

**BHARAT HEAVY ELECTRICALS LIMITED
HEEP, HARIDWAR
WEX-CNC**

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TENDER NOTICE

NIT No. : 20150018/CNC/BLK2/0-203

DT. 11/09/2015

Sealed open tenders on two parts (Techno-commercial & Price Bid) are invited from reputed retrofitters of machine tools for following work. Tender documents containing **Techno-Commercial Details as per Annexure-‘A’, Price Bid Format as per Annexure ‘B’ & MSME certificate format as per Annexure ‘C’** can be obtained from the office of the undersigned or can be downloaded from BHEL web site www.bhel.com & www.bhelhwr.co.in.

The tenders will be received up to **1:45 pm on 09.10.2015** in the Tender box at the following address:

**Tender Box
Tender Room
4th floor, Main Administrative Building
HEEP, BHEL, Haridwar
Uttarakhand 249403**

Techno-commercial bids will be opened on the same day at **2:00PM**. In case of leave/holiday on **09.10.2015**, tenders will be opened on next working day at the same time. After opening of **Techno-commercial bid**, the capability and suitability of the bidders shall be evaluated and **Price bid** of the qualified bidders shall be opened in the presence of the available bidders. The date of opening of Price bid will be informed to the qualified bidders.

NIT No. & Date	Name of Work	Earnest Money (Rs.)	Tender Cost (Rs.)
20150018/CNC/BLK2/0-203 DT. 11/09/2015	Retrofitting of Horizontal Borer, Plan No.2/0-203.	40,000/-	1000/-

1. Note :

- i) Tender cost (non-refundable) in the form of demand draft to be made in favor of Accounts Officer (cash), BHEL, HEEP, Haridwar, payable at

Haridwar. Offers without EMD and tender documents cost will be rejected and will not be considered for evaluation. However at discretion of BHEL HARIDWAR, Govt. of India / Central & State PSUs / State Govt. entities / Small Enterprises with validity of registration (under NSIC for similar type of work) on tender opening date may be exempted from submission of EMD and tender documents cost.

- ii) Tenderer's are requested to ink sign and put seal on all pages of tender document.
- iii) All subsequent amendments / changes shall only be notified on BHEL website
- iii) www.bhel.com & www.bhelhwr.co.in .

(Vinit Raj Tripathi)
Engineer (WEX-CNC)
HEEP, BHEL Haridwar

Name of work: Retrofitting of Horizontal Borer, Plan No.2/0-203
NIT no.: 20150018/CNC/BLK2/0-203 **Dated 11.09.2015**

Brief About Existing Machine:

Make & model: Sverdlov M/c building plant, Leningrad. USSR, 2620A. **Functions:** Drilling, Boring, countersinking, reaming, facing.

Headstock & Spindle feed (Y & Z Axes): Axis selection by mechanical axis change lever. Feed powered by Siemens 611 drive with 1FT5 motor with feed, set up & rapid functions. **Y-Axis:** Max vertical travel 1000 mm, Rapid adjusting Travel speed 2.2 m/min, **Z Axis:** Maximum axial travel speed 710 mm, Rapid travel 3.48 m/min, provision for disengaging facing head rotation & Simultaneous feed of tool slide and spindle. (Feed Motor Detail: Siemens brushless servomotor 1FT5102-1AF71-1AA0 Mo=27/33 Nm Mn=25 Nm Io=25/31A nN=3000/min Nmax=4500/min), **Facing head & Radial tool slide:** Maximum travel of facing head radial tool slide 170 mm, Rapid adjusting travel of radial tool slide 1.39 m/min Powered by the same motor fitted for headstock travel with feed, set up & rapid functions.

Table: No. of Axes 3 (U, V & B), Table Size: 1120x900. Max weight bearing capacity 2000 kg. Rotary movement powered with Siemens 611 with 1FT5 motor belts driven with inching & regular operation mode. Max Longitudinal 1150 mm & cross 1000 mm, Longitudinal & cross movement changed by lever, powered by lead screw from headstock base, Rapid travel speed 2.2 m/min Rotary swivel 2.8 RPM. (Rotary Motor Detail: Siemens brushless servomotor 1FT5102-1AF71-3AA0 Mo=27/33 Nm Mn=25 Nm Io=25/31A nN=3000/min Nmax=4500/min)

Total no. of AC servo motors : 2 (two)

Spindle Rotation: Powered by USSR make Double speed 3 phase Induction motor Type- A61-4/2, 1500/3000 RPM, 7.5 KW. Mechanical RPM shifting range (1-23 steps), Spindle RPM 12.5 – 2000 achieved by 23 gear steps and double speed of motor in both directions. Counter braking arrangement & inching function, spindle Diameter 90 mm. Spindle motor braking: Dynamic Braking Resistance Method.

