



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

TIRUCHIRAPPALLI – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT/ MATERIALS MANAGEMENT

ENQUIRY	Phone: +91 431 257 7421/7775		
NOTICE INVITING TENDER	Fax :431 257 6826		
	Email : vkarna@bhel.in , kumar.virendra@bhel.in		
	Web : www.bhel.com		
TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two parts	2631900040	01.10.2019	25.10.2019
You are requested to quote the Enquiry number, date and due date in all your correspondences. This is only a request for quotation and not an order. Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs. on the Date of tender opening.			
Item	Description		Qty.
10	"Procurement of Pillar Type Drilling Machine -25 mm " as per the technical specification, BHEL commercial terms & conditions applicable (to be downloaded from web site www.bhel.com and https://eprocure.gov.in/epublish/app)		01 No.
20	"Procurement of Pillar Type Drilling Machine- 13 mm " as per the technical specification, BHEL commercial terms & conditions applicable (to be downloaded from web site www.bhel.com and https://eprocure.gov.in/epublish/app)		01 No.
Important points to be taken care during submission of offer: 1. Delivery terms shall be FOR BHEL Stores, Trichy-620014. 2. Compliance Form No.: MM/CE/IND/12 to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation. 3. Delivery required 3 months from the date of purchase order. 4. Erection & Commissioning period required 2 weeks from the date of intimation by BHEL to vendor for deputation of their Engineers for E&C. 5. EMD: Not Applicable. 6. All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media. BHEL's General guidelines / instructions (Refer: MM/CE/GENL001), commercial Terms check list (Compliance Form) and Technical Specification can be downloaded from BHEL web site http://www.bhel.com or from Central Public Procurement Portal website https://eprocure.gov.in/epublish/app under Enquiry reference "2631900040". Note: this is not an E-tender, hence Vendors are requested to ensure that the offer is reaching physically at our office before 14:00 Hrs. on the date of tender opening.			
Tenders should reach us before 14:00 hours on the due date Tenders will be opened at 14:30 hours on the due date Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present.		Yours faithfully, For BHARAT HEAVY ELECTRICALS LIMITED <i>V. Karunakaran</i> 1/10/19	

PORTABLE PILLAR TYPE DRILLING MACHINE

PART - A

Section 1 - Qualifying Criteria

The BIDDER has to compulsorily meet the Qualifying Criteria indicated in **Section 1** to get qualified. Otherwise the technical offer will not be considered.

Sl no.	Requirements	Vendor's Response
1.0	The Vendors should be in the field of manufacturing Portable drilling machines since the last 5 years. Only those vendors (OEMs), who have manufactured, supplied and commissioned at least Two PORTABLE PILLAR TYPE DRILLING MACHINES of similar size or above are only eligible to quote. Such supplied machine should at present be working satisfactorily for at least one year after its commissioning (counted backward from the date of opening of this Tender). Along with the offer the Vendor should submit one performance certificate from any of their customers to whom such machine is supplied. The performance certificate should be either in the format indicated at Section 4 of Part-A of this Tender or disclose all details prescribed in that format. Those vendors/OEMs who do not fulfil the above requirements are requested not to respond to this Tender.	
	The vendor should submit the following information	
1.1	Name and postal address of the customer or company where similar machine is installed. (latest five customers only)	
1.2	Name and designation of the contact person of the customers. (latest five customers only)	
1.3	Phone, FAX no. and email address of the contact person of the customers (latest five customers only)	
1.4	BHEL reserves the right to verify the above information provided by vendor. In case the information provided is found to be false/ incorrect, the offer shall be rejected.	

Section 2

The BIDDER / VENDOR is requested to provide the following information:-

Sl no.	Requirements	Vendor's Response
2.0	Specify details of such PORTABLE PILLAR TYPE DRILLING MACHINES supplied to other units of BHEL, if any (Year of commissioning & Drilling Capacity etc.)	
3.0	Details on SERVICE-AFTER-SALES Set-up in India including the Address of Agents / Service Centres in India.	
4.0	Any Additional data to supplement the manufacturing capability of the BIDDER for the subject equipment.	

Section 3

The BIDDER to note:

Sl no.	Requirements	Vendor's Response
5.0	The BIDDER / VENDOR shall submit the offer in TWO parts. 1. Technical Offer [with PART A & PART B] 2. Commercial Offer and Price bid.	
6.0	The Technical Offer shall contain a comparative statement of Technical Specifications demanded by BHEL and Offer Details submitted by the Bidder	
7.0	The Technical Offer shall be supported by copies of product Catalogues, Data Sheets and technical details of Bought out Items to the extent possible	
8.0	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation.	

