



429-002/A

BHARAT HEAVY ELECTRICALS LIMITED

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

Page
1/3

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

Enquiry No	Enquiry Date	Due Date for Quotation
2681600010 - 79	02.06.2016	28.06.2016
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.		

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	Retrofitting of VSPQ63 CNC Drilling Machine Retrofitting of VSPQ63 CNC Drilling machine by replacing the existing CNC system, AC Servo motors & AC Analog 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	25.11.16

General Note:

1.Please submit your detailed offer in two part bid system i.e Part-I. Technical bid + Checklist (Annexure-A) + Unpriced bid 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"

Both the 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. The supplier must fill and send all the Annexures as indicated in the list of attachments. Annexure-A & Annexure-B(with taxes and duties, without indicating prices) should be filled and submitted along with the technical bid, else your offer is liable for rejection.

3.Offers with validity of less than 120 days and non-acceptance of LD & RP clause and reverse auction will lead to 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.

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,

R.I. PETER IRUDAYARAJ
Senior Manager

Materials Management /
BHEL, TIRUCHY - 620 014.



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:

2681600010 / 02.06.2016

23505

6.BHEL reserves the right to go for a reverse auction (RA) instead of opening the submitted sealed price bid, which will be decided after technical and commercial evaluation. Information and general terms and conditions covering RA are given in commercial terms and conditions (ANNEXURE-A/Point No.18)

7.BHEL will consider MSE vendor as per Government guidelines.

8.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.

9.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.

10.List of Attachments:

- Qualifying Criteria - PART-A
- Technical Specification - 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.

The offers will be opened at 14.30 hrs on the due date of the tender in the presence of tenderers who

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,

R.I. PETER IRUDAYARAJ
Senior Manager

Materials Management /
BHEL, TIRUCHY - 620 014.



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:

2681600010 / 02.06.2016

23505

have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

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."

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,

R.I. PETER IRUDAYARAJ
Senior Manager

Materials Management /
BHEL, TIRUCHY - 620 014.

Retrofitting of VSPQ63 Vertical drilling machine by replacing the existing CNC system, AC servo and Spindle motors drives, Electrical control panel and complete re-wiring of the machine.

Part - A Pre - Qualification criteria

Sl.No	BHEL Specifications	BHEL Comments	Vendor's reply
1	Only the offer of those vendors who have successfully carried out retrofitting of minimum One "CNC Vertical Drilling (or) Milling machine with SIEMENS (or) FANUC system" will be considered. The Vendor has to submit P.O. copies in support of the above.	Vendor to confirm & to submit the Performance certificates.	
2	The Vendor shall provide the list of customers to whom such retrofitting has been carried out in the past along with the details of contact person's name, e-mail id & phone no.	Vendor to provide the details	
3	Vendor has to submit copy of 'Performance certificate' from atleast one customer as a proof for satisfactory performance of the retrofitted "CNC Vertical Drilling (or) Milling machines with SIEMENS (or) FANUC system" machine. The subject machine shall be retrofitted in the last five years (from the date of opening of this tender) and should be working satisfactorily for more than 1 year from the date of retrofitting.	Vendor to confirm & provide the details	

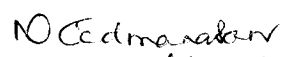
N. Padmanaban
17.05.16

N. PADMANABAN
Senior Engineer
Maintenance & Services
BHEL, TRICHY - 620 014

Retrofitting of VSPQ63 Vertical drilling machine by replacing the existing CNC system, AC servo and Spindle motors drives, Electrical control panel and complete re-wiring of the machine.

Part - B Technical Specifications

Sl.No	Description	BHEL Comments	Vendor's reply
A	Technical details of the existing machine:		
a.	<p>Machine Supplier: STROJIMPORT Machine Model: VSPQ-63/1994 Commissioned on: 1994 Drilling capacity: 63 mm Boring capacity: 100 mm Tapping capacity: 30 mm Column saddle travel X axis: 15000 mm Spindle head travel Y axis: 2180 mm Arm travel W axis: 800 mm Spindle quill stroke Z axis: 300 mm Spindle quill diameter: 110 mm Spindle speed range: 20 – 3150 rpm Spindle feed range: 3- 2900 mm/min</p>	Vendor to note	
b.	Specifications of the existing A.C. Servo & Spindle Motors:		
	<p>1) X - axis: Make: SIEMENS Part No.: 1FT 5108-OAA-71-1-Z Rated Torque: 55 Nm Rated speed: 1200 RPM</p> <p>2) Y - axis: Make: SIEMENS Part No.: 1FT 5102-OAA-71-1-Z Rated Torque: 31 Nm Rated speed: 1200 RPM</p> <p>3) Z - axis: Make: SIEMENS Part No.: 1FT 5074-OAC-71-1-Z Rated Torque: 14 Nm Rated speed: 2000 RPM</p> <p>4) W - axis: Make: SIEMENS Part No.: 1FT 5074-OAC-71-1-Z Rated Torque: 14 Nm Rated speed: 2000 RPM</p> <p>5) Spindle Motor: Make: SIEMENS Part No.: 1PH 6138-4NF-46Z Max. rating: 22 kW Rated speed: 1500 RPM</p>	Vendor to note	
c.	Specifications of the existing Induction motors:		