Requirement: Retrofitting of machine with Latest PLC, Inverter duty induction motor and VFD drive, new operator panel, new electrical cabinet and complete rewiring of machine with field devices.

1.0 Scope of Supply:

Sr. No.	Item description	Qty	Vendor compliance	Remarks
1.1	SPINDLE ROTATION MOTOR: a) Flange mount inverter duty 3 phase induction 12 KW, 440 VAC, 50 Hz , RPM(max) 3500 of Siemens/ABB/CG/ GEC / Fuji/ YASKAWA make only. Frame size equivalent to USSR make A61-4/2. b) All the necessary attachments/extensions/flanges/pulley/coupling/ sleeve required for fitting new motor in place of the existing Russian motor.	1 set	Yes/No	Vender to provide details & comply
1.2	SWITCHGEARS FOR SPINDLE MOTOR CONTROL: a) 15KW VFD drive, Siemens/ ABB/ Fuji/ Yaskawa / telemecanique / Baumuller make to run AC induction motor at sl no. 1.1. b) Breaking unit/ resistance module of same make for above drive.	1 set	Yes/No	
1.3	HEADSTOCK LUBRICATION MOTOR a) 3 phase induction motor 1400 RPM, 0.27KW, 440VAC, 50 Hz of Siemens/ABB/CG makes only. Frame size equivalent to existing motor. b) All the necessary attachments/extensions/flanges/ pulley/coupling/ sleeve required for fitting new motor in place of the existing Russian motor.	1 set	Yes/No	
1.4	Pre-assembled cables for AC servo motors: Siemens / Lapp make preassembled cables for existing 1FT5 AC servo motor of approximate length 15 mtrs. a) Power cables ---2 nos.. b) Signal cables ---2 nos.	1 set	Yes/No	
1.5	DC Power supplies: Siemens/ Phoenix/ Schneider make regulated din mounted DC Power supplies, 1. 24V/5A for PLC CPU -----1 no. 2. 24V/10A for I/Os.-----1 no.	1 Set	Yes / No	
1.6	PLC: Latest Siemens/ABB/ Allen Bradley make PLC having 40 DI & 24 DO along with other accessories.	1 Set	Yes/No	

1.7	RELAY BOARD: Phoenix / Schneider make Relay module each with 8 relays to provide supply to field devices, contactors, indicating lamps etc.	4 set	Yes/No.	
1.8	<p>Operator panel: New operator panel overhead mounting swirling type to be installed at suitable height on operator platform near the machine having swivel facility to bring it nearest to machine headstock having all the existing functions, incorporating the following items:</p> <ul style="list-style-type: none"> a) Control On PB, control OFF PB, (illuminated type) Drive Reset Button, Emergency off PB b) Spindle rotation direction SS, inching & regular rotation SS, Spindle start PB, stop PB, etc c) Axes Creep/jog/rapid SS, Feed regulator POT single turn 10K/3W 2 nos. d) Table selector switch, inching & Regular SS, POT for speed regulation, e) M/c light SS & any other switch/function found necessary at the time of finalization of operator panel design. f) The control wiring for operator panel must be routed through fixed underground conduit pipes, only necessary wires for field devices/items must go inside the machine body. 	1 Set	Yes/No.	
1.9	<p>Electrical Panel:</p> <ul style="list-style-type: none"> a) Rittal make fitted with fans for proper cooling & Pre wired with PLC, Tube light for illumination while door opened, 5 Amp service socket, Electronic braking unit etc and provision to install existing servo drive system with filters & chokes. b) Rotary Power dis-connector of 100A rating for mains power switching On/off. c) Siemens/ Schneider/ GE / ABB make switchgear (Single phase preventer, MCBs, Overloads, Automats, Contactors, and Relays etc.) d) Control voltage isolation transformer (415V to 220V AC) for switchgears inside panel of suitable rating (control voltage must be 220 Volt inside the cabinet). e) Copper Cable of 3.5 cores of reputed make and suitable rating (approx 20 mtr length) routed through underground conduit for connecting Control panel to Main power supply along with proper laying and termination. f) Copper lugs and copper wires for wiring inside panel. g) Voltmeter & Ammeter with selector switch to monitor the line voltage & current. h) GI/MS Flat/wire for Earthling of whole machine along with panel to be connected to existing earthling point/column (approximate length 50m). 	1 Set	Yes/No	Vender to provide details and comply