Section 4- Performance Certificate

The Performance certificate should be produced on **Customer's Letter Head** and submitted along with the offer.

1.0	Machine Supplied by (Manufacturer's name)		
2.0	Make & Model number of the Machine		
3.0	Month & Year of Commissioning (MM/DD/YY)		
4.0	Application for which m/c is used		
5.0	Machine Details		
5.1	Drilling Capacity(mm)		
5.2	Motor rating in HP		
6.0	Performance of the Machine (Please tick the appropriate option)	Not Satisfactory	
		Satisfactory	
7.0	Service after sales (Please tick the appropriate option)	Not Satisfactory	
		Satisfactory	
8.0	Other remarks (if any)		
Date:		Signature & Seal of the Authority Issuing the Performance Certificate	

PART B: TECHNICAL SPECIFICATION FOR PILLAR TYPE DRILLING MACHINE

S. No.	PARAMETERS	SPECIFICATION	OFFER
1	MACHINE FEATURES		
1.1	Type	Pillar type	Vendor to confirm
1.2	Drilling capacity in steel	13 mm or above	Vendor to confirm
1.3	Morse taper in spindle	1	Vendor to specify
1.4	Spindle traverse	Min. 100 mm	Vendor to specify
1.5	Pillar diameter (rigid enough to drill 13 mm)		Vendor to specify
1.6	Distance between centre of spindle and Pillar front	Min. 140 mm	Vendor to specify
1.7	Max. Distance between spindle and table	290 to 310 mm	Vendor to specify
1.8	Max. Distance between spindle and base	490 to 510 mm	Vendor to specify
1.9	Table working surface	Min 200 x 200 mm	Vendor to specify
1.10	Base working surface	Min 180 x 210 mm	Vendor to specify
1.11	No. of spindle speeds	4	Vendor to specify
1.12	Range of spindle speed (RPM)	480-820-1320-2080	Vendor to specify
1.13	Feed	By Hand	Vendor to confirm
1.14	Input power supply	3 Phase, 4 Wire, 415 Volt, 50Hz AC supply, Fourth wire earthed	Vendor to confirm
1.15	Power of spindle drive motor	0.5 H.P or above (1440 rpm /3 phase)	Vendor to confirm

PART B: TECHNICAL SPECIFICATION FOR PILLAR TYPE DRILLING MACHINE

S. No.	PARAMETERS	SPECIFICATION	OFFER
1.16	Standard accessories	The Vendor to specify the standard accessories supplied along with the machine in their offer. If any of the following item is not covered in their standard supply those items are also to be supplied with the machine. 1. 13 mm Drill Chuck and key 2. Coolant Pump 0.125 HP 3. Machine Lamp 4. Machine Vice (Plain type) 100 mm 5. Machine Vice (Swivel type) 100 mm 6. DOL starter of reputed make 7. One set of push-buttons, selector switches etc if any (1 in each type) 8. Operation and maintenance tools required.	Vendor to confirm
2	MACHINE SPARES: Itemised List of mechanical and electrical spares essentially required for maintenance of the machine to be provided with the technical offer. Spares with price break up shall be submitted in sealed cover to MM/CE.		Vendor to specify
3	INSPECTION: The Machine shall be offered for pre dispatch inspection and performance checking at Vendor's Works by BHEL Engineers. The factory Inspection report/Geometrical test charts if any shall be submitted to BHEL before PDI inspection.		Vendor to confirm
4	FOUNDATION		
4.1	Civil foundation details if any shall be provided by the supplier.		Vendor to specify
4.2	Suitable Foundation materials, levelling pads to be provided		Vendor to confirm
5	ERECTION AND COMMISSIONING		
5.1	The performance test to demonstrate the capacity and features of the machine, Geometrical tests if any shall be carried out at BHEL on the jobs provided by BHEL. The Bidder shall train BHEL Personnel in Operation and		Vendor to confirm

