

**BHARAT HEAVY ELECTRICALS LIMITED  
RAMACHANDRAPURAM: HYDERABAD – 502032  
M&S/10-REPAIR SHOP**

Phone No.: 040--23185324

E-mail: [mbchandana@bhel.in](mailto:mbchandana@bhel.in)

**TENDER NOTICE NO.: HY/M&S/10-RS/RC/20-21/B-32/0611/1**

**Date: 06.11.2020**

Bharat Heavy Electricals Limited, a Government of India Public Sector Undertaking having its registered office at Siri Fort, New Delhi through BHEL-HPEP, Ramachandrapuram, Hyderabad, one of its manufacturing units, invites sealed tenders in two-part bid (Part-A: Techno-commercial Bid & Part-B: Price Bid) from eligible contractors, who fulfill the qualifying criteria as stipulated in the NIT for the work of **“Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117)” as per scope of work, terms & conditions enclosed.”**

Sealed quotations in a single cover consisting of two inner sealed covers (containing **Part-A: Techno-commercial Bid** and **Part-B: Price Bid** superscribing **Collective Number: N0ATX00360 dated 20.11.2020**, Tender Notice Number, Tender Date, Name of Work, Due Date of Opening, Part A: Techno-commercial Bid or Part B: Price Bid on top of cover) will be received upto 11.00 AM on or before 12.12.2020 at Vendor Complex, Besides Administrative Building, BHEL-HPEP, Ramachandrapuram, Hyderabad-502032. Part A: Techno-commercial Bid will be opened at 14.30 PM on the due date in the presence of bidders or their authorized representatives. Further information if any, may be obtained from the office of the undersigned. Reverse Auction (RA) will be conducted online among techno-commercially qualified bidders through our service provider to arrive at optimum cost.

|  |   |
|--|---|
| 1. Name of work                        | : “Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117)” as per scope of work, terms & conditions enclosed |
| 2. Earnest Money Deposit               | : <b>Rs. 44,600/-</b>   |
| 3. Estimated Cost to BHEL              | : <b>Rs. 22, 30,000/- + GST as applicable.</b>  |
| 4. Cost of Tender documents            | : NIL   |
| 5. Tender sale starts from             | : Not applicable  |
| 6. Tender sale closes on               | : Not applicable  |
| 7. Last date of receipt of tenders     | : 12.12.2020 up to 11.00 AM   |
| 8. Date and time of opening of tenders | : 12.12.2020 at 14.30 PM<br>(Part-A: Techno-commercial bid only)  |

**Name & Address of the firm:**

for BHARAT HEAVY ELECTRICALS LIMITED

-/

**(CH MALLI BABU)**  
DGM/ 10-RS, RC, AC & RW (M&S)

**INSTRUCTIONS TO TENDERER**

1. The bids shall be submitted in two parts.
  - a) Part-A: Techno-commercial Bid (to be submitted in sealed cover)
  - b) Part-B: Price Bid (to be submitted sealed in cover)
2. Part-A must be duly completed and super-scribed "**Collective Number: N0ATX00360 dated 20.11.2020, Tender Notice Number, Tender Date, and Part-A: Techno-commercial Bid**". The tenderer shall not indicate the price or rate in the Part-A: Techno-commercial Bid. The tenderer shall expressly accept all the terms and conditions of the tender. The tender which does not comply with the BHEL terms & conditions may be rejected as non-responsive/non-conforming/ and non-acceptable.
3. Part-B must be duly completed with reference to the tender conditions and put in a separate sealed envelope and super-scribed "**Collective Number: N0ATX00360 dated 20.11.2020, Tender Notice Number, Tender Date, and Part-B: Price Bid**".
4. The Techno-commercial Bid (Part-A) and general terms and conditions shall be attached to Techno-commercial offer with each and every page duly signed and stamped by the tenderer (at the bottom of each page) as a token of acceptance.
5. The Price Bid (Part-B) shall not carry any conditions. Price/rate should be quoted in clear terms in the format given by BHEL. The price/rate should be quoted in figures as well as in words. If there is a discrepancy between figures and words, the amount in words shall prevail.
6. The Price Bid (Part-B) will be opened in respect of those tenderers, who are qualified techno-commercially.
7. The tender forms of both Part-A & Part-B duly filled in all aspects and shall be signed and stamped on each page of the tender document by the tenderer. The tenderer should submit the tender documents intact without detaching any page or pages. All entries in the tender document should be in one ink. Corrections, over-writings, cuttings etc. are not permitted.
8. All the columns in the tender form shall be filled without leaving any column blank in any page of the tender document. In case any of the columns left blank, the tender is liable to be rejected.
9. Before making of the offer, the tenderers are advised to carefully go through the terms and conditions, which form part of the Agreement.
10. Tender documents consisting of Part-A and Part-B duly sealed in separate envelopes should be sealed in another envelope and should be deposited in Vendor Complex, Besides Administrative Building, BHEL-HPEP, Ramachandrapuram, Hyderabad-502032 addressed to CH MALLI BABU, DGM/10-RS, AC (M&S), BHEL, Ramachandrapuram, Hyderabad-502032 so as to reach on or before 11.00 AM on 12.12.2020. The tender documents may also be sent by registered post/speed post/courier so as to reach on or before the said date and time. BHEL is not responsible for any postal delay or other delays. Part-A of tender form i.e. Techno-commercial Bid will be opened at 14.30 PM on the due date in the

**Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117) of 01-Block  
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presence of tenderers or their authorized representatives who are present for the tender opening. Tenderers who qualify in Techno-commercial Bid will be intimated to attend the tender opening of Part-B: Price Bid, at a date to be notified separately. Part-B: Price Bid will be opened at the specified date in the presence of tenderers or their authorized representatives who are notified to attend the tender opening,

11. BHEL reserves the right to assess the capacity and capabilities of the parties for pre-qualification. The company also reserves the right to accept or reject any or all the tenders or any part thereof at any stage of process without assigning any reason whatsoever. The company has no obligation to accept the lowest tender.
12. **Reverse Auction:** BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on [www.bhel.com](http://www.bhel.com)) for this tender. RA shall be conducted among all the techno-commercially qualified bidders. Part B: Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA. In case any bidder(s) do/does not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.
13. For any further clarifications, SHRI A KUMARA AYYAPPA, Dy. Manager/10-RS, AC (M&S), BHEL, Ramachandrapuram, Hyderabad-502032 may be contacted in person or through phone numbers: 040-23182551, 9848998735, 8328662100

## **EMD Payment**

**EMD of 2% of the Estimated Cost (i.e. Rs. 44,600/-) shall be paid in as cash deposit in BHEL cash office or by Electronic Fund Transfer (EFT) to BHEL Account Number: 62048154115 (IFS Code: SBIN0020075) or by Demand Draft/Banker's Cheque/Pay Order drawn on any nationalised bank/scheduled bank in favour of "Bharat Heavy Electricals Limited" payable at Hyderabad shall be enclosed to the tender bid. Tender bids received without EMD will be rejected and will not be considered for evaluation. In the event of acceptance of tender, and if the contractor/bidder fails to commence the work within the promised period, BHEL shall without prejudice to any other right or remedy be at liberty to forfeit the said earnest money absolutely. EMD does not carry any interest.**

Cash Office timings: 09.30 AM to 11.30 AM

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13.30 PM to 15.30 PM

**BHARAT HEAVY ELECTRICAS LIMITED  
RAMACHANDRAPURAM: HYDERABAD-502 032**

**M&S/10-REPAIR SHOP**

**PART-A: TECHNO-COMMERCIAL BID**

**TENDER NOTICE NO.: HY/M&S/10-RS/RC/20-21/B-32/0611/1**

**Date: 06.11.2020**

**NAME OF WORK: “Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117)” as per scope of work, terms & conditions enclosed.**

**THIS IS AN INDIVISIBLE WORKS CONTRACT AND THE CONTRACTOR SHALL FILL REMARKS COLUMN AGAINST ALL ITEMS.**

This tender schedule must be submitted along with the General Conditions, Special Conditions etc. enclosed herewith duly signed and stamped on each and every page with tenderer's covering letter. Quotations should be TYPED on tender schedules only. Any deviations/deletions should be brought out separately on tenderer's letter pad and enclosed to the tender documents.