1.10	ELECTRICAL WIRING AND CABLING Complete laying for the whole machine including all power cables for induction motors, power & signal cable for servo motor, control & signal cables for micro switches, Limit switches, pressure switches, indicating bulbs, TBs, JBs required for the commissioning of the above package. The cables and wiring is required to be of reputed make ie Lapp, Finolex etc.	1 Set	Yes/No	Vender to provide details and comply
1.11	LIMIT/MICRO SWITCHES/PUSH BUTTONS/ SELECTOR SWITCHES/ INDICATION LED: a) End Limit switches for headstock, Spindle feed, table cross & longitudinal movements. b) All of the Limit & Micro switches irrespective of its condition and location. The limit switches of Siemens/BCH/ L&T make only. c) Standard Push buttons / selector switches/ LED indication lamps of dia 22.5 mm / make Siemens/L&T only.	1 set	Yes/No	Vender to provide details and comply
1.12	Conduits: Metallic rubberized leak proof conduits with glands for all the cables including cables in the drag chain as well as control cables. Drag Chain: IGUS/ Kableschlepp make of suitable size and length for table longitudinal movement.	1 Set	Yes/No	Vender to provide details and comply
1.13	Machine lights: a) Portable LED machine lamp of 35Watt / 24V rating with magnetic base and on off switch with sufficient length of cable in rubberized metallic conduit.	1 Set	Yes/No	Vender to provide details and comply
1.14	Visual alarm metal sheet with LEDs for indicating cause of fault. Other miscellaneous items lugs, ferrules, aluminum tags for panels, din rails, cable clamps, glands etc.	1 Set	Yes/No	Vender to provide details and comply
1.15	Documents & backup: as per the following details: a) Hard copy of Electrical wiring, layout diagram, PLC program with cross reference and comments----- 3 copy each. b) Hard copy of drive's parameter , installation and commissioning and troubleshooting manual ----- 3 copy each. c) Hard copy of all the drawing of flanges / couplings used for motor mounting. ---3 copy d) Soft copy of all above documents and backup of final PLC program on 32 GB pen drive - 1 no. e) Software and cables required for taking back-up and editing of PLC program with USB port of Laptop. f) Software and cables required for taking back-up and commissioning of drive with USB port	1 set	Yes / No	Vender to provide details and comply

	of Laptop.			
1.16	Spares: a) Spindle Motor (same as at sl no.1) – 01 No. b) Drive and breaking unit / resistance (Same as at sl no. 2) – 01 No. c) Pre-assembled signal cable (same as at sr no. 1.4) ---1 no. d) PLC CPU and I/O modules - 1 No each type. e) 24VDC/10A power supply – 1 no. f) Push button, Selector switch, Potentiometer, Toggle switch, indicating lamps - 5 no. each type. g) Machine light (same as at sr. no. 1.13) – 01 No. h) Limit switches, Micro switches, Relays, Contactors, MPCB, Automate - 3 No each type. i) Fuses 10 nos each type.	1 set	Yes/No	Vender to comply
1.17	Vender has to supply all the material stated above in clause 1.1 to 1.20, even if it is not required in vender's scheme for retrofitting. Any other material required for retrofitting of the machine and not covered here has to be supplied by vendor without any cost to BHEL.			