N. PADMANABAN
Senior Engineer
Maintenance & Services
BHEL, TRICHY - 520 010.

Sl.No	Description	BHEL Comments	Vendor's reply
	1) Drilling head hydraulic system pump motor: Rating: 0.75 kW 2) Drilling head lubricating pump motor: Rating: 0.12 kW 3) Main Hydraulic pump motor: Rating: 3.5 kW 4) Coolant re-pumping pump motor: Rating: 2.2 kW 5) Arm lubricating pump motor: Rating: 0.25 kW 6) Slide lubricating pump motor: Rating: 0.12 kW 7) Coolant pump motor: Rating: 2.2 kW	Vendor to note	
d.	Field devices:		
	1) External rotary encoders are available for all the 4 axes & Spindle (X, Y, Z, W & Spindle) as follows: * X - axis - Incremental, TTL, 2500 PPR * Y - axis - Incremental, TTL, 2500 PPR * Z - axis - Incremental, TTL, 2500 PPR * W - axis - Incremental, TTL, 2500 PPR * Spindle - Incremental, TTL, 1024 PPR 2) Approximate no. of I/O's: 85 Inputs & 60 Outputs. 3) Home & End limit switches for all the axes. 4) Float & Pressure switches.	Vendor to note	
B	Scope of Supply:		
1	Latest digital CNC system to support the no. of axes & Spindle available in the machine. The make shall be SIEMENS / FANUC.	Vendor to confirm & mention the make and version.	
2	Suitable latest A.C. Servo motors for all the axes & A.C. Spindle motor for Spindle. The make shall be SIEMENS / FANUC.	Vendor to confirm & to provide the make and model no. of the Servo & Spindle motors	

N. Padmanaban
17.05.16

N. PADMANABAN
Senior Engineer
Maintenance & Services
BHEL, TRICHY - 620 014.

Sl.No	Description	BHEL Comments	Vendor's reply
3	Digital AC servo drives suitable for the above AC servo motors. The make of the servo drives shall be SIEMENS/ FANUC.	Vendor to confirm & to provide the make and model no. of the drives	
4	Digital AC Spindle Drive suitable for the above AC Spindle motor. The make of the Spindle drive shall be SIEMENS/ FANUC.	Vendor to confirm & to provide the make and model no. of the drive	
5	New external Rotary encoders for all the 4 axes & Spindle to replace the existing one. The make of the encoders shall be HEIDENHEIN / SIEMENS / FAGOR.	Vendor to confirm and to give make & model	
6	Latest PLC system compatible with the new CNC system to be supplied. The make of the PLC shall be SIEMENS / FANUC / MITSUBISHI / AB.	Vendor to confirm & to give make and model	
7	New Limit switches to replace the existing limit switches used in various parts of the machine. The limit switches shall be of BCH / Omron / Telemecanique (or) equivalent.	Vendor to confirm & provide details of make	
8	<p>Hydraulic oil chiller unit for cooling the hydraulic oil. The general specification of the required chiller unit is as follows:</p> <ul style="list-style-type: none"> * Preferable capacity: 2 TR (6000 kCal/hr) (minimum) * Type: Refrigerent * Refreigerent: R134a / R407C (Non CFC) (Initial charge of refrigerant shall be provided by the supplier) * Medium to be cooled: Hydraulic oil SS46 grade * Compressor : Hermetically sealed Reciprocating type with capacity as 2 TR (or) 6000 kCal / hr. Make: Copeland / Danfoss. Power supply 415 V , 3 Phase, 50 Hz. * Condenser Coil : Air cooled copper tube coil with aluminium fins * Evaporator : Brazed plate heat exchangers * Oil pump : Vane / Gear pump, Power supply: 3 Phase, 50 Hz, 415 V * Digital Temperature Controller : Preferred make: Dixell / Sub - Zero / Carel * Safety provisions like Compressor , Pump Overload, Single phase preventer, Anti Freeze trip, Oil flow trip, HP / LP protection to be provided. <p>The chiller unit is to be connected between the existing hydraulic tank and machine circuit & the required inlet and outlet hoses are to be supplied & installed in the machine. A suitable temperature sensor shall be supplied & fixed in the existing hydraulic power pack and shall be connected to either the Machine PLC / Control unit in the Chiller unit. The operation of the Chiller unit shall be decided based on the feedback from this temperature sensor unit.</p>	Vendor to confirm for each point & to provide the Make & Model	

