



# Heavy Engineering Corporation Limited

(A Govt. of India Enterprise)

Heavy Machine Tools Plant  
Purchase Department, Adm. Bldg.,  
1<sup>ST</sup> Floor,  
Dhurwa, Ranchi-834004  
Email: purhmt@hecltd.com

Phone: 0651-2401340

No. HTP/PUR/172768/LC100/SPARE/0401/AS/20-004

Date: 15.06.2020

To

M/s.....

Dear Sir,

We request you to submit your most competitive offer for the following items/services as per the given schedule:

## ENQUIRY SCHEDULE

Sl.No.	Item Description	(Qty)	Make
1.	Detailed Specification as per "Annexure- A".		Siemens

Schedule of Tender receipt: by **30/06/2020**, upto 01:00 PM

Opening of Tender: on **30/06/2020**, at 03.00 AM

TENDERS must be submitted in sealed cover with Tender No. and the Due date super scribed on it failing which Tenders may be ignored.

### Offers to be submitted in Two Part bid.

1. Techno-commercial bid in separate envelope super scribed Part-1 (Techno – Commercial).
2. Price Bid separate sealed envelope super scribed Part-2 (Price Bid)

Tenders received after due date without any prior intimation will not be entertained.

### Special Instructions:-

- i) To arrive at comparable landed cost following shall be taken in consideration:-
  - a) Taxes & Duties
  - b) Packing & Forwarding Charges.
  - c) Insurance.
  - d) Freight
  - e) Possible CENVAT credit.
  - f) Terms of Payment.

### NOTE:-

1. The rate shall be inclusive of all Packing and Forwarding. If Freight charges are extra than the amount or percentage to be mentioned separately.
2. The price quoted by tenderer should be exclusive of Tax. The rate and nature of Tax applicable should be shown separately. Tax will be paid to the seller at the rate at which it is liable to be assessed or has actually been assessed on the date of supply provided the transaction of sale is legally liable to GST and within the delivery period. Any change on the taxes and duty structure beyond the delivery period will not be considered by HEC.
3. The rates quoted must be firm and the offers made must remain open for acceptance up to **two months** from the date of opening of the tender.
4. Quotations erased or over written are likely to be rejected unless all corrections are authenticated with the **tenderer's signature**.
5. Delivery 02 months from the date of P.O.
6. **Payment Term : 100% payment within 60 days after receipt of material at HMT stores against CRV. Rate of interest will be loaded on the firm for the payment term offered other**

**than a specified, for calculating landed cost to decide L-1 status will be 1% per month i.e 12% per annum (Maximum).**

7. Full particulars i.e. specification, literature and/or drawing wherever applicable should be submitted along with the quotation. The brand and 'Make' name must be indicated.
8. The Corporation reserves to itself the right of accepting the whole or any part of tender or portion of the quantity offered and you shall supply the same at the rate quoted.
9. Supplies will be subject to Inspection by our Inspection wing /or inspection agencies prescribed by us.
10. Order placed as a result to this tender will be subject to the Corporation's General Terms and Conditions of contract which can be downloaded from our website ([www.hecltd.com](http://www.hecltd.com)).
11. Corporation reserves the right to call for and examine at any time the books of accounts and other documents and papers of the firm for the purpose of ascertaining whether any excess payments has been made or the firm likely to be received/received undue benefit out of execution of the particular contract.
12. **Earnest Money – Nil.**
13. **Security Deposits – @5% order value.**
14. **Delivery :** The time for and the date of delivery of the Stores stipulated in the acceptance of tender shall be deemed to be the essence of the contract and delivery must be completed not later than the dates specified therein. Otherwise :
  - a) The purchaser to recover from the contractor a sum of 0.5% per week (completed week) of the price of the stores (upto maximum 10%) as liquidated damages, which the contractor has failed to deliver as aforesaid or
  - b) The purchaser may procure the undelivered stores / similar items from elsewhere, without notice to the contractor at the risk of the contractor without canceling the contract in respect of the consignment not yet due for delivery or,
  - c) To cancel the contract or a portion thereof.
15. **Guarantee/Warranty must 24 month from the date of supply.**
16. There is no obligation on our part to accept delayed/late tenders. Tenders received after the due date of the opening are liable to be rejected.
17. The rates quoted shall also be inclusive of embossing on the materials. The Ownership namely **HMTP** should be at a predominant place of the material to a size / thickness upon the volume of the material.
18. Inspection to be done at HMTP by QCA or QCA authorised agency.
19. Any deviation from NIT terms & conditions may kindly be specified clearly in the quotation.
20. **As per the Govt. guideline it is to be specified clearly in your offer that the firm is NSIC/MSME/SSI and also confirm whether the firm is owned by SC/ST/Women entrepreneurs.**
21. Cost of tender documents Nil
22. Procurement shall be in **PACKAGE** i.e. overall L1 bidder of all items, including taxes & duties, transportation, taxes & duties and other amount payable if any.
23. Please fill the commercial terms & conditions “**ANNEXURE B**” and attach with the techno-commercial bid.