2.0 SCOPE OF WORK

S.No.	Activities	Vender compliance (Yes/No)	Remarks
2.1	Dismantling and removal of old Electrical panels, operator panel switch gear along with old cabling and wirings.	Yes/no	Vender to comply
2.2	Cleaning of complete machine, trench and its accessories.	Yes /No	Vender to comply
2.3	Installation of new electrical panel along with the PLC. The Location of Electrical panels are as below: a) Single Main panel at the vacated position incorporating drives, switch gear for axis & table control, items required for machine spindle forward and reverse rotation & braking system, relays boards, PLC, switchgears etc with door mounted ACs of adequate capacity.	Yes/no	Vender to comply
2.4	SPINDLE MOTOR CONTROL: The spindle motor is to run at 2 fixed speeds (1500 RPM and 3000 RPM)	Yes/no	Vender to comply

	<p>depending upon selection of gear by operator. It should follow the below defined conditions:</p> <p>a) The motor will run in lower or higher RPM is decided by combination sequence of three micro switch individual positions.</p> <p>b) Command for stopping motor is to be ensured if gear is to be shifted without stopping the spindle rotation motor.</p> <p>c) If the micro switches combination decides to run motor in higher RPM, even in that case the motor starts in lower speed and later shifted to High RPM with the help of Timers.</p> <p>The motor switchgears must provide inching operation mode and should provide braking facility for instant stop when stop command is given.</p>		
2.5	<p>SAFETY INTERLOCKS:</p> <p>a) Any feed must not get started until the spindle is in rotation mode.</p> <p>b) The jog mode must be provided with spindle motor to ensure proper shifting and motor must take run command for regular mode after taking feedback of proper gear shifted.</p> <p>c) All of the axis (Y, Z, and U, V) travels must be interlocked with end limit switches to avoid any over travel to reach mechanical stops.</p> <p>d) The emergency button must off the complete control voltage to avoid any accidents.</p> <p>f) The main spindle rotation motor must stop if gears are disengaged for gears shifting.</p> <p>g) Any abnormality on the machine should be indicated by indicating lamp, PLC alarms.</p> <p>h) All of the operations/selections must have their indications on the control panel by illuminated type push buttons with LEDs.</p>	Yes/no	Vender to comply
2.6	<p>Design, manufacturing and Installation of new operator panel supplied as per 1.8 of Scope of Supply.</p> <p>Note: Vender has to get approval from BHEL for design & mounting system with location of new operator panel prior to its manufacturing.</p>	Yes/no	Vender to comply
2.7	<p>Complete Cabling and wiring of PLC, Drive system, spindle motors, Operator panel, field devices. Laying and routing of new conduits, cables from electrical panel to machine and operator console. Refurbishment and rewiring of all the terminal boards, Junction Boxes etc.</p>	Yes/no	Vender to comply
2.8	<p>Demonstration of all functional features of newly wired Machine. Prove-out of the auxiliary functions (facing head, tool slide, Table movement, lubrication of spindle gear box etc.).</p>	Yes/no	Vender to comply
2.9	<p>Development of total new electrical scheme to control the spindle rotation with braking and its interfacing with mechanical gear changing and ensuring of proper shifting.</p>	Yes /No	Vender to comply
2.10	<p>Complete wiring of Lubrication motor along with switchgears and synchronizing its operation simultaneous</p>	Yes/no	Vender to comply

	with spindle rotation.		
2.11	Design and development of any mechanical/ electrical / electronic modifications wherever / if required to execute the above work.	Yes/ no	Vender to comply
2.12	<i>Any minor work not covered in the scope of work but later found necessary for the completion of the retrofitting project shall be executed by vender without any additional charges.</i>	Yes/no	Vender to comply
3.	WARRANTY: Party shall stand warranty for all the supplied material and work done for a period of one year from the date of successful commissioning of the material and final acceptance as per clause no. 5&6.	Yes /no	Vender to comply
4.	TRAINING: Party shall impart training to BHEL staff for a) PLC programming to 1 Person for 1 weak at Vendor/ PLC Manufacturers works. b) Operations of machine to 4 no. of operators for 3 days at our works. Expenses for boarding & lodging of BHEL personal during training shall be borne by BHEL.	Yes/No	Vender to comply
5.	PROVE-OUT OF MACHINE FUNCTIONS : Demonstrations of following a) Spindle rotation functions in inching & regular mode, CW/CCW rotation, Single to double speed changeover and braking. b) All axes in feed, set up & Rapid function up to desired travel speed. c) Over travel limit switches.	Yes/No	Vender to comply
6.	FINAL ACCEPTANCE: Final Acceptance shall be at HEEP, BHEL, Haridwar after: a) Upon completion of the scope of supply and scope of work at BHEL as in clause1 and 2 above. b) Final acceptance shall include clearance of all pending issues related to the work contract as per satisfaction of Engineer- in – charge. c) Successful Demonstration of various functions as envisaged in the technical scope. After settlement of all pending issues related to work and supply, a certificate for Completion of works in all respect shall be released within 15 days by Production and Maintenance personnel of BHEL which will be the referred document for Final Acceptance and final payment to the vendor.	Yes / no	Vender to comply
7.0	DELIVERY: (IF DELIVERY PERIOD IS NOT OFFERED/ ACCEPTABLE, OFFER WILL NOT BE CONSIDERED FOR FURTHER PROCESSING)	Yes/ No	Vender to comply
7.1	Material: Max. 4 months from the date of signing of work contract. Early delivery shall be acceptable subject to approval by BHEL.		
7.2	Work : Within 20 days from the date of release of machine for work.		