**The following are to be filled up by the tenderer**

Name of the Contractor :  
Full Address :

Name of Contact Person :  
Office Phone Number :  
E-mail Address :  
Mobile Number :

| <b>S No.</b> | <b>Description</b>   | <b>Contractor's Remarks</b> |
|--------------|--|-----------------------------|
| 1            | PF CODE  |                             |
| 2            | ESI CODE   |                             |
| 3            | PAN  |                             |
| 4            | GST Registration. Number   |                             |
| 5            | Price Validity: 90 Days from Techno-commercial bid opening date  |                             |
| 6            | EMD: <b>Rs. 44,600/-</b> Cash receipt/Banker's Cheque details  |                             |
| 7            | Security Deposit Clause: Acceptance (See terms and conditions for details)   |                             |
| 8            | Taxes and Duties: mention whether included and firm during contract period <b>OR</b> extra as applicable                           |                             |
| 9            | Payment Terms: Progressive payments as mentioned in the scope of work enclosed for the work completed successfully in all respects |                             |

**Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117) of 01-Block**  
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| S No. | Pre-Qualification   | Contractor's Remarks |
|-------|---|----------------------|
| A     | <p style="text-align: center;"><b><u>PRE-QUALIFICATION REQUIREMENTS</u></b><br/> <b>(documentary proofs should be enclosed)</b></p> <p>All the following conditions are to be satisfied by the bidder. <b>Documentary proof</b> is to be enclosed with techno-commercial bid satisfying all these conditions. <b>In case the bidder fails to enclose the same, the offer is liable to be rejected.</b></p>  |                      |
| 1     | <p>The average financial annual turnover during the last three years, ending 31<sup>st</sup> March 2019 should be at least 30% of the estimated cost. (vendor should submit balance sheet and P&amp;L account for last 3 years duly certified by Chartered Accountant)</p>  |                      |
| 2     | <p>The party must be a reputed machine tool manufacturer/reconditioner of heavy/medium machine tools. Copy of purchase orders/work orders and corresponding successful completion certificates should be submitted as a proof for verification. Offers without these documents will be rejected. List of the customers along with respective contacting officer's address (including phone number/e-mail address) for whom machines were reconditioned/manufactured/rebuilt should be enclosed to the offer.</p>  |                      |
| 3     | <p>Experience of having successfully completed similar works during the last 7 years ending 31<sup>st</sup> October-2020 shall be either of the following:</p> <p class="list-item-l1">a) Three similar completed works each costing not less than the amount equal to 40% of the estimated cost.<br/>           (Each work order / purchase order shall be on single machine only)</p> <p style="text-align: center;"><b>OR</b></p> <p class="list-item-l1">b) Two similar completed works each costing not less than the amount equal to 50% of the estimated cost.<br/>           (Each work order / purchase order shall be on single machine only)</p> <p style="text-align: center;"><b>OR</b></p> <p class="list-item-l1">c) One similar completed work costing not less than the amount equal to 80% of the estimated cost.</p> |                      |

**Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117) of 01-Block**  
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|---|--|--|
|   | (Each work order / purchase order shall be on single machine only)   |  |
| 4 | <p><b><u>Similar Machines definition</u></b></p> <p>Manufacture/reconditioning of medium size machine tools like</p> <ol style="list-style-type: none"> <li>1. Centre lathes equivalent to L 45 of HMT make<br/>(Work piece diameter 900 mm, length 3 m, weight 3 ton)</li> <li>2. Centre lathes equivalent to SU 63 of TOS make<br/>(bed length 4.9 m or more)</li> <li>3. Horizontal boring machines of spindle diameter of 63 mm or more</li> <li>4. Vertical boring machines equivalent to SK 12 of TOS make (table diameter 1200 mm or more)</li> <li>5. Drilling machines of spindle diameter of 60 mm to 100 mm</li> <li>6. Manufacturing of light or medium machines equivalent to HMT make radial drilling machines or lathes</li> <li>7. General purpose CNC machines like HMC/VMC/Horizontal Borer/Vertical Borer/Lathes</li> </ol> |  |

| <b>B. SPECIAL CONDITIONS</b> |  |
|------------------------------|--|
| I                            | <p><b><u>(BANK GUARANTEE/ALL RISK INSURANCE COVERAGE AS SECURITY DEPOSIT</u></b></p> <p>For safe custody of the machine and material being stationed at contractor's works)</p> <p>The contractor has to submit the bank guarantee/all risk insurance coverage for Rs. 25 lakhs for safe custody and as a security deposit for the period of machine and material being stationed at contractor's works. This bank guarantee will be released after receipt of the reconditioned and tested machine at BHEL works. Any damage/loss shall be rectified by the contractor at their cost.</p> |
| II                           | <p><b>EMD of 2% of the Estimated Cost (i.e. Rs. 44,600/-)</b> shall be paid in as cash deposit at BHEL cash office or by Electronic Fund Transfer (EFT) to BHEL Account Number: 62048154115 (IFS Code: SBIN0020075) or by Demand Draft/Banker's Cheque/Pay Order drawn on any nationalised bank/scheduled bank in favour of "Bharat Heavy Electricals Limited" payable at Hyderabad shall be enclosed to the tender bid. Tender</p>  |

|     |   |
|-----|---|
|     | bids received without EMD will be rejected and will not be considered for evaluation. In the event of acceptance of tender, and if the contractor/bidder fails to commence the work within the promised period, BHEL shall without prejudice to any other right or remedy be at liberty to forfeit the said earnest money absolutely. EMD does not carry any interest.  |
| III | <p><b><u>SECURITY DEPOSIT</u></b></p> <p>The total amount of Security Deposit will be 5% of the contract value. EMD of the successful tenderer shall be converted and adjusted towards the required amount of Security Deposit. Security Deposit amount shall be returned to the contractor after successful completion of the contract work, i.e. handing over of the proved-out machine to regular production at BHEL works. The security deposit shall not carry any interest.</p>   |
| IV  | <p><b><u>TIME SCHEDULE</u></b></p> <p><b><u>TWENTY WEEKS</u></b> for reconditioning of the machine, from the date of receipt of the machine at contractor's works to the date of final inspection and acceptance of the reconditioned machine by BHEL at the contractor's works.</p>  |
| V   | <p><b><u>PAYMENT TERMS</u></b></p> <ol style="list-style-type: none"> <li>1) 30% of Part-I order (i.e. 30% of labour cost and 30% of initial spares cost) shall be paid after joint inspection of the completely dismantled machine for 1) identification of spares and 2) deciding detailed scope of repair/rework on various components/parts and submission of quotation for joint inspection spares along with manufacturing drawings. This is subject to submission of bank guarantee for like amount valid for the period till the reconditioned machine is reached to BHEL works.</li> <li>2) 60% of Part-I order (i.e. 60% of labour cost and 60% of initial spares cost) along with 100% taxes and duties at actuals (against submission of documents to BHEL for reimbursement of the same from authorities concerned) shall be paid after re-erection, re-commissioning, job prove-out and handing over of the reconditioned machine for regular production at BHEL works.</li> <li>3) Joint inspection spares shall be ordered separately (Part-II order). However, 90% of Part-II order shall be paid after re-erection, re-commissioning, job prove-out and handing over of the reconditioned machine for regular production at BHEL works.</li> <li>4) Balance 10% of Part-I &amp; Part-II orders shall be paid after submission of performance bank guarantee for like amount valid for the guarantee period of 12 months (on two-shift basis) from the date of handing over of the proved-out machine for regular production at BHEL works.</li> </ol> <p><b><u>5) GST CLAUSES</u></b></p> <ol style="list-style-type: none"> <li>a. In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of time line prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount shall be recoverable from vendor along with interest</li> </ol> |

**Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117) of 01-Block  
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|  | <p>levied/leviable to BHEL.</p> <p>b. In case vendor delays declaring such invoice in his return and GST credit availed to BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from vendor/contractor along with interest levied/leviable on BHEL.</p> <p>c. The bidder shall arrange to send to BHEL, Hyderabad along with all the required documents as in Purchase Order, tax invoice (original for recipient) along with his bills.</p> <p>d. Vendor to ensure correct applicability of IGST/CGST/SGST/UTGST based on the inter/intra state movement supply of goods and services or both.</p> <p>e. Taxes and duties prevalent on the contractual delivery date (in case of delay) which is lower shall be applicable and paid. Composition scheme to be addressed.</p> <p>f. Vendor shall note that the invoice has to be raised quoting HSN code of goods or Accounting code of services or both wherever applicable.</p> <p>g. Invoice should mention BHEL-HPEP-HYDERABAD GSTIN: 36AAACB4146P1ZG or GSTIN of BHEL nodal agency as mentioned Purchase Order.</p> <p>h. In case of any short supply of goods or service, Vendor has to raise a credit note for short supplied quantity as per GST provisions.</p> <p>i. Any GST liability arising on BHEL under reverse charge before actual receipt of goods and/or services and/or invoice thereof subject to recovery of interest leviable for the period between the date of such liability and actual date of eligibility of ITC based on receipt of goods, receipt of invoices and other conditions specified in GST law, as applicable.</p> <p>j. A penalty of 0.50% of the contract value of work will be levied for every week's or part thereof delay in execution of work by the agency, subject to a maximum penalty of 10% of contract value. Penalty amount so determined along with GST, if applicable thereon shall be recovered.</p> <p>k. Supplier shall mention their GST registration number in all their invoices and invoices shall be in the format as specified/prescribed in GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice number, commercial invoice number etc. then the Invoice number which is linked/uploaded in GST network shall be clearly indicated), item description as per Purchase Order, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, CGST, SGST &amp; UTGST) separately, HAS/SAC code etc.</p> |
|--|--|

**Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117) of 01-Block**  
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|      |   |
|------|---|
|      | <p>1. A declaration to the effect that all tax liability as per GST rules and regulations shall be discharged.</p>  |
| VI   | <p><b><u>PENALTY</u></b></p> <p>0.5% of the total contract value (including labor cost, cost of initial spares &amp; joint inspection spares) per week or part thereof up to a maximum of 10% of the total contract value shall be levied beyond the time specified in clause-IV.</p>   |
| VII  | <p><b><u>PERFORMANCE BANK GUARANTEE</u></b></p> <p>Satisfactory performance of the reconditioned machine shall be guaranteed for a period of 12 months (on two-shift basis) from the date of handing over of the proved-out machine for regular production at BHEL works.</p> <p>a) During the guarantee period contractor shall attend to the machine/replace failed parts free of cost as and when called upon to do so for defects/failures noticed and attributable to contractor's work &amp; supplies (both manufactured and bought-out by them).</p> <p>b) The discarded parts (old) during the guarantee period shall be taken back by the contractor at their own expenses. Repairs, if any, shall be carried out either at BHEL/contractor works as agreed mutually. But cost of transportation both ways shall be on contractor's account. BHEL will not pay for this.</p> |
| VIII | Bonus, PVC, ORC is not applicable.  |

**Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117) of 01-Block**  
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**Specifications of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117)**

|                             |    |                 |                             |
|-----------------------------|----|-----------------|-----------------------------|
| Type of Machine             | :  | Super Cut Lathe |                             |
| Model                       | :  | B-32            |                             |
| Manufactured by             | :  | HMT, Bangalore  |                             |
| Year of Commissioning       | :  | 1970            |                             |
| Turning Length              | mm | :               | 2000                        |
| Overall Length              | mm | :               | 4005                        |
| Overall Width               | mm | :               | 2055 including splash guard |
| Overall Height              | mm | :               | 1800                        |
| Total Weight of the Machine | kg | :               | 4000                        |
| Maximum Weight of Job       | kg | :               | 1350                        |
| Total Power required        | kW | :               | 17                          |

**Technical Data of the Machine**

**Capacities**

|                           |    |   |          |
|---------------------------|----|---|----------|
| Height of Centres         | mm | : | 320      |
| Distance between Centres  | mm | : | 2000     |
| Type of Bed               |    | : | Straight |
| Swing over cross slide    | mm | : | 455      |
| Swing over carriage wings | mm | : | 640      |
| Swing over bed guide-ways | mm | : | 670      |
| Width of bed over ways    | mm | : | 450      |

**Main Spindle**

|                                      |               |     |                                       |
|--------------------------------------|---------------|-----|---------------------------------------|
| Spindle Speeds                       | No. of Speeds | :   | 24                                    |
|                                      | Range RPM     | :   | 16-1600                               |
| Spindle Nose                         |               | :   | D1-8"                                 |
| Spindle Bore                         | mm            | :   | 77                                    |
| Type of Drive                        |               | :   | Manual Gear Shift                     |
| Socket Taper in Spindle              | :             | MT7 | (Part of taper with larger ø 83.5 mm) |
| Diameter of spindle at front bearing | mm            | :   | 120                                   |
| Maximum Torque                       | Nm            | :   | 180                                   |

**Feeds & Threads**

|                                |        |   |                            |
|--------------------------------|--------|---|----------------------------|
| Number of feeds – Longitudinal | mm/rev | : | 80                         |
| Range of feeds – Longitudinal  | mm/rev | : | 0.036 – 8.8                |
| Range of feeds – Cross         |        | : | Half of Longitudinal Feeds |
| Feed Rod Diameter              | mm     | : | 30                         |
| Lead Screw Diameter and Pitch  | mm     | : | 36 x 4                     |

|                 |                             |   |              |
|-----------------|-----------------------------|---|--------------|
| <b>Threads:</b> | English – Number of Threads | : | 80           |
|                 | Range                       | : | ½ - 112 TPI  |
|                 | Metric – Number of Threads  | : | 44           |
|                 | Range                       | : | 0.25 – 56 mm |
| Feed Force      | N                           | : | 1250         |

**Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117) of 01-Block**  
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**Carriage**

|                                  |         |   |            |
|----------------------------------|---------|---|------------|
| Length of Carriage Wings         | mm      | : | 581        |
| Width of Carriage Bridge         | mm      | : | 250        |
| Cross Slide Traverse             | mm      | : | 320        |
| Top Slide Traverse               | mm      | : | 130        |
| Tool Shank Size – Standard       | mm X mm | : | 25 x 25    |
| Rapid Traverse Rate              | mm/min  | : | 4000       |
| Diameter of lead screw and pitch | mm      | : | 36 x 4 TPI |
| Diameter of feed rod             | mm      | : | 30         |

**Tailstock**

|  |    |   |     |
|--|----|---|-----|
| Quill Diameter   | mm | : | 100 |
| Quill Travel   | mm | : | 250 |
| Quill Taper  |    | : | MT4 |
| Maximum offset of Tailstock<br>on either side of Centre line | mm | : | 8   |

**List of Motors**

|                       |          |   |             |
|-----------------------|----------|---|-------------|
| Main Spindle Motor,   | kW / RPM | : | 15 / 1500   |
| Rapid Traverse Motor, | kW / RPM | : | 0.37 / 1500 |
| Coolant Pump Motor,   | kW / RPM | : | 0.1 / 3000  |

**SCOPE OF WORK IN BRIEF:**

Complete Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117) consisting of labor (Mechanical, Hydraulics & Electrical), replacement of lead screws and box-nuts, bearings, gears, electrical control panel, cable drag chains and provision of reputed make centralized lubrication system for spindle as well as for axes' guide-ways and a new DRO system for X- & Z-axes including magnetic scales, scanner heads, signal cables and other accessories.

New winding is to be done for existing main spindle motor and rapid feed motor. Existing coolant motor-pump system is to be replaced with reputed make new coolant system and accessories. Transportation and transit insurance for both ways shall be arranged by BHEL. Packing & forwarding will be done by BHEL approved transporter.

| <b><u>SCOPE OF WORK IN DETAIL</u></b> |  |
|---------------------------------------|--|
| <b>A</b>                              | <b>MECHANICAL</b>  |
| 1.                                    | Measurement of machine geometrical accuracies and sound levels as per manufacturer's test charts before dismantling of the machine at BHEL works by the contractor with his personnel and measuring instruments.                   |
| 2.                                    | Removing the machine from the foundation, dismantling it into transportable lots and minimum packing required for further transportation to the contractor works. The necessary personnel and tools are in the contractor's scope. |

**Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117) of 01-Block**  
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| <b><u>SCOPE OF WORK IN DETAIL</u></b> |  |
|---------------------------------------|--|
| 3.                                    | Unpacking the transported machine assemblies at the contractor's works, complete dismantling of the machine assemblies into individual parts, de-greasing, chemically cleaning, pre-painting of structural parts, joint inspection of the dismantled machine parts along with BHEL personnel to finalize the detailed list of 1) spares to be bought-out and 2) spares to be manufactured. The list has got to be approved by BHEL. Drawings of manufacturing spares and specifications of bought-out spares shall be prepared and submitted to BHEL for approval. BHEL may procure and supply these spares to the contractor from any other source as well  |
| 4.                                    | Replacement of all bearings with new ones (with SKF/FAG/NTN make only) irrespective of their size and present condition. (The list is enclosed in Annexure-A).   |
| 5.                                    | Replacement of all worn-out gears (Spur, Helical, Spiral, Bevel, Worm and Worm Wheels), shifters, shafts and other parts in the machine headstock, speed gearbox, feed gearbox and Apron gearbox, carriage/saddle, cross-slide, compound slide with new ones complying to IS standards and specified quality materials complying with the original machine manufacturer specified tolerances.  |
| 6.                                    | All slide-ways/guide-ways of machine bed longitudinal, cross-slide and saddle have to be ground and blue-matched with mating parts; scraping of all sliding parts; gibs etc. to obtain final alignment. Pasting of Turcite® B low friction bearing material on all slides, wherever required   |
| 7.                                    | <p>Existing longitudinal lead screw rod is to be replaced with new, size Tr 36 x 4 L of suitable length and with suitable box nut. (<b>Qty. 1</b>)</p> <p>Existing cross-slide lead screw rod is to be replaced with new lead screw of suitable size, length and with suitable box nut. (<b>Qty. 1</b>)</p> <p>Existing compound slide lead screw rod is to be replaced with new lead screw of suitable size, length and with suitable box nut. (<b>Qty. 1</b>)</p> <p>Existing tailstock lead screw rod is to be replaced with new lead screw of suitable size, length and with suitable box nut. (<b>Qty. 1</b>)</p> <p>(Vendor shall confirm the sizes of lead screws and box nuts before submitting the offer)</p> |
| 8.                                    | New set of V-Belts of FENNER make or equivalent for forward/reverse clutch and brake clutch. (each 5 No's)   |
| 9.                                    | Replacement existing brake clutch with new EMB16 clutch kit (2 sets)   |
| 10.                                   | Replacement existing forward and reverse clutches with new ERD16 clutches. (2 sets)  |
| 11.                                   | Hydraulic gear pump is to be serviced and new pressure gauge is to be installed. All hydraulic elements are to be replaced.  |
| 12.                                   | Design, manufacture and fixing of flange and coupling of main spindle motor.   |
| 13.                                   | Longitudinal carriage movement over the machine bed is by rack and pinion. This carriage movement is hard. This has to be rectified.<br>Vendor has to replace this rack and pinion mechanism with new one.   |
| 14.                                   | Cross-slide movement is hard. This has to be rectified.  |
| 15.                                   | Vibrations in the saddle and tool-post are to be eliminated. Backlash in X- and Z-axes are to be eliminated.   |
| 16.                                   | Oil leakage from gear boxes is to be arrested.   |
| 17.                                   | While machining component, taper is 0.1 mm over a length of 150 mm. The machine is   |

**Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117) of 01-Block**  
**TENDER NOTICE NO.: HY/M&S/10-RS/RC/20-21/B-32/0611/1 Date: 06.11.2020**

|          | <b><u>SCOPE OF WORK IN DETAIL</u></b>   |
|----------|---|
|          | not taking load. These are to be rectified.   |
| 18.      | Tailstock is not working properly and movement is hard. These are to be rectified. Tailstock center to chuck center is varying by 0.2 mm. It is to be rectified. Tailstock sleeve is to be repaired.  |
| 19.      | Headstock gearbox/gearshift mechanism is not working properly. Gearshift in feed gearbox is also not working properly. These are to be repaired.  |
| 20.      | Threading is not working properly. This is to be rectified.   |
| 21.      | Vibrations in the machine chuck and noise in headstock are to be eliminated.  |
| 22.      | Taper cutting is not working properly. This is to be rectified.   |
| 23.      | Machine accuracies are to be improved and brought back to original values   |
| 24.      | Chuck jaws and screw rods are to be repaired.   |
| 25.      | New “CENLUB” make centralized lubrication system along with required accessories shall be provided for axes’ guide-ways, headstock, Apron, gearboxes, tailstock & spindle.  |
| 26.      | Replacement of existing coolant motor-pump, its accessories and piping with new.  |
| 27.      | Dials, name plates, instruction plates including speed and feed chart plates shall be replaced with new ones.   |
| 28.      | All the missing handles and levers are to be replaced. All these levers and handles shall be Nickel-plated.   |
| 29.      | Cable drag chains are to be provided for longitudinal and transverse axes.  |
| 30.      | Safety guards for chips and coolant are to be provided.   |
| 31.      | Replacement of all seals, O-rings, wipers, rubber packing’s etc.  |
| 32.      | General assembly of the machine   |
| 33.      | One set of new spares for all headstock gears are to be supplied  |
| 34.      | One set of new spares for brake clutch, forward and reverse clutch units are to be supplied.  |
| 35.      | One set of new spares for all screw rods (4 No’s) with box-nuts (4 No’s) are to be supplied   |
| 36.      | <b><u>PAINTING</u></b><br>Machine outside body shall be painted with two coats of Apcelite (Asian Paints) premium enamel opaline green color paint. Interior of the machine has to be painted with two coats of red enamel paint. Wherever oil comes in contact with the interior of the body, oil resistant paint is to be used. Letters, numerals etc. will have to be painted with a different color as required/indicated by BHEL at the time of final painting. For electrical control panel, the interior of the panel is to be painted with two coats of white enamel paint. Painting should be carried out according to the standard procedure for painting including cleaning and removing of the old paint, applying metal primer putty etc. Good finish should be ensured. Overall Machine aesthetic view should be taken care of. |
| <b>B</b> | <b><u>ELECTRICAL</u></b>  |
| 1.       | Dismantling of existing electrical control panel, operator panel, and all interconnected cables on the machine.   |
| 2.       | Dismounting all motors, interconnected cables and complete wiring on the machine.   |
| 3.       | New winding is to be done for existing main spindle motor and rapid feed motor.   |
| 4.       | The motors other than the replaced ones have to be serviced, if necessary they have to be rewound and bearings are to be replaced with new ones. Insulation values of these   |

| <b><u>SCOPE OF WORK IN DETAIL</u></b> |   |
|---------------------------------------|---|
|                                       | motors are to be improved. Terminal blocks are to be replaced.  |
| 5.                                    | <p>Supply, Installation &amp; Commissioning of New Scales &amp; Digital Read Out (DRO) System for X- &amp; Z-axes as per the details below:</p> <p>1) <b>LINEAR SCALES: (Quantity 2 No's. – one each for X- &amp; Z-axes)</b></p> <p><b>For X-Axis (Cross-slide/Transverse Axis)</b><br/>           Incremental Linear Magnetic Scale: Type GVS100 with MP200 Magnetic Tape, MTS M sensor, 5V TTL, Accuracy of scale <math>\pm 10 \mu\text{m}</math><br/>           Make: GIVI MISURE<br/>           Traverse of axis = 350 mm</p> <p><b>For Z-Axis (Longitudinal Axis)</b><br/>           Incremental Linear Magnetic Scale: Type GVS100 with MP200 Magnetic Tape, MTS M sensor, 5V TTL, Accuracy of scale <math>\pm 10 \mu\text{m}</math><br/>           Make: GIVI MISURE<br/>           Traverse of axis = 2500 mm</p> <p><b>Note: Vendor should confirm the lengths of the scales and ensure that the installed scales should cover the entire traverse of the axes.</b></p> <p>2) <b>2-Axis DRO</b> – Quantity 1 No. (for X- &amp; Z-axes)<br/>           Make: GIVI MISURE, Model: Vision 700</p> <p>3) Suitable signal cables, adapters, mounting brackets &amp; fixing plates, screws, protection covers etc. for linear scales, sensor heads and DRO</p> <p>4) <b>Additional Spare Sensor Heads for the above scales should be supplied</b><br/> <b>Quantity – 2 No's (Two).</b></p> <p><b>Other important features of DRO:</b> Zero setting and Pre-setting, Absolute and Incremental Mode of Operation. MM/INCH conversion, Retaining of data, Error Codes/Alarm messages in English. DRO System should support feedback (5V TTL signals) from linear as well as rotary encoders. Input voltage to DRO: Single Phase, 230 VAC, 50 Hz.</p> |
| 6.                                    | Supply of new electrical control panel with complete machine wiring and panel wiring. Two (2 No's) 5/15 A power sockets are to be provided inside the main electrical panel.  |
| 7.                                    | All cables other than the in-coming supply cable are in the scope of the contractor.<br><b>Make: LAPP KABEL</b><br>Planning and laying of all necessary cables are also in the contractor's scope.  |
| 8.                                    | All switchgear items like MCBs, MPCBs, fuses, OLRs, contactors, control relays etc. shall be of <b>SIEMENS/any other reputed</b> make. Terminal blocks shall be of <b>WAGO make</b>   |
| 9.                                    | All the limit switches and other sensors (if any) along with brackets are to be replaced with <b>BALLUF/ TEKNIC EUCHNER</b> make  |
| 10.                                   | LED machine lamp with sufficient illumination shall be mounted at appropriate location on the machine.  |
| 11.                                   | Indication lamps wherever required are to be provided with new ones.  |
| 12.                                   | Indicating instruments/gauges shall be replaced with new ones of reputed make   |
| 13.                                   | <b>Digital Energy Meter</b> of Siemens PAC3220 or equivalent with Ethernet  |

**Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117) of 01-Block**  
**TENDER NOTICE NO.: HY/M&S/10-RS/RC/20-21/B-32/0611/1 Date: 06.11.2020**

| <b><u>SCOPE OF WORK IN DETAIL</u></b> |  |
|---------------------------------------|--|
|                                       | communication facility shall be provided on main electrical control panel to indicate and record the total consumption of electric power by the machine including auxiliary systems. Scope shall also include necessary current transformers & relevant accessories.   |
| 14.                                   | All equipment must be suitable to run with input voltage of 3 wire, 3 phase, 415 volts AC $\pm$ 10%, 50Hz $\pm$ 2Hz.   |
| 15.                                   | All equipment shall be tropicalized and suitable for operation in shop floor conditions, where temperature variation is between 10° C to 45° C.  |
| 16.                                   | Before commencing the manufacture of the panels, electrical and general arrangement drawings should be submitted to BHEL for approval.   |
| 17.                                   | Each panel and the equipment mounted in each panel shall be securely connected to the earth bus. For this purpose, the earth wire shall be looped from equipment to equipment and both ends of the earth wire shall be connected to the earth bus  |
| 18.                                   | All non-current carrying metallic parts shall be earthed. All doors and movable parts shall be connected to the earth bus with flexible copper connections.  |
| 19.                                   | Any other item/work (mechanical, electrical) not mentioned in this scope of work, but required to keep the machine in working condition with all features and functions are in the scope of the contractor.  |
| <b>C</b>                              | <b><u>RECONDITIONING &amp; COMMISSIONING AT CONTRACTOR WORKS</u></b>   |
| 1.                                    | The machine shall be reconditioned as per above scope at the contractor's work only. Time schedule for reconditioning of the machine is <b><u>TWENTY (20) WEEKS</u></b> from the date of receipt of the machine at contractor's works to the date of final inspection and acceptance of the reconditioned machine by BHEL at contractor's works. After successful reconditioning, the machine shall be offered for Pre-Dispatch Inspection (PDI) to BHEL at the contractor's works. BHEL shall be intimated in advance for deputing the team for PDI. The PDI shall include following activities |
| 2.                                    | Checking of geometric accuracies as per original test chart supplied by BHEL. The machine should be brought back to 100% of the original accuracies as specified by the original machine manufacturer and same are to be recorded.   |
| 3.                                    | Testing of the machine for complete functioning and total features of the machine. Contractor has to prove out all the functions of the machine and demonstrate working of the machine to the satisfaction of BHEL.  |
| 4.                                    | Dismantling of the machine after satisfactory final pre-dispatch inspection (PDI) at contractor works; minimum packing required for further transportation to BHEL works   |
| 5.                                    | Contractor has to dispatch the reconditioned and tested machine by BHEL approved transporter with proper care. Transportation cost is to BHEL account.   |
| <b>D</b>                              | <b><u>RE-ERCTION, RE-COMMISSIONING OF THE RECONDITIONED MACHINE AND JOB PROVE-OUT AT BHEL WORKS</u></b>  |
| 1.                                    | The machine is to be re-erected and re-commissioned at BHEL works by the contractor. The necessary personnel and tools are in the contractor's scope,  |
| 2.                                    | Checking of geometric accuracies as per original test chart supplied by BHEL. These accuracies shall be brought back to the accuracies mentioned in the original test chart.   |
| 3.                                    | Two work pieces/jobs have to be machined on this retrofitted machine to check the accuracy of the jobs on this machine. All these tests should be witnessed and certified by our representatives.  |
| 4.                                    | Handing over of the proved-out machine to BHEL for regular production  |
| <b>E</b>                              | <b><u>DOCUMENTATION</u></b>  |

**Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117) of 01-Block**  
**TENDER NOTICE NO.: HY/M&S/10-RS/RC/20-21/B-32/0611/1 Date: 06.11.2020**

| <b><u>SCOPE OF WORK IN DETAIL</u></b> |   |
|---------------------------------------|---|
| 1.                                    | Detailed and complete drawings of electrical circuit, hydraulics, lubrication system and mechanical (modified portions) drawings along with location and lay-out of various components on the machine (3 Hard Copies)   |
| 2.                                    | Operation and Maintenance Manuals of DRO and Scales (3 Hard Copies)   |
| 3.                                    | Catalogues of bought-out items.   |
| <b>F</b>                              | <b><u>GENERAL CONDITIONS</u></b>  |
| 1                                     | The machine shall be reconditioned at contractor works. Contractor's personnel will be allowed to work inside BHEL works <b>only</b> during checking of the machine before dismantling and taking out for reconditioning, during re-erection, re-commissioning and any maintenance work during the guarantee period   |
| 2                                     | Before submitting the offer, the contractor may visit BHEL works to see/study the machine, which is presently in working condition. The contractor is required to study the scope of supply & work and certify the completeness of the scope to execute the work. In case of any discrepancies in the scope, the contractor is required to highlight the same to BHEL.  |
| 3                                     | <b>Transport &amp; transit insurance for both ways are in BHEL scope and cost.</b>  |
| 4                                     | All works connected to guide-ways of all axes (e.g. slide-ways, gibbs), repair by machining (grinding, milling, hand scraping), suiting with Turcite® B low friction bearing material and matching are also covered under labour charges.   |
| 5                                     | <p><b>SPARES:</b> The spare parts (mechanical/electrical) required to be replaced (manufacturing spares and bought-out spares) will be to BHEL account. <b>Contractor has to quote for these spares along with manufacturing drawings for manufacturing spares and specifications for bought-out spares for approval.</b> BHEL may supply these spares, if available with them or may procure and supply these spares to the contractor from any other sources as well. Spares, that are not supplied by BHEL shall be purchased or manufactured by the contractor.</p> <p>a) Spares required to be replaced other than those agreed to during joint inspection will have to be approved by BHEL before such replacement. Cost of such spares shall be borne by the contractor. BHEL will not pay for these items</p> <p>b) For joint inspection of the dismantled machine at the contractor's works, prior intimation shall be given to BHEL by the contractor for deputing the team.</p> <p>c) Contractor shall submit the quotation for joint inspection spares within a week from the date of joint inspection.</p> |
| 6                                     | <b><u>REWORK IN LIEU OF REPLACEMENT</u></b><br><br>Reworks in lieu of replacement of all parts (guide-ways/sliding surfaces, spindle, bushes, box-nuts, screw rods etc.) by machining, scrapping, grinding/chrome plating/welding etc. identified initially and also during joint inspection are <b>covered under labour charges only.</b> For such works BHEL will not pay.  |
| 7                                     | General tools/instruments/gauges required for <ul style="list-style-type: none"> <li>a) Checking and packing of the machine at BHEL works for transporting the same to contractor works for reconditioning shall be arranged by the contractor.</li> </ul>  |

**Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117) of 01-Block**  
**TENDER NOTICE NO.: HY/M&S/10-RS/RC/20-21/B-32/0611/1 Date: 06.11.2020**

| <b><u>SCOPE OF WORK IN DETAIL</u></b> |   |
|---------------------------------------|---|
|                                       | <p>b) Re-commissioning and prove out of the reconditioned machine at BHEL work's shall be arranged for by the contractor.</p> <p>Special tools/instruments/ gauges for these works will be provided by BHEL</p>   |
| 8                                     | BHEL reserves the right to inspect the progress as well as workmanship at any stage of the work. Decision of BHEL representative shall be final in the matter of inspection at any stage. Contractor shall extend necessary co-operation to enable such inspection                        |
| 9                                     | All discarded parts shall be returned to BHEL   |
| 10                                    | MACHINE will be kept in open condition. No air conditioner is provided for this machine. The machine shall be given specified accuracies in these conditions only.  |
| 11                                    | General terms and conditions of BHEL as per enclosure shall be acceptable.  |
| 12                                    | Lodging & Boarding facilities for the contractor's personnel are at Contractor's scope (during dismantling period, re-erection & re-commissioning period and for troubleshooting during performance guarantee period). BHEL is not responsible for this.                                  |
| 13                                    | Material handling facilities such as crane, battery truck, slings, lifting tackles etc. along with operator, consumables like cleaning solvents, cotton waste etc. and utilities like electric power, compressed air etc. shall be provided by BHEL for the works performed at BHEL works |
| 14                                    | The enclosed National Electronic Funds Transfer Format should be submitted along with offer for payments (CVC Guidelines).  |

**Annexure – A**

**Bearings to be replaced for B-32 Super Cut Lathe (Asset No. 01-2117)**

| S No. | Description                        | Bearing No        | Qty.  |
|-------|------------------------------------|-------------------|-------|
| 1     | Gamet Taper Roller Bearing         | 118/181 x 84      | 1 Set |
| 2     | Gamet Taper Roller Bearing         | 98.4/152 x 84     | 1 Set |
| 3     | Double Row Angular Contact Bearing | 45 x 100 x 39.7   | 2     |
| 4     | Double Row Angular Contact Bearing | 35 x 72 x 17      | 1     |
| 5     | Thrust Ball Bearing                | 45 x 65 x 14 – P5 | 1     |
| 6     | Thrust Ball Bearing                | 25 x 47 - 15 – P5 | 1     |
| 7     | Needle Bearing                     | INA NK 32/20      | 6     |
| 8     | Needle Bearing                     | INA NK 20/20      | 2     |
| 9     | Needle Bearing                     | INA NK 4020 2 RS  | 2     |
| 10    | CAM Roller Follower, INA NATR 15   | 15/35 X 19        | 2     |

