



429-002/A

BHARAT HEAVY ELECTRICALS LIMITED

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

PHONE :2577938
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: tvenkat@bheltry.co.in
Web:

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	Enquiry No 2681600009 - 79	Enquiry Date 02.06.2016	Due Date for Quotation 28.06.2016
<p>Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order. 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 covers must be placed in a third cover and sealed. Our Enquiry No., Enq. date & Enq. Due date must be written on all three covers.</p>			

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	UPGRADATION PINES MACHINES REVAMPING OF OBSOLETE INDUSTRIAL PC BASED CNC SYSTEM WITH NEW 8 AXIS IPC/CNC SYSTEM, SERVO MOTORS AND DRIVES IN PINES MACHINE BAY 7 BUILDING 50 Qualifying criteria: As per PART A SCOPE OF SUPPLY AND WORK: As per PART B Note : 1.The system should be interfaced and commissioned by THE SUPPLIER with the existing system with in stipulated time. 2.Accessories and materials required for commissioning of the system and field elements/ cables are with supplier's scope. 3. Vendor must visit BHEL and study the machine before quoting. 4. Before start the manufacturing works, vendor has to obtain drawing approval for electrical and mechanical items and Electrical panel. 5. Inspection will be carried out at supplier works before despatch.	NO	1.000	1.00	16.03.17
<p>General Note: 1.Please submit your offer in "Two part bid system" i.e. Part-I: Technical Bid + Checklist (Annexure-A) + unpriced bid with indicating taxes & duties (Annexure-B) in a sealed cover super scribing on the cover as "TECHNICAL & COMMERCIAL BID / PART-I". Part-II: Priced offer in another separate sealed cover super scribing on the cover as "PRICE BID / PART-II". 2.Point-to-Point confirmation to BHEL's specification and commercial terms & conditions shall be provided in Annexure-A. All the Annexures should be filled & submitted along with the technical bid (no row shall be left blank), else offer is liable for rejection. 3.Offers with validity less than 120 days and non-acceptance of LD/ RP clause, PBG & Payment terms will lead to rejection of offer.</p>					
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  R.I. PETER IRUDAYARAJ Senior Manager Materials Management / BHEL, TIRUCHY - 620 014.	
				MANAGER / PURCHASE (FOSSIL BOILERS) Yours faithfully,	



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4.All clarifications may be sought at least Ten days prior to tender opening due date, from the undersigned with due written request.

5.BHEL reserves the right to go for Reverse Auction (RA) instead of opening the submitted sealed bid, which will be decided after technical evaluation. Information and general terms & conditions covering RA are given in Annexure-A.

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

7.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.

8.List of Attachments:

- Qualifying Criteria - Part-A
- Scope of Supply & Works - Part-B
- Commercial Terms & Conditions - Annexure-A
- Price Bid Format - Annexure-B
- CA certificate for MSE vendors - Annexure-C.

All the tenders may be addressed to the following address:

**The Tender Opening Cell / MM
Room No: 26, Building 24, Ground Floor
Bharat Heavy Electricals Limited
TIRUCHIRAPALLI 620014**

In case personal delivery of the offer, it shall be dropped into the respective box kept in Room No: 26, after duly entering the data in the system.

Offers will be accepted only up to 14.00 Hrs on the due date. Therefore, vendors shall ensure to submit the offers well before this time. All due date extension requirements should be addressed to the respective Purchase mail IDs. All the due date extension requests from vendors will be considered only up to 48 hours before the due date and time.

Vendors are requested to avoid submission of offers through e mail / fax. In case of any unavoidable situation, offers shall be sent through e mail to the following mail ID only tender_cell@bheltry.co.in.

As tenders are being opened by Common Tender Opening Cell, offer covers should be sealed with tenderer's distinctive seal and super scribed with correct Tender No. item of supply and due date of opening.

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

R.I. PETER IRUDAYARAJ MANAGER / PURCHASE
Senior Manager (FOSSIL BOILERS)
Materials Management / Yours faithfully,

BHEL TIRUCHY - 620 014.



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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.

The supplier shall submit EI/EII forms to BHEL time to time as indicated by the BHEL and in case of inordinate delay in issuing EI/EII forms, then BHEL reserves the right to deduct 5% of the value of the supplied items against which EI/EII forms pending to be issued


Enclosures:

"LD clause has to be confirmed without fail."

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R.I. PETER IRUDAYARAJ
Senior Manager
Materials Management /
BHEL, Thiruchirapalli - 620 014,

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED


MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,

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**PART A
QUALIFICATION CRITERIA**

**REVAMPING OF OBSOLETE INDUSTRIAL PC BASED CNC SYSTEM WITH NEW 8 AXIS IPC/CNC SYSTEM, SERVO MOTORS AND DRIVES
IN PINES MACHINE BAY 7 BUILDING 50**

SECTION – I

The BIDDER / VENDOR has to compulsorily meet the following requirements to get qualified for submitting an offer for **REVAMPING OF OBSOLETE INDUSTRIAL PC BASED CNC SYSTEM WITH NEW 8 AXIS IPC/CNC SYSTEM, SERVO MOTORS AND DRIVES IN PINES MACHINE BAY 7 BUILDING 50**

Sl. No.	Description	Vendor to specify details
1	Only those vendors (OEMs/Authorized Associates), who have Manufactured or Retrofitted and Commissioned same type of at least ONE "CNC/IPC TUBE BENDING MACHINE" capable of bending tubes of diameter 38.1 mm to 76.1 mm, thickness up to 8 mm or more in minimum 4 axis machine with Digital CNC/IPC System of Makes as specified in PART B in the last 5 years (as on the original date of tender opening) EITHER (i) In at least one country other than the country of origin to establish vendor's global business activity OR (ii) In India, and the referred machines are presently working satisfactorily for more than one year from the date of commissioning (as on the original date of tender opening).	
2	The vendor should submit following details which are necessary for qualifying their offer.	
2.1	Name and contact details like email, phone number, fax no, etc. of the customer / company where the equipment commissioned.	
2.2	Along with Technical offer, the Vendor should submit performance certificate from minimum one customer for the satisfactory performance of the same, supplied to them in the customer's letter head. Suggestive Format Enclosed in SECTION – II	
3	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected.	