## “Annexure – A”

### NOTES TO THE BIDDER:

1. Point wise reply to the notes to the bidder, technical specifications and BOM has to be submitted along with offer.
2. Wherever Type Number of the equipment is not specified in BOM, Same has to be specified by the bidder while submitting the offer.
3. Any equipment, rating of the equipment, type number of the equipment has to be modified/newly incorporated in the BOM for the successful Interfacing/commissioning of the Drive package according to the functional requirement of the Center lathe has to be incorporated in the submitted BOM only after discussing with M/s HEC Limited.
4. For any Technical queries/clarification or to understand the application of spindle rotation in center Lathe using the above mentioned DC motor, bidder can contact M/s HEC Limited.
5. Any items related to drive package a, if required additionally at the time of interfacing, wiring, commissioning and testing of the same with machine have to be supplied by the bidder at free of cost.
6. If the specified documentation in BOM is not available in hard copies, Soft copies of the documentation have to printed, book binded and have to be supplied as per approved BOM.
7. Offers are liable to be rejected, if found incomplete or not adhered to the notes and specifications mentioned in the tender.

## TECHNICAL SPECIFICATIONS:

1. Drive package should include the complete hardware and software with license to control the following mentioned 1 No. of DC Motor with start – up tool, mounting and other accessories, documentation to suit the operational requirement of Centre Lathe Machine

Type - **SINAMICS DCM**, Make – **SIEMENS**

The Specification of DC motor are as follows:

1) Rated Output	:	20 KW
2) Class of Duty	:	S1(Continuous)
3) Rated Armature voltage	:	400V DC
4) Rated Armature current	:	57 Amps
5) Rated Field voltage	:	220V DC
6) Speed at constant torque	:	800 RPM
7) Speed at constant power	:	800-2800 RPM
8) Rated field current at base speed:	:	5.9 Amps
9) Rated field current at top speed:	:	1.0 Amps
10)Type	:	Stabilized shunt wound with separate excitation
11)Insulation	:	Class F
12)Speed control	:	DC variable speed drive type controlled through (+/-) 10V DC reference voltage.

2. Drive package is excluding the above-mentioned DC Motor
3. Drives should be capable of controlling all the motors through both +/-10V analog set point through potentiometer
4. Drive should be capable of Field weakening operation for speed control greater than base speed.
5. Drive should be capable of regenerative braking operation.
6. Drive should be capable of taking speed feedback from analog tacho generator for speed control.
7. Rated output DC current of drive – 90 Amps
8. All equipment's supplied must be suitable for power supply 415 +/-10% V AC, 3 Phase, 50+/-3% Hz and for atmospheric conditions of 50 Deg. Max temperature, 90% Humidity, Height <4000 above MSL.

**BOM:**

SN	Description	Type No.	Qty./ M/c.
1	<b>DRIVE PACKAGE</b>		
1.1	<b>DRIVE UNIT</b> SINAMICS DCM DC CONVERTER FOR 4- QUADRANT DRIVES CIRCUIT (B6) A (B6) C INPUT: 400V 3AC, 75A CONTROLLABLE: FIELD RECTIFIER D420/90 MREQ-GEG6V62 OUTPUT: 420 V DC, 90A WITH BOP & S01=MEMORY CARD ON THE LEFT	6RA8028-6DV62- 0AA0-Z, Z: S01	1 No.
1.2	<b>COMMISSIONING SOFTWARE</b> STARTER COMMISSIONING TOOL FOR SINAMICS AND MICROMASTER V5.4 OR LATEST	6SL3072-0AA00-0AG0	1 Set.
1.3	<b>DOCUMENTATION (HARD COPY)</b> 1.SINAMICS DCM List Manual 2. SINAMICS DCM operating instructions Manual 3. SINAMICS free function blocks, function description	6RX1800-0GD76	3 Sets
1.4	<b>DRIVE-LAPTOP COMMUNICATION CABLE</b> DRIVE-LAPTOP COMMUNICATION CABLE FOR THE QUOTED DRIVE TO LAPTOP WITH CONNECTOR ON BOTH ENDS, LENGTH- 5 METERS.	LAN CABLE WITH RJ45 SOCKETS ON BOTH SIDES	1 No.
1.5	<b>COMMISSIONING</b> COMMISSIONING AND TESTING OF COMPLETE DRIVE PACKAGE ON NO LOAD AND LOAD CONDITON AT CUSTOMER'S PREMISES (MCF, TALCHER, ODISHA)		

<b>S. N</b>	<b>Terms &amp; Conditions</b>	<b>HEC's Requirement</b>	<b>Bidders Comment</b>	<b>Remarks</b>
1	Price Term -Ex-works/FOR HMTP	FOR HMTP Stores, Ranchi.		
2	Packing & Forwarding (Extra/Included/Not applicable)	To be indicated if any.		
3	Taxes & Duties	To be indicated separately.		
4	Payment Terms :	100% payment within 60 days after receipt of material at HMTP stores against CRV.Rate of interest will be loaded on the firm for the payment term offered other than a specified, for calculating landed cost to decide L-1 status will be 1% per month i.e 12% per annum (Maximum).		
5	Validity of Offer	Two months.		
6	Price Variation Clause	Not acceptable (To be accepted by the firm)		
7	Delivery Schedule	Within 2 months from the date of P.O.		
8	Inspection	By QCA/HMTP or his authorised agencies at supplier's premises or at HMTP Ranchi		
9	Freight Charges if Ex-Works	To be quoted separately.		
10	Security Deposit	@ 5% of the P.O. value to be deposited separately within 21 days after placement of order by HEC which shall remain with HEC till the completion of order by the firm.		
11	Warranty	24 months from the date of supply.		
12	Liquidated Demurrage	To be accepted as per NIT.		
13	Acceptance of Risk purchase clause.	To be accepted as per NIT.		
14	Confirmation of supplying the material as per NIT.	Yes		
15	Corporation's General Terms and Conditions of contract	To be accepted.		
16	All NIT conditions are acceptable.	To be accepted.		