8.0	<u>LATE DELIVERY PENALTY (LD) CLAUSE:-</u>	Yes /No	Vender to comply
8.1	Late delivery @ ½% per week subject to a maximum of 10% of the material cost including spare parts shall be applicable for delay in deliveries		
8.2	In case of delays in commissioning after handing over the machine as per clause 7.2 penalty @ 2% per week subject to a max. Of 10% of the Commissioning Charges shall be applicable for delay beyond scheduled completion of work for reasons attributed to the party. Net delay for the purpose of calculating late commissioning will be considered as the delay in work completion.		
8.3	However total LD on account of clause 8.1 & 8.2 will be limited to 10% of work contract award value.		
8.4	The time period from invitation date for Pre dispatch inspection from vendor to the date of arrival of pre dispatch team to vendor's works and any other reasons attributed to BHEL will not be accounted in delivery period. This period will be excluded for the purpose of calculating LD. Vender should intimate regarding PDI, at least 7 days in advance.		
9.0	<u>PRE-DISPATCH INSPECTION:</u>	Yes/No	Vender to comply
9.1	Pre-dispatch inspection of all the items covered under Scope of Supply clause 1 shall be carried out by BHEL representatives at party's works.		
9.2	Supplier shall formally invite BHEL for carrying out pre- dispatch inspection.		
9.3	Before inviting BHEL for pre dispatch inspection vender will submit Bill of material for material under SOS with at least 7 days prior notice and copy of electrical drawing/ schematic of machine to BHEL.		
9.3	Deputed BHEL persons will do pre acceptance at vendor works and give despatch clearance.		
9.4	Expenses of Boarding and lodging of BHEL personnel during PDI shall be borne by BHEL.		
10.0.	<u>EARNEST MONEY DEPOSIT (EMD):</u>	Yes/No	Vender to comply
10.1	Vendors have to deposit Rs 40,000/- as the EMD. EMD may be deposited in cash (as permissible under Income tax Act), through pay order or demand draft in favor of Account officer, HEEP, BHEL, Hardwar payable at Haridwar only. The exact value EMD will be declared in tender document.		
10.2	EMD May be converted to security deposit if the work is awarded.		
10.3	EMD of unsuccessful vendors shall be refunded back normally within fifteen days of acceptance of award of work by the successful vender.		
10.4	EMD shall not carry any interest.		
10.5	EMD by vender will be forfeited as per tender document, if a) After opening the tender, the tenderer revokes his tender within the validity period or increases his earlier quoted rates.		

	b) The tenderer does not commence the work within the period as per LOI/contract.		
10.6	<p>Offers without EMD will be rejected and will not be considered for evaluation.</p> <p>However “The units registered under Single Point Registration Scheme of NSIC are eligible to get the following benefits under “Public Procurement Policy for Micro & Small Enterprises (MSEs) Order 2012” as notified by the Government of India, Ministry of Micro Small & Medium Enterprises, New Delhi vide Gazette Notification dated 23.03.2012.</p> <ul style="list-style-type: none"> • Issue of the Tender Sets free of cost; • Exemption from payment of Earnest Money Deposit (EMD). <p>Note: - MSE suppliers can avail the intended benefits only if they submit along with their offer, attested copies of EM-II certificate having deemed validity (five years from 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 Annexure –‘C’ attached where deemed validity of EM – II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining deemed validity will be the date of bid opening (Part 1 in case of two part bid). Non submission of such documents will lead to consideration of bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiencies in above required documents are not submitted before price bid opening. If tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal.”</p> <p>Documents should be notarized or attested by Gazetted officer.</p>		
11.0	<u>SECURITY DEPOSIT (SD):-</u>	Yes /No	Vender to comply
11.1	Successful vendor shall deposit security. The rate of security deposit will be as below:		
	<ul style="list-style-type: none"> • For work Up to Rs 10 Lakhs : <u>10% of work order value</u> • Above Rs 10 Lakhs upto Rs 50 Lakhs : Rs <u>1 Lakh + 7.5% amount exceeding Rs 10 Lakhs</u> • Above Rs 50 Lakhs: Rs <u>4 Lakhs + 5% amount exceeding Rs 50 Lakhs</u> 		
11.2	The security deposit should be submitted before the start of work in the following forms:		
	i) Cash (As permissible under the Income Tax Act)		
	ii) Pay Order / Demand Draft in favour of Account officer, HEEP, BHEL, Hardwar payable at Haridwar		
	iii) Local cheques of Scheduled Banks, subject to realization.		
	iv) Bank Guarantee from Scheduled Banks/Public Financial Institution as defined in the companies Act. The Bank guarantee format should have the approval of BHEL.		
11.3	Security Deposit shall not carry any interest.		