N. Edmaran
 17.05.16
 Machine Tools & Services
 BHEL, TRICHY - 620 014

Sl.No	Description	BHEL Comments	Vendor's reply
9	Fully wired, Stand-alone, Floor mounting type Control Panel of Rittal make with minimum IP54 degree protection and with suitable lifting hooks. The Control Panel shall conveniently house new CNC, PLC system, Axes & Spindle Drive systems with all necessary accessories & switchgear like MCBs/ Relays/ Contactors/ Transformers/ Power Supply Units/ Main switch/ terminal blocks etc. Also a 5/15A switched socket power supply shall be provided inside the panel.	Vendor to confirm	
10	Air-Conditioner of Rittal/Advance/WernerFinley make with sufficient capacity for the above Main control panel.	Vendor to confirm & to provide make & model.	
11	Switchgears/ relays/ contactors and other items required for safe and reliable operation of the machine is to be supplied and installed in the panel.		
12	Power, control & communication / feedback 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/ igus or equivalent. Also the glands & lugs required for terminating the cables to be supplied.	Vendor to confirm	
13	Cable trays, metallic / plastic hoses, pipes and conduits required for routing the power, control & feedback cables to be supplied.	Vendor to confirm	
14	Metal drag chain for replacing the existing cable drag chain in X, Y & Z axes. The make shall be 'Kabelschlepp/ekd'. The drag chain shall be of closed type and the covers shall be of Aluminium and removable type from each link.	Vendor to confirm & to provide make & model.	
15	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,. Also, a 230V, 5A service socket shall be provided outside the pendant.	Vendor to confirm	

N. Edmanabon
17.05.16

...

Sl.No	Description	BHEL Comments	Vendor's reply
16	In addition to the Operator pendant at machine platform, a remote pendant is available at the Headstock of the machine. The existing pendant & along with the components like MPG unit, push buttons, indication lamps shall be retained. In case of any issue in interfacing these components with the new system, then required replacement component shall be supplied & interfaced.	Vendor to confirm	
17	Only 3 phase 415V A.C. supply (without neutral) will be supplied by BHEL at a point near to the machine. Supply, laying & termination of power cable from this supply point to the incomer of the Servo stabilizer will be done by BHEL. All other cables and trays/ hose required for various loads are to be supplied and laid by the vendor (including the cable required for distribution of power from servo stabilizer to other part of the machine.	Vendor to confirm	
18	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. It shall be noted that the incoming supply to this transformer is only 3 Phase, 415V AC without Neutral; hence, the transformer (connections) shall be selected accordingly.	Vendor to confirm & to provide the make	
19	The following Maintenance tool kits & Spares are to be supplied along with the machine: 1) Servo drive - 1 No. in each type 3) Spindle drive - 1 No. 4) Limit switches - 1 No. in each type. 5) Main Power supply module used for the CNC drive - 1 No. 6) MECO digital Multimeter, Model: 801 Auto - 03 Nos. 7) Rotary encoder - 1 No. in each type used in the machine. 8) Recommended spares for trouble free operation of the Servo stabilizer (The list of items shall be submitted along with the offer) - 1 set.	Vendor to confirm & to submit the list of recommended spares for the Servo stabilizer	
20	After commissioning, training to be given to BHEL maintenance & operator people on machine programming, operation, maintenance & troubleshooting at BHEL - Trichy.	Vendor to confirm	
21	Also, training is to be arranged by supplier at CNC Supplier's work in India on the supplied CNC system as follows: 1) On CNC programming - for 02 persons. 2) On CNC Operation & Maintenance - for 02 persons. The training programme on each above shall not be less than 4 days. 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.	