PART B: TECHNICAL SPECIFICATION FOR PILLAR TYPE DRILLING MACHINE

S. No.	PARAMETERS	SPECIFICATION	OFFER
	Maintenance of the Machine at BHEL works during commissioning. Successful prove out of machine capacity and performance will be considered as complete commissioning.		
5.2	Commissioning tools to be brought by supplier		Vendor to confirm
5.3	The Bidder shall depute his engineer(s) for supervising the erection and commissioning of the machine at BHEL Works. Service requirement like power, air & water shall be provided by BHEL at only one point to be indicated by Vendor in their foundation/layout drawings.		Vendor to confirm
6	DOCUMENTATION		
6.1	TWO sets of following documents (Hard copies) in English language should be supplied along with the machine		Vendor to confirm
6.2	Detailed Operation and Maintenance manual of machine with all drawings of machine assemblies / sub-assemblies With Part list and Part Nos and description. Coolant and Electric circuit diagrams.		Vendor to confirm
6.3	Catalogues, O&M Manuals and drawings of all bought out items, bearings wherever applicable.		Vendor to confirm
7	GENERAL		
7.1	Machine Space details		Vendor to specify
7.2	The equipment shall be guaranteed for a minimum of 12 months from the date of commissioning or 18 months from the date of despatch whichever is lower.		Vendor to confirm
7.3	Weight of the machine		Vendor to specify

PILLAR TYPE VERTICAL DRILLING MACHINE (25mm), Qty. 1 no.

PART - A

Section 1 - Qualifying Criteria

The BIDDER has to compulsorily meet the Qualifying Criteria indicated in Section 1 to get qualified. Otherwise the technical offer will not be considered.

Sl no.	Requirements	Vendor's Response
1.0	The Vendors should be in the field of manufacturing drilling machines since the last 5 years. Only those vendors (OEMs), who have manufactured, supplied and commissioned at least Two PILLAR TYPE DRILLING MACHINES of similar size or above are only eligible to quote. Such supplied machine should at present be working satisfactorily for at least one year after its commissioning (counted backward from the date of opening of this Tender). Along with the offer the Vendor should submit one performance certificate from any of their customers to whom such machine is supplied. A suggestive format for the performance certificate is given in Section 4 of Part-A of this Tender. Those vendors/OEMs who do not fulfil the above requirements are requested not to respond to this Tender.	
	The vendor should submit the following information	
1.1	Name and postal address of the customer or company where similar machine is installed. (latest five customers only)	
1.2	Name and designation of the contact person of the customers. (latest five customers only)	

1.3	Phone, FAX no. and email address of the contact person of the customers (latest five customers only)	
1.4	BHEL reserves the right to verify the above information provided by vendor. In case the information provided is found to be false/ incorrect, the offer shall be rejected.	

Section 2-The BIDDER / VENDOR is requested to provide the following information:-

Sl no.	Requirements	Vendor's Response
2.0	Specify details of such PILLAR TYPE DRILLING MACHINES supplied to other units of BHEL, if any (Year of commissioning &, Drilling Capacity etc.)	
3.0	Details on SERVICE-AFTER-SALES set-up in India including the Address of Agents / Service Centres in India.	
4.0	Any Additional data to supplement the manufacturing capability of the BIDDER for the subject equipment.	

Section 3-The BIDDER to note:

Sl no.	Requirements	Vendor's Response
5.0	The BIDDER / VENDOR shall submit the offer in TWO parts. 1. Technical Offer [with PART A & PART B] 2. Commercial Offer and Price bid.	
6.0	The Technical Offer shall contain a comparative statement of Technical Specifications demanded by BHEL and Offer Details submitted by the Bidder	
7.0	The Technical Offer shall be supported by copies of product Catalogues, Data Sheets and technical details of Bought out Items to the extent possible	
8.0	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the UnPriced Part of the Price-Bid, for confirmation.	

Section 4- Performance Certificate

The Performance certificate should be produced on Customer's Letter Head and submitted along with the offer.

1.0	Machine Supplied by (Manufacturer's name)		
2.0	Make & Model number of the Machine		
3.0	Month & Year of Commissioning (MM/DD/YY)		
4.0	Application for which m/c is used		
5.0	Machine Details		
5.1	Drilling Capacity(mm)		
5.2	Motor rating in HP		
6.0	Performance of the Machine (Please tick the appropriate option)	Satisfactory	
		Not Satisfactory	
7.0	Service after sales (Please tick the appropriate option)	Satisfactory	
		Not Satisfactory	
8.0	Other remarks (if any)		
Date:		Signature & Seal of the Authority Issuing the Performance Certificate	

PILLAR TYPE VERTICAL DRILLING MACHINE (25mm), Qty. 1 no.