11.4	EMD of successful tenderer can be converted and adjusted against the Security Deposit.		
11.5	100% of the Security Deposit amount shall be refunded to the vendor after final acceptance of the machine. SD shall be released after the submission of Performance Bank Guarantee(PBG) by the vendor		
12.0	Performance Bank Guarantee (PBG):	Yes / No	Vender to comply
12.1	Vendor shall be required to submit a performance bank guarantee (PBG) for 10% of the total work order value which shall be valid for a period of 12 months from the date of Final acceptance of machine.		
12.2	The PBG shall be submitted on a non-judicial stamp paper of value not less than Rs.100/- issued by any one of the nationalised banks.		
13.0.	PAYMENT TERMS: (Note : No advance payment shall be made to the vendor.)	Yes /No	Vender to comply
13.1	Part payment will be made after completion of following milestones a) First payment of 80% of material cost along with 100% taxes & duties (Excise duty, CST/VAT as applicable) shall be payable after receipt of material at HEEP, BHEL, Hardwar. Vendor to ensure that all relevant documents are submitted. b) Final payment of balance 20% of material cost, 100% of commissioning cost including service taxes as applicable. Refund of 100% of the Security Deposit amount will be made after final acceptance, subject to submission of PBG as per point '12.0'		
13.2	All the payments shall be made through e-payment after submission of following documents along with first bill. a) E-payment form duly filled (Form will be provided by BHEL) b) Income tax exemption letter (if applicable).		
13.3	Excise duty & CST/VAT will be paid on material cost and service tax will be paid on commissioning charges at actual. Related original documents to be submitted for availing MODVAT credit by BHEL.		
13.4	Timely submission of CENVATABLE invoices along with necessary documents to enable availment of CENVAT (Excise duty, Service Tax & VAT) credit by BHEL. Note: Wherever CENVAT credit cannot be availed within given time limit due to delay in submission of invoices or for any other reasons attributed to vendor, loss of such CENVAT credit will be recovered from such vendor.		
14.0	Risk Purchase Clause : In case of delays in supplies / defective supplies or non-fulfillment of any other terms & conditions given in the work order the purchaser may cancel the work order in full or part thereof and may also make the purchase of the material / service from elsewhere / alternative source at the risk	Yes / No	Vender to comply