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[Signature]
14/05/16

[Signature]
SHINE MOHAN
Engineer
Maintenance & Services
BHEL TRIGUN

SECTION – II

PERFORMANCE CERTIFICATE
(On Customer's Letter Head)

1. Supplier of the machine:
2. Make & Model of the Equipment:
3. Month & Year of Commissioning:
4. Application for which machine is used:
5. Performance of the Machine: Satisfactory / Good / Average /Not Satisfactory
(Strike off whichever is not applicable)
6. After Sales Service: Satisfactory / Good / Average / Not Satisfactory
(Strike off whichever is not applicable)
7. Any other remarks:

Date:

Signature & Seal of the Authority
Issuing the Performance Certificate

R. S. S. / 21/5/16

Signature
21/5/16

Signature
SHANMUGAN
Engineer
Maintenance & Services
ENEL, TRICHY - 620 014.

PART B

**REVAMPING OF OBSOLETE INDUSTRIAL PC BASED CNC SYSTEM WITH NEW 8 AXIS IPC/CNC SYSTEM, SERVO MOTORS AND DRIVES
IN PINES MACHINE BAY 7 BUILDING 50**

Scope of supply:

Sl. No.	Description	Vendor Response
1	<p>REVAMPING OF OBSOLETE INDUSTRIAL PC BASED CNC SYSTEM WITH NEW 8 AXIS IPC/CNC SYSTEM, SERVO MOTORS AND DRIVES IN PINES MACHINE BAY 7 BUILDING 50</p> <p>Machine: Pines make CNC tube bending machine Location: Bay-7 / Building-50 (No: 38724177)</p>	
1.1	<p>"The scope of work involves revamping & up gradation of , " existing Custom built Industrial PC based CNC system which has operating software windows XP & TS2000 is custom built software used to control hydraulic servos systems for bending operation and Yaskawa Motion control for servo axis control which include Y axis carriage movement, y axis alignment, Collet rotation, tube support alignment, x-axis pressure die and X axis clamp die " to " 8 Axis simultaneous function with custom based industrial PC controlled by CNC system through motion controller along with control panel ,operator panel , servo motors ,servo drives ,VFDs , 2D &3D Simulation software ,cable & field elements".</p>	
1.2	<p>"Machine background: CNC tube bending machine supplied by M/s. Pines, USA, is used for production of tube / coil formation for power boilers. The existing machine is operated with windows XP based Industrial PC CNC system with Axis 1 : CARRIAGE Servo motor (V-400 V,W-2900 W,AMPS-11.9A,RPM-1500,Nm-18.6) and servo drive ((MAKE: YASKAWA SERVO PACK (400V),MODEL: SGDM - 30 DE) Axis 2 : PRESSURE DIE</p>	

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Engineer
Maintenance & Services
BHEL TRICHY 620 014

Sl. No.	Description	Vendor Response
	<p>Servo motor (V-200 V,AMPS-4.1 A,RPM-3000,Nm-2.39) and servo drive (MAKE: YASKAWA (200V),AC INPUT: 1 ϕ, 200 – 230V, 50/60 HZ, 8.8A,AC OUTPUT: 3ϕ, 0 – 230V, 0 – 300HZ, 5-5A, 750W)</p> <p>Axis 3: CLAMP DIE Servo motor (V-200 V,W-400 W,AMPS-2.6A,RPM-3000,) and servo drive ((MAKE: YASKAWA SERVO PACK (200V),MODEL: SGDS - 04A12A)</p> <p>Axis 4: COLLET Servo motor (V-400 V,W-4400 W,AMPS-16.5A,RPM-1500, Nm-28.4) and servo drive (SERVO PACK ,MODEL: SGDH - 50 DE)</p> <p>Axis 5: BENDER PROPORTIONAL DIRECTION CONTROL VALVE, Model No-4WRLE 16EZ-180SJ-3X/G24 TK0/A1M,Make-REXROTH</p> <p>Axis 6: BOOSTER PROPORTIONAL DIRECTION CONTROL VALVE , Model No- 4WREE 10E75-22/G24 K31/A1V,Make-REXROTH</p> <p>Axis 7: TUBE SUPPORT ALIGNMENT Servo motor (V-200 V,AMPS-4.1 A,RPM-3000,Nm-2.39)</p> <p>Axis 8: CARRIAGE ALIGNMENT Servo motor (V-200 V,AMPS-4.1 A,RPM-3000,Nm-2.39)</p>	
1.3	<p>DESIGN AND PREPARATION</p> <p>Preparation of Bending program for CNC PC based System with for existing machine operation with supply of New servo motors, servo drives, amplifiers cards for existing proportional valves , New digital IPC based system, Operator panel, Electrical control panel, Encoders, cables and suitable accessories including hydraulic motors controls .</p>	
1.4	<p>ELECTRICAL ASSEMBLY AND WIRING:</p> <p>"Assembly of IPC/CNC system, servo amplifiers, servo drives and servo motors matching transformer, control Transformers, relay module, plug/sockets and connected electrical elements like contactors, MCBS, terminal blocks, push button and lamps as per the Specification required.</p> <p>- Electrical cabinet wiring to control all the CNC functions & also to incorporate control elements.</p>	

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SHINE MOHAN
Engineer
Maintenance & Services
BHEL, TRICHY - 620 014.

