.</p> <ol style="list-style-type: none"> <li>1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.</li> <li>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.</li> <li>3. BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact &amp; get trained.</li> <li>4. Business rules like event date, time, start price, bid decrement, extensions etc. also will be communicated through service provider for compliance.</li> <li>5. Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to participate in the event.</li> <li>6. BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Packing &amp; forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms &amp; conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction</li> <li>7. Reverse auction will be conducted on scheduled date &amp; time.</li> <li>8. At the end of Reverse Auction event, the lowest bidder value will be known on the network.</li> <li>9. The lowest bidder has to Fax/e-mail 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.</li> <li>10. Any variation between the on-line bid value and the 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.</li> <li>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's standard practice.</li> <li>12. BHEL reserves the right to negotiate if need be, with the "L1" vendor of the Reverse Auction</li> <li>13. <u>BHEL reserves the right not to consider offers from vendors not complying with the RA process for finalization of the enquiry.</u></li> <li>14. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.</li> <li>15. In case BHEL decides to go for reverse auction, the H1 bidder(s) (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.</li> </ol>	
19.	<ul style="list-style-type: none"> <li>➤ Point to point confirmation for the Technical Specification enclosed to be provided. If there are any deviations, the same should be clearly specified. Offers received without confirmation to our specifications will be liable for rejection. If needed additional sheets shall be used.</li> <li>➤ Equipment offered shall be "New". Re-built / Re-conditioned / Used equipments will not be accepted. Incomplete offers will not be considered for further processing Fixed price:</li> <li>➤ BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at any of BHEL projects / units.</li> <li>➤ BHEL shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL.</li> <li>➤ Security Deposit shall be payable as per the instructions furnished in clause no.4.</li> <li>➤ All Equipments / Services including concerned personnel for carrying out the erection and commissioning of the equipment shall be arranged by the vendor. If any Services are availed from BHEL, it is only on chargeable basis unless otherwise specified.</li> <li>➤ The vendor shall provide necessary drawings, Test Certificates and Operating Maintenance Manuals etc., as called for in the Technical Specification, in the required number of copies at no extra cost</li> <li>➤ The Supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit.</li> </ul>	

20.	<b>COMPANY DETAILS &amp; CONTACT</b>			
	Full Address of the company for future correspondence.(Copy of address proof & PAN card shall be attached along with Part-II)			
	Company Email ID:		Phone No.:	
	Fax No		Pan No	
	CST /TIN No		Service Tax No.	
	Name of the contact person:		Mobile No.:	
	e-mail ID			
21.	<b>TO BE CONFIRMED BY VENDOR</b>			
	Details of EMD	DD/CR/PO-No.	Dt:	Rs.
	Country of origin:			
	Station of dispatch/Port Of Shipment			
	Delivery Terms (For destination or Ex-works)			
	<b>Packing &amp; Forwarding</b> Charges, if any ( in % or Lumpsum) ie. extra from basic rate			
	% of Excise Duty with cess			
	% of TAX (CST/VAT) (TNGST with FORM-17 or CST with C-FORM)			
	<b>Freight &amp; transit insurance</b> charges (if any, in Lumpsum (or) percentage) from Dispatching station to BHEL Tiruchirappalli, (Note:If the delivery terms is Ex Works the materials has to be sent through BHEL approved carrier only, in this case the freight & Insurance will be borne by BHEL)			
	<b>(If applicable only)</b> Erection & commissioning charge is inclusive (or) exclusive on basic rate			
Service tax applicable extra or not				
22.	Delivery from the date of Letter of Intent / Purchase Order. <b>(This should be inclusive of Order acceptance, drawing approval and time period required for receiving materials at BHEL Trichy etc., )</b>			
	Period for completion of the Retrofitting / Reconditioning (erection & Commissioning) work at BHEL shall be clearly specified in the offer			
23.	<b>Weight &amp; Cubage of package:</b> Approximate Net weight of the total consignment:- Approximate Gross weight of the total consignment: - Approximate volume of the total consignment:-			
	<b>For any queries / clarifications the bidders may contact us through our FAX NO. +91 431 2520719 or through e-mail &lt;pgavictor@bheltry.co.in&gt;</b>			

NOTE:-

- a) Your specific acceptance to our Payment terms, LD, Risk Purchase Clause & Submission of PBG for 10% of the order value are essential for consideration of your offer. Otherwise your offer is liable for rejection.
- b) No row shall be left blank. Please indicate NA, in case the item is “not applicable”

**Declaration:-**

I/We have gone through and understood the ‘General guidelines & instructions to bidders for submitting offer’ enclosed as a part of the Tender and confirm that our offer has been made in line with the same.

(AFFIX OFFICIAL SEAL HERE)

Signature with date:

Name:

Designation:

Department:

(PLEASE AFFIX YOUR SIGNATURE WITH SEAL ON EACH PAGE)

**MODEL PRICE BID FORMAT FOR INDIAN BIDDERS**

Enquiry No. &amp; Date:

Bidder's Offer No. &amp; Date:

Sl No	Description of item	Unit (SET /No)	QTY	Rate /Qty in Rs. (excluding of all taxes)	VAT/CST in % (TNGST with FORM-17 or CST with C-FORM)	ED in %	Service Tax in %	Total Value in Rs. (inclusive of all taxes)
	<b>Supply portion</b>							
	Erection & Commissioning (if available in tender scope and exclusive from basic rate)							
	Packing & Forwarding charges (if any) in percentage (or) Lumpsum							
	FOR Dispatching station value in Rs.							
	Percentage of Freight & transit insurance charges, if any (Lumpsum or %) Freight & Insurance charges from Dispatching station to BHEL, Tiruchirappalli (Note:If the delivery terms is Ex Works the materials has to be sent through BHEL approved carrier only, in this case the freight & Insurane will be borne by BHEL)							
	Approximate Net weight of the total consignment							
	Approximate Gross weight of the total consignment							
	Approximate Dimensions of the Consignment							

Signature &amp; Seal of Vendor

**The price bid should be submitted only as per the above format. No row shall be left blank. Please indicate NA, in case the item is "not applicable"**

**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) ..... dtd:.....,  
Category: ..... (Micro/Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as on  
date..... 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 :  
Rs.....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:  
Rs.....Lacs

The above investment of Rs.....Lacs is within permissible limit of  
Rs.....Lacs for .....Micro / Small (**Strike off which is not applicable**)  
Category under MSMED Act 2006.

Date:

(Signature)

Name -

Membership number -

Seal of Chartered Accountant