	and cost of supplier. If vendor does not agree to above clause, their offer is liable to be rejected. In case any vendor accepts risk purchase clause initially and subsequently declines to honor the term in the eventuality of RISK PURCHASE, they may be banned for business with BHEL.		
15.0.	<u>VENDOR'S OBLIGATION:</u>	Yes/no	Vender to comply
	The vendor shall bring all types of hand tools including pneumatic/electrical drill machines, Laser equipment's, and grinders along with general purpose measuring instruments and testing equipment with them for successful commissioning of the machine & supplied system.		
16.0	<u>Commercial Terms:</u>	Yes/ No	Vender to comply
16.1	Prices shall be quoted on "Firm Price" basis only. The prices should only on F.O.R BHEL, Haridwar basis inclusive of Packing, Forwarding charges, freight & insurance. Installation & Commissioning Charges, applicable % of ED, VAT, Sales Tax, and Service tax should be clearly indicated in attached price bid format as per annexure-B.		
16.2	Validity of offer shall be for a minimum period of 120 days from the date of Tender Opening.		
16.3	The material will be dispatched to Central Plant Stores, HEEP, BHEL, Haridwar, with instructions to forward the same to Engineer-in-charge of this work BHEL, Haridwar.		
17.0	<u>BHEL'S OBLIGATION:</u>	Yes / No	Vender to comply
17.1	Existing / retrofitted electrical schematic of the machine shall be provided by BHEL to the vendor.		
17.2	Crane facility and lifting tackles like slings, rope, D-Shackles shall be made available while working in BHEL premises only.		
17.3	Facilities of minor welding, brazing, minor machining facility required for rectification/fitting of supplied material, subject to the extent available in BHEL, shall be provided in BHEL premises only.		
17.4	Any civil work required for the erection of panel shall be done by BHEL.		
17.5	Electrical Input Power Supply: 415 volt \pm 10 %; 50 Hz, 3 phase, 3 wire A.C. power supply, water & Compressed air at a pressure of 5 kg./cm ² shall be provided by BHEL at one point only.		
17.6	The above requirements should be informed by the vendor in advance.		
17.7	Consumables like lubricants, kerosene oil, cotton waste etc. will be supplied free of cost by BHEL during execution of works inside BHEL premises.		
18.0	<u>GENERAL CONDITIONS:</u>	Yes / No	Vender to comply
18.1	A point wise compliance statement shall be submitted by the party with reference to the above scope of supply against each clause/ sub-clause with relevant details & comments. Non-compliance to any of the		

	clauses & quoting inadequate quantity can lead to dis-qualification of the offer.		
18.2	The Vendor is advised to inspect the machine prior to quoting to ascertain all the relevant details required for successful completion of the work.		
18.3	The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com		
18.4	The award of works will be made on basis of the lowest total of Material cost, Commissioning charges and all taxes, duties as applicable i.e. Cost to BHEL.		
18.5	The Vendor should submit their best price at this stage itself and they will not be allowed to revise the price. Any revision / discount given by the vendor subsequently will be ignored.		
18.6	RULES AND REGULATIONS OF THE CENTRAL/STATE GOVERNMENT: In the event of award of any contract, vendor will have to comply and abide by all the laws/enactment of state and central government. Documents regarding registration with Sales Tax and Excise authorities may also to be forwarded along with income tax clearance.		
18.7	BHEL reserves the right to reject the lowest or any tender or accept any tender in full or in part without assigning any reasons whatsoever.		
18.8	If any information/documents submitted by the vender are found false/fake at any stage, the tender submitted by the vender will be cancelled and earnest money deposited shall be forfeited debarring from the future participation in tenders.		
18.9	In case more than one contractor quotes equal L-1 rates, lottery shall be drawn among L-1 parties to decide one L-1 party.		
18.10	Conditional tender is likely to be rejected.		
18.11	The risk of delay/loss by post/courier rest with the bidder.		
19.0	OFFER: - The offer should be submitted in two parts and in following manner.	Yes / No	Vender to comply
19.1	Techno-commercial Bid : a) The envelop shall contain the Techno-commercial Bid (ANNEXURE 'A') with technical details and commercial terms & conditions along with Unpriced price bid as per ANNEXURE 'B' with clear undertaking that no deviation from BHEL's price bid format , relevant documents like copies of ESI, PF code, PAN No., Service Tax Reg. No., TIN No., CST No., Experience Certificates, Audited Balance Sheet of last 3 years, Tender fees, EMD and all the documents related to clause 21 (Demand draft for tender document cost shall also be accompanied in case tender documents are down loaded		