Sl. No.	Description	Vendor Response
	<p>- Preparing cable conduits to connect IPC/CNC control panel to the machine elements through flexible cable drag chain and flexible reinforced conduits with suitable end fittings.</p>	
1.5	<p>IPC/CNC INTERFACING AND PROVE OUT</p> <ol style="list-style-type: none"> 1. Installation and Commissioning of CNC/IPC with motion control system. 2. Commissioning of Servo motors and Drives of all six axis. 3. Installation of encoders, amplifier cards for proportional valves for another two axis and system pressure controller for proportional valves. 4. Optimizing the servo drives and loading IPC/CNC machine parameters. 4. Preparation of bending software as per existing operational sequence 5. Checking all the inputs and outputs to the IPC/CNC system. 6. Develop & prove out of PLC software to incorporate all the Machine functions such as: <ul style="list-style-type: none"> * Axis Positioning. Interfacing between electro mechanical actuator/electric cylinder actuating servo motor encoder, bending angle position sensor. * Interfacing Automatic lubrication cycle provision should be there <p>- Incorporate display of faults and messages in clear text for easy Operation and Maintenance.</p> <p>- Incorporate all the safety routines to check continuously while machine is operated.</p> <p>- Prove out of all the IPC/CNC functions for machine application such as, positioning, bending, Contouring cycles.</p> <ul style="list-style-type: none"> - Graphic menu driven fixed cycles for the operation. - Custom Made Canned Cycle to make the user friendly program and to save the program time. - Multiple program saving options are to be provided. 	
1.6	<p>Supply and installation of 2 Nos of VFD suitable for existing 2 Nos of 37 KW hydraulic pump motors for energy conservation. Make : Mitsubishi, Siemens, Yaskawa only Vendor to specify the model and make</p>	
1.7. ELECTRICAL		
1.7.1	<p>"Supply of new digital IPC/CNC with motion control system for new suitable AXIS motors and suitable servo amplifier for existing suitable axis Make should be from, Fanuc, Mitsubishi, Siemens, Yaskawa only Vendor to specify the model and make</p>	

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SHINE MOHAN
Engineer
Maintenance & Services
PHE, TRICHY - 620 014.

Sl. No.	Description	Vendor Response
1.7.2	"SPECIFICATION OF THE CONTROL SYSTEM with following specification. 1. Control system will have all the standard features of multi axis continuous path 2. Machine control based on powerful 64 bit microprocessor supported by Graphic processor. 3. 18 inch or more color touch screen LCD/LED display with keyboard and mouse.	
1.7.3	Digital IPC/CNC with motion control SYSTEM shall be of make Fanuc, Mitsubishi, Siemens, Yaskawa only Vendor to specify the model and make	
1.7.4	Supply of AC SERVO MOTORS, Suitable for existing motor (not below the rating of existing motor) Power and Torque rating and speed to match the performance of the existing. Necessary fan for motor cooling and speed feedback device are also to be supplied along with motor. Mechanical items such as machined bracket, coupling to mount the new AC servo motor with the existing gear box; required fasteners etc., for fixing the new motor shall include part of the supply. Vendor should take dimension of the existing gear box for installation new servo motors with suitable adaptors if necessary.	
1.7.5	Control Panel With inbuilt Werner Finley / Rittal Air Conditioner - 1 No (control panel should be of machine mounted and dimension as per existing panel)	
1.7.6	Standalone Operator Panel with roller stand. Panel Air conditioner with suitable capacity for operator panel - 1 Nos	
1.7.7	Encoder for Bending and booster should be supplied and installed in the machine (2 Nos)	
1.7.8	Supply of new CONTROL PANEL with 8 axes IPC/CNC with motion control system, AC servo drives, LCD display unit, PLC system that includes required I/O modules and other subsystems to replace the existing relay and contactor based control logic without modifying present functionality of the working machine. The proposed new CONTROL PANEL shall be supplied as detailed below:	
1.7.8.1	Control panel of a standard RITTAL OR HOFFMAN make shall accommodate the proposed new CNC, AC drives and their accessories. The vendor should study the existing panel dimension in the existing location. The panel shall be divided into two for PLC control systems with all sub systems and Drives control systems with all sub systems. Control panel should be Protection class IP64	
1.7.8.2	A new PLC based system to replace existing logical machine controls. (minimum of 128 Input and 128 output, digital / Analog modules)	

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Engineer
Maintenance & Services
EHEL, TRICHY - 620 014.

