

BHEL-EPD / WEX

ANNEXURE-A

Name of Work: Reconditioning & Retrofitting of CNC Lathe-1 in Solid core Bay

SCOPE OF SUPPLY & WORK

- 1) Primary scope is to recondition and retrofit the existing CNC lathe for the following :

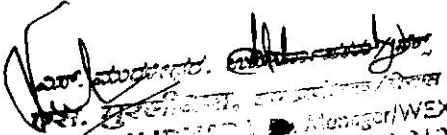
Item	Reconditioning and Retrofitting Work Description
a.	Retrofitting Boring Unit for Straight & Taper boring (inside hollow insulator)
b	Chuck/Spindle unit reconditioning with new bearing NTN 16080 or equivalent – 2nos.

Above work (a)+ (b) is to be offered in package basis. (ie) both work are to be completed by the vendor and price bid/offer is to be given for each work. Offer will be rejected incase the vendor offers for only one item work.

- 2) Our Product details are as below:

- Ceramic Blank Diameter = 625 mm OD maximum
- Ceramic Insulator Bore ID = 150mm to 410mm
- Ceramic Insulator Bore Height = 2300mm

- 3) CNC system of SIEMENS / Mitsubishi / ABB with suitable AC Servomotors & drives.
- 4) Man-Machine Interface panel with necessary wiring cables and connectors.
- 5) Development of required PLC logic to suit our product manufacturing.
- 6) Air-conditioning arrangement to house CNC Drives, electrics.
- 7) Suitable transformer, switch gears, cables , connectors, encoders, proximities, limit switches etc and cable trays/ducts with proper routing for easy identification.
- 8) System for X-axis and Z-axis movement comprising precision ball screws, bearings, LM guide ways, locking rings, over-travel protection, high torque drives, rigid supports/brackets where ever required. Existing Lathe boring column to be utilized.
- 9) Planetary gearbox suitable for Z-axis servo motor.
- 10) Safety sheet metal covers for drives, limit switches etc.
- 11) Suitable lubrication pump with fittings.
- 12) Existing CNC system for our product Outside profile cutting can be interfaced if required with new CNC system for X and Z axis for boring operation.
- 13) Field trials to be done on our product after completing the installation work.
- 14) Manual/catalogues for Electrical and mechanical items.
- 15) Field Training on CNC system and machine operation.


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GENERAL TERMS AND CONDITIONS FOR CONTRACTORS EXECUTING WORK AT EPD PREMISES

- 1) Bidder should have the essential License under Contract Labour (Regulation & Abolition) Act 1970. A copy of the license should be submitted along with the bid documents. Successful bidder has to get the endorsement in the license for the areas and nature of work which they will be performing as part of the contract.
- 2) Bidder should have independent ESI Employer code under ESI Act 1948, copy of the certificate to this effect shall be submitted along with the bid documents.
- 3) Bidder should have independent PF code under Employee Provident Fund and Miscellaneous Provisions Act 1952, copy of the certificate to this effect shall be submitted along with the bid documents.
- 4) The Bidder shall fully indemnify the loss if any caused to BHEL due to any default or non-observance of any of the laws, or any omission or commission or inability on the part of the Bidder or his representative.
- 5) The contractor shall be responsible for safety of his laborers while they are engaged for work connected with BHEL contract. Contractor has to obtain work permit from Safety Officer while carrying out certain type of works such as digging, working at heights (above 3 meter), working in enclosed space etc., as per the directions of section-in-charge.
- 6) The bidder, as the employer of his workmen, shall manage them. In the event of any dispute arising between the Bidder and his employees, the Bidder alone is solely responsible for resolving the dispute between them and BHEL will in no way be responsible for settling the dispute either statutory or otherwise.
- 7) The bidder will be solely responsible for executing the agreed work and the employees of BHEL will only oversee the proper execution of work. The contractor or his representatives shall be available in the factory to control his workers and take down instructions from the designated officials of BHEL.
- 8) The bidder shall employ only such personnel who are medically fit. The company has right to direct the bidder to remove from the premises such of his personnel who may be physically, hygienically, clinically or medically unfit.
- 9) Contractor shall not employ workmen who are less than 18 years of age.
- 10) Contractor has to ensure presence of his supervisor who should be capable of managing of his workforce, carry out the job smoothly, maintaining and submitting all statutory records and co-ordination with designated BHEL officials.
- 11) In case of any damage to the existing building, structures, materials, tools, furniture and fixtures, machines etc., caused from contractor's end, the cost of its repairs or replacement will be recovered from the contractor. If there is any stoppage of production in any area of the plant due to the fault of the bidder, the bidder is liable to compensate the same.
- 12) The contractor shall comply with the provisions of Contract Labour (R & A) Act including provisions relating to welfare and Health facilities as provided under the Contract Labour (R & A) Act 1970 and relevant rules.
- 13) Not with standing anything contrary to this, in the event of accident the contractor shall be required to submit injury report to the concerned authorities with a copy of the same to the designated BHEL Executive immediately and ensure the compliance of the ESI Act and rules made therein.
- 14) Contractor shall Supervise the work allotted to him and to be carried out by his employees.
- 15) Contractor to ensure that the employees deployed in the premises of BHEL are physically and mentally fit and do not have any criminal records.
- 16) Contractor shall be required to submit a list of his workers to be deployed for the works contract giving details regarding Name of contract worker Fathers Name, permanent and Present Address, Date of Birth, Qualification, Caste-SC/ST/OBC ESI No, PF No. and the workmen family member details.
- 17) The contractor shall promptly furnish all information and document required by BHEL authorities for the purpose of complying with the responsibilities of Occupier of the factory and shall render all the necessary assistance for the same.
- 18) The contractor will maintain proper discipline of his workmen and will ensure that his workers do not cause any loss or theft or damage to any company's property. The contractor will also be responsible for the good conduct of his workmen.
- 19) The contractor or his authorized representative shall be required to be present at the work place / site during working hours for the purpose of supervising the work and executing as per contract.
- 20) The contractor shall ensure and maintain uninterrupted progress of the work in accordance with instructions given to him on behalf of BHEL from time to time.

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