	<p>from BHEL website. Offers without the EMD and Tender fee will not be considered except having valid NSIC certificate).</p> <p>b) The envelop shall be super scribed with “Techno-Commercial Bid”, Name of work, NIT No. and Date of opening.</p> <p>c) Point-wise compliance of this scope of supply and work is to be given by vendors while submitting their techno-commercial offer in the format provided by BHEL. Each page of the compliance list has to be ink signed & stamped by the vendor.</p> <p>d) The vendor must note that no prices are to be quoted/ mentioned in the techno-commercial offer.</p> <p>e) All of the documents related to EMD exemption and PQR qualifying criteria must be putted in Techno-commercial bid envelope.</p>		
19.2	<p>Price Bid :</p> <p>a) The second envelope shall contain only the price bid with separate price for material and work & applicable taxes & duties on Price Bid Format only as per ANNEXURE ‘B’.</p> <p>b) Any other information in the price bid shall not be considered and the quotation is likely to be rejected. Price bid document shall be ink signed & stamped by the bidder at the bottom of the page.</p> <p>c) The envelope shall be sealed and super scribed with “Price Bid”, Name of work & NIT No.</p> <p>d) Price bids of techno commercially accepted vendors shall be opened (In presence of available vendors at the time of opening).</p>		
19.3	<p>Both the envelopes shall be kept in another sealed cover. The cover shall be super-scribed with “Tender for (name of work), NIT No. & due date” and shall be submitted in the “Tender Box, placed at Tender Room, at 4th Floor, Main Administrative Building, HEEP, BHEL, Haridwar -249403, Uttarakhand” and it should also contain the Bidder’s name and contact address.</p>		
20.0	<p>Packing: Supplier shall arrange for adequate protection and packing of the consignment so as to avoid loss and damage during transit and also take appropriate measures to prevent metal parts from rusting and corrosion during transit. Handling instructions shall be clearly printed /painted on the packages. Each package should carry a detailed packing slip with item names.</p> <p>Supplier shall be responsible for any loss/damage during transit due to defective/inadequate packing. Any item which is damaged must be replaced with new one, repairing is not acceptable.</p>		

21.0	PRE QUALIFYING CONDITIONS: Offer only from the venders meeting the following conditions will be processed further.	Yes / No	Vender to comply
21.1	Average Annual financial turnover during the last 3 years, ending 31st March 2015, should be at least Rs 4.3 Lacs . Vendor should submit Audited balance sheets for the last three years along with techno commercial bid.		
21.2	<p>The Vendor must have successfully completed the similar projects during last seven years ending 31st December 2014 and these projects should fulfill either of the following:</p> <p>a. Three similar projects with each project costing not less than Rs 5.7 Lacs. or b. Two similar projects with each project costing not less than Rs 7.17 Lacs. or c. One similar project with project costing not less than Rs 11.48 Lacs.</p> <p>Similar project means retrofitting of a Similar PLC / CNC with similar integrated PLC & drive on Horizontal Borer / Horizontal Machining Centre.</p>		
21.3	The above retrofitted machines should be running satisfactorily for at least 6 months prior to 28 th Feb 2015. Vendor to provide P.O./ W.O copies and commissioning / performance certificates / relevant MOM for satisfactory operation of the above retrofitted systems along with name, address & contact details of their customer. BHEL reserves the right to verify the information provided.		

Price Bid format

Name of work: Retrofitting of Horizontal borer, Plan No.2/0-203,

Vender details:

Sl. No.	Description of item	Unit	Qty	Basic Rate (in Rs.)	Excise Duty (in %)	VAT/CST (In %) (VAT with FORM-17 or CST with C-FORM)	Service Tax (In %)	Value (in Rs.)
1	Material	Set	01		%	%		Rs.
2	Installation & Commissioning	Set	01					Rs.
	TOTAL COST							Rs.

Signature & Seal of Vendor

Certificate by Chartered Accountant on Letter Head

This is to certify that M/s (hereinafter referred to as ‘company’) having its registered office atis registered under MSMED Act 2006, Entrepreneur Memorandum No. Part –IIDtd: Category: (Micro/ small). (Copy enclosed).

Further verified from Books of account that the investment of the company as per the latest audited financial year..... 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 Ministry of small scale Industries vide its notification No. S.O. 1722(E) Dtd. October 5 , 2006):

Rs. Lacs

2. For Service Enterprises: Investment in equipments (i.e. 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 MSMED Act, 2006):

Rs. Lacs

(Strike off whichever is not applicable)

The above investment of Rs..... Lacs is within permissible limit of Rs.....Lacs for..... (Micro/ small) (Strike off whichever is not applicable) category under MSMED Act 2006.

Or

The company has graduated from its original capacity (Micro/ small) (Strike off whichever is not applicable) and date of graduation of such enterprise from its original capacity is..... (dd/mm/yy) which is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide S. O. No. 3322 (E) dated 01.11.2013 published in the gazette notification dated 04.11.2013 by ministry if MSME.

Date:

(Signature)

Name-

Membership No.-

Seal of Chartered accountant