Sl. No.	Description	Vendor Response
1.7.8.3	All the control elements, switchgears, contactors, indicating elements, terminal blocks, and control and power wirings shall be accommodated in the new panels.	
1.7.8.4	Control panel shall include new contactors / new control elements for the existing motors for hydraulic motors	
1.7.8.5	The control panel should be of suitable size to accommodate all the above items and it should be suitable dimension to mount in the machine as existing in the machine.	
1.7.8.6	There should not be any component /elements mounted on the base, doors and side covering sheets of the control panel.	
1.7.8.7	LED light fittings or CFL fittings shall be provided inside the panels for sufficient illumination during maintenance.	
1.7.8.8	A 230volt, 5 amps, 3 pin, flush type switched wall socket shall be provided in the panel.	
1.7.8.9	MCCB of suitable rating for incoming supply, MCBs for control circuits and MPCBs at incoming supply for protection of all the motors other than spindle and axes.	
1.7.8.10	Suitable rating of Control transformer for 24V power supply.	
1.7.8.11	Suitable capacity PANEL AC UNIT that shall be mounted on the side of the control panel for cooling the power supply module, drive module, PLC and associated components.	
1.7.9	Supply of new OPERATING PANEL (with roller for easy movement) for all controls of the machine with suitable capacity Panel AC cooling system. Panel should be Protection class IP64	
1.7.9.1	HMI with touch screen of more than 18 inch shall be mounted on the Operator panel.	
1.7.9.2	Suitable number of push buttons, emergency switches, selector switches for easy operation of the machine shall be incorporated in the operator panel.	
1.7.10	Supply of remote pendant for emergency, cycle start and reset comment. (Standalone type).	
1.7.11	Supply of OIL LEVEL SENSOR, FILTER CLOG INDICATOR AND TEMPERATURE SENSORS and controller for the existing hydraulic power packs. Necessary alarm indications and interlocks to be provided. Pressure gauges available in machine to be replaced with new ones. Minimus 4" analogue Pressure gauge with adapter and hose for checking pressure shall be supplied – 1 set.	

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R. MOHAN
Engineer
Maintenance & Services
EHEL, TRICHY - 620 014

Sl. No.	Description	Vendor Response
1.7.12	Supply of appropriate INTERFACE CABLES for power, control, feedback and signals as required for the axis and servo valve controls. These cables are to be connected between motors and drives as well as between drives, operating pedestal panel and hand held remote control push button station. Most of these cables are standard ones with connectors at both the ends of each cable supplied by OEMs of CNC and drives.	
1.7.13	Supply of NEW CABLES for all other motors in place of old cables. The ratings of these AC motors as listed below will be retained in the machine. Old cables for power, control, feedback and signal in the machine, as applicable for these motors, shall be replaced with new FRC (fire retardant) grade cables. PVC sheathed flexible metal hoses (Anagonda hose) of appropriate capacity and sizes are to be used.	
1.7.14	Supply and fixing of encoders in the existing rack and pinion arrangement for Booster and bending for interfacing in the IPC/CNC control system.	
1.7.15	Removing and replacing of power and control cables hydraulic motors and sensors.	
1.7.16	Supply of all field elements such as limit switches, proximity switches, pressure switches, machine lamps, etc., in the machine. The above old components shall be replaced with new ones on the machine. New cables shall be laid for these elements. Tube feed sensors in carriage and near bend die shall be supplied.	
1.7.17	Supply of SOCKETS for hydraulic solenoid valves (rated for 24V DC). These sockets shall have indicating LEDs.	
1.7.18	Installation of existing DIGITAL ENERGY METER (three phase) at the incomer of the machine panel.	
1.7.19	Supply of a PROGRAMMING HARDWARE (a standard laptop PC) of latest version for trouble shooting, up loading, down loading and editing the CNC system parameters, machine parameters, axis parameters. The PC shall have standard features such as PCMCIA, USB, Ethernet ports, DVD(R/W), licensed Windows (LATEST Professional OS), etc. Licensed OEM software for editing and programming ladder logic is to be supplied with necessary hardware interface cables, connectors and carrying case.	
1.7.20	Care should be taken for rear tube supports during operation of carriage movement. Suitable sensor required shall be provided for dual protection to avoid damage of tube supports.	
1.7.21	Interfacing of the PLC with existing chiller unit for on / off control for energy saving.	
1.7.22	Required number of junction boxes should shall be used in the machine.	

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SHINE MOHAN
Engineer
Maintenance & Services
BHEL, TRICHY - 620 014.

Sl. No.	Description	Vendor Response
1.7.23	Existing Hydraulic motors, Proportional valves and control valves shall be interfaced with new control systems.	
1.7.24	All Safety sensors. Strip sensor for human safety shall be interfaced for smooth operation. It should be incorporated in the machine.	
1.7.25	Tube loader, tube feeding , chiller unit, lubrication system and all sub systems should be incorporated in the system.	
1.8 General		
1.8.1	Supply of THREE sets of the following DOCUMENTS along with the system	
1.8.2	Commissioning and troubleshooting manuals including ladder diagram, parameter list and documents in English	
1.8.3	Interface wiring drawings, circuit diagrams for the new panels, bought out items including part number	
1.8.4	Detailed drawings, Catalogues, Part dimension, Specification with part number of all mechanical items including like Electro mechanic actuators, machined brackets, gear boxes, coupling devices, connecting shafts, etc., which are supplied with the system.	
1.8.5	Supply of TWO sets of MANUALS in the form of hard copy for CNC and Drives (as supplied by OEMS) for description, maintenance, parameter, operation and interface of CNC system and description, parameter, maintenance manuals for spindle and servo motors shall be supplied.	
1.8.6	Supply of ONE set of SOFT COPY in CD(s) for all the above documents	
1.8.7	TRAINING for two persons on the maintenance and programming aspects of IPC/CNC, PLC and drives and two persons on the CNC Programming at OEM's Training Centre shall be arranged.	
1.9 GENERAL FEATURES AND CONDITIONS:		
1.9.1	Before submitting offer the vendor shall visit BHEL shop to study the existing working machine, its functions and the quantum of work required for retrofitting.	
1.9.2	The complete electrical shall be designed to suit 3 phase, 3 wire system (No neutral connection).	
1.9.3	The rating and type number of all the motors and other components selected shall be indicated in the offer and the technical leaflet showing the parameters and dimensional details shall be enclosed.	
1.9.4	All the existing INTERLOCK features to be retained	