**Price Estimation for Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117)**

**TENDER NOTICE NO.: HY/M&S/10-RS/RC/20-21/B-32/0611/1**

**Date: 06.11.2020**

**PART – I**

| <b>S No.</b>                          | <b>Description</b>   | <b>Budgetary offer in INR.</b> |
|---------------------------------------|--|--------------------------------|
| <b>A</b>                              | <b><u>LABOUR</u></b><br>Activities A to E of the scope of work including Engineering & Design charges  | 3,60,000                       |
| <b>B1</b>                             | <b><u>INITIAL SPARES</u></b>   |                                |
| <b>B1.1</b>                           | <b>Mechanical</b>  |                                |
| B1.1.1                                | New bearings (with SKF/FAG/NTN make only), as per the list enclosed in Annexure-A of main scope  | 2,50,000                       |
| B1.1.2                                | New gears (Spur, Helical, Spiral, Bevel, Worm and Worm Wheels), shifters, shafts and other parts in the machine  | 1,60,000                       |
| B1.1.3                                | Turcite® B low friction bearing material for all slides, wherever required   | 95,000                         |
| B1.1.4                                | All lead screws as per <b>Clause-7</b> of attached mechanical scope (A).   | 1,60,000                       |
| B1.1.5                                | All items/spares related to spindle as per <b>Clauses-8 to 11</b> of attached mechanical scope (A)   | 80,000                         |
| B1.1.6                                | New flange and coupling of main spindle motor  | 60,000                         |
| B1.1.7                                | New rack and pinion for carriage movement  | 1,60,000                       |
| B1.1.8                                | New “CENLUB” make centralized lubrication system along with required accessories   | 80,000                         |
| B1.1.9                                | New coolant motor-pump, accessories and piping.  | 45,000                         |
| B1.1.10                               | All other items/spares as per <b>Clauses-27 to 31</b> of attached mechanical scope (A)   | 1,50,000                       |
| B1.1.11                               | New spares for all headstock gears, spindle brake clutch, spindle forward/reverse clutches and screw rods and box-nuts as per <b>Clauses-33 to 35</b> of attached mechanical scope (A) | 1,60,000                       |
| B1.1.12                               | Machine painting as per scope ( <b>Clause A-36</b> )   | 40,000                         |
| <b>Total B1.1 (Mechanical Spares)</b> |  | <b>14,40,000</b>               |
| <b>B1.2</b>                           | <b>Electrical</b>  |                                |
| B1.2.1                                | New DRO system, Scales, Reader heads and other accessories for X- and Z-axes as per <b>Clause-5</b> of attached electrical scope (B).  | 1,70,000                       |
| B1.2.2                                | New electrical control panel with complete machine wiring and panel wiring. Two (2 No's) 5/15 A power sockets are to be provided inside the main electrical control panel.             | 1,60,000                       |
| B1.2.3                                | All other items and accessories as per <b>Clause-7 to 13</b> of attached electrical scope (B).   | 1,00,000                       |
| <b>Total B1.2 (Electrical Spares)</b> |  | <b>4,30,000</b>                |

**Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117) of 01-Block  
TENDER NOTICE NO.: HY/M&S/10-RS/RC/20-21/B-32/0611/1 Date: 06.11.2020**

| <b>S No.</b> | <b>Description</b>                                       | <b>Budgetary offer in INR.</b> |
|--------------|--|--------------------------------|
| <b>B</b>     | Total Material (Initial Spares) Cost <b>B1=B1.1+B1.2</b> | 18,70,000                      |
| <b>C</b>     | Grand Total, C = A+B                                     | 22,30,000                      |
| <b>D</b>     | GST @18 % on C = D                                       | 4,01,400                       |
| <b>E</b>     | Grand Total including GST i.e. E=C+D                     | 26,31,400                      |
| <b>F</b>     | <b>Cost to BHEL i.e. F=E-D</b>                           | <b>22,30,300</b>               |

**BHARAT HEAVY ELECTRICAS LIMITED  
RAMACHANDRAPURAM: HYDERABAD-502 032**

**M&S/10-REPAIR SHOP**

**PART-B: PRICE BID**

**TENDER NOTICE NO.: HY/M&S/10-RS/RC/20-21/B-32/0611/1**

**Date: 06.11.2020**

1. Tenderer is required to quote their percentage of less/excess/at par in figures and words over the estimate as stated above.
2. Tenderer is not allowed to change the estimate. Alteration of the estimate by the tenderer leads to rejection of his bid.
3. The below offered percentage by the tenderer is proportionately applicable for all item rates.

| Tender % | In Words | Figures |
|----------|----------|---------|
| Excess   |          |         |
| Less     |          |         |
| Estimate |          |         |

**Note**

1. If there is a discrepancy between figures and words, the amount in words shall prevail.
2. GST @ 18% extra on total order value.
3. Kindly note that, the vendor has to bear the excess in taxes and duties in case of delayed delivery schedule.

**Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117) of 01-Block  
TENDER NOTICE NO.: HY/M&S/10-RS/RC/20-21/B-32/0611/1 Date: 06.11.2020**

**NATIONAL ELECTRONIC FUND TRANSFER FORMAT**

(To be furnished on Contractor's Letter head)

Ref No.:

Date:

Dy. Manager/Finance-CM  
Bharat Heavy Electricals Limited  
Ramachandrapuram  
Hyderabad 502 032

Dear Sir,

Sub: Details for National Electronic Fund Transfer

We request and authorize you to effect payment through NEFT to our Bank account, subject to RBI Guidelines, as per the details given below.

A. Supplier code (As per PO/SCO) :  
B. Beneficiary (Name as per PO/SCO) :  
C. PAN of Beneficiary :  
D. TIN of Beneficiary :  
E. e-mail address of Beneficiary :  
F. City (of Beneficiary) :  
G. Bank Name :  
H. Branch Name (of Bank) :  
I. Account Number :  
J. Account Type (Savings or Current) :  
K. MICR Code of the branch (9-digit) :  
L. IFSC for EFT (11 char) :  
M. IFSC for RTGS (if different from L) :

Thanking you,

(Signature with Seal)  
Authorized Signatory

Name :  
Designation :

Certified that the particulars, furnished above, are correct as per our records

Date:

(Signature of authorized official of bank)  
Bank Stamp

**BHEL TERMS AND CONDITIONS**

**A. CONTRACTUAL**

- 1) The Contractor will ensure that the employees deployed by him in the premises of BHEL are physically and mentally fit and do not have any criminal record.
- 2) The Contractor will maintain records of his employees deployed to carry out the job. The Contractor will provide Employment card/Identity card with photograph duly attested by him to his employees.
- 3) In the event of termination of contract for any reason whatsoever, the contractor shall withdraw all his employees from the establishment of BHEL.
- 4) The Contractor will obtain insurance cover for his employees and take third party risk insurance coverage at his own cost.
- 5) The Contractor will be solely entitled to dictate such workers about the manner of carrying out the work.
- 6) The Contractor or his authorized representative will supervise the work allotted to him and being carried out by his employees or will post a Supervisor for this purpose.
- 7) The Contractor will be responsible for the good conduct of his employees. In case of any misconduct/misbehavior by any employee, contractor will replace such employee immediately.
- 8) The Contractor will keep watch on his employees and he will be liable for any pilferage / loss to BHEL due to acts of omission and commission by his employees. Similarly, liability for any compensation to outsiders on account of any act of omission and commission by the employees deployed by the contractor shall lie exclusively with him.
- 9) The Contractor will ensure that all precautions are taken for the safety of his employees.
- 10) The Contractor will provide to his employees all tools, tackles and equipment required to carry out the job under the contract at his own cost.
- 11) The Contractor will provide safety appliances at his own cost which may be required under the statute or otherwise.
- 12) The Contractor will provide all material at his own cost as mentioned in the contract to his employees for carrying out the job.
- 13) Transportation facility for the employees to come to BHEL works is in the scope of the contractor.
- 14) Consumables like air, water, power supply will be supplied by BHEL free of cost.

**Reconditioning of HMT make Super Cut Lathe, Model: B-32 (Asset No. 01-2117) of 01-Block  
TENDER NOTICE NO.: HY/M&S/10-RS/RC/20-21/B-32/0611/1 Date: 06.11.2020**

15) No accommodation will be provided by BHEL to the contractor personnel deputed for performing the contract work.