PART B: Technical Specification

S No	PARAMETERS	SPECIFICATION	BHEL COMMENTS	VENDOR'S REPLY
1	MACHINE FEATURES			
1.1	Type	Pillar type vertical drilling machine	Vendor to confirm	
1.2	Drilling capacity in steel	upto 25mm drill hole size	Vendor to confirm	
1.3	Morse taper in spindle	MT3	Vendor to specify	
1.4	Spindle traverse	Min. 140 mm	Vendor to specify	
1.5	Pillar diameter	Rigid enough to drill 25 mm drill hole	Vendor to specify	
1.6	Distance between centre of spindle and Pillar front	Min. 250 mm	Vendor to specify	
1.7	Max. Distance between spindle and table	580 to 660 mm	Vendor to specify	
1.8	Max. Distance between spindle and base	1050 to 1200 mm	Vendor to specify	
1.9	Table working surface	Min. 320 mm diameter	Vendor to specify	
1.10	Base working surface	Min 320 x 300 mm	Vendor to specify	
1.11	Overall Base surface		Vendor to specify	
1.12	Overall machine height with guard		Vendor to specify	
1.13	No. of spindle speeds	Min. 8	Vendor to specify	
1.14	Range of spindle speed (RPM)		Vendor to specify	
1.15	Feed	By Hand	Vendor to confirm	

S No	PARAMETERS	SPECIFICATION	BHEL COMMENTS	VENDOR'S REPLY
1.16	Input power supply	3 Phase, 4 Wire, 415 Volt, 50Hz AC supply, Fourth wire earthed.	Vendor to confirm	
1.17	Electrical Circuit	1. Suitable MCB's shall be provided for protection of spindle motor and coolant motor. 2. Safety interlocks shall be provided for spindle CW/CCW operation. 3. Spindle direction to be selected with Forward, Reverse and Stop Switches. CC/CCW selector switches to be provided.	Vendor to confirm	
1.18	Power of spindle drive motor	1 H.P or above (around 1440 rpm, 3 phase)	Vendor to confirm	
1.19	Standard accessories	The Vendor to specify the standard accessories to be supplied along with the machine in their offer. If any of the following item is not covered in their standard supply those items are also to be supplied with the machine. 1. 25 mm Drill Chuck and key 2. Coolant Pump and tank with required accessories 3. Machine Lamp 4. Drill vice- 100 mm 5. Sleeve, Reducing Arbour 6. Suitable compound table 7. DOL starter of reputed make 8. One set of push-buttons/ selector switches used in machine (1 in each type) 9. Operation and maintenance tools required.	Vendor to confirm	

S No	PARAMETERS	SPECIFICATION	BHEL COMMENTS	VENDOR'S REPLY
2	MACHINE SPARES: Itemised List of mechanical and electrical spares essentially required for maintenance of the machine for 2 years period to be provided with the technical offer. Spares with price break up shall be submitted in sealed cover to MM/CE.		Vendor to specify	
3	INSPECTION: The Machine shall be offered for pre dispatch inspection and performance checking at Vendor's Works by BHEL Engineers. The factory Inspection report/Geometrical test charts if any shall be submitted to BHEL before PDI inspection.		Vendor to confirm	
4	FOUNDATION			
4.1	Required civil works will be done by BHEL for which Civil foundation details if any shall be provided by the supplier.		Vendor to specify	
4.2	Suitable Foundation materials, levelling pads to be provided.		Vendor to confirm	
5	ERECTION AND COMMISSIONING			
5.1	The performance test to demonstrate the capacity and features of the machine, Geometrical tests if any shall be carried out at BHEL on the jobs provided by BHEL. The Bidder shall train BHEL Personnel in Operation and Maintenance of the Machine at BHEL works during commissioning. Successful prove out of machine capacity and performance will be considered as complete commissioning.		Vendor to confirm	
5.2	Commissioning tools to be brought by supplier		Vendor to confirm	
5.3	The Bidder shall depute his engineer(s) for supervising the erection and commissioning of the machine at BHEL Works. Service requirement like power, air & water shall be provided by BHEL at only one point near the machine.		Vendor to confirm	

S No	PARAMETERS	SPECIFICATION	BHEL COMMENTS	VENDOR'S REPLY
6	DOCUMENTATION			
6.1	TWO sets of following documents (Hard copies) in English language should be supplied along with the machine		Vendor to confirm	
6.2	Detailed Operation and Maintenance manual of machine with all drawings of machine assemblies / subassemblies With Part list and Part Nos and description. Coolant and Electric circuit diagrams.		Vendor to confirm	
6.3	Catalogues, O&M Manuals and drawings of all bought out items, bearings wherever applicable.		Vendor to confirm	
7	GENERAL			
7.1	Machine Space details (Overall dimensions)		Vendor to specify	
7.2	The equipment shall be guaranteed for a minimum of 12 months from the date of commissioning or 18 months from the date of dispatch whichever is lower.		Vendor to confirm	
7.3	Weight of the machine		Vendor to specify	