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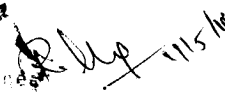
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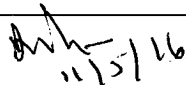
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Maintenance & Services

BHEL, TRICHY - 620 014

Sl. No.	Description	Vendor Response
1.9.5	The AC servo motors and drives shall be of SIEMENS / FANUC / Mitsubishi/Yaskawa make only rated for 3 phase 415V	
1.9.6	PLC, I/O modules and Power supply units shall be M/s. Siemens/ Fanuc / Mitsubishi/Yaskawa make only.	
1.9.7	The control panel shall be of Rittal or Hoffman make. Panel AC unit shall be of Rittal / Werner Finley	
1.9.8	Control panel, Operator pedestal and Push button control station shall confirm to the IS / BS/ EN / Indian electricity Regulations from safety aspects. The panels shall be of indoor floor mounting type with IP 64 enclosure and made of 1.6mm/ 2mm sheet steel for the non-load bearing/ load bearing sheets with necessary MS angles/ sections includes the suitable size "EYE bolts for lifting. It shall undergo full degreasing, derusting, phosphating treatment process before painting with red oxide and two coats of Siemens / Apple green enamel paints outside and white enamel painting inside for better visibility.	
1.9.9	All control elements like contactor, relay, push buttons, MCCB, MCB, MPCB, Proximity switches and limit switches shall be M/s. Siemens / L&T / Telemecanique / Technik make only (with DIN rail mounting).	
1.9.10	All the control wires shall be M/s. Igus or Lapp makes only All Power cables shall be of reputed make accepted to BHEL.	
1.9.11	All the control and power wiring from control panel to field elements shall be protected with suitable sizes of PVC sheathed flexible metal hoses and ducts.	
1.9.12	The proposed electrical circuit diagram, component lay out, panel drawings with dimension, Bill of Materials, Mechanical drawings and other details for mechanical items such as machined bracket, gear boxes, coupling arrangements shall be submitted to BHEL officials for approval before starting manufacturing. Supplier shall submit these details for approval to BHEL engineers within 8 - 10 weeks from the date of PO/LOI.	
1.9.13	All the materials as per scope of supply shall be offered for Stage/Final inspection at supplier's works before dispatch. Recommended to call for pre-dispatch inspection on 18-20 weeks after PO/LOI placement.	
1.9.14	Before dismantling the existing wiring & drive, the vendor should check and record the performance of the machine like i) operation of machine ii) output iii) Accuracy and Quality of job etc.	


 SHINE MOHAN
 Engineer
 Maintenance & Services
 BHEL, TRICHY - 620 016



 11/5/16

Sl. No.	Description	Vendor Response
1.9.15	The vendor shall give guarantee for trouble free operation for the period of one year after commissioning of the machine.	
1.9.16	The offer shall clearly indicate the list of material to be supplied under scope of supply and the list of activities to be carried out under scope of work with break up details	
1.9.17	Vendor is to submit the offer in TWO parts separately. Part-1: TECHNICAL BID having complete technical details, catalogues and point wise confirmation & deviations if any. Part-2: PRICE BID.	

Scope of Work:

Sl. No.	Description	Vendor Response
2.1	Electrical:	
2.1.1	Assembly of IPC/CNC system, servo amplifiers, drive matching transformer, control Transformers, and relay module, plug/sockets and connected electrical elements like contactors, MCBS, terminal blocks, push button and lamps as per the Specification required. - Electrical cabinet wiring to control all the IPC/CNC functions & also to incorporate servo control elements. - Preparing cable conduits to connect IPC/CNC control panel to the machine elements through flexible cable drag chain and flexible reinforced conduits with suitable end fittings.	
2.1.2	Establishing new AC servo system with drive and Servo system of hydraulic, by designing bending program as per existing system	
2.1.3	Introduction of oil low level, filter clog, pressure gauges (required where ever with minimes couplings) and temperature raise indication with high temperature trip and other interlocks for hydraulic tanks in the power packs.	
2.1.4	Integration of all the subsystems with the machine Lubrication system should be interfaced with the new control system.	
2.1.5	Commissioning of the new control panels including programming of IPC/CNC, PLC and drives to suit the present job conditions	