16) Shift timings: 1<sup>st</sup> shift – 06:30 to 14:45 Hrs with Lunch break from 11:00 to 11:30 Hrs  
2<sup>nd</sup> shift - 14:45 to 22:45 Hrs with Dinner break from 19:00 to 19:30 Hrs

**B. STATUTORY**

- 1) The Contractor shall comply with all statutory requirements, rules, regulations, and notifications in relation to employment of his employees issued from time to time by the concerned authorities.
- 2) The Contractor shall provide PF passbook to his employees and ensure payment of PF, EDLI, and pension dues under EPF & MP Act, 1952 to the RPFC.
- 3) The Contractor shall produce proof of deductions as well as remittances of PF, EDLI, Pension, ESI contribution, administrative charges etc. wherever applicable and shall maintain proper records.
- 4) The Contractor shall furnish proper returns to the concerned statutory authorities.
- 5) The Contractor shall be solely responsible for nonpayment/delayed payment of wages, contributions under EPF & MP Act, ESI Act etc.
- 6) In case the contractor fails to make payment of wages to his employees or remittance of contribution to the concerned authorities, the security deposit/other dues under the contract can be utilized by BHEL to discharge the liability of the contractor.
- 7) The Contractor shall indemnify BHEL against all claims and losses under various statutes or any civil or criminal law in connection with employees deployed by him.
- 8) The liability for any compensation on account of injury sustained by an employee of the contractor will be exclusively that of the contractor.
- 9) The Contractor shall obtain license under CL(R&A) Act, 1970.

**C. GENERAL**

- 1) The contractor shall pay minimum wages to workers as per minimum wages act. Contractor shall make PF, ESI contributions as per applicable rules. ESI Cards should be arranged to contract labour and their wards by the contractor. These records need to be preserved for a period of at least 3 years and made available even after the contract is over for any verification by the statutory authorities.
- 2) Contractor shall provide personnel protective equipment like safety uniform in blue color, safety shoe in black colour and should ensure that they wear them daily while on work.
- 3) Contract operates on Unit rates, contract labour should get at least Daily Unit rate as per the minimum wages act from the contractor.

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- 4) Contractor should pay double amount to the contract labour, if they are engaged more than 8 hours (normal).
- 5) Permissions for labour and materials shall be obtained in the prescribed formats.
- 6) **Break:** contract labour should be given break period for about 15 days once in every 6 months in case of long duration contracts, for one time/ short period contracts this clause will not apply
- 7) The contractor is wholly responsible for any loss of life or partial disability of any of their labour while on duty
- 8) In case of occurrence of any accident/ injury of contractor's staff, BHEL will not pay any compensation while they are on duty and contractor has to take care of health of workers under statutory obligation.
- 9) BHEL reserve the right to cancel the work order in part or in full without assigning any reason.
- 10) Upon awardal of the work, the contractor has to execute an agreement with BHEL on a non-judicial stamp paper worth Rs.200/- as per General Agreement Conditions before commencement of work.
- 11) BHEL shall have the privities of the contract with the contractor only and will give instructions to the contractor or his authorized representative. BHEL will have nothing to do or be concerned with the employment of employees working for the contractor. The relationship between BHEL and the Contractor will be that of independent entities and nothing herein contained will amount to joint venture, partnership or an employer-employee relationship.
- 12) The contractor shall maintain regular contact with the designated employee(s) of BHEL and will interact on matters relating to the work awarded under this contract.
- 13) In case the Contractor does not carry out the Contractual/Statutory obligations or the services rendered by him are found to be unsatisfactory, BHEL shall bring the same to his notice and he will be obliged to discharge the obligations and rectify the efficiency/anomaly within three days' time failing which, BHEL reserves the right to terminate the contract without assigning any reason whatsoever. In such an event, no damages will be payable for short closure of the contract.
- 14) Notwithstanding anything contained in the contract Agreement which will be entered after awardal of work, the contract may be terminated by BHEL without assigning any reason thereof by giving a notice of 30 days to the contractor.
- 15) The Entry permits are to be issued to the Contract Labour by Assistant Commandant/CISF (Plant), based on the requisition submitted by Contract Executing Officer and forwarded by DGM/Personnel.

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- 16) Every contractor shall submit a notice regarding commencement and completion of work in form – VI A&B [Rule 25 (VIII) & 81 (3)] to HR Department, IR section through his contract executing officer, for forwarding the same to State Labour Department.
- 17) Non – compliance of any provisions under the act/rule/instructions/guidelines shall make the contractor liable for penal action including termination of contract.
- 18) Contractor shall furnish in a separate letter his place of residence and postal address. The delivery at the above named place or posting in a Post box regularly maintained by the post and telegraph Department or sending letters registered for acknowledgement of any notice, letter or other communication to the contractor. Change in address shall come into force at any time by an instrument executed by the contractor and delivered to the Company official who has signed the contract.
- 19) The contractor must satisfy himself by personal study and examination of the drawings/specifications furnished and understands thoroughly the scope of proposed work in detail and all conditions affecting the work before entering into the contract. There shall not be at any time dispute/complaint of any misunderstanding with regard to scope of work and interpretation of specifications or any misunderstanding with regard to nature or omission of the work to be done not shall any application for compensation in terms of time and money shall be accepted by company regarding the above.
- 20) Contractor shall in his absence keep competent agent constantly on the works and any directions or explanations given by the “Contract Signing Officer” or his representative to such agent shall be held to have been given to the contractor himself.
- 21) It shall be contractor’s sole responsibility to protect the public and his employees against accident from any cause and provide required safety equipment and shall indemnify, the company against any claims for damages for injury to the person or property resulting from any such accidents and shall, where the provisions of the workmen’s compensation act apply, take steps to properly insure against any claims there under.
- 22) In the event of any accident in respect of which compensation may become payable under the Employees’ Compensation Act VIII of 1923 whether by the contractor or by the company as principle employer, it shall be lawful for the company to retain out of monies due and payable to the contractor such sum or sums of money as may, in the opinion of the company shall be final in regard to all matter arising in this clause.
- 23) No work shall be done on Sundays or on other declared holidays of the company without the written permission of the company officer in-charge of the work. The contractor shall comply with the provisions of the Factories Act Rules framed there under if the same are applicable.
- 24) The contractor shall keep his work place clean and safe to avoid injuries to men and damage to finished products / equipment.
- 25) On the occurrence of an accident, which results in the death of any of the workmen employed by the contractor or which is so serious as to be likely to result in the death of any such workmen, the contractor shall intimate within 24 hours of the happening of such an accident intimate in writing to the company official in-charge of the work.

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- 26) The contractor shall indemnify the company against all losses or damages sustained by the company resulting directly or indirectly from his failure to give intimation in the manner aforesaid including the penalties or dues if any and become payable by the company, as a consequence of failure, the company to give notice under the workmen's compensation act or otherwise confirm to the provisions of the said act in regard to such accident.
- 27) The contractor shall ensure adherence to all statutory requirements applicable to BHARAT HEAVY ELECTRICALS LIMITED, RAMACHANDRAPURAM, HYDERABAD-502032.
- 28) Notwithstanding the clause, in case of any financial loss incurred by the company on account of contravention of the Provident Fund regulations or any regulations of rule touching the same by the contractor, the contractor shall submit an undertaking to indemnify the company to the extent of the loss incurred by the company.
- 29) The contractor should engage only those labourers who shall be more than 18 (eighteen) years of age.
- 30) The contractor shall not resort to subcontracting under any circumstances. If found subcontracting at a later date, BHEL reserves the right to take whatever action it deems fit, including cancellation of the contract.
- 31) The contractor shall be responsible to settle any grievances of the labour deployed by him.
- 32) Whenever the term "CONTRACTOR" is used, it shall be understood to refer to the particular person, firm or corporation with whom an agreement has been made by the concerned company official for executing the work defined in the concerned agreement and for the purpose of instructions regarding compliance with contract conditions, it shall include the contractor's authorized agents, who are entrusted with the work by contractor.
- 33) The quantities mentioned in the agreement schedule are worked out from the relevant drawings in the company and may not be the actuals required for execution. The company does not expressly or by implication agree that the actual amount of the work to be done shall correspond therewith, but reserves the right to increase or decrease the quantity of any class or portion of the work as he deems necessary.
- 34) All the works shall be carried out in accordance with the directions and to the satisfaction of the company official in accordance with the drawings, specifications and instructions. Supplementing or explaining the same from time to time shall be done by the company official.
- 35) For all modifications, omissions or additions to the approved drawings and specifications, the company shall issue revised plans or written instructions and no modifications, omission or addition shall be made unless at any time before completion of the work.
- 36) All materials, articles, and workmanship shall be the best of their respective kinds for the class of work described in the contract specifications and schedule and materials to be obtained by the contractor shall be from sources approved by the company.
- 37) Sample of materials shall be furnished by the contractor at his expense to the company when called for before execution of any work.