N. Edinathan
N. EDINATHAN 17.05.16
Manager
Maintenance & Services
BHEL, TRICHY - 620 014

Sl.No	Description	BHEL Comments	Vendor's reply
22	<p>Three hard copies of the following manuals to be supplied:</p> <ol style="list-style-type: none"> 1) Electrical circuit diagrams with complete Bill Of Material 2) CNC Programming manual 3) CNC Operation & Maintenance manual 4) Servo drive & Servo motor Operational manual 5) Servo drive & Servo motor Maintenance manual 6) Technical catalogue for all the bought out items 7) Ladder/Statement logic of PLC. 8) O&M Manual of Chiller unit. 9) O&M Manual of Servo stabilizer. <p>One soft copy of the all the above documents to be given in CD along with the final PLC, Drive & CNC backup.</p>	Vendor to confirm	
C	Scope of Work:		
1	Removing the existing A.C. Servo & Spindle motors and fixing the newly supplied A.C. servo motors & A.C. Spindle motors. The couplings, frames, mounting brackets, pulleys, etc., required for fixing the new motors to be supplied by the vendor.	Vendor to confirm	
2	Erection & Commissioning of the Servo voltage stabilizer cum Isolation transformer.	Vendor to confirm	
3	Removing the existing external rotary encoders in the axes & spindle and installation of the newly supplied rotary encoders. The encoder couplings, mounting brackets, etc., required for installation & commissioning of the new rotary encoders are also to be supplied by the Vendor.	Vendor to confirm	
4	Erection & Commissioning of the Hydraulic oil chiller unit. The Hydraulic hoses, fittings, etc., required for connecting the chiller unit with the existing system / hydraulic tank to be supplied by the Vendor. Also, control & power cables required to interface the hydraulic chiller unit with the machine system need be supplied & erected by the Vendor.	Vendor to confirm.	
5	Laying and termination of power, control & communication cables to various parts of the machine / components.	Vendor to confirm	
6	Earthing of all the electrical item with suitable copper cables / GI flats as required. The cables / GI flats to be supplied by the Vendor.	Vendor to confirm	

NO Edmanaban
17.05.16
M. S. MANABAN
15/05/16
Maintenance & Services
SHELL TRICHY - 620 014

Sl.No	Description	BHEL Comments	Vendor's reply
7	Commissioning the machine, ensuring satisfactory performance of the system and successfully demonstrating the performance of the machine at various feed rates, spindle RPM. The performance of the machine in terms of its functions & the max. feed rate of various axes will be noted before retrofitting in the presence of retrofitter. The same performance is to be ensured after retrofitting. Regarding proving out of Spindle, satisfactory performance of the machine at the particular speed, feed rate & depth of cut on a trial job (which was also taken before retrofitting) will be considered successful commissioning of the machine.	Vendor to confirm	
8	LASER calibration of the machine before retrofitting to find out the accuracy of various axes before retrofitting & LASER calibration of the machine after retrofitting. The accuracy of the axes after retrofitting shall be better than before retrofitting.	Vendor to confirm	
D	General Points:		
1	The bidder shall visit BHEL - Trichy and study the machine before giving the offer.	Vendor to note & Confirm	
2	Only 3 phase 415V A.C. supply (without neutral) will be supplied by BHEL at a point near to the machine.	Vendor to note	
3	The successful bidder shall submit the following details to BHEL for approval before fabrication of the Panel / before procurement: layout of Main control panel showing complete details of arrangement of CNC system, PLC, drives, switchgear etc., Electrical & mechanical Drawings of the machine with Bill Of Material.	Vendor to confirm	
4	The switchgears used shall be L&T / SIEMENS/ SCHNEIDER/ TELEMCHANIQUE	Vendor to confirm	
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 successful bidder shall offer the materials for pre-dispatch inspection at his 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	

N. Radmanaban
 17.05.16
 N. RADMANABAN
 Senior Engineer
 Maintenance & Services
 BHEL, TRICHY - 620 014.

Sl.No	Description	BHEL Comments	Vendor's reply
10	It shall be noted that the Main control panel will be mounted on a moving saddle. Hence, necessary pre-cautions against jerk / vibrations shall be taken care by the supplier.	Vendor to confirm	

NO Edmanabov
17.05.16

Signature
Date

Capital Purchase

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: > 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 VSPQ63 Drilling 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 AMERICA, 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. <u>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.</u>	
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 Lumpsum (or) percentage) from Dispatching station to BHEL Tiruchirappalli.	
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:	
<p>For any queries / clarifications the bidders may contact us through our FAX NO. +91 431 2520719 or through e-mail <peterrri@bheltry.co.in></p>		

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