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Sl. No.	Description	Vendor Response
2.1.6	Prove out of the machine performance - including verification of all functions of the machine, interlocks, testing the machine with no load and with full load (Including Servo motors for Carriage, Bender, to ensure smooth running and to record). The machine performance is to be better than or at least the same as the previous performance level before retrofitting in all respects.	
2.1.7	Training for Maintenance staff at OEM works of 2 Engineers	
2.1.8	Training the operators and maintenance staff at BHEL works after commissioning for minimum three days	
2.2	Mechanical:	
2.2.1	Automatic lubrication system <ul style="list-style-type: none"> All hoses to be changed with new one. Distribution headers to be cleaned & serviced, Damaged End fittings to be changed and fixed properly. Hoses to be neatly routed and fixed properly. Total system to made working without any lubricant leakages and free flow of grease/oil to be ensured till all lubrication points	
2.2.2	Available automatic Lubricator shall be interfaced and controlled through CNC system.	
2.2.3	All necessary hoses and fittings are in vendor's scope.	
2.2.4	All Pressure gauges available in machine shall be replaced with new pressure gauges	
2.2.5	Required cleaning materials like cotton waste, kerosene shall be issued by BHEL at free of cost.	
2.2.6	All the removed waste materials are to be moved to the respective bins as per instruction of Maintenance in-charge.	
2.2.7	Assembly of required hydraulic systems/components while retrofitting with mechanical arrangements.	
2.2.8	Shop Compressed air Pressure shall be 4 - 4.5 bar at 1" line	
2.2.9	Supplier shall indicate the any additional required components/systems which are required to make the system functional (if required) one.	
2.2.10	MAKE OF THE BOUGHT OUT ITEMS "Makes of all bought out items shall be as follows unless otherwise specified elsewhere 1. ALL COUPLINGS WITH GUARDS: SKF/FENNER/HYDAX	

Handwritten signature and date: 11/5/16

Sl. No.	Description	Vendor Response
	2. HYDRAULIC FITTINGS: PARKER/SWAGELOC/HYLOC" 3. CONTACTORS: SIEMENS/L&T/SCHENIEDER/TELEMECHANIC 4. PUSH BUTTONS AND SELECTOR SWITCHES: SIEMENS/TELEMECHANIC 5. TEMPERATURE GAUGE: WIKA/WARRE/REXROTH/EATON VICKERS 6. SERVO MOTOR: SIEMENS/ MISTIBUSHI/YASKAWA/FANUC 7. PU TUBES & ONE TOUCH FITTINGS: FESTO/ SMC /PARKER 8. PRESSURE GAUGE: REXROTH/WIKA/WAREE/PARKER ANY OTHER MAKES RECOMMENDED BY THE SUPPLIER SHALL BE APPROVED BY BHEL ENGINEERS BEFORE MANUFACTURING	
3.1	PACKING: Sea worthy & rigid packing for all items of complete machine and all accessories and other supplied items to avoid any damage/loss in transit. When machine is dispatched in trailers, all small loose items shall be suitably packed in boxes.	
3.2	Delivery: Shall not exceed 16 - 20 weeks from date of Purchase order/LOI.	
3.3	GUARANTEE: 12 months from the date of commissioning / prove out of the machine in all aspects.	

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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

Sl. No.	DESCRIPTION
1.	<p>The Bidders shall submit their offer in TWO INNER ENVELOPES as indicated below which shall be sealed in one outer envelope.</p> <ul style="list-style-type: none"> ❖ 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 II: This sealed envelope should contain Price Details. This envelope should be clearly marked "Part II - Price bid", indicating Enquiry No., Due Date and Address & 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 I. <p>All the two envelopes (Part I & II) shall be put in one cover, duly sealed, super scribing as "Part I and Part II of Enquiry No., Due date of opening" and the address and reference of the Bidder. The offer received without the above guidelines, will not be considered for opening.</p> <p>Offers will be accepted & received till 14.00 Hr. on the due date. Therefore Vendors shall ensure to submit the offers before this time. Late offers will not be considered.</p> <p>The Tenders should be addressed to the following address to The Tender Opening Cell/MM Room No-26 , Building – 24 , Ground Floor Bharat Heavy Electrical Limited Tiruchirapalli - 620014.</p> <p>In case personal delivery of the offer, it shall be dropped into the respective box after duly entering the data in the system kept in Room No 26.</p> <p>Vendors are requested to avoid submission of offers thro email / fax. In case of any unavoidable situation, offers shall be sent thro email to the following mail ID only "tender_cell@bheltry.co.in "</p> <p>As such Tenders are being opened by Common Tender opening Cell , offer covers should be sealed with tender's distinctive seal and super scribed with correct Tender NO, item of supply and due date of Opening</p> <p>Tenders should be free from CORRECTIONS AND ERASURES. 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 ENGLISH and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in ENGLISH or otherwise, the offers will not be considered.</p>
2.	<p><u>OPENING OF TENDERS</u></p> <p>The Part I- Technical & commercial bid would be opened on the Tender opening date. The Part II - Price bid of Technically suitable Bidders alone would be opened. The Technically suitable Bidders would be informed about the tender opening date. Clarifications if any required by BHEL for Technical evaluation would be sought from bidders before opening of Part II - price bid.</p>
3.	<p><u>Taxes and Duties</u></p> <p>All Taxes and Duties payable as extra to the quoted price should be specifically stated in offers along with CST & 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 & BHEL ECC No. AAACB4146PXM012, Service Tax Registration No (STC)- AAACB4146PST006. Assessment circle Tiruverambur.</p>
4.	<p><u>Special Provisions for Micro and Small Enterprises (MSE)</u></p> <ol style="list-style-type: none"> 1. 20% of the tendered quantity is earmarked for MSE suppliers in this tender. 2. Out of the 20% tendered quantity reserved for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC/ST entrepreneurs. 3. In case MSE vendor participating in the tender quotes within the price band of L1+15%, they will be allowed to supply the portion of the requirement subject to acceptance of L1 price by MSE vendor. In case of more than one such MSE, the supply shall be shared proportionately. 4. 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 - C) 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.