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- 38) The company shall have power to reject at any stage, any work which is considered to be defective in quality of materials of workmanship and shall not be debarred from rejecting wrong material by reasons of having previously passed them in an unworked condition. Any portion of the work or materials rejected or pronounced to be inferior or not in accordance with specifications shall be taken down and removed from the work site at the contractor's expenses.
- 39) The decision of the company shall be final and binding on the contractor on all technical questions which may arise in the contract with respect to material, workmanship, removal; of improper work, interpretation of the working drawings, specifications, notes, procedures etc.
- 40) The decision of the "Contract Signing Officer" or any officer deputed by him duly authorized on his behalf, in respect of the rate of progress and the quality of work or material shall be final.
- 41) Contracts shall be deemed to have included in his tender price of all the plant, machinery and appliances required for the purpose of all operations connected to secure a satisfactory quality of work within the opinion of the company will ensure the completion of the work within the time specified.
- 42) It is open to the company to lend or supply to the contractor any tools, implement, material and machinery that are needed by the contractor, which in the opinion of the company is essential to improve the quality or progress of work. The contractor shall pay such deposit or charges that may be fixed or determined by the company for any such articles or machinery lent or hired to the contractor.
- 43) All rubbish as it accumulates shall be removed from the site to the point of disposal as indicated from time to time by the company. If this is not adhered to, the company shall remove the scrap and recover the cost of these operations from the bills of the contractor.
- 44) Any sum due from the contractor on account of tools and plants, stores, or any other items provided by the company shall be deducted from the respective bill due to him.
- 45) In case the contractor does not execute the work awarded to him as per the terms and conditions of the agreement, the same shall be got executed by some other contractor and the excess cost incurred shall be recovered from the contractor's security deposit/pending bills.
- 46) In case of breach of any of the terms and conditions of the contract, a claim shall be lodged under the bank guarantee with the guarantor at the discretion of the competent authority of the company. On successful completion of the contract to the satisfaction of the company, the bank guarantee shall be released after due claim period.
- 47) In the event of any question or dispute or under this contract, the same shall be referred to a competent Authority in the company for sole arbitration and his decision shall be final and binding on the parties to the contract.
- 48) In case of any suit or other legal proceeding arising under this contract, the courts at Sangareddy (Sangareddy Dist.), Telangana State only shall have the Jurisdiction.

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- 49) Disputes, grievances between the contractor and his labour, will have to be settled by the contractor only.
- 50) The labour employed by the contractor, if found in abetting and fellow labour or contractors or any BHEL employee, the same shall be considered as an act of indiscipline. Such labourers shall be removed from the services of the contractor, on the advice of BHEL. Further the contractor shall initiate every necessary action in accordance with the relevant Laws, Rules & Regulations and enactments of State and Central Government.
- 51) Wherever, BHEL/COMPANY standards are mentioned shall be strictly followed.
- 52) Nothing contained in the contract agreement and its conditions shall be deemed to preclude or render inoperative the service of any notice, letter or other communication upon the contractor personally.
- 53) The decision of the “Contracting Signing Officer” shall be final and binding on the contractor on all technical questions which may arise touching the contract with respect to the quality of material, workmanship, removal of improper work, interpretation of the working drawings, specifications, notes, procedures etc.
- 54) All disputes, claims and demands arising in connection with the contract shall be settled by mutual consultation. If no such agreement is reached between the parties each party can appoint one Arbitrator and the Arbitrators so appointed can appoint a Presiding Arbitrator. The proceedings of the tribunal shall be in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the rules made there under. The venue of the Arbitration shall be at BHEL, Hyderabad or at such place as the Arbitrators may direct. The Award to be given by the Arbitral Tribunal shall be a speaking award. The arbitration costs, fees and expenses shall be borne by both the parties equally. The award of the tribunal shall be final and binding on both the parties equally. The award of the tribunal shall be final and binding on both the parties. All questions, disputes, differences arising under, out of or in connection with this contract shall be exclusive jurisdiction of the Courts at Sangareddy, Sangareddy District, Telangana State.

**D. GENERAL INSTRUCTIONS REGARDING BHEL TENDERING PROCESS**

1. If the tender is made by an individual, it shall be signed with his full name and his address shall be furnished. If it is made by firm, it shall be signed with the co-partnership name by a member of the firm, who shall also sign his own name, also furnish the name and address of each member of the firm. If the tender is made by a corporation, it shall be signed by a duly authorized officer who shall produce with the tender, satisfactory evidence of his authorization. Such tendering corporation/firm is required to furnish evidence of its existence along with bid.
2. The EMD will be refunded to the unsuccessful Tenderers after rejection of the tender is intimated. The earnest money will be retained in the case of the successful tenderers and either of the cases will not carry any interest. It will be dealt with as provided in the conditions attached to the tender.
3. Whenever a tender is to be accepted, the tenderer, whose tender is under consideration, shall attend the Office of " Officer Inviting the Tender " on the date fixed by written intimation to

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him. He shall forthwith, upon intimation being given to him by the " Officer Inviting the Tender" for acceptance of his tender, complete the execution of the agreement by signing all documents connected therewith. Failure to do so and not to commence the work within one month from the date of intimation shall entail forfeiture of the earnest money.

4. Tenderers shall pursue carefully the instructions and directions to the parties given in the tender document and the conditions thereof and all other relevant documents before quoting the rates for the work. The approximate quantity of work to be executed under each class is given in the schedule. The quantities are given with a view to enable tenderer to quote his overall rate for each class of work in the tender form and for a uniform comparison of tenders. It shall be definitely understood that the schedule is liable to alterations at the discretion of accepting authority.
5. Tenderers shall keep the offer valid for a period of 90 days from the date of opening of tender. After submitting the tender, he will not recall his offer or modify the terms and conditions thereof. Should the tenderer fail to observe or comply with the foregoing stipulations, the EMD shall be forfeited.
6. Tenderers have to quote their rates in the tender schedule legibly written in figures and words and those not submitted in proper form are liable for rejection.
7. The bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case the bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/guidelines.
8. The submission of tender shall be strictly in accordance with the terms and conditions stipulated in this tender notice. No counter conditions will be acceptable or valid.
9. Contractor shall be deemed to have included in his tender price of all the plant, machinery and appliances required for the purpose of all operations connected with the work embraced under the contract to secure a satisfactory quality of work and rate of progress which in the opinion of the " Contract Signing Officer" will ensure the completion of the work within the time specified.
10. The rates quoted by the contractor should be firm for the contract period. There shall be no revision in contract rates during the period of the contract. Any increase of statutory levies during the period of the contract will be reimbursed on production of relevant proof of incurring expenditure for the same.
11. BHEL reserves the right to negotiate for price reduction with lowest quoted (L1) party and negotiated price will be considered as contract amount for all practical purposes.
12. The contractor must have phone facility at his office/residence or cellular phone for proper communication.
13. Withdrawal from contract during contract period in BHEL will entail forfeiture of security deposit.

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14. The contractor should abide by the company's **CISF** Security/safety rules and provide such safety requirements as per statutory rules and requirements of the factories act.
15. In case of breach of any of the terms and conditions of the contractor, BHEL reserves the right to cancel the contract either in part or full.
16. Contractor shall provide uniform, shoes and other Personal Protective Equipment (like safety helmet) wherever applicable to their labour.
17. **Earnest Money Deposit:** Earnest Money is to be paid by tenderers to for securing fulfillment of any obligations in terms of NIT. EMD is to be paid by each tenderer to ensure that the tenderer does not refuse to execute the work, after it is awarded to him. The rate of earnest money deposit shall be as per tender schedule. EMD shall not carry any interest.

EMD by the tenderer will be forfeited as per Tender Documents if:

- i). After opening the tender and within the offer validity period, the tenderer revokes his tender or makes any modifications in his tender, which is not acceptable to BHEL.
- ii). The contractor fails to deposit the required Security Deposit or commence the work within the period as LOI/Contract.
- iii). EMD by the tenderer shall be withheld in case any action on tenderer is envisaged.

18. **SECURITY DEPOSIT:** Security Deposit is to be provided by the contractor towards fulfillment of any obligations in terms of the provisions of the contract. SD shall be 5% of the contract value. EMD of the successful tenderer shall be converted and adjusted towards required amount of Security Deposit.

➤ The SD may be accepted only in the following forms

- Cash deposit as permissible under the extant Income Tax act
- Electronic Fund Transfer (EFT) to BHEL Account Number: 62048154115 (IFS Code: SBIN0020075)
- Banker's Cheques of Scheduled Banks/Pay Order/Demand Draft, in favour of **BHEL**
- Bank Guarantee from Schedules Banks/Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL
- Fixed Deposit Receipt issued by Schedules Banks/Public Financial Institutions as defined in the Companies Act. (FDR should be in the name of Contractor, Account of BHEL)
- Securities available from Indian Post Office, such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/hypothecated/pledged, as applicable, in favour of BHEL)

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- At least 50% of required SD, including EMD should be collected before start of the work. Balance can be collected by deducting 10% of gross amount progressively from each of the running bills.
- If the value of work done at any time exceeds the contract value, the amount of SD shall be correspondingly enhanced and additional SD shall be collected from the Contractor or recovered from the payments due to the Contractor
- In case of (a) small value contracts not exceeding Rs. 20 lakhs or (b) SAS jobs, work can be started before the required SD is collected. However, payments can be released only after collection/recovery of initial 50% SD
- SD shall be released to the Contractor upon fulfillment of contractual obligations as per terms of the contract

Signature of the Bidder with seal