No row shall be left blank. Please indicate NA, in case the item is "Not Applicable"	Vendor's confirmation
5. Validity: Validity of the offer should be 120 days from the date of tender opening.	
6. Release of Purchase Order: <ul style="list-style-type: none"> ➤ Purchase Orders will be released on successful L1 vendor. ➤ Separate orders for supply & service will be released on the successful L-1 vendor for each line items. (Service order released only in the case of, Installation / erection / commissioning portion are applicable on tender scope & quoted separate charge for same by vendor). 	
7. Payment Terms for supply Portion: a) 80% of payment will be released within 45-90 days after receipt & acceptance of material. b) 20% of payment will be released after completion of successful commissioning of Pines machine against submission of 10% PBG for a Warrantee period of 18 Months. Installation & Commissioning Portion (if applicable only): 100% of the installation / commissioning charges (in case contract involves erection / installation /commissioning) shall be paid only on completion of such erection / commissioning at BHEL, Tiruchirapalli. 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.	
8. 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 a period of 18 months from the date of despatch or 12 months from the date of receipt / acceptance / commissioning of equipment at BHEL, Tiruchirapalli 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 DEUTSCHE BANK, HDFC BANK, ANZ GRINDLAYS BANK, CITI BANK, STANDARD CHARTERED BANK, BANK OF AMENRICA, ABN AMRO BANK, IDBI LTD, ICICI BANK LTD, THE HONGKONG & SHANGHAI BANKING CORPORATION LTD. List of Nationalised Banks ALLAHABAD BANK, ANDHRA BANK, BANK OF INDIA, BANK OF BARODA, BANK OF MAHARASTHRA, BHARAT OVERSEAS BANK, CANARA BANK, CENTRAL BANK OF INDIA, CORORATION BANK, DENA BANK, INDIAN BANK, INDIAN OVERSEAS BANK, ORIENTAL BANK OF COMMERCE, PUNJAB NATIONAL BANK, PUNJAB & SINDH BANK, STATE BANK OF INDIA, STATE BANK OF TRAVANCORE, STATE BANK OF MYSORE, STATE BANK OF BIKANER & JAIPUR, STATE BANK OF HYDERABAD, STATE BANK OF PATIALA, STATE BANK OF MAHARASTHRA, STATE BANK OF SOURASTHRA (SBI-13.09.08), SYNDICATE BANK, UCO BANK, UNION BANK OF INDIA, UNITED BANK INDIA, VIJAYA BANK. If PBG is issued by foreign counter part of the BHEL consortium Indian Bank, in case of claim against the PBG, it will be lodge in any one of the Indian counters of the Foreign Bank which issued the PBG.	
9. Liquidated Damages (LD): 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&C' will be applicable to the delays attributed to vendor. LD will be considered separately for 'Delivery' and 'E&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. Detail of LD mode are shown below Single Delivery Date (Material Dispatched after Due date) Once the delivery due date is crossed, bills have to be clubbed till final despatch and forwarded for processing of payment as a single bunch. LD percentage will be calculated from Delivery due date to final despatch date. (100% Order should be completed for processing the bill) Staggered Delivery 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. PO Pending value (each Bill Value) up to Max 10 % of Total PO value) <i>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). For the purpose of Imposing LD, the FOB delivery (B/L date) shall be considered. Bidder should indicate the LD mode (single delivery or staggered delivery) on the confirmation column, otherwise single delivery date will be considered for further evaluation</i>	
10. Risk Purchase: 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 despatch 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.	
11. Delivery Terms and evaluation process: Indian Bidders should submit their offer for FOR-BHEL, Tiruchirapalli basis. Packing & Forwarding and Freight & Insurance charges from works to BHEL, Tiruchirapalli to be indicated separately if extra from basic rate. Applicable % of ED & Sales Tax, Commissioning Charges should be clearly indicated. Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to BHEL-Trichy).	

12.	<p>Guarantee: 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. <u>Offers from vendors not accepting the requested guarantee period will be rejected.</u></p>	
13.	<p>Short shipment / Warranty replacement: 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 warranty period shall be on FOR-BHEL, Tiruchirappalli basis.</p>	
14.	<p>Inspection & Testing: 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>Test certificates / Operating and Maintenance manuals : 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>BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.</p>	
18.	<p>Reverse Auction (RA): BHEL reserve the right to conduct on-line internet Reverse Auction i.e. ONLINE BIDDING (THROUGH A SERVICE PROVIDER) for finalising the tender. This decision will be communicated to the techno-commercially qualified vendors after 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 finalisation of the enquiry.</p> <ol style="list-style-type: none"> 1. Technically and Commercially acceptable Bidders shall only be eligible to participate in the Reverse Auction. 2. BHEL shall engage the services of a Service Provider, who shall extend all necessary training and assistance before commencement of ON-LINE-BIDDING through Internet, at NO extra-cost to the Bidders. 3. Eligible Bidders shall be informed in writing, about the details of Service Provider, to enable Vendors to contact the Service Provider and get trained. 4. Event Date, Time, Start Price, Bid Decrement, Time-Extensions, etc. shall also be communicated through the Service Provider for compliance by Bidders. 5. Vendors have to FAX the Compliance Form (Annexure-IV), before start of RA. Without furnishing the above Compliance Form, Bidders shall not be eligible to participate in the RA. 6. BHEL shall provide the calculation sheet through the Service Provider, which shall be helpful to arrive at "TOTAL COST to BHEL", like Packing and Forwarding Charges, Taxes and Duties, Freight Charges, Insurance, Service Tax and other loading factors (for non-compliance to BHEL Standard Commercial Terms and Conditions), for each of the Bidder, to enable them to fill in the price and keep it ready for inputting data during the RA. 7. RA shall be conducted on a pre-determined Date and Time. 8. At the end of RA, the lowest Bid Value will be known on the Network. 9. Lowest Bidder has to FAX the Prescribed Format, duly filled in and signed in, as provided, on a case-to-case basis, to the Service Provider, within 24 Hours of RA without fail. 10. Any variation between the ON-LINE Bid Value and the signed document will be considered as unethical the Tender process and will invite disqualification of Bidder, for further business dealings with BHEL as per the prevailing procedure. 11. In case BHEL decides not to go for Reverse Auction procedure for this tender, the Price Bids & Price Impacts, if any, already submitted & available with BHEL shall be opened as per BHEL's standard practice. 12. BHEL reserves the right to negotiate if need be, with the L-1 vendor of the RA. 13. <u>BHEL reserves the right not to consider offers from vendors not complying with the RA process for finalisation of the enquiry.</u> 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 results of the RA scrapped / aborted. 15. In case BHEL decided to go for Reverse auction, the H-1 bidder(s) (whose quote is highest in the online sealed bid) may not be allowed to participate in further Reverse Auction. 	
19.	<p>ARBITRATION: All disputes or differences whatsoever which may arise at any time during execution of the Contract shall be mutually settled by BHEL and Contractor as per provision of the Contract. However, in the event such disputes cannot be settled mutually, such disputes shall be settled as per the Arbitration and reconciliation Act, 1996 of the Govt. of India and it's subsequent amendments. In case of disputes with the Central PSUs, the same shall be settled at Tiruchirappalli as per the Guidelines of the Govt. of India. However, during the period such disputes are settled either by mutual discussions between the parties or by legal means, Contractor shall continue to do the work as per terms & conditions of Contract.</p>	

20.	<ul style="list-style-type: none"> ➤ 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. ➤ Equipment offered shall be "New". Re-built / Re-conditioned / Used equipment's will not be accepted. Incomplete offers will not be considered for further processing Fixed price: ➤ 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. ➤ 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. ➤ 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 ➤ The Supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit. 	
21.	Company Details & Contact	
Full Address of the company for future correspondence / placing order. (Copy of address proof & PAN card shall be attached along with Part-I)		
Company Email ID:		Phone No.:
Fax No		Pan No with copy
CST /TIN No		
Name of the contact person:		Mobile No.:
e-mail ID		
22.	TO BE CONFIRMED BY VENDOR	
Country of origin:		
Station of dispatch / Port Of Shipment		
Delivery Terms (FOR Destination / Ex-works)		
Packing & Forwarding Charges in % or Lump sum, if extra from basic rate		
% of Excise Duty with cess		
% of TAX (CST / VAT) (TNGST with FORM-17 or CST with C-FORM)		
(If applicable only) Installation & Commissioning charge is inclusive (or) exclusive on basic rate.		
Service Tax extra or Not		
Freight & Transit insurance charges (if any, in Lump sum (or) percentage) from Dispatching station to BHEL Tiruchirapalli.		
23.	DELIVERY SCHEDULE:	
Supply Portion: Delivery schedule from the date of Letter of Intent / Purchase Order. (This should be inclusive of Order acceptance, drawing approval and time period required for receiving goods at BHEL Trichy etc.		
Time period required for Installation / Erection & Commissioning from date of site clearance given by BHEL, Trichy.		
24.	Weight & Cubage of package:	
Approximate Net weight of the total consignment:		
Approximate Gross weight of the total consignment:		
Approximate volume of the total consignment:		
For any queries / clarifications the bidders may contact us through our FAX NO. +91 431 2520719 or through e-mail		
<peterr@bheltry.co.in>		

NOTE:-

- a) Your specific acceptances to our Payment terms, LD, Risk Purchase Clause 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:-

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)

Annexure-B

Bharat Heavy Electricals Limited TIRUCHIRAPPALLI/CAPITAL PURCHASE

MODEL PRICE BID FORMAT FOR INDIAN BIDDERS

Enquiry No. & Date:

Bidder's Offer No. & Date:

Sl. No.	Description of item	Unit (Set / No.)	QTY	Basic Rate / Qty. in Rs. (excluding all Taxes)	ED in %	VAT / CST in % (TNGST with FORM-17 or CST with C-Form)	Service Tax in %	Total Value in Rs. (Including all taxes & duties)
10	Supply Portion							
20	Installation & Commissioning Charges for Sl. No: 10 (if available in tender scope & exclusive from basic rate for supply portion)							
Packing & Forwarding charges (if any) in percentage (or) Lump sum								
FOR Dispatching station value in Rs.								
Percentage of Freight & transit insurance charges, if any (Lump sum or %) Freight & Insurance charges from Dispatching station to BHEL, Tiruchirapalli								
Approximate Net weight of the total consignment								
Approximate Gross weight of the total consignment								
Approximate Dimensions of the Consignment								

Signature & 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".

Bharat Heavy Electricals Limited TIRUCHIRAPPALLI/CAPITAL PURCHASE

CERTIFICATE BY CHARTERED ACCOUNTANT

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.5.0.1722(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